Panel 1: Genes significantly regulated in both chronic (CP) and aggressive (AP) periodontitis (p<0.05).

FC AP	p AP	FC CP	p CP	Symbol	Name
1,25353302	0,02805	1,194991205	0,0018	A1BG	alpha-1-B glycoprotein
1,559409685	0,00245	1,642621402	0,00013	A2M	alpha-2-macroglobulin
0,385552706	0,00014	0,612168196	0,00512	A2ML1	alpha-2-macroglobulin-like 1
0,351842094	0,00315	0,549808075	0,00029	A2ML1	alpha-2-macroglobulin-like 1
1,322254605	0,04029	1,329607108	0,00387	A4GALT	alpha 1,4-galactosyltransferase
0,755759964	0,035	0,793333843	0,00062	AACS	acetoacetyl-CoA synthetase
0,282045534	0,00065	0,65747138	0,01538	AADAC	arylacetamide deacetylase (esterase)
0,163572259	0,00111	0,32376075	0,00032	AADACL2	arylacetamide deacetylase-like 2
0,806641759	0,02272	0,862741345	0,01668	AADAT	aminoadipate aminotransferase
0,285190929	0,00031	0,434070114	0,00009	ABCA12	ATP-binding cassette, sub-family A (ABC1), member 12
1,346300069	0,00368	1,160703914	0,04231	ABCA9	ATP-binding cassette, sub-family A (ABC1), member 9
0,767905135	0,04193	0,85797053	0,02988	ABCB7	ATP-binding cassette, sub-family B (MDR/TAP), member 7
1,30224419	0,02198	1,215036792	0,00631	ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3
1,181811547	0,02066	1,092020546	0,0217	ABCD2	ATP-binding cassette, sub-family D (ALD), member 2
0,597909898	0,01502	0,680185426	0,02469	ABCD3	ATP-binding cassette, sub-family D (ALD), member 3
0,690637224	0,01987	0,77916458	0,0016	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1
1,325007017	0,01181	1,181811547	0,02497	ABHD10	abhydrolase domain containing 10
1,456999114	0,03272	1,36983298	0,00065	ABHD14A	abhydrolase domain containing 14A
0,43708931	0,00172	0,525222272	0,00201	ABHD5	abhydrolase domain containing 5
0,475659138	0,01245	0,587638164	0	ABHD5	abhydrolase domain containing 5
0,456599125	0,00023	0,646624466	0,00063	ABHD5	abhydrolase domain containing 5
0,729510172	0,01826	0,87175824	0,04672	ABHD5	abhydrolase domain containing 5
0,673150035	0,00741	0,706616822	0,01384	ABI1	abl-interactor 1
1,385109468	0,00098	1,344434994	0,00007	ABI2	abl-interactor 2
1,25092908	0,01881	1,272794935	0,00023	ABI3	ABI family, member 3
0,327825504	0,00215	0,669427628	0,00017	ABLIM1	actin binding LIM protein 1
0,561360711	0,02433	0,683493726	0,00411	ABLIM1	actin binding LIM protein 1
0,593779833	0,00733	0,811689581	0,01573	ABR	active BCR-related gene
0,598324482	0,00243	0,789493887	0,00046	ACACA	acetyl-CoA carboxylase alpha
1,189207115	0,02427	1,244011653	0,00053	ACAN	aggrecan
1,743516479	0,00902	1,714752073	0,00012	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1
0,539240216	0,00564	0,640823962	0,00001	ACAT2	acetyl-CoA acetyltransferase 2
1,502119927	0,00044	1,414213562	0,00007	ACBD4	acyl-CoA binding domain containing 4
1,300440147	0,03952	1,257884972	0,00422	ACE	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1
0,50697974	0,00007	0,782411782	0,02699	ACER1	alkaline ceramidase 1
1,458009379	0,0042	1,264879542	0,00003	ACOXL	acyl-CoA oxidase-like
0,490049708	0,00924	0,538120062	0,00014	ACPP	acid phosphatase, prostate
0,76684133	0,01946	0,803293997	0,00588	ACPP	acid phosphatase, prostate
1,439931319	0,00468	1,105730653	0,03755	ACRV1	acrosomal vesicle protein 1
1,203303026	0,02809	1,212512819	0,00032	ACRV1	acrosomal vesicle protein 1
0,649769531	0,03133	0,829894586	0,03141	ACSBG1	acyl-CoA synthetase bubblegum family member 1
1,437936533	0,02262	1,255271991	0,01284	ACSL5	acyl-CoA synthetase long-chain family member 5
1,464085696	0,001	1,381274448	0,00075	ACSL5	acyl-CoA synthetase long-chain family member 5
1,194163187	0,0272	1,125838586	0,02476	ACSM1	acyl-CoA synthetase medium-chain family member 1
1,187559666	0,03784	1,144724161	0,00504	ACSM5	acyl-CoA synthetase medium-chain family member 5
1,388955136	0,01821	1,164733586	0,03895	ACSS1	acyl-CoA synthetase short-chain family member 1
1,803750757	0,00461	1,666706414	0,00043	ACTA2	actin, alpha 2, smooth muscle, aorta
1,492778383	0,01653	1,584469622	0,01001	ACTA2	actin, alpha 2, smooth muscle, aorta
1,20163605	0,02776	1,174461971	0,00704	ACTN2	actinin, alpha 2
0,632001549	0,00682	0,76154437	0,00012	ACTR10	actin-related protein 10 homolog (S. cerevisiae)
0,710053679	0,02475	0,806641759	0,00733	ACTR3	ARP3 actin-related protein 3 homolog (yeast)
0,677832163	0,00037	0,759435845	0,00232	ACVR1B	activin A receptor, type IB
1,488645255	0,00811	1,498999602	0,00155	ACVRL1	activin A receptor type II-like 1
1,22858698	0,03565	1,161508732	0,01704	ACY3	aspartoacylase (aminocyclase) 3
0,718968266	0,04497	0,791685866	0,00162	ACYP2	acylphosphatase 2, muscle type
1,957483301	0,00005	1,461044379	0,00107	ADA	adenosine deaminase
1,72428709	0,00135	1,408344227	0,0014	ADA	adenosine deaminase
1,723092319	0,02323	1,511519928	0,04331	ADAM12	ADAM metallopeptidase domain 12
0,78024548	0,02458	0,880869374	0,02103	ADAM17	ADAM metallopeptidase domain 17
1,841651394	0,00076	1,22010051	0,02372	ADAM19	ADAM metallopeptidase domain 19
2,545589871	0,00313	2,386671486	0,00022	ADAM28	ADAM metallopeptidase domain 28
2,002774511	0,00425	2,283109414	0,00063	ADAM28	ADAM metallopeptidase domain 28
1,437936533	0,0128	1,684125907	0,00018	ADAM28	ADAM metallopeptidase domain 28
1,620006947	0,02313	1,534746096	0,03222	ADAMDEC1	ADAM-like, decysin 1
1,477338064	0,01285	1,43296165	0,01775	ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif, 1
1,263127262	0,02605	1,286097483	0,00219	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif, 12
1,299539062	0,02002	1,181811547	0,00265	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9
0,685866644	0,00624	0,734075318	0,00037	ADAP2	ArfGAP with dual PH domains 2
0,737134609	0,03074	0,774319028	0,0059	ADAT2	adenosine deaminase, tRNA-specific 2
0,463294031	0,00566	0,529609167	0,0052	ADH7	alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
0,608361179	0,00037	0,783497187	0,00706	ADIPOR2	adiponectin receptor 2
0,581157054	0,00106	0,838568184	0,01679	ADK	adenosine kinase
0,595015848	0,00082	0,708087719	0,00314	ADORA2B	adenosine A2b receptor
1,25353302	0,03181	1,155886707	0,03088	ADPRH	ADP-ribosylarginine hydrolase
1,520978753	0,00748	1,314031627	0,00026	ADPRH	ADP-ribosylarginine hydrolase
1,172834949	0,03495	1,159899655	0,01278	ADPRHL1	ADP-ribosylhydrolase like 1
0,516199268	0,00051	0,708087719	0,00039	ADSSL1	adenylosuccinate synthase like 1
1,29145735	0,04013	1,267512522	0,00209	AFAP1L1	actin filament associated protein 1-like 1
1,240567298	0,01823	1,183451022	0,01563	AFF2	AF4/FMR2 family, member 2
0,577542892	0,02937	0,708087719	0,00007	AFG3L1P	AFG3 ATPase family gene 3-like 1 (S. cerevisiae), pseudogene
0,625898229	0,03999	0,593779833	0,00001	AFG3L2	AFG3 ATPase family gene 3-like 2 (S. cerevisiae)
1,244011653	0,03667	1,194991205	0,00261	AGFG2	ArfGAP with FG repeats 2
0,582366793	0,04722	0,688247801	0,00079	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta)
0,784040454	0,0377	0,822450069	0,00139	AGPAT4-IT1	AGPAT4 intronic transcript 1 (non-protein coding)
1,293248932	0,02236	1,258757174	0,00016	AGXT2L2	alanine-glyoxylate aminotransferase 2-like 2
1,372684431	0,00144	1,2397077	0,00083	AGXT2L2	alanine-glyoxylate aminotransferase 2-like 2
0,610896551	0,01981	0,716977624	0,00005	AHCTF1	AT hook containing transcription factor 1
0,478635729	0,00008	0,523405141	0,00002	AHNAK	AHNAK nucleoprotein
0,40528256	0,00382	0,437999158	0,00001	AHNAK2	AHNAK nucleoprotein 2
0,349169633	0,00065	0,645728675	0,00005	AHNAK2	AHNAK nucleoprotein 2
0,716977624	0,03488	0,846745312	0,02813	AHSA2	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)
1,257884972	0,0471	1,189207115	0,00706	AIF1	allograft inflammatory factor 1
1,51887169	0,00476	1,486582984	0,00004	AIF1	allograft inflammatory factor 1
1,191682575	0,02748	1,132883885	0,01787	AIG1	androgen-induced 1
0,60667678	0,00856	0,724973416	0,00319	AIM1L	absent in melanoma 1-like
1,53368266	0,01255	1,417157397	0,01722	AIM2	absent in melanoma 2

0,688247801	0,0341	0,63860688	0	AIMP1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1
0,71400199	0,01804	0,793333843	0,00066	AIMP2	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2
0,704660378	0,02038	0,778085177	0,0007	AIMP2	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2
0,772175133	0,03559	0,836826243	0,03489	AK3	adenylate kinase 3
0,646624466	0,00244	0,731028724	0,00019	AK4	adenylate kinase 4
0,592546385	0,03978	0,734075318	0,00131	AK4	adenylate kinase 4
0,516557194	0,00463	0,740719899	0,00039	AK4	adenylate kinase 4
0,746906729	0,0438	0,828744904	0,02961	AKAP1	A kinase (PRKA) anchor protein 1
2,015307521	0,0051	1,404444876	0,00886	AKAP12	A kinase (PRKA) anchor protein 12
1,879045498	0,00393	1,249196126	0,04193	AKAP12	A kinase (PRKA) anchor protein 12
1,264003098	0,02202	1,247465572	0,00657	AKIP1	A kinase (PRKA) interacting protein 1
1,638073396	0,00643	1,641483218	0,00001	AKNA	AT-hook transcription factor
1,702907415	0,01108	1,622254311	0,00001	AKR1B1	aldo-keto reductase family 1, member B1 (aldose reductase)
0,517273791	0,00296	0,709070018	0,01456	AKR1B10	aldo-keto reductase family 1, member B10 (aldose reductase)
1,184271612	0,02916	1,129747215	0,02012	AKR1E2	aldo-keto reductase family 1, member E2
1,426025717	0,03352	1,155886707	0,02589	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
0,562919293	0,0005	0,731028724	0,00034	ALAD	aminolevulinate dehydratase
1,360370852	0,02435	1,376495602	0,00035	ALAS2	aminolevulinate, delta-, synthase 2
1,22603486	0,04267	1,205807828	0,02627	ALDH1L2	aldehyde dehydrogenase 1 family, member L2
1,6724928	0,04899	1,684125907	0,00848	ALDH1L2	aldehyde dehydrogenase 1 family, member L2
0,590087172	0,0018	0,806082831	0,0133	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)
0,539614118	0,00035	0,712518807	0,00094	ALDH3A2	aldehyde dehydrogenase 3 family, member A2
0,588861395	0,0043	0,734075318	0,00063	ALDH3A2	aldehyde dehydrogenase 3 family, member A2
0,512989073	0,02076	0,614719434	0,00338	ALDH3B2	aldehyde dehydrogenase 3 family, member B2
0,462011286	0,00309	0,657015814	0,00005	ALDH3B2	aldehyde dehydrogenase 3 family, member B2
0,767373048	0,01705	0,772175133	0,00047	ALDH9A1	aldehyde dehydrogenase 9 family, member A1
1,244011653	0,03893	1,144724161	0,02407	ALG2	asparagine-linked glycosylation 2, alpha-1,3-mannosyltransferase homolog (S. cerevisiae)
0,755759964	0,03465	0,847332435	0,00455	ALKBH3	alkB, alkylation repair homolog 3 (E. coli)
0,34820287	0,00074	0,557096825	0,00407	ALOX12B	arachidonate 12-lipoxygenase, 12R type
1,736280455	0,04546	1,671333918	0,00092	ALOX15B	arachidonate 15-lipoxygenase, type B
2,039195366	0,01489	1,93053405	0,00003	ALOX15B	arachidonate 15-lipoxygenase, type B
1,295042999	0,00308	1,382232207	0,00024	ALOX5	arachidonate 5-lipoxygenase
2,559744828	0,00031	1,830198336	0,00017	ALOX5	arachidonate 5-lipoxygenase
1,649467097	0,00219	1,630144665	0,00003	ALOX5	arachidonate 5-lipoxygenase
0,493116352	0,00222	0,729004689	0,0348	ALOXE3	arachidonate lipoxygenase 3
1,64832417	0,02455	1,531557997	0,00701	ALPL	alkaline phosphatase, liver/bone/kidney
0,509445598	0,00289	0,741747467	0,00562	ALS2CL	ALS2 C-terminal like
0,85086373	0,02882	0,855002178	0,00468	ALS2CR8	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 8
0,535144349	0,00034	0,688247801	0,00415	AMACR	alpha-methylacyl-CoA racemase
0,756283999	0,0063	0,814507563	0,02454	AMD1	adenosylmethionine decarboxylase 1
1,375541818	0,01217	1,466116757	0,00183	AMICA1	adhesion molecule, interacts with CXADR antigen 1
0,491069798	0,00369	0,600818025	0,00013	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1
0,727994774	0,02241	0,811127156	0,00162	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1
0,657015814	0,00245	0,858565436	0,01012	AMOTL1	angiomotin like 1
0,683493726	0,00131	0,816768991	0,04666	AMOTL1	angiomotin like 1
2,70007597	0,00001	1,954771533	0,00002	AMPD1	adenosine monophosphate deaminase 1
1,244874235	0,02638	1,152686347	0,03743	AMPD2	adenosine monophosphate deaminase 2
0,683967652	0,0206	0,786217292	0,00588	AMPD3	adenosine monophosphate deaminase 3
0,743291492	0,01306	0,838568184	0,00716	ANAPC1	anaphase promoting complex subunit 1
1,365093718	0,00064	1,2397077	0,00029	ANGEL1	angel homolog 1 (Drosophila)
1,20664392	0,01636	1,163926534	0,00133	ANGEL1	angel homolog 1 (Drosophila)
1,840375301	0,02115	1,299539062	0,01198	ANGPT1	angiopoietin 1
1,25962998	0,0259	1,330529041	0,00048	ANGPTL6	angiopoietin-like 6
1,254402205	0,01518	1,267512522	0,01884	ANK1	ankyrin 1, erythrocytic
0,336808394	0,00091	0,505225723	0,00002	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
0,542238704	0,01888	0,61985385	0	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
0,564091069	0,00514	0,669891801	0,00051	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
0,628506687	0,00205	0,750539549	0,00858	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
0,678302164	0,00473	0,750539549	0,00454	ANKRD11	ankyrin repeat domain 11
0,44534645	0,00443	0,611320139	0,00003	ANKRD22	ankyrin repeat domain 22
0,581157054	0,03533	0,724471077	0,00002	ANKRD22	ankyrin repeat domain 22
1,304050735	0,00598	1,139973273	0,02826	ANKRD26P3	ankyrin repeat domain 26 pseudogene 3
0,575943821	0,04295	0,501735874	0,00001	ANKRD29	ankyrin repeat domain 29
0,56097174	0,01671	0,50557604	0,00002	ANKRD29	ankyrin repeat domain 29
0,376572617	0,00055	0,571173123	0,00033	ANKRD35	ankyrin repeat domain 35
2,87786716	0,00003	2,174976782	0,00031	ANKRD36BP2	ankyrin repeat domain 36B pseudogene 2
4,636383808	0,0003	4,25748073	0,00106	ANKRD36BP2	ankyrin repeat domain 36B pseudogene 2
1,221793102	0,00756	1,128182137	0,02204	ANKRD44	ankyrin repeat domain 44
0,763658749	0,01347	0,827596816	0,00353	ANKRD5	ankyrin repeat domain 5
0,529242197	0,01059	0,597495602	0,0001	ANKRD57	ankyrin repeat domain 57
0,503477775	0,00485	0,5	0	ANKRD6	ankyrin repeat domain 6
0,588861395	0,01126	0,652025368	0,00016	ANKRD6	ankyrin repeat domain 6
0,753667455	0,00628	0,78024548	0,00022	ANKS1A	ankyrin repeat and sterile alpha motif domain containing 1A
0,61301743	0,03874	0,796088099	0,04292	ANLN	anillin, actin binding protein
0,612168196	0,0016	0,704660378	0,00313	ANO1	anoctamin 1, calcium activated chloride channel
0,84264683	0,04921	0,76154437	0,00012	ANO10	anoctamin 10
1,237990291	0,01643	1,149494848	0,00683	ANO4	anoctamin 4
1,214194884	0,02668	1,217566019	0,00036	ANO7	anoctamin 7
0,786762445	0,03584	0,813943185	0,00399	ANO7L1	anoctamin 7-like 1
1,384149716	0,00556	1,248330549	0,0016	ANTXR1	anthrax toxin receptor 1
0,61985385	0,0034	0,790041312	0,00584	ANXA4	annexin A4
1,997229332	0,00398	2,02791896	0	ANXA6	annexin A6
0,682546859	0,0011	0,757333158	0,03218	ANXA7	annexin A7
1,486582984	0,00038	1,309485423	0,01881	AOC3	amine oxidase, copper containing 3 (vascular adhesion protein 1)
0,722966147	0,02324	0,777007269	0,00618	AP1AR	adaptor-related protein complex 1 associated regulatory protein
0,672217497	0,03503	0,626332219	0,0402	AP1S3	adaptor-related protein complex 1, sigma 3 subunit
1,2397077	0,00286	1,21335356	0,00069	AP3S2	adaptor-related protein complex 3, sigma 2 subunit
0,763129604	0,01313	0,782411782	0,00469	AP4S1	adaptor-related protein complex 4, sigma 1 subunit
1,472226862	0,004	1,155085785	0,01747	APBB1IP	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein
2,040609318	0,00016	1,821339667	0,00006	APBB1IP	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein
1,275444392	0,04997	1,174461971	0,01449	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2
0,66342257	0,03852	0,70759708	0,00958	APC	adenomatous polyposis coli
1,542210825	0,00032	1,427014506	0,00001	APH1B	anterior pharynx defective 1 homolog B (C. elegans)
1,32408891	0,04584	1,235418637	0,01294	APH1B	anterior pharynx defective 1 homolog B (C. elegans)
0,71548826	0,01431	0,739181216	0,00016	API5	apoptosis inhibitor 5
0,657927263	0,03579	0,680657058	0,00012	API5	apoptosis inhibitor 5
1,977941833	0,00152	1,938579634	0,00005	APLNR	apelin receptor
1,400556321	0,03549	1,248330549	0,00763	APOBEC3F	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F

2,076278541	0,00131	1,575707772	0,00139	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G
1,298638603	0,00594	1,175276328	0,00188	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G
1,609932275	0,0095	1,496922987	0,00089	APOC1	apolipoprotein C-I
1,707635429	0,04977	2,012515647	0	APOE	apolipoprotein E
1,938579634	0,00001	1,262252032	0,0003	APOL6	apolipoprotein L, 6
1,86735989	0,03178	1,943961976	0	APOL6	apolipoprotein L, 6
1,839100092	0,02631	1,506290467	0,00045	APOLD1	apolipoprotein L domain containing 1
0,610896551	0,01281	0,733566672	0,00637	APOOL	apolipoprotein O-like
0,799960128	0,03113	0,756808396	0,00175	APOOL	apolipoprotein O-like
1,546492675	0,00731	1,355664327	0,03037	APP	amyloid beta (A4) precursor protein
0,690158677	0,03813	0,684441907	0,00046	APPL1	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1
0,612592666	0,02216	0,735093668	0,02844	APPL2	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2
0,674551267	0,01183	0,847332435	0,0459	APRT	adenine phosphoribosyltransferase
0,792784137	0,0302	0,879649076	0,00603	AQP3	aquaporin 3 (Gill blood group)
1,719512972	0,00207	1,492778383	0,00073	AQP9	aquaporin 9
0,346277367	0,00882	0,552099424	0	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2
0,637722196	0,048	0,743291492	0,00012	ARF6	ADP-ribosylation factor 6
0,675018993	0,0348	0,756808396	0,00001	ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)
0,219607617	0,00685	0,595428425	0,04657	ARG1	arginase, liver
1,880348405	0,00015	1,605474777	0,0003	ARHGAP15	Rho GTPase activating protein 15
0,777007269	0,00768	0,824162085	0,01748	ARHGAP21	Rho GTPase activating protein 21
1,869950396	0,00005	1,659789171	0,00002	ARHGAP25	Rho GTPase activating protein 25
1,748357241	0,00003	1,466116757	0,00007	ARHGAP25	Rho GTPase activating protein 25
1,479387509	0,00208	1,2397077	0,00558	ARHGAP26	Rho GTPase activating protein 26
0,564091069	0,01719	0,791685866	0,04614	ARHGAP32	Rho GTPase activating protein 32
0,632439771	0,0321	0,7031966	0,01312	ARHGAP32	Rho GTPase activating protein 32
1,268391399	0,01089	1,136816973	0,02273	ARHGAP33	Rho GTPase activating protein 33
2,149498346	0,00006	1,830198336	0,00019	ARHGAP9	Rho GTPase activating protein 9
1,854461093	0,00001	1,555092072	0,0001	ARHGAP9	Rho GTPase activating protein 9
1,797510253	0,00537	1,805001455	0,00002	ARHGAP9	Rho GTPase activating protein 9
1,59549048	0,00011	1,581178233	0,00004	ARHGDIB	Rho GDP dissociation inhibitor (GDI) beta
0,773246337	0,03816	0,848507902	0,01511	ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like
0,816768991	0,02981	0,808881348	0,00245	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12
0,603740296	0,0066	0,802181166	0,02185	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12
1,76418273	0,00107	1,565908593	0,00046	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2
0,50382688	0,00045	0,710053679	0,00066	ARHGEF37	Rho guanine nucleotide exchange factor (GEF) 37
0,589269704	0,04457	0,79940583	0,02041	ARHGEF4	Rho guanine nucleotide exchange factor (GEF) 4
1,360370852	0,0037	1,354724977	0,00056	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40
1,481439798	0,0146	1,304954948	0,02313	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40
0,711038705	0,04405	0,62981499	0,00042	ARID2	AT rich interactive domain 2 (ARID, RFX-like)
1,453972517	0,00515	1,485552921	0,00001	ARID3A	AT rich interactive domain 3A (BRIGHT-like)
1,30224419	0,01704	1,244011653	0,00195	ARID4B	AT rich interactive domain 4B (RBP1-like)
1,280759861	0,04363	1,209994089	0,01622	ARID5A	AT rich interactive domain 5A (MRF1-like)
0,741233505	0,02135	0,825305409	0,00191	ARL4C	ADP-ribosylation factor-like 4C
0,628506687	0,04901	0,648419777	0,00058	ARL5A	ADP-ribosylation factor-like 5A
0,582770599	0,02826	0,716480825	0,00068	ARL5B	ADP-ribosylation factor-like 5B
0,644834125	0,02319	0,810003474	0,00587	ARL8B	ADP-ribosylation factor-like 8B
0,664803554	0,00635	0,786217292	0,02354	ARL8B	ADP-ribosylation factor-like 8B
0,61429349	0,00169	0,697371833	0,0003	ARL9	ADP-ribosylation factor-like 9
0,607939642	0,0268	0,785128119	0,00034	ARMC10	armadillo repeat containing 10
0,798298386	0,01499	0,829319546	0,02116	ARMC10	armadillo repeat containing 10
1,649467097	0,00786	1,414213562	0,00129	ARMCX3	armadillo repeat containing, X-linked 3
1,423063461	0,03206	1,368883813	0,00559	ARMCX3	armadillo repeat containing, X-linked 3
1,261377409	0,03347	1,128182137	0,02982	ARMCX4	armadillo repeat containing, X-linked 4
0,796640096	0,04521	0,806641759	0,00395	ARNT	aryl hydrocarbon receptor nuclear translocator
0,686818117	0,00779	0,777546036	0,03827	ARNTL2	aryl hydrocarbon receptor nuclear translocator-like 2
0,76684133	0,01141	0,867538687	0,01904	ARPC2	actin related protein 2/3 complex, subunit 2, 34kDa
0,819604608	0,049	0,829319546	0,00013	ARPC5L	actin related protein 2/3 complex, subunit 5-like
1,542210825	0,01082	1,506290467	0,00023	ARRB2	arrestin, beta 2
0,443498153	0,01386	0,627201102	0,00016	ARRDC4	arrestin domain containing 4
1,484523571	0,02875	1,557249382	0,00147	ARSA	arylsulfatase A
0,747942879	0,01929	0,827023368	0,01219	ARV1	ARV1 homolog (S. cerevisiae)
1,744725412	0,00195	1,394743666	0,00037	ARX	aristaless related homeobox
0,631563631	0,00014	0,771640088	0,01188	ASAP3	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3
0,742261785	0,02495	0,738157203	0,00269	ASCL2	achaete-scute complex homolog 2 (Drosophila)
0,791137301	0,00856	0,856781955	0,00444	ASH2L	ash2 (absent, small, or homeotic)-like (Drosophila)
0,673616788	0,01268	0,816203046	0,01244	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)
1,4054187	0,00111	1,298638603	0,00177	ASRGL1	asparaginase like 1
1,363202607	0,0032	1,343503426	0,00096	ASRGL1	asparaginase like 1
1,311302014	0,00696	1,162314108	0,02172	ASTN2	astrotactin 2
1,501079098	0,00973	1,145517898	0,0452	ASXL1	additional sex combs like 1 (Drosophila)
0,689202576	0,00657	0,653382627	0	ATAD2	ATPase family, AAA domain containing 2
1,417157397	0,02765	1,421092043	0,00152	ATF5	activating transcription factor 5
1,231144413	0,01056	1,148698355	0,0216	ATF7	activating transcription factor 7
1,343503426	0,02845	1,280759861	0,00064	ATF7	activating transcription factor 7
1,351910833	0,03321	1,256142381	0,00193	ATF7IP2	activating transcription factor 7 interacting protein 2
0,679714121	0,01514	0,790589117	0,00027	ATG3	ATG3 autophagy related 3 homolog (S. cerevisiae)
1,43097652	0,02603	1,442928687	0,00032	ATHL1	ATH1, acid trehalase-like 1 (yeast)
0,527045712	0,01765	0,67877249	0,01455	ATL2	atlastin GTPase 2
0,514056913	0,00329	0,659296807	0,00105	ATL2	atlastin GTPase 2
0,796088099	0,00735	0,852044095	0,01159	ATMIN	ATM interactor
0,541862983	0,00813	0,635515845	0	ATMIN	ATM interactor
0,546767729	0,00591	0,716480825	0,00049	ATP10B	ATPase, class V, type 10B
0,506277404	0,00555	0,623732786	0,00011	ATP10D	ATPase, class V, type 10D
0,574349177	0,02122	0,635956503	0,00067	ATP13A4	ATPase type 13A4
0,575943821	0,02944	0,788400174	0,00063	ATP1B3	ATPase, Na+/K+ transporting, beta 3 polypeptide
0,733566672	0,03306	0,76630998	0,00034	ATP2A2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
1,708819482	0,03081	1,42899414	0,00138	ATP2A3	ATPase, Ca++ transporting, ubiquitous
2,262628926	0,00207	2,130216407	0,00006	ATP2A3	ATPase, Ca++ transporting, ubiquitous
2,070529848	0,00247	1,89605393	0	ATP2A3	ATPase, Ca++ transporting, ubiquitous
1,673652485	0,00342	1,299539062	0,00327	ATP2A3	ATPase, Ca++ transporting, ubiquitous
0,792784137	0,02962	0,817902059	0,00101	ATP2C1	ATPase, Ca++ transporting, type 2C, member 1
0,671286251	0,03135	0,79774524	0,00299	ATP2C2	ATPase, Ca++ transporting, type 2C, member 2
0,73153561	0,03549	0,852044095	0,01828	ATP5F1	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1
0,53329289	0,04905	0,815072332	0,0014	ATP5H	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit d
0,775930854	0,03107	0,871154192	0,03083	ATP5I	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit E
0,636838738	0,04094	0,889458994	0,01319	ATP5O	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
0,786217292	0,04705	0,801069878	0,01791	ATP5S	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)

0,680185426	0,01924	0,641712949	0,00031	ATP5S	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)
0,242490478	0,00006	0,43587912	0,00027	ATP6V1C2	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2
0,501040803	0,00014	0,732042848	0,03417	ATP6V1C2	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2
0,607939642	0,01746	0,84264683	0,00924	ATP6V1H	ATPase, H+ transporting, lysosomal 50/57kDa, V1 subunit H
1,777685362	0,02127	1,470187336	0,00661	ATP8A1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1
1,226884977	0,03158	1,243149669	0,00166	ATP8A2	ATPase, aminophospholipid transporter, class I, type 8A, member 2
0,651573575	0,04826	0,816768991	0,01022	ATP8B1	ATPase, aminophospholipid transporter, class I, type 8B, member 1
0,685866644	0,00819	0,820741609	0,00622	ATP9A	ATPase, class II, type 9A
0,635956503	0,04051	0,712025098	0,03023	ATRX	alpha thalassemia/mental retardation syndrome X-linked
0,772175133	0,03054	0,852634892	0,00535	ATXN10	ataxin 10
0,560194607	0,00214	0,700763725	0,00001	ATXN3	ataxin 3
0,714992493	0,0099	0,793333843	0,00596	AZI2	5-azacytidine induced 2
0,713507253	0,00811	0,844400887	0,03221	B3GALNT2	beta-1,3-N-acetylgalactosaminyltransferase 2
0,631563631	0,00995	0,782954296	0,00003	B3GALNT2	beta-1,3-N-acetylgalactosaminyltransferase 2
0,61429349	0,04982	0,574747424	0,00001	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
1,446934886	0,0145	1,294145654	0,00002	B4GALT3	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3
1,377450046	0,00834	1,358486285	0,00113	B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
1,500038989	0,03691	1,375541818	0,00118	B9D1	B9 protein domain 1
0,674083866	0,04619	0,754190038	0,00173	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2
0,727490342	0,00443	0,793333843	0,00008	BAG3	BCL2-associated athanogene 3
0,539614118	0,00053	0,718470088	0,00001	BAG5	BCL2-associated athanogene 5
0,44813335	0,00028	0,517632462	0,00001	BAMBI	BMP and activin membrane-bound inhibitor homolog (Xenopus laevis)
2,246999806	0,00051	1,504203751	0,03044	BANK1	B-cell scaffold protein with ankyrin repeats 1
1,510472586	0,00083	1,368883813	0,00083	BASP1	brain abundant, membrane attached signal protein 1
1,439931319	0,00643	1,321338406	0,00048	BATF	basic leucine zipper transcription factor, ATF-like
1,252664439	0,03184	1,132883885	0,03508	BAZ2A	bromodomain adjacent to zinc finger domain, 2A
1,250062303	0,03564	1,180174343	0,01363	BBC3	BCL2 binding component 3
0,713507253	0,02809	0,740206649	0,01189	BBIP1	BBSome interacting protein 1
0,44813335	0,00403	0,638164384	0,00225	BBIP1	BBSome interacting protein 1
0,441657526	0,00144	0,553632292	0,00007	BBOX1	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1
0,6341957	0,00257	0,778085177	0,00262	BBS2	Bardet-Biedl syndrome 2
0,66158572	0,00843	0,71400199	0,00002	BCAS2	breast carcinoma amplified sequence 2
1,286989247	0,02049	1,210833084	0,00618	BCAT1	branched chain amino-acid transaminase 1, cytosolic
2,228387302	0,03303	1,526259209	0,00991	BCAT1	branched chain amino-acid transaminase 1, cytosolic
0,700763725	0,00936	0,706616822	0	BCCIP	BRCA2 and CDKN1A interacting protein
0,488692883	0,00195	0,677362489	0,00027	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)
1,542210825	0,04076	1,223488041	0,02901	BCL2	B-cell CLL/lymphoma 2
0,536630143	0,0081	0,635956503	0,00016	BCL2L10	BCL2-like 10 (apoptosis facilitator)
2,582914701	0,00159	1,864772973	0	BCL2L11	BCL2-like 11 (apoptosis facilitator)
1,305859787	0,00591	1,154285418	0,02679	BCL2L11	BCL2-like 11 (apoptosis facilitator)
0,663882579	0,00759	0,857376037	0,00846	BCL2L13	BCL2-like 13 (apoptosis facilitator)
1,411275843	0,00648	1,196648963	0,01149	BCL2L14	BCL2-like 14 (apoptosis facilitator)
0,602068691	0,0048	0,721964598	0,00047	BCL2L2	BCL2-like 2
0,697371833	0,04005	0,803293997	0,00261	BCLAF1	BCL2-associated transcription factor 1
0,628942486	0,01224	0,786762445	0,01	BCLAF1	BCL2-associated transcription factor 1
0,586011142	0,00439	0,828170661	0,041	BDH1	3-hydroxybutyrate dehydrogenase, type 1
0,739181216	0,02479	0,847919965	0,01445	BDKRB1	bradykinin receptor B1
0,587230986	0,01031	0,737134609	0,00007	BDKRB2	bradykinin receptor B2
0,433769344	0,00001	0,646624466	0,00056	BDNF	brain-derived neurotrophic factor
0,557869661	0,00208	0,685391402	0,00001	BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB
1,336074078	0,02512	1,217566019	0,01665	BET1L	blocked early in transport 1 homolog (S. cerevisiae)-like
1,368883813	0,01201	1,123499903	0,03224	BFSP2	beaded filament structural protein 2, phakinin
1,997229332	0,00921	1,880348405	0,00062	BHLHE41	basic helix-loop-helix family, member e41
1,256142381	0,00905	1,170398641	0,01165	BICD1	bicaudal D homolog 1 (Drosophila)
0,403600537	0,00235	0,631126016	0,00915	BICD2	bicaudal D homolog 2 (Drosophila)
0,510860041	0,00261	0,692554734	0,0001	BICD2	bicaudal D homolog 2 (Drosophila)
1,969732886	0,00037	1,830198336	0,00001	BIN2	bridging integrator 2
1,32408891	0,01956	1,285206337	0,00986	BIRC3	baculoviral IAP repeat containing 3
0,646624466	0,00619	0,801625329	0,03321	BIVM	basic, immunoglobulin-like variable motif containing
1,362258035	0,00973	1,189207115	0,01496	BLK	B lymphoid tyrosine kinase
1,404444876	0,00247	1,331451613	0,00031	BLM	Bloom syndrome, RecQ helicase-like
0,553632292	0,00093	0,664803554	0,00003	BLOC1S2	biogenesis of lysosomal organelles complex-1, subunit 2
0,620713746	0,01686	0,74277646	0,0096	BLVRA	biliverdin reductase A
0,802181166	0,02327	0,859756486	0,00432	BLVRA	biliverdin reductase A
0,768437591	0,00879	0,847332435	0,00233	BLVRA	biliverdin reductase A
0,735093668	0,04452	0,69640574	0,00042	BLZF1	basic leucine zipper nuclear factor 1
1,486582984	0,00131	1,640345822	0,00001	BMF	Bcl2 modifying factor
2,414961183	0	1,834008086	0,00007	BMP6	bone morphogenetic protein 6
1,311302014	0,01922	1,104964485	0,04504	BMP8A	bone morphogenetic protein 8a
1,257013375	0,04283	1,185092771	0,00311	BMP8B	bone morphogenetic protein 8b
0,571569168	0,01567	0,688725023	0,00552	BMPR1B	bone morphogenetic protein receptor, type IB
0,698339266	0,01646	0,830470024	0,03513	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase)
1,318593614	0,01467	1,183451022	0,00621	BMX	BMX non-receptor tyrosine kinase
0,497924877	0,00613	0,520871715	0,00008	BNC1	basonuclin 1
0,452816992	0,00722	0,648419777	0,00869	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3
0,583174685	0,00173	0,798851916	0,03396	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like
0,391205891	0,00336	0,599569957	0,01053	BNIPL	BCL2/adenovirus E1B 19kD interacting protein like
0,325561047	0,00002	0,547905883	0,00004	BNIPL	BCL2/adenovirus E1B 19kD interacting protein like
0,509445598	0,00093	0,528142813	0,00001	BPGM	2,3-bisphosphoglycerate mutase
0,259175275	0,00001	0,445655248	0,00035	BPIFC	BPI fold containing family C
0,69495911	0,03981	0,837987135	0,00152	BPTF	bromodomain PHD finger transcription factor
0,821310701	0,02486	0,886381699	0,03959	BRAF	v-raf murine sarcoma viral oncogene homolog B1
0,471719125	0,04095	0,678302164	0,01469	BRCC3	BRCA1/BRCA2-containing complex, subunit 3
0,590905773	0,00525	0,745872013	0,00024	BRCC3	BRCA1/BRCA2-containing complex, subunit 3
0,645728675	0,00765	0,771105413	0,00043	BRCC3	BRCA1/BRCA2-containing complex, subunit 3
0,697855382	0,0417	0,704172113	0,00208	BRCC3	BRCA1/BRCA2-containing complex, subunit 3
0,748980467	0,00876	0,758383773	0,00208	BRD1	bromodomain containing 1
0,782411782	0,04375	0,813379198	0,00863	BRD1	bromodomain containing 1
0,571569168	0,01785	0,828744904	0,00135	BRD7	bromodomain containing 7
0,685866644	0,02591	0,738157203	0,00012	BROX	BRO1 domain and CAAX motif containing
0,755759964	0,04081	0,763658749	0,03222	BRWD1	bromodomain and WD repeat domain containing 1
0,50382688	0,00006	0,622005827	0	BSPRY	B-box and SPRY domain containing
0,495171436	0,00224	0,621144141	0,00011	BSPRY	B-box and SPRY domain containing
0,613442489	0,02223	0,748461493	0,00164	BTBD11	BTB (POZ) domain containing 11
0,741747467	0,00075	0,813379198	0,00083	BTBD6	BTB (POZ) domain containing 6
0,615145672	0,01805	0,791685866	0,00073	BTF3	basic transcription factor 3
0,583174685	0,00801	0,793883931	0,00049	BTF3	basic transcription factor 3
0,720964436	0,04681	0,755236293	0,00015	BTF3	basic transcription factor 3

0,682073917	0,00462	0,812815602	0,00028	BTF3	basic transcription factor 3
0,705637922	0,01121	0,717474767	0,00095	BTF3L4	basic transcription factor 3-like 4
1,987562187	0,02552	1,762960316	0,00016	BTG2	BTG family, member 2
3,099423724	0	2,165950091	0	BTG2	BTG family, member 2
0,603740296	0,00215	0,719965659	0,00312	BTG3	BTG family, member 3
0,59295725	0,00066	0,738157203	0,00492	BTG3	BTG family, member 3
0,565265284	0,00118	0,688725023	0,0002	BTG3	BTG family, member 3
1,649467097	0,00005	1,583371732	0,00004	BTK	Bruton agammaglobulinemia tyrosine kinase
1,379360922	0,02079	1,21335356	0,00186	BTN2A2	butyrophilin, subfamily 2, member A2
1,400556321	0,03731	1,340712592	0,00107	BTN3A1	butyrophilin, subfamily 3, member A1
1,446934886	0,01068	1,464085696	0,00006	BTN3A3	butyrophilin, subfamily 3, member A3
0,655196702	0,01724	0,799960128	0,00014	BTRC	beta-transducin repeat containing
0,70027816	0,02645	0,803850991	0,00566	BZW1	basic leucine zipper and W2 domains 1
0,751580739	0,01705	0,829319546	0,00098	BZW2	basic leucine zipper and W2 domains 2
1,368883813	0,01128	1,56049096	0,00019	C10orf10	chromosome 10 open reading frame 10
1,721898377	0,00354	1,775222675	0,00001	C10orf10	chromosome 10 open reading frame 10
0,478304079	0,04487	0,549427109	0,00076	C10orf118	chromosome 10 open reading frame 118
1,509425969	0,00069	1,52308874	0,00003	C10orf128	chromosome 10 open reading frame 128
1,356604327	0,04195	1,237132479	0,02159	C10orf25	chromosome 10 open reading frame 25
0,830470024	0,03727	0,892546971	0,01183	C10orf28	chromosome 10 open reading frame 28
0,624165274	0,00663	0,823591017	0,00029	C10orf46	chromosome 10 open reading frame 46
0,5090926	0,00048	0,666187413	0,00104	C10orf57	chromosome 10 open reading frame 57
0,646624466	0,00168	0,77916458	0,01155	C10orf57	chromosome 10 open reading frame 57
0,401090583	0,01044	0,834509281	0,02353	C10orf58	chromosome 10 open reading frame 58
0,53329289	0,00859	0,726482525	0,00026	C10orf58	chromosome 10 open reading frame 58
0,718968266	0,00122	0,819036698	0,013	C10orf58	chromosome 10 open reading frame 58
1,367935304	0,01666	1,202469249	0,00398	C10orf68	chromosome 10 open reading frame 68
0,26999414	0,00489	0,638164384	0,005	C10orf99	chromosome 10 open reading frame 99
0,364755086	0,00052	0,554400322	0,00005	C10orf99	chromosome 10 open reading frame 99
1,577893682	0,01515	1,158292806	0,02779	C11orf21	chromosome 11 open reading frame 21
1,326845141	0,01717	1,246601194	0,0104	C11orf24	chromosome 11 open reading frame 24
0,442576882	0,00001	0,783497187	0,00712	C11orf45	chromosome 11 open reading frame 45
0,78024548	0,01885	0,87417862	0,02058	C11orf67	chromosome 11 open reading frame 67
0,796640096	0,02287	0,840313752	0,00726	C11orf83	chromosome 11 open reading frame 83
1,20163605	0,01319	1,220946513	0,00245	C11orf84	chromosome 11 open reading frame 84
1,29056249	0,02209	1,349102534	0,00004	C11orf9	chromosome 11 open reading frame 9
0,710053679	0,04367	0,732042848	0,00098	C12orf11	chromosome 12 open reading frame 11
1,548638056	0,04558	1,388955136	0,00881	C12orf23	chromosome 12 open reading frame 23
0,480963727	0,0189	0,544498508	0	C12orf29	chromosome 12 open reading frame 29
0,600818025	0,00639	0,634635443	0,00687	C12orf29	chromosome 12 open reading frame 29
1,307671349	0,0388	1,226884977	0,00077	C12orf45	chromosome 12 open reading frame 45
1,304954948	0,00269	1,130530567	0,02616	C12orf55	chromosome 12 open reading frame 55
1,232852325	0,02807	1,17772279	0,01533	C12orf59	chromosome 12 open reading frame 59
1,597703833	0,02216	1,433955248	0,01367	C13orf15	chromosome 13 open reading frame 15
0,661127303	0,02081	0,842062954	0,00103	C14orf166	chromosome 14 open reading frame 166
1,244874235	0,02794	1,164733586	0,03555	C14orf176	chromosome 14 open reading frame 176
0,62676651	0,00698	0,690637224	0,00018	C15orf29	chromosome 15 open reading frame 29
1,481439798	0,00335	1,23370717	0,01822	C15orf39	chromosome 15 open reading frame 39
1,458009379	0,00308	1,245737416	0,01442	C15orf39	chromosome 15 open reading frame 39
0,628071191	0,00793	0,701735863	0	C15orf41	chromosome 15 open reading frame 41
0,51584159	0,00017	0,759962428	0,00868	C15orf52	chromosome 15 open reading frame 52
1,581178233	0,00032	1,370782805	0,00335	C15orf57	chromosome 15 open reading frame 57
1,279872414	0,01289	1,147902414	0,03616	C16orf13	chromosome 16 open reading frame 13
3,877159268	0,00003	2,127265346	0,00178	C16orf54	chromosome 16 open reading frame 54
1,353786279	0,00683	1,226884977	0,01412	C16orf58	chromosome 16 open reading frame 58
0,730522189	0,00088	0,876605721	0,0423	C16orf70	chromosome 16 open reading frame 70
1,421092043	0,01636	1,28877463	0,00068	C16orf72	chromosome 16 open reading frame 72
0,695923196	0,0232	0,846745312	0,02413	C16orf80	chromosome 16 open reading frame 80
1,314031627	0,02981	1,351910833	0,00105	C16orf93	chromosome 16 open reading frame 93
0,685391402	0,00026	0,747424624	0,00666	C17orf109	chromosome 17 open reading frame 109
1,601029621	0,00436	1,476314406	0,00112	C17orf28	chromosome 17 open reading frame 28
0,624165274	0,01187	0,635956503	0	C17orf39	chromosome 17 open reading frame 39
1,295042999	0,01196	1,150291893	0,02035	C17orf51	chromosome 17 open reading frame 51
1,447938172	0,00737	1,417157397	0,00076	C17orf62	chromosome 17 open reading frame 62
1,264003098	0,02772	1,161508732	0,01068	C18orf1	chromosome 18 open reading frame 1
0,76418826	0,03228	0,756283999	0,00195	C18orf10	chromosome 18 open reading frame 10
0,816768991	0,01982	0,788946841	0,00029	C18orf10	chromosome 18 open reading frame 10
1,71356391	0,01798	1,607701981	0,00001	C19orf10	chromosome 19 open reading frame 10
1,267512522	0,03037	1,384149716	0,00008	C19orf23	chromosome 19 open reading frame 23
0,551334582	0,0002	0,720964436	0,00481	C19orf33	chromosome 19 open reading frame 33
1,370782805	0,01363	1,180174343	0,00818	C1GALT1C1	C1GALT1-specific chaperone 1
1,447938172	0,02832	1,242288282	0,01776	C1orf105	chromosome 1 open reading frame 105
0,665264521	0,01384	0,835087919	0,0016	C1orf106	chromosome 1 open reading frame 106
1,817556233	0,00043	1,527317498	0,00061	C1orf115	chromosome 1 open reading frame 115
0,563700206	0,0056	0,680185426	0,00001	C1orf116	chromosome 1 open reading frame 116
0,730016005	0,02186	0,807201075	0,03127	C1orf116	chromosome 1 open reading frame 116
0,664342907	0,02716	0,716480825	0,00051	C1orf131	chromosome 1 open reading frame 131
0,749499801	0,00963	0,877821798	0,01191	C1orf151	chromosome 1 open reading frame 151
1,431968741	0,01804	1,441928871	0,00193	C1orf162	chromosome 1 open reading frame 162
0,718470088	0,00278	0,823591017	0,0037	C1orf172	chromosome 1 open reading frame 172
0,667574152	0,01086	0,767373048	0,00107	C1orf21	chromosome 1 open reading frame 21
0,70514898	0,02115	0,775393206	0,02316	C1orf210	chromosome 1 open reading frame 210
0,784584098	0,04179	0,784040454	0,00529	C1orf27	chromosome 1 open reading frame 27
0,821880187	0,03309	0,780786493	0,00014	C1orf31	chromosome 1 open reading frame 31
2,170458744	0,00181	2,331082396	0	C1orf38	chromosome 1 open reading frame 38
2,295804828	0,00278	2,505328877	0	C1orf38	chromosome 1 open reading frame 38
0,672217497	0,00157	0,768437591	0,00329	C1orf43	chromosome 1 open reading frame 43
0,667111585	0,00111	0,750019495	0,00033	C1orf52	chromosome 1 open reading frame 52
1,361314116	0,00744	1,269270886	0,00569	C1orf54	chromosome 1 open reading frame 54
1,281647924	0,00894	1,2397077	0,00257	C1orf61	chromosome 1 open reading frame 61
1,333298677	0,01292	1,280759861	0,00054	C1orf94	chromosome 1 open reading frame 94
0,844400887	0,0397	0,742261785	0,00034	C1QBP	complement component 1, q subcomponent binding protein
1,905275996	0,00055	1,70054832	0,00023	C1QC	complement component 1, q subcomponent, C chain
1,313121125	0,04396	1,309485423	0,00362	C1QTNF1	C1q and tumor necrosis factor related protein 1
1,378405153	0,02578	1,284315809	0,00249	C20orf103	chromosome 20 open reading frame 103
0,65747138	0,00026	0,728499557	0,00477	C20orf11	chromosome 20 open reading frame 11
0,794985251	0,04318	0,790041312	0,00041	C20orf11	chromosome 20 open reading frame 11
1,59549048	0,00058	1,372684431	0,00196	C20orf112	chromosome 20 open reading frame 112

1,422077411	0,0024	1,307671349	0,00441	C20orf160	chromosome 20 open reading frame 160
1,301341855	0,01968	1,17772279	0,01839	C20orf30	chromosome 20 open reading frame 30
0,806641759	0,02314	0,872362706	0,01817	C20orf7	chromosome 20 open reading frame 7
0,597495602	0,00558	0,807201075	0,00711	C20orf72	chromosome 20 open reading frame 72
0,69495911	0,03292	0,752623374	0,00153	C20orf94	chromosome 20 open reading frame 94
1,917198877	0,0101	2,139094176	0	C21orf96	chromosome 21 open reading frame 96
0,730522189	0,00424	0,819604608	0,00037	C22orf28	chromosome 22 open reading frame 28
1,247465572	0,04352	1,204137381	0,01483	C22orf37	chromosome 22 open reading frame 37
1,204972315	0,02584	1,300440147	0,00064	C22orf40	chromosome 22 open reading frame 40
1,293248932	0,01279	1,147107024	0,00896	C22orf46	chromosome 22 open reading frame 46
1,189207115	0,0373	1,159899655	0,02272	C2orf19	chromosome 2 open reading frame 19
0,755236293	0,04229	0,863938187	0,03703	C2orf49	chromosome 2 open reading frame 49
0,576343173	0,00357	0,704172113	0,00035	C2orf55	chromosome 2 open reading frame 55
0,737645729	0,02986	0,883927531	0,03795	C2orf68	chromosome 2 open reading frame 68
1,52414483	0,00129	1,478362431	0,00016	C2orf88	chromosome 2 open reading frame 88
1,581178233	0,00187	1,186736798	0,02823	C2orf88	chromosome 2 open reading frame 88
1,225185332	0,02515	1,186736798	0,00592	C2orf89	chromosome 2 open reading frame 89
2,07915887	0,00243	2,105262309	0	C3	complement component 3
1,423063461	0,00531	1,270150983	0,00393	C3AR1	complement component 3a receptor 1
0,56097174	0,00091	0,557869661	0,00001	C3orf14	chromosome 3 open reading frame 14
0,70759708	0,01541	0,806082831	0,00018	C3orf19	chromosome 3 open reading frame 19
0,651122095	0,00331	0,691595315	0,00103	C3orf23	chromosome 3 open reading frame 23
1,276328769	0,02265	1,271031689	0,00416	C3orf45	chromosome 3 open reading frame 45
1,650610817	0,03881	1,366040257	0,03695	C3orf70	chromosome 3 open reading frame 70
0,545253866	0,01283	0,755236293	0,03114	C4orf3	chromosome 4 open reading frame 3
0,679243142	0,02847	0,754712984	0,03218	C4orf34	chromosome 4 open reading frame 34
1,230291345	0,02641	1,155886707	0,00159	C4orf39	chromosome 4 open reading frame 39
1,356604327	0,0024	1,235418637	0,00381	C4orf42	chromosome 4 open reading frame 42
1,742308384	0,00058	1,684125907	0	C4orf48	chromosome 4 open reading frame 48
1,972465409	0,00037	1,929196369	0,00006	C5AR1	complement component 5a receptor 1
0,534773544	0,04046	0,61301743	0,00206	C5orf24	chromosome 5 open reading frame 24
0,655196702	0,0375	0,76630998	0,0028	C5orf28	chromosome 5 open reading frame 28
1,510472586	0,01377	1,526259209	0,00007	C5orf4	chromosome 5 open reading frame 4
1,356604327	0,00871	1,237990291	0,006	C5orf4	chromosome 5 open reading frame 4
1,53049677	0,00369	1,182631	0,00911	C5orf56	chromosome 5 open reading frame 56
1,503161478	0,00058	1,481439798	0,00003	C5orf56	chromosome 5 open reading frame 56
1,295042999	0,02477	1,278099363	0,0002	C5orf56	chromosome 5 open reading frame 56
0,594603558	0,00231	0,862741345	0,0211	C6orf1	chromosome 6 open reading frame 1
0,6341957	0,00704	0,625031151	0,00003	C6orf124	chromosome 6 open reading frame 124
0,356012549	0,00007	0,480297432	0,00014	C6orf132	chromosome 6 open reading frame 132
0,636397468	0,00338	0,738669032	0,0018	C6orf141	chromosome 6 open reading frame 141
0,685866644	0,00166	0,829894586	0,04734	C6orf170	chromosome 6 open reading frame 170
0,647521499	0,00757	0,754190038	0,00045	C6orf203	chromosome 6 open reading frame 203
1,986184991	0,00729	1,295042999	0,01202	C6orf204	chromosome 6 open reading frame 204
0,615145672	0,00329	0,821880187	0,03457	C7orf41	chromosome 7 open reading frame 41
1,219255094	0,01573	1,186736798	0,00592	C7orf43	chromosome 7 open reading frame 43
0,790589117	0,03102	0,882702996	0,00657	C7orf44	chromosome 7 open reading frame 44
1,504203751	0,00755	1,292352831	0,00019	C7orf54	chromosome 7 open reading frame 54
0,718470088	0,04701	0,789493887	0,00037	C7orf64	chromosome 7 open reading frame 64
1,754427097	0,00014	1,375541818	0,0007	C7orf74	chromosome 7 open reading frame 74
1,839100092	0,0161	1,388955136	0,01213	C8orf4	chromosome 8 open reading frame 4
0,791137301	0,02382	0,770571108	0,00188	C8orf40	chromosome 8 open reading frame 40
0,697371833	0,01102	0,762600827	0,00002	C9orf125	chromosome 9 open reading frame 125
0,722465199	0,00073	0,717474767	0,00016	C9orf125	chromosome 9 open reading frame 125
1,463071221	0,00283	1,43097652	0,00595	C9orf150	chromosome 9 open reading frame 150
0,70514898	0,00364	0,727994774	0,0101	C9orf169	chromosome 9 open reading frame 169
0,554400322	0,00006	0,757858283	0,00162	C9orf3	chromosome 9 open reading frame 3
0,554400322	0,0003	0,673616788	0,00001	C9orf3	chromosome 9 open reading frame 3
0,709561678	0,01921	0,790589117	0,00831	C9orf85	chromosome 9 open reading frame 85
0,729510172	0,00796	0,847919965	0,03685	C9orf9	chromosome 9 open reading frame 9
0,806641759	0,01518	0,842062954	0,00507	C9orf9	chromosome 9 open reading frame 9
0,514056913	0,00105	0,697855382	0,00021	CA12	carbonic anhydrase XII
0,454074209	0,00525	0,625031151	0,00014	CA12	carbonic anhydrase XII
0,455966583	0,00768	0,686818117	0,00213	CA12	carbonic anhydrase XII
0,536630143	0,00101	0,682546859	0,00008	CA12	carbonic anhydrase XII
0,541862983	0,00083	0,692554734	0,00014	CA12	carbonic anhydrase XII
0,534773544	0,02391	0,721964598	0,00029	CA5BP1	carbonic anhydrase VB pseudogene 1
0,716480825	0,04867	0,837987135	0,00464	CAB39	calcium binding protein 39
1,294145654	0,01645	1,256142381	0,00078	CABP4	calcium binding protein 4
1,215879283	0,04423	1,325007017	0,00002	CABP4	calcium binding protein 4
1,353786279	0,01083	1,187559666	0,0113	CACNA2D4	calcium channel, voltage-dependent, alpha 2/delta subunit 4
0,731028724	0,01499	0,682546859	0,00002	CACYBP	calcyclin binding protein
1,194991205	0,0306	1,25353302	0,00035	CADM3	cell adhesion molecule 3
1,630144665	0,02635	1,285206337	0,01316	CADPS2	Ca++-dependent secretion activator 2
1,308578071	0,0181	1,265756594	0,0029	CALB2	calbindin 2
0,805524291	0,04409	0,840896415	0,00281	CALCOCO2	calcium binding and coiled-coil domain 2
1,365093718	0,01904	1,349102534	0,00114	CALHM2	calcium homeostasis modulator 2
1,337000495	0,02161	1,298638603	0,00234	CALHM2	calcium homeostasis modulator 2
0,661127303	0,03572	0,794985251	0,00282	CALM1	calmodulin 1 (phosphorylase kinase, delta)
0,240315232	0,00206	0,582770599	0,01937	CALML5	calmodulin-like 5
0,622868708	0,01407	0,840313752	0,03592	CALR	calreticulin
0,585605091	0,02757	0,599569957	0,00002	CAMK1D	calcium/calmodulin-dependent protein kinase ID
0,731028724	0,00581	0,880259014	0,02633	CAMKK1	calcium/calmodulin-dependent protein kinase kinase 1, alpha
0,697855382	0,04671	0,738669032	0,00095	CAMSAP1	calmodulin regulated spectrin-associated protein 1
0,677362489	0,02075	0,697371833	0,00235	CAMSAP1	calmodulin regulated spectrin-associated protein 1
0,637280314	0,00284	0,763129604	0,00016	CAMSAP1	calmodulin regulated spectrin-associated protein 1
0,553248677	0,00089	0,630251696	0,00001	CAMSAP1	calmodulin regulated spectrin-associated protein 1
0,585605091	0,04481	0,6341957	0,00424	CAMSAP2	calmodulin regulated spectrin-associated protein family, member 2
0,691595315	0,02119	0,819604608	0,01518	CAND1	cullin-associated and neddylation-dissociated 1
1,53368266	0,00155	1,178539408	0,03313	CAPN5	calpain 5
0,341273429	0,00002	0,581963267	0,00004	CAPNS2	calpain, small subunit 2
0,771105413	0,04443	0,840313752	0,0095	CAPRIN1	cell cycle associated protein 1
0,718470088	0,00559	0,70759708	0,00014	CARD10	caspase recruitment domain family, member 10
0,785672517	0,02547	0,839731493	0,01074	CARD14	caspase recruitment domain family, member 14
1,89736863	0,0101	1,592176198	0,00012	CARD8	caspase recruitment domain family, member 8
1,630144665	0,00283	1,275444392	0,00145	CARD8	caspase recruitment domain family, member 8
1,387030969	0,00554	1,167158102	0,00786	CARD8	caspase recruitment domain family, member 8
1,858321349	0,00035	1,729074463	0	CASP10	caspase 10, apoptosis-related cysteine peptidase

1,29056249	0,03199	1,355664327	0,00089	CASP10	caspase 10, apoptosis-related cysteine peptidase
1,545421099	0,01039	1,17772279	0,0187	CASP3	caspase 3, apoptosis-related cysteine peptidase
0,663882579	0,01498	0,806082831	0,01185	CASP4	caspase 4, apoptosis-related cysteine peptidase
0,682073917	0,01487	0,844400887	0,00575	CAST	calpastatin
0,547905883	0,04928	0,863938187	0,02878	CAST	calpastatin
0,673150035	0,03253	0,727994774	0,00253	CAST	calpastatin
0,500346694	0,01126	0,540362701	0,00071	CASZ1	castor zinc finger 1
0,597081594	0,01156	0,694477568	0,00491	CAV2	caveolin 2
1,563739286	0,01292	1,445932295	0,00007	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3
0,673150035	0,0137	0,723969086	0,00071	CBLL1	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1
1,303147149	0,04053	1,151887642	0,04864	CBLN3	cerebellin 3 precursor
0,469435874	0,00027	0,607939642	0,00001	CBR3	carbonyl reductase 3
0,60667678	0,00813	0,756808396	0,00051	CBX1	chromobox homolog 1
0,750539549	0,00933	0,717972255	0,00007	CBX5	chromobox homolog 5
1,4054187	0,03639	1,346300069	0,00133	CBX7	chromobox homolog 7
0,776468875	0,02718	0,708087719	0	CCDC120	coiled-coil domain containing 120
0,714992493	0,00068	0,885153765	0,01616	CCDC150	coiled-coil domain containing 150
1,841651394	0,00003	1,376495602	0,0006	CCDC163P	coiled-coil domain containing 163, pseudogene
0,553248677	0,0093	0,628071191	0,00055	CCDC165	coiled-coil domain containing 165
1,261377409	0,01827	1,125058485	0,03597	CCDC17	coiled-coil domain containing 17
1,244011653	0,02768	1,175276328	0,00263	CCDC40	coiled-coil domain containing 40
0,636397468	0,0449	0,746906729	0,00793	CCDC47	coiled-coil domain containing 47
0,608361179	0,02771	0,848507902	0,00212	CCDC53	coiled-coil domain containing 53
1,221793102	0,03844	1,159095952	0,00564	CCDC57	coiled-coil domain containing 57
0,733058379	0,01535	0,730016005	0,00073	CCDC58	coiled-coil domain containing 58
0,759962428	0,03458	0,798851916	0,00025	CCDC59	coiled-coil domain containing 59
0,718968266	0,0476	0,860949188	0,0173	CCDC6	coiled-coil domain containing 6
0,658383461	0,02946	0,838568184	0,04886	CCDC64B	coiled-coil domain containing 64B
2,0139111	0,02137	1,770307529	0,00003	CCDC69	coiled-coil domain containing 69
2,005552872	0,00001	1,558329159	0,00084	CCDC69	coiled-coil domain containing 69
0,777546036	0,01378	0,808320869	0,00066	CCDC72	coiled-coil domain containing 72
0,593368399	0,03358	0,743806881	0,00003	CCDC85C	coiled-coil domain containing 85C
1,684125907	0,00448	1,371733289	0,0105	CCDC88A	coiled-coil domain containing 88A
1,250062303	0,0119	1,387992719	0,00028	CCDC88A	coiled-coil domain containing 88A
1,378405153	0,00946	1,17609125	0,01136	CCDC88A	coiled-coil domain containing 88A
0,666649339	0,00187	0,723969086	0,00003	CCDC90A	coiled-coil domain containing 90A
0,5913155	0,01727	0,596667872	0,00104	CCDC90A	coiled-coil domain containing 90A
1,337000495	0,00596	1,175276328	0,01482	CCL13	chemokine (C-C motif) ligand 13
2,099433367	0,00006	2,403272099	0,00002	CCL18	chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)
2,050534476	0	2,234574276	0,0002	CCL18	chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)
1,32317144	0,02841	1,285206337	0,00401	CCL22	chemokine (C-C motif) ligand 22
1,187559666	0,04931	1,171210181	0,00431	CCL23	chemokine (C-C motif) ligand 23
1,203303026	0,02571	1,181811547	0,01955	CCL25	chemokine (C-C motif) ligand 25
1,591072968	0,00084	1,244874235	0,04982	CCL4	chemokine (C-C motif) ligand 4
2,273633946	0,00219	1,522033381	0,01481	CCL5	chemokine (C-C motif) ligand 5
1,776453592	0,00631	1,500038989	0,00103	CCL5	chemokine (C-C motif) ligand 5
1,778917987	0,00456	1,423063461	0,03138	CCL5	chemokine (C-C motif) ligand 5
1,624504793	0,00522	1,407368375	0,00016	CCM2	cerebral cavernous malformation 2
0,807760778	0,04099	0,875998315	0,02207	CCNB2	cyclin B2
0,627635996	0,02797	0,652477474	0,0001	CCND1	cyclin D1
0,598324482	0,00683	0,557869661	0,00022	CCNT2	cyclin T2
1,747145792	0,00265	1,582274602	0,00067	CCPG1	cell cycle progression 1
1,831467373	0,00273	1,474269217	0,01494	CCPG1	cell cycle progression 1
1,925188886	0,00139	1,55293775	0,00008	CCR1	chemokine (C-C motif) receptor 1
1,512567997	0,00081	1,487613762	0,00142	CCR1	chemokine (C-C motif) receptor 1
1,52414483	0,00852	1,270150983	0,01009	CCR10	chemokine (C-C motif) receptor 10
1,879045498	0,00015	1,460032011	0,00339	CCR2	chemokine (C-C motif) receptor 2
2,011121161	0,00012	1,477338064	0,01905	CCR7	chemokine (C-C motif) receptor 7
1,391846392	0,00191	1,172834949	0,0082	CCRL2	chemokine (C-C motif) receptor-like 2
0,734075318	0,00953	0,736113431	0,00017	CCT2	chaperonin containing TCP1, subunit 2 (beta)
0,767373048	0,01318	0,879649076	0,00938	CCT4	chaperonin containing TCP1, subunit 4 (delta)
0,607939642	0,02006	0,672217497	0	CCT6A	chaperonin containing TCP1, subunit 6A (zeta 1)
0,664803554	0,00808	0,777546036	0,00006	CCT6A	chaperonin containing TCP1, subunit 6A (zeta 1)
0,758383773	0,00275	0,807760778	0,0031	CCT6B	chaperonin containing TCP1, subunit 6B (zeta 2)
0,689202576	0,04549	0,892546971	0,01504	CCT8	chaperonin containing TCP1, subunit 8 (theta)
1,983433461	0,0023	1,686462221	0,00212	CD163	CD163 molecule
2,196185628	0,00047	1,542210825	0,00588	CD163	CD163 molecule
1,681792831	0,00179	1,854461093	0,00001	CD180	CD180 molecule
2,208397694	0,00013	2,223758315	0	CD19	CD19 molecule
0,5913155	0,00009	0,832198735	0,02274	CD1A	CD1a molecule
1,710004356	0,00114	1,479387509	0,00542	CD2	CD2 molecule
1,710004356	0,00016	1,587767862	0,00017	CD200	CD200 molecule
1,921189728	0,00127	1,537940831	0,00063	CD200	CD200 molecule
1,248330549	0,01952	1,144724161	0,00501	CD200R1	CD200 receptor 1
0,489710149	0,00016	0,749499801	0,00113	CD207	CD207 molecule, langerin
1,501079098	0,03765	1,409320755	0,00001	CD209	CD209 molecule
1,343503426	0,01493	1,185914499	0,01615	CD22	CD22 molecule
1,244874235	0,02715	1,249196126	0,00085	CD22	CD22 molecule
0,581963267	0,00276	0,782411782	0,01159	CD24	CD24 molecule
0,784584098	0,03593	0,879649076	0,01891	CD24	CD24 molecule
0,467487599	0,02114	0,753145233	0,03991	CD24	CD24 molecule
1,70054832	0,00006	1,413233644	0,00036	CD247	CD247 molecule
2,857988279	0,00002	3,47737824	0	CD27	CD27 molecule
1,53261996	0,00225	1,304954948	0,00339	CD28	CD28 molecule
1,717130873	0,00135	1,435944511	0,00016	CD300A	CD300a molecule
1,537940831	0,00039	1,601029621	0,00003	CD300LF	CD300 molecule-like family member f
1,371733289	0,00901	1,256142381	0,00203	CD33	CD33 molecule
0,363745171	0,00529	0,688725023	0,04373	CD36	CD36 molecule (thrombospondin receptor)
0,403880389	0,02025	0,713507253	0,0475	CD36	CD36 molecule (thrombospondin receptor)
0,404160434	0,0145	0,655196702	0,006	CD36	CD36 molecule (thrombospondin receptor)
0,547905883	0,00152	0,716480825	0,00066	CD36	CD36 molecule (thrombospondin receptor)
1,631274987	0,04335	1,793776319	0,00021	CD37	CD37 molecule
3,171136546	0,00004	2,573978495	0	CD38	CD38 molecule
1,52308874	0,00329	1,481439798	0,00114	CD3D	CD3d molecule, delta (CD3-TCR complex)
1,480413298	0,00953	1,53900722	0,00003	CD3E	CD3e molecule, epsilon (CD3-TCR complex)
1,304954948	0,01212	1,21167266	0,01856	CD3G	CD3g molecule, gamma (CD3-TCR complex)
1,480413298	0,0177	1,465100875	0,00006	CD4	CD4 molecule
1,461044379	0,04908	1,479387509	0	CD40	CD40 molecule, TNF receptor superfamily member 5

0,76950361	0,04187	0,863938187	0,03524	CD44	CD44 molecule (Indian blood group)
0,649319301	0,00178	0,778624691	0,00137	CD44	CD44 molecule (Indian blood group)
2,046274939	0,00028	1,647182035	0,0008	CD48	CD48 molecule
1,477338064	0,00238	1,238848698	0,00605	CD5	CD5 molecule
1,50733491	0,03944	1,489677463	0,02459	CD52	CD52 molecule
2,250116969	0	1,905275996	0,00002	CD53	CD53 molecule
1,497960934	0,00091	1,383190629	0,04518	CD53	CD53 molecule
0,579949827	0,0017	0,804408371	0,02236	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
0,580754366	0,00034	0,780786493	0,01679	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
1,275444392	0,02193	1,244011653	0,02173	CD6	CD6 molecule
1,413233644	0,00593	1,284315809	0,0008	CD6	CD6 molecule
4,141059695	0,00079	1,822602561	0,01719	CD69	CD69 molecule
1,297738767	0,01711	1,196648963	0,01698	CD72	CD72 molecule
3,680750602	0,00026	3,427127819	0	CD79A	CD79a molecule, immunoglobulin-associated alpha
3,739900791	0,00001	3,729545946	0	CD79A	CD79a molecule, immunoglobulin-associated alpha
1,840375301	0,00293	1,675974269	0,00001	CD79B	CD79b molecule, immunoglobulin-associated beta
1,837825767	0,0008	1,387992719	0,00537	CD84	CD84 molecule
1,377450046	0,02162	1,174461971	0,01449	CD86	CD86 molecule
1,486582984	0,02618	1,32408891	0,01541	CD8A	CD8a molecule
1,589970502	0,04699	1,497960934	0,00007	CD93	CD93 molecule
2,095072254	0,0013	1,689972769	0,00004	CD93	CD93 molecule
1,609932275	0,0234	1,509425969	0,00024	CD97	CD97 molecule
1,38991822	0,03327	1,395710764	0,0001	CD99L2	CD99 molecule-like 2
0,799960128	0,0171	0,771640088	0,00048	CDADC1	cytidine and dCMP deaminase domain containing 1
0,552482242	0,0276	0,826450318	0,00091	CDC123	cell division cycle 123 homolog (S. cerevisiae)
0,71946679	0,01301	0,722966147	0,00005	CDC42	cell division cycle 42 (GTP binding protein, 25kDa)
1,269270886	0,01868	1,197478705	0,01063	CDC42EP2	CDC42 effector protein (Rho GTPase binding) 2
1,462057448	0,00363	1,317679952	0,01271	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3
1,781385801	0,01504	1,399585866	0,00497	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3
1,536875181	0,03601	1,36983298	0,01397	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3
1,317679952	0,04246	1,271031689	0,00596	CDC42EP5	CDC42 effector protein (Rho GTPase binding) 5
0,53998828	0,02451	0,607097442	0,00015	CDCA7	cell division cycle associated 7
0,607097442	0,00399	0,687770909	0,00016	CDCA7L	cell division cycle associated 7-like
0,655196702	0,00579	0,729510172	0,00001	CDH1	cadherin 1, type 1, E-cadherin (epithelial)
0,694477568	0,02633	0,72597914	0,00163	CDH13	cadherin 13, H-cadherin (heart)
1,258757174	0,04251	1,149494848	0,03096	CDH17	cadherin 17, LI cadherin (liver-intestine)
1,227735684	0,01799	1,163120042	0,0046	CDH18	cadherin 18, type 2
1,614402149	0,00634	1,493813457	0,00086	CDH5	cadherin 5, type 2 (vascular endothelium)
1,431968741	0,02024	1,333298677	0,00139	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)
0,409802304	0,0009	0,672217497	0,00226	CDHR1	cadherin-related family member 1
0,78024548	0,00939	0,809442217	0,0001	CDK12	cyclin-dependent kinase 12
0,70514898	0,04653	0,748461493	0,0121	CDK13	cyclin-dependent kinase 13
2,15995312	0,00182	1,808758755	0,00025	CDK14	cyclin-dependent kinase 14
1,255271991	0,0192	1,163120042	0,01497	CDK14	cyclin-dependent kinase 14
0,549808075	0,00887	0,756283999	0,00034	CDK19	cyclin-dependent kinase 19
0,635956503	0,01385	0,801069878	0,02497	CDK7	cyclin-dependent kinase 7
1,196648963	0,04641	1,194163187	0,00939	CDKL3	cyclin-dependent kinase-like 3
1,459020344	0,0207	1,271031689	0,02549	CDR2	cerebellar degeneration-related protein 2, 62kDa
0,469761375	0,00592	0,668037039	0,00003	CDS1	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
0,635956503	0,00691	0,788946841	0,00209	CDS1	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
0,315344352	0,00006	0,597081594	0,02479	CDSN	corneodesmosin
1,901318202	0,02735	1,484523571	0,0169	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
1,52414483	0,00594	1,250062303	0,00079	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21
1,319507911	0,00455	1,163926534	0,00648	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21
0,517273791	0,0005	0,628506687	0	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma
0,527776859	0,00404	0,630688704	0	CEBPG	CCAAT/enhancer binding protein (C/EBP), gamma
2,774061938	0,00025	2,816688454	0	CECR1	cat eye syndrome chromosome region, candidate 1
1,219255094	0,02096	1,152686347	0,04634	CECR6	cat eye syndrome chromosome region, candidate 6
0,673616788	0,01498	0,753145233	0,00015	CELSR1	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
0,534773544	0,01224	0,76630998	0,00006	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)
0,580754366	0,00019	0,706616822	0,00001	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)
0,716977624	0,00307	0,853817714	0,00624	CENPN	centromere protein N
1,335148303	0,00368	1,185092771	0,00238	CENPV	centromere protein V
0,838568184	0,02763	0,842062954	0,00669	CEP104	centrosomal protein 104kDa
1,285206337	0,02312	1,41519416	0,00062	CEP128	centrosomal protein 128kDa
2,146520573	0,00898	1,594384953	0,01079	CEP128	centrosomal protein 128kDa
0,785128119	0,00997	0,857376037	0,03058	CEP89	centrosomal protein 89kDa
1,549711862	0,03589	1,742308384	0,00014	CERCAM	cerebral endothelial cell adhesion molecule
0,577142709	0,0231	0,630251696	0,00002	CERS3	ceramide synthase 3
0,616853585	0,02273	0,808881348	0,00799	CERS4	ceramide synthase 4
0,658839976	0,00945	0,674551267	0,00185	CES2	carboxylesterase 2
0,668500248	0,02375	0,775930854	0,00312	CES2	carboxylesterase 2
0,607097442	0,01709	0,816768991	0,01067	CES2	carboxylesterase 2
1,262252032	0,02591	1,263127262	0,0031	CETN1	centrin, EF-hand protein, 1
0,608783009	0,0007	0,813943185	0,00736	CETN2	centrin, EF-hand protein, 2
1,351910833	0,02109	1,366040257	0,00051	CFHR2	complement factor H-related 2
2,002774511	0,01036	1,866065983	0,00004	CFI	complement factor I
1,830198336	0,00049	1,344434994	0,0028	CFL2	cofilin 2 (muscle)
1,543280175	0,00099	1,21335356	0,00783	CFLAR	CASP8 and FADD-like apoptosis regulator
1,45195828	0,00223	1,284315809	0,00362	CFP	complement factor properdin
0,589269704	0,00229	0,704172113	0,00154	CGN	cingulin
0,739693755	0,01946	0,772175133	0,00416	CGN	cingulin
1,950710923	0,00101	1,425037614	0,02063	CHAC1	ChaC, cation transport regulator homolog 1 (E. coli)
0,830470024	0,03019	0,8362464	0,00027	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4
0,560583039	0,01315	0,683493726	0,00002	CHD9	chromodomain helicase DNA binding protein 9
0,487677731	0,04982	0,6341957	0,03186	CHD9	chromodomain helicase DNA binding protein 9
0,747424624	0,03682	0,817902059	0,01049	CHEK1	CHK1 checkpoint homolog (S. pombe)
2,043440165	0,00039	1,308578071	0,03949	CHI3L2	chitinase 3-like 2
0,378666579	0,01874	0,555554364	0,00063	CHL1	cell adhesion molecule with homology to L1CAM (close homolog of L1)
0,677362489	0,02799	0,8362464	0,00047	CHMP4A	chromatin modifying protein 4A
0,717474767	0,0222	0,811127156	0,00318	CHMP4B	chromatin modifying protein 4B
0,490049708	0,01675	0,71548826	0,01064	CHMP4C	chromatin modifying protein 4C
0,523405141	0,01331	0,541112322	0,00471	CHP	calcium binding protein P22
0,724471077	0,01826	0,821310701	0,00966	CHP	calcium binding protein P22
1,446934886	0,02424	1,53049677	0,00067	CHPF	chondroitin polymerizing factor
0,486327474	0,00616	0,662503509	0,04566	CHRNA9	cholinergic receptor, nicotinic, alpha 9
1,188383105	0,02864	1,195819797	0,02417	CHST10	carbohydrate sulfotransferase 10
1,650610817	0,00961	1,503161478	0,00472	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11

1,373636233	0,00574	1,304954948	0,01751	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11
1,634670657	0,00071	1,691144575	0	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11
1,689972769	0,00045	1,441928871	0,00006	CHST12	carbohydrate (chondroitin 4) sulfotransferase 12
1,479387509	0,01522	1,382232207	0,00106	CHST12	carbohydrate (chondroitin 4) sulfotransferase 12
1,558329159	0,00155	1,486582984	0,00039	CHST15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15
3,997228372	0,00001	2,857988279	0,00001	CHST2	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2
1,815038311	0,03571	1,219255094	0,04891	CHSY3	chondroitin sulfate synthase 3
0,824733549	0,02344	0,898755127	0,03204	CIAPIN1	cytokine induced apoptosis inhibitor 1
0,767373048	0,03446	0,734584317	0,01365	CIDEA	cell death-inducing DFFA-like effector a
0,743806881	0,0187	0,821310701	0,00153	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)
2,531513188	0,00148	2,168954818	0,00237	CKAP2	cytoskeleton associated protein 2
1,277213759	0,02416	1,2397077	0,0463	CKAP2	cytoskeleton associated protein 2
1,527317498	0,02653	1,714752073	0,00099	CKAP2	cytoskeleton associated protein 2
3,396384986	0,02656	5,08060393	0,00002	CKAP2	cytoskeleton associated protein 2
1,294145654	0,01008	1,223488041	0,01367	CKLF	chemokine-like factor
0,703684188	0,00125	0,870550563	0,02536	CKS1B	CDC28 protein kinase regulatory subunit 1B
0,66342257	0,0319	0,759962428	0,03167	CLCA2	chloride channel accessory 2
0,66158572	0,03045	0,765778999	0,02683	CLCA2	chloride channel accessory 2
0,50382688	0,01515	0,717474767	0,00166	CLCN3	chloride channel 3
0,580754366	0,02179	0,620713746	0,00021	CLCN3	chloride channel 3
0,533662669	0,00281	0,671286251	0,00248	CLCN3	chloride channel 3
1,194163187	0,04357	1,163120042	0,02817	CLCN4	chloride channel 4
1,279872414	0,04924	1,270150983	0,00277	CLCN7	chloride channel 7
2,542063379	0,00002	2,399942765	0	CLDN10	claudin 10
0,307999518	0,00005	0,491410299	0,00048	CLDN20	claudin 20
0,727994774	0,01163	0,76630998	0,01602	CLDN4	claudin 4
1,328685814	0,00881	1,245737416	0,00671	CLEC14A	C-type lectin domain family 14, member A
1,488645255	0,01144	1,519924856	0,00001	CLEC1A	C-type lectin domain family 1, member A
1,210833084	0,03546	1,081474763	0,0347	CLEC4D	C-type lectin domain family 4, member D
1,234562607	0,03012	1,187559666	0,00793	CLEC4E	C-type lectin domain family 4, member E
1,393777239	0,02225	1,17609125	0,01467	CLECL1	C-type lectin-like 1
1,218410264	0,04906	1,146312186	0,00763	CLGN	calmegin
1,468150636	0,00859	1,283425898	0,01015	CLIC6	chloride intracellular channel 6
0,409802304	0,00199	0,467487599	0	CLIP1	CAP-GLY domain containing linker protein 1
0,622005827	0,00167	0,642157904	0,00007	CLIP1	CAP-GLY domain containing linker protein 1
0,635956503	0,00219	0,700763725	0,00643	CLIP4	CAP-GLY domain containing linker protein family, member 4
1,462057448	0,03052	1,282536603	0,01794	CLMP	CXADR-like membrane protein
0,673616788	0,00215	0,680185426	0,00003	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
0,41754396	0,00259	0,552865327	0,00006	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
0,596254436	0,00759	0,734584317	0,0253	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
0,475659138	0,0017	0,60332196	0,0001	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
0,467487599	0,01194	0,577943353	0,00005	CLN8	ceroid-lipofuscinosis, neuronal 8 (epilepsy, progressive with mental retardation)
0,840896415	0,04393	0,787307977	0,00266	CLP1	CLP1, cleavage and polyadenylation factor I subunit, homolog (S. cerevisiae)
1,461044379	0,02056	1,274560627	0,00259	CLPTM1L	CLPTM1-like
0,641712949	0,02271	0,694477568	0,00116	CLPX	ClpX caseinolytic peptidase X homolog (E. coli)
1,252664439	0,0311	1,232852325	0,00043	CLRN1	clarin 1
0,391205891	0,02713	0,808881348	0,03984	CLTB	clathrin, light chain B
0,544121221	0,00314	0,804966138	0,00547	CLTB	clathrin, light chain B
1,404444876	0,04912	1,298638603	0,04829	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene
1,393777239	0,02225	1,319507911	0,0002	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene
0,545631939	0,0017	0,572758949	0,00146	CMAS	cytidine monophosphate N-acetylneuraminic acid synthetase
1,345367209	0,00645	1,425037614	0,00006	CMKLR1	chemokine-like receptor 1
1,502119927	0,0084	1,297738767	0,00887	CMTM2	CKLF-like MARVEL transmembrane domain containing 2
1,840375301	0,00154	1,53900722	0,0006	CMTM7	CKLF-like MARVEL transmembrane domain containing 7
1,953417058	0,00029	1,42800398	0,00024	CMTM7	CKLF-like MARVEL transmembrane domain containing 7
0,544121221	0,01187	0,767373048	0,00966	CNBP	CCHC-type zinc finger, nucleic acid binding protein
0,488354264	0,04044	0,76154437	0,02691	CNFN	cornifelin
1,326845141	0,03175	1,385109468	0,00005	CNGB1	cyclic nucleotide gated channel beta 1
1,284315809	0,02321	1,143930973	0,04788	CNGB1	cyclic nucleotide gated channel beta 1
0,70514898	0,0127	0,79774524	0,00019	CNIH4	cornichon homolog 4 (Drosophila)
0,624598063	0,03692	0,593368399	0,00001	CNKSR3	CNKSR family member 3
1,478362431	0,02195	1,192508872	0,0342	CNN1	calponin 1, basic, smooth muscle
1,231144413	0,00968	1,202469249	0,0253	CNNM2	cyclin M2
1,189207115	0,04274	1,195819797	0,00104	CNNM2	cyclin M2
0,688725023	0,03421	0,877213549	0,00632	CNOT10	CCR4-NOT transcription complex, subunit 10
0,610896551	0,00462	0,779704843	0,00036	CNOT2	CCR4-NOT transcription complex, subunit 2
0,709070018	0,0164	0,822450069	0,00408	CNOT6	CCR4-NOT transcription complex, subunit 6
0,61429349	0,01225	0,762600827	0,00015	CNOT6	CCR4-NOT transcription complex, subunit 6
1,295940965	0,00648	1,245737416	0,00782	CNPY4	canopy 4 homolog (zebrafish)
1,350037985	0,03628	1,146312186	0,00996	CNR1	cannabinoid receptor 1 (brain)
1,549711862	0,00726	1,426025717	0,00018	CNRIP1	cannabinoid receptor interacting protein 1
1,397646972	0,01678	1,492778383	0,00054	CNTD2	cyclin N-terminal domain containing 2
1,699369998	0,01615	1,20163605	0,00741	CNTN4	contactin 4
1,391846392	0,02376	1,366040257	0,00008	CNTNAP1	contactin associated protein 1
1,29145735	0,0051	1,123499903	0,0279	CNTROB	centrobin, centrosomal BRCA2 interacting protein
0,447822835	0,00003	0,576343173	0,00002	COBL	cordon-bleu homolog (mouse)
0,475988954	0,00124	0,511568735	0	COBL	cordon-bleu homolog (mouse)
0,586824089	0,0026	0,794985251	0,00305	COIL	coilin
1,210833084	0,03305	1,187559666	0,03644	COL14A1	collagen, type XIV, alpha 1
2,228387302	0,00018	1,857033705	0,00008	COL15A1	collagen, type XV, alpha 1
0,437392382	0,02327	0,752623374	0,03689	COL17A1	collagen, type XVII, alpha 1
1,350037985	0,01761	1,53049677	0,00001	COL23A1	collagen, type XXIII, alpha 1
1,946658748	0,0013	1,8263965	0,00001	COL4A1	collagen, type IV, alpha 1
1,949359262	0,01321	2,056227653	0,00005	COL4A2	collagen, type IV, alpha 2
2,187070915	0,00128	1,465100875	0,00538	COL4A3	collagen, type IV, alpha 3 (Goodpasture antigen)
0,715984371	0,04348	0,837406488	0,01116	COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein
1,807505454	0,0021	1,398616083	0,00478	COL4A4	collagen, type IV, alpha 4
0,602068691	0,04957	0,751059963	0,00538	COL4A5	collagen, type IV, alpha 5
0,679243142	0,01516	0,759435845	0,0064	COL4A6	collagen, type IV, alpha 6
0,809442217	0,0414	0,883927531	0,03148	COL6A1	collagen, type VI, alpha 1
0,706616822	0,03544	0,679243142	0,00002	COMMD2	COMM domain containing 2
0,77271055	0,00401	0,914465089	0,04403	COMMD6	COMM domain containing 6
0,796640096	0,03782	0,872967591	0,01919	COPG2	coatomer protein complex, subunit gamma 2
0,651122095	0,02275	0,84323111	0,00157	COPS3	COP9 constitutive photomorphogenic homolog subunit 3 (Arabidopsis)
0,639492791	0,00773	0,756808396	0,00044	COPS5	COP9 constitutive photomorphogenic homolog subunit 5 (Arabidopsis)
0,600401714	0,00694	0,60332196	0	COQ2	coenzyme Q2 homolog, prenyltransferase (yeast)
2,049113646	0,01662	2,142061646	0,00007	CORO1A	coronin, actin binding protein, 1A
0,630688704	0,00358	0,870550563	0,04418	CORO2A	coronin, actin binding protein, 2A

1,946658748	0,03999	1,699369998	0,00089	COTL1	coactosin-like 1 (Dictyostelium)
0,672683604	0,04871	0,847919965	0,00178	COX5B	cytochrome c oxidase subunit Vb
0,686342216	0,02422	0,890692901	0,00689	COX6C	cytochrome c oxidase subunit VIc
0,70270935	0,00478	0,856781955	0,00797	COX7B	cytochrome c oxidase subunit VIIb
0,563309614	0,00149	0,806641759	0,01581	CPA4	carboxypeptidase A4
0,474013483	0,01462	0,557869661	0,00002	CPEB2	cytoplasmic polyadenylation element binding protein 2
0,764718139	0,03946	0,834509281	0,01212	CPEB2	cytoplasmic polyadenylation element binding protein 2
0,543367431	0,0346	0,620713746	0,00108	CPM	carboxypeptidase M
2,881859498	0,00011	2,74156561	0,00001	CPNE5	copine V
0,741233505	0,02766	0,807760778	0,00198	CPSF3	cleavage and polyadenylation specific factor 3, 73kDa
1,279872414	0,01606	1,142346247	0,04592	CR1	complement component (3b/4b) receptor 1 (Knops blood group)
1,232852325	0,00667	1,150291893	0,02122	CR1	complement component (3b/4b) receptor 1 (Knops blood group)
1,572434584	0,00212	1,30224419	0,03845	CR1	complement component (3b/4b) receptor 1 (Knops blood group)
2,323017464	0,00167	1,614402149	0,00313	CR1	complement component (3b/4b) receptor 1 (Knops blood group)
2,134650676	0,00019	1,53900722	0,00035	CR2	complement component (3d/Epstein Barr virus) receptor 2
1,328685814	0,01669	1,221793102	0,00462	CRAT	carnitine O-acetyltransferase
1,171210181	0,04684	1,121943481	0,0079	CRB2	crumbs homolog 2 (Drosophila)
1,599920257	0,00387	1,4054187	0,00003	CREB3L2	cAMP responsive element binding protein 3-like 2
1,400556321	0,00268	1,421092043	0,00003	CREB3L2	cAMP responsive element binding protein 3-like 2
1,602139755	0,02064	1,505246747	0,00004	CRELD2	cysteine-rich with EGF-like domains 2
0,774319028	0,04178	0,792234811	0,00063	CRIPT	cysteine-rich PDZ-binding protein
0,70270935	0,01275	0,827023368	0,00012	CRKL	v-crk sarcoma virus CT10 oncogene homolog (avian)-like
0,762072415	0,04013	0,72597914	0,00282	CRLS1	cardiolipin synthase 1
0,76154437	0,00927	0,785672517	0,00522	CRNDE	colorectal neoplasia differentially expressed (non-protein coding)
1,32592576	0,01556	1,230291345	0,00507	CRTAP	cartilage associated protein
0,512278412	0,00345	0,734584317	0,02166	CRYAB	crystallin, alpha B
1,25092908	0,03062	1,193335743	0,00415	CRYBB3	crystallin, beta B3
0,631563631	0,02539	0,765778999	0,00024	CRYBG3	beta-gamma crystallin domain containing 3
0,689680461	0,00041	0,720964436	0,01748	CRYGS	crystallin, gamma S
0,773782497	0,03653	0,784584098	0,00022	CSDA	cold shock domain protein A
0,508035071	0,00485	0,760489377	0,00004	CSE1L	CSE1 chromosome segregation 1-like (yeast)
0,645728675	0,03445	0,8362464	0,00402	CSE1L	CSE1 chromosome segregation 1-like (yeast)
1,286097483	0,01997	1,123499903	0,024	CSF2	colony stimulating factor 2 (granulocyte-macrophage)
1,387030969	0,00539	1,337927555	0,00401	CSF2RA	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
1,222640278	0,04362	1,237132479	0,01177	CSF2RA	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
2,718856484	0,00001	1,965641197	0,00002	CSF2RB	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
2,368543224	0,0002	2,357078816	0,00001	CSF3	colony stimulating factor 3 (granulocyte)
1,844206236	0,00015	1,741101127	0,00019	CSF3R	colony stimulating factor 3 receptor (granulocyte)
2,084931522	0,00004	1,86735989	0,00002	CSF3R	colony stimulating factor 3 receptor (granulocyte)
1,48246701	0,01153	1,254402205	0,00804	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1
1,261377409	0,0458	1,176906737	0,00319	CSMD2	CUB and Sushi multiple domains 2
0,564091069	0,00991	0,615145672	0,00104	CSNK1A1	casein kinase 1, alpha 1
0,566049451	0,0291	0,797192477	0,0493	CSNK1A1	casein kinase 1, alpha 1
0,593779833	0,00182	0,815637493	0,00016	CSNK1A1	casein kinase 1, alpha 1
0,536630143	0,00592	0,620283649	0,00135	CSNK1A1	casein kinase 1, alpha 1
0,641712949	0,00325	0,752101876	0,00158	CSNK1A1	casein kinase 1, alpha 1
0,693034943	0,01307	0,756283999	0,00223	CSNK1A1	casein kinase 1, alpha 1
0,515484159	0,03646	0,670821112	0,03049	CSNK1A1	casein kinase 1, alpha 1
0,652477474	0,0299	0,796640096	0,00012	CSNK2A2	casein kinase 2, alpha prime polypeptide
0,503477775	0,00006	0,622005827	0,00001	CSRP2	cysteine and glycine-rich protein 2
0,435275282	0,00187	0,7031966	0,00202	CSRP2	cysteine and glycine-rich protein 2
0,785672517	0,02591	0,788946841	0,00091	CSRP2BP	CSRP2 binding protein
0,552865327	0,00096	0,713012859	0,01065	CST6	cystatin E/M
1,504203751	0,03249	1,460032011	0,00023	CST7	cystatin F (leukocystatin)
0,726986259	0,01362	0,767373048	0,02793	CSTF3	cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa
0,768970416	0,03746	0,906261938	0,04321	CTCF	CCCTC-binding factor (zinc finger protein)
0,557869661	0,00546	0,804408371	0,0166	CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like
2,440201021	0,00024	1,629015126	0,03554	CTGF	connective tissue growth factor
1,508380077	0,00682	1,22603486	0,00048	CTH	cystathionase (cystathionine gamma-lyase)
2,789487333	0,00053	1,604362333	0,00029	CTH	cystathionase (cystathionine gamma-lyase)
1,190031696	0,04013	1,266634254	0,00039	CTLA4	cytotoxic T-lymphocyte-associated protein 4
1,448942155	0,00555	1,223488041	0,00372	CTLA4	cytotoxic T-lymphocyte-associated protein 4
1,6724928	0,01136	1,387992719	0,00003	CTLA4	cytotoxic T-lymphocyte-associated protein 4
0,529242197	0,00152	0,775930854	0,00354	CTNNAL1	catenin (cadherin-associated protein), alpha-like 1
0,536258308	0,00966	0,695923196	0,00046	CTNNBIP1	catenin, beta interacting protein 1
0,687770909	0,03047	0,750019495	0,00008	CTPS	CTP synthase
1,320422841	0,00287	1,190031696	0,00271	CTSB	cathepsin B
2,212994706	0,00001	1,929196369	0	CTSH	cathepsin H
1,591072968	0,00061	1,347233577	0,00544	CTSL1	cathepsin L1
0,555554364	0,00753	0,760489377	0,04338	CTSL2	cathepsin L2
2,153972752	0,00202	1,644900137	0,00025	CTSS	cathepsin S
2,0363704	0,00002	1,687631592	0,00008	CTSS	cathepsin S
1,580082624	0,00376	1,282536603	0,02986	CTSZ	cathepsin Z
0,701249625	0,02712	0,884540435	0,02933	CTTN	cortactin
0,496546248	0,00387	0,693034943	0,00068	CTTNBP2NL	CTTNBP2 N-terminal like
0,583579051	0,0091	0,732550437	0,00071	CTTNBP2NL	CTTNBP2 N-terminal like
0,650220073	0,01066	0,732550437	0,00013	CUL3	cullin 3
0,643940815	0,01512	0,8362464	0,01558	CUL4A	cullin 4A
0,600818025	0,00457	0,706616822	0,00053	CUL4A	cullin 4A
0,635075491	0,00393	0,749499801	0,0004	CUL4A	cullin 4A
0,645728675	0,00212	0,716977624	0,0002	CUX1	cut-like homeobox 1
0,687770909	0,0228	0,796088099	0,01892	CUX1	cut-like homeobox 1
0,599985691	0,00878	0,489370825	0	CUX1	cut-like homeobox 1
0,642603169	0,01016	0,7944344	0,00024	CWC15	CWC15 spliceosome-associated protein homolog (S. cerevisiae)
0,598324482	0,03205	0,739181216	0,00098	CWC27	CWC27 spliceosome-associated protein homolog (S. cerevisiae)
0,360982299	0,00012	0,500346694	0	CWH43	cell wall biogenesis 43 C-terminal homolog (S. cerevisiae)
0,285982743	0,00017	0,480297432	0,00007	CWH43	cell wall biogenesis 43 C-terminal homolog (S. cerevisiae)
3,179941004	0,0005	2,938337267	0,00003	CXCL1	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
1,854461093	0,00481	2,089271526	0,00002	CXCL12	chemokine (C-X-C motif) ligand 12
1,872544495	0,01412	1,845484985	0,00044	CXCL12	chemokine (C-X-C motif) ligand 12
2,071965527	0,0051	2,076278541	0,00143	CXCL13	chemokine (C-X-C motif) ligand 13
0,333555792	0,00044	0,639936207	0,0024	CXCL14	chemokine (C-X-C motif) ligand 14
0,405001737	0,00266	0,625031151	0,00566	CXCL14	chemokine (C-X-C motif) ligand 14
0,415235012	0,00022	0,636397468	0,00104	CXCL14	chemokine (C-X-C motif) ligand 14
4,727246188	0,00023	2,681425183	0,00317	CXCL6	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
3,802636405	0,00026	2,581124981	0,00002	CXCR4	chemokine (C-X-C motif) receptor 4
3,184352395	0,00038	2,648177821	0,00004	CXCR4	chemokine (C-X-C motif) receptor 4
5,411392924	0,00001	3,251262408	0,00002	CXCR4	chemokine (C-X-C motif) receptor 4

0,570381858	0,00133	0,662503509	0	CXorf26	chromosome X open reading frame 26
0,539614118	0,04339	0,693034943	0,00753	CXorf26	chromosome X open reading frame 26
1,394743666	0,02799	1,465100875	0,00007	CXorf36	chromosome X open reading frame 36
0,682546859	0,00108	0,70027816	0,00006	CYB5A	cytochrome b5 type A (microsomal)
0,662503509	0,00036	0,689202576	0,00006	CYB5A	cytochrome b5 type A (microsomal)
0,683020128	0,00131	0,747942879	0,00061	CYB5A	cytochrome b5 type A (microsomal)
1,251796459	0,03335	1,237990291	0,00042	CYBA	cytochrome b-245, alpha polypeptide
1,331451613	0,01721	1,32408891	0,03881	CYBB	cytochrome b-245, beta polypeptide
1,368883813	0,02371	1,455989549	0,01921	CYBB	cytochrome b-245, beta polypeptide
0,76418826	0,04087	0,768437591	0,00029	CYCS	cytochrome c, somatic
0,764718139	0,02689	0,741233505	0,00013	CYFIP1	cytoplasmic FMR1 interacting protein 1
1,702907415	0,00235	1,43296165	0,00499	CYFIP2	cytoplasmic FMR1 interacting protein 2
1,358486285	0,02574	1,31494276	0,0018	CYFIP2	cytoplasmic FMR1 interacting protein 2
1,787570325	0,00028	1,736280455	0,00015	CYGB	cytoglobin
1,394743666	0,04924	1,488645255	0,00005	CYP11A1	cytochrome P450, family 11, subfamily A, polypeptide 1
1,268391399	0,03077	1,147107024	0,02497	CYP1A1	cytochrome P450, family 1, subfamily A, polypeptide 1
1,75199663	0,00253	1,459020344	0,01332	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1
2,134650676	0,02683	1,433955248	0,02007	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1
3,233283475	0,00011	2,441893025	0,00002	CYP24A1	cytochrome P450, family 24, subfamily A, polypeptide 1
1,304954948	0,0226	1,20664392	0,04319	CYP26A1	cytochrome P450, family 26, subfamily A, polypeptide 1
0,635075491	0,04645	0,735603373	0,00882	CYP26B1	cytochrome P450, family 26, subfamily B, polypeptide 1
0,527045712	0,00435	0,630688704	0,00009	CYP27C1	cytochrome P450, family 27, subfamily C, polypeptide 1
0,475000191	0,0006	0,573553512	0,00029	CYP2C18	cytochrome P450, family 2, subfamily C, polypeptide 18
0,40528256	0,0011	0,465224829	0,00002	CYP2C18	cytochrome P450, family 2, subfamily C, polypeptide 18
0,753145233	0,02639	0,767905135	0,01445	CYP2C9	cytochrome P450, family 2, subfamily C, polypeptide 9
0,452189689	0,00044	0,669427628	0,00025	CYP2C9	cytochrome P450, family 2, subfamily C, polypeptide 9
0,498961359	0,00022	0,720964436	0,0004	CYP2C9	cytochrome P450, family 2, subfamily C, polypeptide 9
0,550189305	0,0019	0,749499801	0,00052	CYP2C9	cytochrome P450, family 2, subfamily C, polypeptide 9
0,477641468	0,00007	0,743806881	0,00026	CYP2C9	cytochrome P450, family 2, subfamily C, polypeptide 9
0,681129017	0,01381	0,770037174	0,00019	CYP2R1	cytochrome P450, family 2, subfamily R, polypeptide 1
0,469761375	0,00968	0,628071191	0,00008	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1
0,345318612	0,00014	0,501040803	0,00005	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5
0,342695701	0,00046	0,550570799	0,00018	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5
0,34484023	0,0048	0,494828328	0,00001	CYP3A5	cytochrome P450, family 3, subfamily A, polypeptide 5
0,812815602	0,02432	0,823591017	0,01361	CYP3A7	cytochrome P450, family 3, subfamily A, polypeptide 7
0,813943185	0,04308	0,888226796	0,04742	CYP4F12	cytochrome P450, family 4, subfamily F, polypeptide 12
0,421615555	0,00066	0,537374586	0,00018	CYP4F22	cytochrome P450, family 4, subfamily F, polypeptide 22
1,231144413	0,01321	1,149494848	0,00182	CYP4V2	cytochrome P450, family 4, subfamily V, polypeptide 2
1,860899315	0,02242	1,433955248	0,02977	CYP4X1	cytochrome P450, family 4, subfamily X, polypeptide 1
0,546767729	0,01578	0,567621051	0	CYP51A1	cytochrome P450, family 51, subfamily A, polypeptide 1
0,527045712	0,0046	0,687294348	0,02631	CYP51A1	cytochrome P450, family 51, subfamily A, polypeptide 1
1,237990291	0,0241	1,121943481	0,01263	CYP8B1	cytochrome P450, family 8, subfamily B, polypeptide 1
2,455471368	0,00013	1,817556233	0,00612	CYR61	cysteine-rich, angiogenic inducer, 61
1,994462503	0,01771	2,034959384	0,00317	CYR61	cysteine-rich, angiogenic inducer, 61
1,652900636	0,04146	1,413233644	0,02386	CYSLTR1	cysteinyl leukotriene receptor 1
1,426025717	0,00847	1,341642225	0,00066	CYTH4	cytohesin 4
1,594384953	0,00532	1,583371732	0,00003	CYTH4	cytohesin 4
3,405814831	0	2,419988178	0,00035	CYTIP	cytohesin 1 interacting protein
1,365093718	0,01327	1,315854525	0,00184	CYTL1	cytokine-like 1
0,296478625	0,00008	0,574747424	0,00026	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence
0,358240413	0,00016	0,52850902	0	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence
0,42513708	0,00013	0,622868708	0,00009	D4S234E	DNA segment on chromosome 4 (unique) 234 expressed sequence
0,421323415	0,00581	0,638164384	0,00002	DAAM1	dishevelled associated activator of morphogenesis 1
0,434371093	0,00024	0,570381858	0	DAAM1	dishevelled associated activator of morphogenesis 1
0,720964436	0,03191	0,837406488	0,00759	DAAM1	dishevelled associated activator of morphogenesis 1
0,654289036	0,00303	0,812815602	0,00371	DAAM1	dishevelled associated activator of morphogenesis 1
1,356604327	0,04846	1,237990291	0,02397	DAAM2	dishevelled associated activator of morphogenesis 2
1,429984986	0,04717	1,41519416	0,00113	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
1,529436278	0,00135	1,536875181	0,00107	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
1,632406092	0,00005	1,56265576	0,00023	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
1,254402205	0,03226	1,199139914	0,02312	DAB2IP	DAB2 interacting protein
0,607939642	0,00651	0,787853886	0,03462	DACT2	dapper, antagonist of beta-catenin, homolog 2 (Xenopus laevis)
1,857033705	0,00146	1,687631592	0,00002	DAPK1	death-associated protein kinase 1
0,397492625	0,00018	0,587638164	0,00034	DAPL1	death associated protein-like 1
1,706452196	0,02205	1,781385801	0,00001	DARC	Duffy blood group, chemokine receptor
0,557096825	0,00724	0,853817714	0,00297	DARS	aspartyl-tRNA synthetase
0,569986636	0,0006	0,699308041	0,0002	DBI	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)
0,369846877	0,00039	0,62546454	0,00036	DBI	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)
0,428094142	0,00037	0,667574152	0,00032	DBI	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein)
1,368883813	0,0341	1,225185332	0,02478	DBN1	drebrin 1
0,624165274	0,02325	0,720964436	0,00212	DBT	dihydrolipoamide branched chain transacylase E2
0,628942486	0,00981	0,71449707	0,00003	DCAF13	DDB1 and CUL4 associated factor 13
0,676424116	0,04833	0,832775771	0,04589	DCAF16	DDB1 and CUL4 associated factor 16
0,819604608	0,0333	0,816768991	0,00072	DCAF4	DDB1 and CUL4 associated factor 4
0,699308041	0,01564	0,8362464	0,00076	DCAF4	DDB1 and CUL4 associated factor 4
0,723969086	0,03067	0,790041312	0,0007	DCAF6	DDB1 and CUL4 associated factor 6
1,636938363	0,00274	1,185914499	0,01826	DCC	deleted in colorectal carcinoma
1,606587994	0,00424	1,43893358	0,00185	DCHS1	dachsous 1 (Drosophila)
0,636397468	0,04725	0,782411782	0,00962	DCLRE1C	DNA cross-link repair 1C
1,292352831	0,03346	1,197478705	0,03842	DCP1B	DCP1 decapping enzyme homolog B (S. cerevisiae)
0,767373048	0,04591	0,879039561	0,01006	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
0,773246337	0,01433	0,755759964	0,00524	DCUN1D3	DCN1, defective in cullin neddylation 1, domain containing 3 (S. cerevisiae)
0,639492791	0,02773	0,855002178	0,04977	DDAH2	dimethylarginine dimethylaminohydrolase 2
0,422786144	0,0157	0,726482525	0,00435	DDI2	DNA-damage inducible 1 homolog 2 (S. cerevisiae)
1,816296835	0,02744	1,670175839	0	DDIT4	DNA-damage-inducible transcript 4
1,962918128	0,01304	2,111107435	0,00025	DDIT4L	DNA-damage-inducible transcript 4-like
1,238848698	0,01203	1,155085785	0,03805	DDR2	discoidin domain receptor tyrosine kinase 2
0,621144141	0,00611	0,790041312	0,00006	DDX1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1
0,571569168	0,01404	0,726986259	0,0112	DDX21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21
0,661127303	0,01703	0,776468875	0,00225	DDX46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46
0,768970416	0,01487	0,782954296	0,00781	DDX49	DEAD (Asp-Glu-Ala-Asp) box polypeptide 49
0,651573575	0,00041	0,821880187	0,04268	DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50
0,699792933	0,03505	0,872967591	0,00292	DDX50	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50
0,755759964	0,04159	0,819036698	0,0166	DDX51	DEAD (Asp-Glu-Ala-Asp) box polypeptide 51
0,593779833	0,00405	0,731028724	0,00009	DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52
0,593368399	0,02059	0,670356296	0	DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52
0,554016174	0,03356	0,831045862	0,00958	DECR1	2,4-dienoyl CoA reductase 1, mitochondrial
0,581157054	0,0498	0,650670928	0,00005	DEFB1	defensin, beta 1

1,138394029	0,04035	1,148698355	0,01213	DEFB127	defensin, beta 127
0,508035071	0,0053	0,590496331	0,00004	DEGS1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)
0,681129017	0,0075	0,800514811	0,04121	DEGS2	degenerative spermatocyte homolog 2, lipid desaturase (Drosophila)
0,67877249	0,02537	0,76154437	0,00073	DEK	DEK oncogene
0,76101669	0,01029	0,853817714	0,00713	DEM1	defects in morphology 1 homolog (S. cerevisiae)
1,781385801	0,00105	1,638073396	0,00006	DENND1C	DENN/MADD domain containing 1C
0,540362701	0,02028	0,597495602	0	DENND2C	DENN/MADD domain containing 2C
0,541862983	0,00335	0,652025368	0,0064	DENND2C	DENN/MADD domain containing 2C
1,494849249	0,00493	1,603250659	0,00001	DENND3	DENN/MADD domain containing 3
1,674812975	0,00132	1,504203751	0,00001	DENND3	DENN/MADD domain containing 3
0,361984543	0,00244	0,727994774	0,00301	DENND4C	DENN/MADD domain containing 4C
1,699369998	0,00154	1,41029796	0,00045	DENND5B	DENN/MADD domain containing 5B
2,486299338	0,00019	1,769080871	0,00091	DENND5B	DENN/MADD domain containing 5B
1,480413298	0,00641	1,20664392	0,00916	DENND5B	DENN/MADD domain containing 5B
0,689202576	0,01494	0,76950361	0,00014	DENR	density-regulated protein
0,596254436	0,03952	0,481630947	0,00002	DENR	density-regulated protein
0,708578698	0,01947	0,76630998	0,0005	DEPTOR	DEP domain containing MTOR-interacting protein
1,308578071	0,02861	1,21335356	0,00312	DERL1	Der1-like domain family, member 1
1,473247686	0,0034	1,212512819	0,00411	DERL1	Der1-like domain family, member 1
2,136130816	0,00038	2,286276671	0,00001	DERL3	Der1-like domain family, member 3
3,38932974	0,00013	3,168939244	0	DERL3	Der1-like domain family, member 3
1,512567997	0,00164	1,226884977	0,01432	DET1	de-etiolated homolog 1 (Arabidopsis)
0,648419777	0,00088	0,809442217	0,00529	DGAT2	diacylglycerol O-acyltransferase 2
0,490049708	0,00021	0,706127202	0,00119	DGAT2	diacylglycerol O-acyltransferase 2
1,261377409	0,02442	1,350974085	0,00022	DGCR7	DiGeorge syndrome critical region gene 7
0,652477474	0,02056	0,762072415	0,00317	DHCR7	7-dehydrocholesterol reductase
0,806641759	0,03053	0,736113431	0,00058	DHCR7	7-dehydrocholesterol reductase
0,728499557	0,04626	0,794985251	0,00006	DHFR	dihydrofolate reductase
0,635956503	0,04083	0,793883931	0,00809	DHRS1	dehydrogenase/reductase (SDR family) member 1
1,283425898	0,02876	1,186736798	0,03128	DHTKD1	dehydrogenase E1 and transketolase domain containing 1
0,598739352	0,00221	0,866336856	0,00356	DHX32	DEAH (Asp-Glu-Ala-His) box polypeptide 32
0,501735874	0,00801	0,652929894	0,00005	DIAPH2	diaphanous homolog 2 (Drosophila)
0,687294348	0,04789	0,733566672	0,00037	DIAPH2	diaphanous homolog 2 (Drosophila)
0,815637493	0,01935	0,89564567	0,01674	DIAPH3	diaphanous homolog 3 (Drosophila)
0,710546022	0,02029	0,716977624	0,00536	DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila)
0,508035071	0,00697	0,62981499	0,00001	DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila)
0,72597914	0,02817	0,821880187	0,0311	DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila)
0,720464874	0,00709	0,703684188	0,00112	DIRC2	disrupted in renal carcinoma 2
1,22010051	0,01665	1,167967395	0,01553	DISC1	disrupted in schizophrenia 1
1,262252032	0,03115	1,159899655	0,00595	DKFZP434A06	hypothetical LOC26102
0,692074858	0,01617	0,815072332	0,00791	DKFZp547G18	hypothetical LOC55525
0,699792933	0,01021	0,860352631	0,02831	DKFZP586I142	hypothetical protein DKFZp586I1420
1,283425898	0,04398	1,217566019	0,00604	DLEC1	deleted in lung and esophageal cancer 1
0,692554734	0,02146	0,843815796	0,01659	DLG3	discs, large homolog 3 (Drosophila)
0,859756486	0,04571	0,863339559	0,04988	DLG3	discs, large homolog 3 (Drosophila)
0,680657058	0,00235	0,805524291	0,00014	DLG5	discs, large homolog 5 (Drosophila)
0,584793832	0,01999	0,650220073	0,00061	DLG5	discs, large homolog 5 (Drosophila)
0,638164384	0,01518	0,806082831	0,00045	DLGAP4	discs, large (Drosophila) homolog-associated protein 4
0,779704843	0,00805	0,843815796	0,01063	DLK2	delta-like 2 homolog (Drosophila)
0,604997045	0,01653	0,695440986	0,00007	DLX2	distal-less homeobox 2
0,48801588	0,00474	0,700763725	0,00966	DLX3	distal-less homeobox 3
0,347720493	0,00825	0,710546022	0,00684	DMKN	dermokine
1,500038989	0,00585	1,702907415	0	DNAAF1	dynein, axonemal, assembly factor 1
1,219255094	0,03156	1,245737416	0,0017	DNAH1	dynein, axonemal, heavy chain 1
1,269270886	0,03474	1,172834949	0,00377	DNAH7	dynein, axonemal, heavy chain 7
0,612168196	0,00691	0,594191553	0,00006	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4
0,630688704	0,00037	0,681129017	0	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4
0,562919293	0,00245	0,71400199	0,00009	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4
0,579547976	0,00156	0,728499557	0,00299	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6
2,561519723	0,00665	1,543280175	0,00159	DNAJB9	DnaJ (Hsp40) homolog, subfamily B, member 9
2,360348687	0,00019	1,642621402	0,00117	DNAJB9	DnaJ (Hsp40) homolog, subfamily B, member 9
2,575763259	0,00176	1,684125907	0,00261	DNAJB9	DnaJ (Hsp40) homolog, subfamily B, member 9
0,62546454	0,02283	0,802737389	0,0055	DNAJC13	DnaJ (Hsp40) homolog, subfamily C, member 13
0,796088099	0,03264	0,876605721	0,03975	DNAJC19	DnaJ (Hsp40) homolog, subfamily C, member 19
0,608783009	0,02802	0,765778999	0,00001	DNAJC2	DnaJ (Hsp40) homolog, subfamily C, member 2
0,683493726	0,01368	0,81056512	0,00061	DNAJC9	DnaJ (Hsp40) homolog, subfamily C, member 9
1,271913007	0,03366	1,234562607	0,00151	DNASE1	deoxyribonuclease I
1,393777239	0,0248	1,171210181	0,00727	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha
0,551334582	0,00584	0,749499801	0	DNTTIP2	deoxynucleotidyltransferase, terminal, interacting protein 2
2,108182847	0,00034	1,79129134	0,0003	DOCK2	dedicator of cytokinesis 2
1,823866331	0,02114	1,258757174	0,03226	DOCK4	dedicator of cytokinesis 4
1,811267966	0,00705	1,393777239	0,0262	DOCK8	dedicator of cytokinesis 8
1,359428242	0,04022	1,367935304	0,00054	DOK3	docking protein 3
2,696335463	0	1,902636553	0,00011	DOK3	docking protein 3
0,61813763	0,00972	0,683967652	0,00069	DOK4	docking protein 4
1,780151467	0,00069	1,296839555	0,00338	DOK5	docking protein 5
1,395710764	0,00147	1,159899655	0,01122	DPAGT1	dolichyl-phosphate (UDP-N-acetylglucosamine) N-acetylglucosaminephosphotransferase 1 (GlcNAc-1-P transferase)
1,476314406	0,00028	1,244011653	0,0012	DPEP2	dipeptidase 2
1,298638603	0,0135	1,306765254	0,00581	DPP6	dipeptidyl-peptidase 6
0,748980467	0,01718	0,851453708	0,02141	DPP8	dipeptidyl-peptidase 8
0,716480825	0,00202	0,866937564	0,03099	DPY30	dpy-30 homolog (C. elegans)
1,463071221	0,02401	1,277213759	0,00002	DRAM1	DNA-damage regulated autophagy modulator 1
0,828744904	0,04006	0,886996305	0,01777	DRG1	developmentally regulated GTP binding protein 1
0,100203166	0,0001	0,408667664	0,00384	DSC1	desmocollin 1
0,385820044	0,00992	0,430176315	0	DSC2	desmocollin 2
0,459138081	0,00042	0,594191553	0,00496	DSC2	desmocollin 2
0,548665969	0,0075	0,688725023	0,00015	DSC2	desmocollin 2
0,429878243	0,00205	0,618566239	0,00002	DSC3	desmocollin 3
0,386087567	0,00005	0,644387315	0,00328	DSC3	desmocollin 3
0,348927691	0,0041	0,462331639	0,00067	DSG1	desmoglein 1
0,419284092	0,01558	0,713012859	0,01093	DSG3	desmoglein 3
0,569591689	0,00336	0,699308041	0,00021	DSG3	desmoglein 3
0,754712984	0,02038	0,856188285	0,03018	DSP	desmoplakin
0,426613049	0,00057	0,72597914	0,00461	DST	dystonin
0,576742803	0,02847	0,741747467	0,00797	DSTN	destrin (actin depolymerizing factor)
0,697855382	0,02733	0,714992493	0,00003	DSTN	destrin (actin depolymerizing factor)
0,63860688	0,01512	0,819036698	0,02718	DSTYK	dual serine/threonine and tyrosine protein kinase
0,679243142	0,00488	0,756808396	0,00074	DTD1	D-tyrosyl-tRNA deacylase 1 homolog (S. cerevisiae)

3,431882122	0,00006	2,350552657	0,00004	DTNB	dystrobrevin, beta
0,404160434	0,00176	0,633317127	0,00001	DUOX1	dual oxidase 1
0,462011286	0,02784	0,763658749	0,0058	DUOX1	dual oxidase 1
0,532185091	0,0051	0,681601304	0,00132	DUOXA1	dual oxidase maturation factor 1
0,535886731	0,02629	0,806082831	0,04664	DUOXA1	dual oxidase maturation factor 1
1,476314406	0,0271	1,325007017	0,0187	DUOXA2	dual oxidase maturation factor 2
0,78132788	0,02542	0,665725807	0,00021	DUS4L	dihydrouridine synthase 4-like (S. cerevisiae)
1,344434994	0,00829	1,353786279	0,00055	DUSP1	dual specificity phosphatase 1
0,621144141	0,00457	0,647521499	0,00036	DUSP14	dual specificity phosphatase 14
0,786762445	0,02027	0,792234811	0,0441	DUSP16	dual specificity phosphatase 16
0,713012859	0,00456	0,738157203	0,00063	DUSP16	dual specificity phosphatase 16
1,636938363	0,00533	1,362258035	0,0146	DUSP2	dual specificity phosphatase 2
1,470187336	0,00122	1,224336392	0,00317	DUSP22	dual specificity phosphatase 22
1,995845438	0,0065	1,589970502	0,00261	DUSP5	dual specificity phosphatase 5
0,646176415	0,00162	0,645281245	0	DUSP7	dual specificity phosphatase 7
0,705637922	0,02688	0,893785162	0,01533	DYM	dymeclin
0,608361179	0,04367	0,849096246	0,0175	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1
0,698823486	0,04454	0,767373048	0,00115	DYNC1I2	dynein, cytoplasmic 1, intermediate chain 2
0,513344773	0,00815	0,614719434	0	DYNC1LI1	dynein, cytoplasmic 1, light intermediate chain 1
0,561360711	0,00194	0,827023368	0,00122	DYNC1LI1	dynein, cytoplasmic 1, light intermediate chain 1
0,632878297	0,01149	0,790589117	0,00407	DYNC1LI2	dynein, cytoplasmic 1, light intermediate chain 2
0,670821112	0,03127	0,89688816	0,02209	DYNC1LI2	dynein, cytoplasmic 1, light intermediate chain 2
0,734584317	0,00914	0,807201075	0,00086	DYNLL1	dynein, light chain, LC8-type 1
0,470087101	0,00853	0,56097174	0,00003	DYNLT3	dynein, light chain, Tctex-type 3
1,197478705	0,01678	1,149494848	0,04598	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
0,728499557	0,00772	0,704172113	0,00084	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
1,409320755	0,02865	1,378405153	0,00006	DYSF	dysferlin, limb girdle muscular dystrophy 2B (autosomal recessive)
1,889494082	0,00049	1,22858698	0,03494	E2F5	E2F transcription factor 5, p130-binding
1,212512819	0,03093	1,121166078	0,02837	E2F7	E2F transcription factor 7
0,563309614	0,01766	0,537747195	0,00001	EAF1	ELL associated factor 1
3,328794939	0,00002	2,217601287	0,00062	EAF2	ELL associated factor 2
1,479387509	0,04782	1,306765254	0,02634	EBF1	early B-cell factor 1
1,373636233	0,01367	1,241427492	0,00419	EBF3	early B-cell factor 3
0,778624691	0,04377	0,721464343	0	EBNA1BP2	EBNA1 binding protein 2
0,639492791	0,00026	0,732550437	0,00344	EBPL	emopamil binding protein-like
0,675487042	0,01257	0,847332435	0,00261	ECD	ecdysoneless homolog (Drosophila)
1,329607108	0,00784	1,246601194	0,00243	ECE1	endothelin converting enzyme 1
0,673150035	0,02721	0,85027416	0,04961	ECHDC1	enoyl CoA hydratase domain containing 1
1,531557997	0,00231	1,52414483	0,00029	ECSCR	endothelial cell-specific chemotaxis regulator
1,483494934	0,03327	1,582274602	0,00003	ECSCR	endothelial cell-specific chemotaxis regulator
1,32592576	0,01269	1,152686347	0,01816	EDA2R	ectodysplasin A2 receptor
1,448942155	0,00275	1,230291345	0,01242	EDEM1	ER degradation enhancer, mannosidase alpha-like 1
0,426022048	0,00692	0,370616752	0	EEA1	early endosome antigen 1
0,622005827	0,03375	0,846158597	0,00495	EEF1B2	eukaryotic translation elongation factor 1 beta 2
0,693034943	0,0009	0,758383773	0,00134	EEF2K	eukaryotic elongation factor-2 kinase
0,68491649	0,02663	0,773782497	0,00221	EEF2K	eukaryotic elongation factor-2 kinase
1,185914499	0,02924	1,101141598	0,02842	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1
1,50733491	0,00231	1,271031689	0,01406	EFCAB4B	EF-hand calcium binding domain 4B
1,413233644	0,01186	1,286989247	0,01209	EFEMP2	EGF containing fibulin-like extracellular matrix protein 2
1,372684431	0,01089	1,209155676	0,04138	EFHD2	EF-hand domain family, member D2
0,73153561	0,00072	0,882091365	0,04714	EFNA1	ephrin-A1
0,573553512	0,00111	0,732550437	0,00103	EFNA3	ephrin-A3
0,692074858	0,00327	0,814507563	0,01253	EFNA4	ephrin-A4
0,749499801	0,01825	0,849684999	0,00512	EFNA5	ephrin-A5
0,616853585	0,00478	0,727490342	0,0065	EFNA5	ephrin-A5
0,52304247	0,00012	0,5913155	0,00008	EFS	embryonal Fyn-associated substrate
0,602486157	0,02148	0,837406488	0,00326	EFTUD1	elongation factor Tu GTP binding domain containing 1
1,945309895	0,02447	1,975201723	0,0002	EGFL6	EGF-like-domain, multiple 6
1,370782805	0,00504	1,29145735	0,00597	EGFLAM	EGF-like, fibronectin type III and laminin G domains
0,706616822	0,00346	0,773782497	0,00335	EGFR	epidermal growth factor receptor
0,477641468	0,00211	0,66296288	0,00002	EGFR	epidermal growth factor receptor
0,698823486	0,04646	0,798298386	0,01838	EGLN1	egl nine homolog 1 (C. elegans)
0,581963267	0,03483	0,743291492	0,00027	EHBP1	EH domain binding protein 1
0,709561678	0,00513	0,751580739	0,00001	EI24	etoposide induced 2.4 mRNA
0,708578698	0,01465	0,840896415	0,00727	EI24	etoposide induced 2.4 mRNA
0,601234624	0,01828	0,613867842	0,00002	EIF1AX	eukaryotic translation initiation factor 1A, X-linked
0,658383461	0,01985	0,717474767	0,00032	EIF3A	eukaryotic translation initiation factor 3, subunit A
0,66158572	0,03729	0,877821798	0,00602	EIF3H	eukaryotic translation initiation factor 3, subunit H
0,657927263	0,02302	0,608361179	0,00004	EIF3J	eukaryotic translation initiation factor 3, subunit J
0,716480825	0,01896	0,745872013	0,00002	EIF3J	eukaryotic translation initiation factor 3, subunit J
0,62546454	0,00975	0,750539549	0,00001	EIF3M	eukaryotic translation initiation factor 3, subunit M
0,78132788	0,02837	0,87539133	0,04225	EIF4A3	eukaryotic translation initiation factor 4A3
0,757858283	0,00562	0,897510051	0,01242	EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2
0,664342907	0,01589	0,699308041	0,00001	EIF5	eukaryotic translation initiation factor 5
0,672217497	0,00547	0,810003474	0,01177	EIF5	eukaryotic translation initiation factor 5
0,559806444	0,01682	0,771105413	0,00001	EIF5B	eukaryotic translation initiation factor 5B
1,698192493	0,02954	1,362258035	0,0206	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)
0,410370804	0,0044	0,546767729	0,00328	ELF5	E74-like factor 5 (ets domain transcription factor)
1,350037985	0,03593	1,30224419	0,00764	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)
1,338855257	0,02262	1,263127262	0,00022	ELL	elongation factor RNA polymerase II
1,893427262	0,00118	1,719512972	0,00004	ELMO1	engulfment and cell motility 1
1,274560627	0,00347	1,275444392	0,00169	ELMO2	engulfment and cell motility 2
0,787307977	0,04779	0,863938187	0,03518	ELMO2	engulfment and cell motility 2
0,643940815	0,01086	0,795536484	0,04724	ELMO3	engulfment and cell motility 3
0,398320048	0,02163	0,541487523	0,00868	ELMOD1	ELMO/CED-12 domain containing 1
0,782954296	0,04796	0,879039561	0,00842	ELMOD2	ELMO/CED-12 domain containing 2
1,212512819	0,0413	1,330529041	0,00005	ELMOD3	ELMO/CED-12 domain containing 3
0,583983697	0,00126	0,756283999	0,00031	ELOVL1	ELOVL fatty acid elongase 1
1,913216316	0,00864	1,361314116	0,00551	ELOVL2	ELOVL fatty acid elongase 2
0,291587342	0,00271	0,441045683	0,00001	ELOVL4	ELOVL fatty acid elongase 4
0,71400199	0,03614	0,695440986	0,00003	ELOVL6	ELOVL fatty acid elongase 6
0,508035071	0,03473	0,636397468	0,00051	ELOVL7	ELOVL fatty acid elongase 7
0,678302164	0,0131	0,774319028	0,00032	ELP2	elongation protein 2 homolog (S. cerevisiae)
1,813780658	0,00471	1,678299274	0,00002	ELTD1	EGF, latrophilin and seven transmembrane domain containing 1
1,459020344	0,00813	1,439931319	0,00118	EMCN	endomucin
1,490710387	0,01642	1,466116757	0,00003	EMILIN2	elastin microfibril interfacer 2
0,522317881	0,00101	0,743291492	0,00258	EML1	echinoderm microtubule associated protein like 1
0,71400199	0,03305	0,869947353	0,02489	EML4	echinoderm microtubule associated protein like 4

0,67877249	0,02739	0,85027416	0,01148	EMP2	epithelial membrane protein 2
1,909242028	0	1,421092043	0,01799	EMR2	egf-like module containing, mucin-like, hormone receptor-like 2
0,52268005	0,01836	0,711038705	0,00061	ENAH	enabled homolog (Drosophila)
0,636397468	0,00278	0,704172113	0,00057	ENAH	enabled homolog (Drosophila)
0,656105627	0,02551	0,795536484	0,0089	ENAH	enabled homolog (Drosophila)
0,680185426	0,00109	0,763129604	0,01193	ENDOD1	endonuclease domain containing 1
0,556710809	0,01035	0,727994774	0,00021	ENDOD1	endonuclease domain containing 1
0,35013908	0,00004	0,519429552	0,00032	ENDOU	endonuclease, polyU-specific
1,630144665	0,0449	1,644900137	0,00062	ENG	endoglin
1,742308384	0,01019	1,593280193	0,00088	ENO2	enolase 2 (gamma, neuronal)
0,586824089	0,00715	0,74277646	0,00069	ENOSF1	enolase superfamily member 1
0,659296807	0,00307	0,773246337	0,00458	ENOSF1	enolase superfamily member 1
1,968368044	0,019	1,663244197	0,00611	ENPEP	glutamyl aminopeptidase (aminopeptidase A)
1,2397077	0,02903	0,8962667	0,03718	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1
2,74156561	0,00044	2,105262309	0,00017	ENPP2	ectonucleotide pyrophosphatase/phosphodiesterase 2
2	0,0036	1,818816504	0,00026	ENPP2	ectonucleotide pyrophosphatase/phosphodiesterase 2
2,128740365	0,00258	1,244011653	0,03175	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative)
0,630251696	0,00011	0,771105413	0,00531	ENSA	endosulfine alpha
0,721964598	0,00784	0,737134609	0,04169	ENSA	endosulfine alpha
0,685391402	0,0043	0,748980467	0,00004	ENSA	endosulfine alpha
2,273633946	0,00103	2,082043195	0,00001	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
1,592176198	0,00028	1,558329159	0,00017	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
2,156960863	0,00443	2,122846418	0,00003	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
1,93053405	0,00257	1,384149716	0,00547	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
0,78132788	0,03528	0,860949188	0,0461	ENY2	enhancer of yellow 2 homolog (Drosophila)
1,473247686	0,00397	1,394743666	0,00427	EOMES	eomesodermin
0,649769531	0,02924	0,768970416	0,00229	EP300	E1A binding protein p300
0,67689314	0,00533	0,833931044	0,00885	EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)
0,640823962	0,01989	0,745872013	0,00221	EPB41L4A-AS1	EPB41L4A antisense RNA 1 (non-protein coding)
0,352818961	0,00422	0,499307333	0,00025	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B
0,355519353	0	0,52595089	0,00001	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B
0,42720487	0,00366	0,532185091	0	EPCAM	epithelial cell adhesion molecule
1,863480859	0,00062	1,582274602	0,00127	EPDR1	ependymin related protein 1 (zebrafish)
1,300440147	0,02009	1,272794935	0,00586	EPHA8	EPH receptor A8
0,508739846	0,02139	0,770571108	0,00647	EPHX2	epoxide hydrolase 2, cytoplasmic
0,373194596	0,00158	0,610473256	0,0003	EPHX3	epoxide hydrolase 3
1,307671349	0,01892	1,316766922	0,00002	EPM2A	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)
0,780786493	0,00776	0,824162085	0,01669	EPN2	epsin 2
0,601234624	0,00037	0,765248385	0,00572	EPN3	epsin 3
0,462011286	0,00002	0,565657231	0	EPN3	epsin 3
1,310393404	0,00779	1,23370717	0,0017	EPOR	erythropoietin receptor
1,276328769	0,00453	1,158292806	0,00679	EPOR	erythropoietin receptor
1,543280175	0,00933	1,547564994	0,00027	EPOR	erythropoietin receptor
0,529609167	0,00041	0,714992493	0,0047	EPPK1	epiplakin 1
0,325335464	0,00004	0,461051559	0,00009	EPPK1	epiplakin 1
0,370103325	0,00058	0,518709968	0,00003	EPPK1	epiplakin 1
0,614719434	0,01353	0,710053679	0,00009	EPPK1	epiplakin 1
0,773782497	0,00531	0,834509281	0,00383	EPS15L1	epidermal growth factor receptor pathway substrate 15-like 1
0,670821112	0,02591	0,801069878	0,00076	EPT1	ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)
1,417157397	0,006	1,202469249	0,0043	EPX	eosinophil peroxidase
1,548638056	0,03833	1,22010051	0,03935	ERAP2	endoplasmic reticulum aminopeptidase 2
0,592546385	0,00143	0,825877665	0,02997	ERBB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
0,485653748	0,003	0,677362489	0,0005	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
0,550570799	0,012	0,74277646	0,00242	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
0,738157203	0,02333	0,788400174	0,00381	ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)
0,592135806	0,03136	0,835087919	0,00149	ERCC5	excision repair cross-complementing rodent repair deficiency, complementation group 5
0,468136124	0,03714	0,491069798	0,00183	EREG	epiregulin
2,008335086	0,00108	1,70054832	0,00001	ERLEC1	endoplasmic reticulum lectin 1
1,93053405	0,00023	1,605474777	0,00022	ERLEC1	endoplasmic reticulum lectin 1
0,720964436	0,02711	0,783497187	0,00067	ERMAP	erythroblast membrane-associated protein (Scianna blood group)
1,787570325	0,00087	1,398616083	0,00066	ERO1LB	ERO1-like beta (S. cerevisiae)
1,262252032	0,04636	1,216722359	0,00501	ERVW-1	endogenous retrovirus group W, member 1
1,509425969	0,01646	1,344434994	0,0143	ESAM	endothelial cell adhesion molecule
0,667111585	0,03849	0,677362489	0,00087	ESCO1	establishment of cohesion 1 homolog 1 (S. cerevisiae)
0,748461493	0,02628	0,859756486	0,0041	ESD	esterase D
0,515484159	0,02106	0,587638164	0,00004	ESF1	ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae)
1,918528239	0,00267	1,456999114	0,00013	ESR1	estrogen receptor 1
0,525222272	0,00175	0,670821112	0,00214	ESRP1	epithelial splicing regulatory protein 1
0,454704126	0,00728	0,60667678	0	ESRP1	epithelial splicing regulatory protein 1
0,627201102	0,00437	0,773782497	0,00017	ESRP2	epithelial splicing regulatory protein 2
0,554016174	0,0037	0,765778999	0,00038	ESRP2	epithelial splicing regulatory protein 2
0,718470088	0,04511	0,782954296	0,00005	ESYT2	extended synaptotagmin-like protein 2
0,566049451	0,02774	0,664803554	0,00465	ESYT3	extended synaptotagmin-like protein 3
0,580754366	0,0082	0,752623374	0,02581	ESYT3	extended synaptotagmin-like protein 3
0,596667872	0,00245	0,755759964	0,00006	ETF1	eukaryotic translation termination factor 1
0,637722196	0,01264	0,668037039	0,00019	ETFDH	electron-transferring-flavoprotein dehydrogenase
0,687294348	0,01317	0,712025098	0,00234	ETFDH	electron-transferring-flavoprotein dehydrogenase
1,411275843	0,01814	1,483494934	0,02516	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
0,784040454	0,04939	0,838568184	0,04807	ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)
0,622437118	0,0309	0,685866644	0,00039	ETV3	ets variant 3
1,360370852	0,00238	1,192508872	0,02715	ETV5	ets variant 5
2,360348687	0,00179	1,649467097	0,00101	EVI2A	ecotropic viral integration site 2A
2,804998501	0,00016	2,396618043	0,00003	EVI2B	ecotropic viral integration site 2B
0,44813335	0,01827	0,726482525	0,00738	EVPL	envoplakin
0,709070018	0,00583	0,773782497	0,00203	EVPLL	envoplakin-like
0,687770909	0,02764	0,70514898	0,00012	EXOC3	exocyst complex component 3
1,642621402	0,00303	1,182631	0,01199	EXOC6	exocyst complex component 6
0,712025098	0,01948	0,732042848	0,00004	EXOSC1	exosome component 1
0,685866644	0,02985	0,835666959	0,00215	EXOSC10	exosome component 10
0,741747467	0,00135	0,738157203	0,01302	EXOSC3	exosome component 3
0,605416542	0,00249	0,825877665	0,01799	EXOSC7	exosome component 7
0,679243142	0,02674	0,798298386	0,00004	EXOSC8	exosome component 8
0,810003474	0,01466	0,882091365	0,00644	EXOSC9	exosome component 9
0,274523203	0,00322	0,412652704	0,00001	EXPH5	exophilin 5
0,391205891	0,01462	0,492774668	0,00006	EXPH5	exophilin 5
0,757333158	0,0217	0,866937564	0,00753	EZR	ezrin
0,804408371	0,04802	0,894404902	0,01681	F11R	F11 receptor
0,765248385	0,0117	0,772175133	0,00052	F12	coagulation factor XII (Hageman factor)

1,511519928	0,01771	1,506290467	0,00011	F13A1	coagulation factor XIII, A1 polypeptide
0,538493188	0,01598	0,737134609	0,01142	F2RL1	coagulation factor II (thrombin) receptor-like 1
0,460412849	0,00106	0,501388218	0	F2RL1	coagulation factor II (thrombin) receptor-like 1
0,678302164	0,03557	0,586824089	0,00158	F3	coagulation factor III (thromboplastin, tissue factor)
1,525201653	0,00015	1,516767545	0,00059	FA2H	fatty acid 2-hydroxylase
4,750238664	0,00117	2,489748471	0,00002	FABP4	fatty acid binding protein 4, adipocyte
0,65747138	0,00214	0,876605721	0,01186	FABP5	fatty acid binding protein 5 (psoriasis-associated)
1,273677475	0,02242	1,151887642	0,01756	FABP7	fatty acid binding protein 7, brain
1,248330549	0,03684	1,305859787	0,00013	FADS1	fatty acid desaturase 1
1,315854525	0,01844	1,164733586	0,04038	FADS3	fatty acid desaturase 3
0,689680461	0,03693	0,899378312	0,04352	FAF1	Fas (TNFRSF6) associated factor 1
0,596254436	0,00914	0,745355193	0,03771	FAF1	Fas (TNFRSF6) associated factor 1
0,428688018	0,00032	0,673616788	0,00059	FAHD1	fumarylacetoacetate hydrolase domain containing 1
1,297738767	0,01231	1,252664439	0,01236	FAHD2A	fumarylacetoacetate hydrolase domain containing 2A
0,677832163	0,01247	0,625898229	0,00011	FAIM	Fas apoptotic inhibitory molecule
1,892115293	0,00037	1,620006947	0,00223	FAIM3	Fas apoptotic inhibitory molecule 3
1,496922987	0,00256	1,423063461	0,00002	FAIM3	Fas apoptotic inhibitory molecule 3
1,646040691	0,00844	1,351910833	0,00628	FAM101B	family with sequence similarity 101, member B
1,341642225	0,02315	1,138394029	0,02778	FAM105A	family with sequence similarity 105, member A
0,67877249	0,01735	0,837406488	0,00069	FAM105B	family with sequence similarity 105, member B
1,822602561	0,00106	1,299539062	0,00675	FAM107B	family with sequence similarity 107, member B
2,515769944	0,01673	1,30224419	0,03018	FAM107B	family with sequence similarity 107, member B
0,651122095	0,04335	0,697371833	0,00013	FAM108B1	family with sequence similarity 108, member B1
0,7944344	0,04678	0,77271055	0,02297	FAM108C1	family with sequence similarity 108, member C1
1,554014538	0,00615	1,344434994	0,00077	FAM110B	family with sequence similarity 110, member B
0,505225723	0,01951	0,613867842	0,00003	FAM110C	family with sequence similarity 110, member C
0,79940583	0,0195	0,86934456	0,00416	FAM111B	family with sequence similarity 111, member B
2,171963713	0,00017	1,729074463	0,00004	FAM113B	family with sequence similarity 113, member B
0,534402996	0,00241	0,689680461	0,00067	FAM114A1	family with sequence similarity 114, member A1
1,342572503	0,03906	1,284315809	0,00396	FAM116B	family with sequence similarity 116, member B
1,770307529	0,00201	1,397646972	0,00106	FAM116B	family with sequence similarity 116, member B
1,563739286	0,00172	1,435944511	0,00001	FAM117A	family with sequence similarity 117, member A
1,528376521	0,03534	1,241427492	0,00235	FAM123A	family with sequence similarity 123A
1,243149669	0,03106	1,221793102	0,00605	FAM124A	family with sequence similarity 124A
1,28877463	0,00873	1,17609125	0,0098	FAM124B	family with sequence similarity 124B
0,656560563	0,04805	0,633317127	0,00013	FAM129A	family with sequence similarity 129, member A
0,749499801	0,03246	0,753667455	0,00132	FAM129A	family with sequence similarity 129, member A
0,74277646	0,00635	0,683967652	0,00003	FAM131A	family with sequence similarity 131, member A
0,538866573	0,0154	0,581963267	0,00006	FAM135A	family with sequence similarity 135, member A
1,226884977	0,0117	1,175276328	0,01199	FAM155B	family with sequence similarity 155, member B
0,523768064	0,00008	0,664803554	0,00005	FAM162A	family with sequence similarity 162, member A
0,452189689	0,00018	0,617709319	0,00002	FAM162A	family with sequence similarity 162, member A
0,434371093	0,00012	0,602903914	0,00002	FAM162A	family with sequence similarity 162, member A
1,807505454	0,00028	1,437936533	0,00262	FAM162B	family with sequence similarity 162, member B
0,61985385	0,00075	0,827596816	0,00638	FAM167A	family with sequence similarity 167, member A
1,329607108	0,00647	1,33422317	0,00033	FAM167B	family with sequence similarity 167, member B
1,80625302	0,00007	1,53581027	0,00019	FAM171A1	family with sequence similarity 171, member A1
0,698823486	0,02506	0,745355193	0,00282	FAM172A	family with sequence similarity 172, member A
0,743806881	0,02781	0,740719899	0,00195	FAM175A	family with sequence similarity 175, member A
0,756808396	0,04562	0,825305409	0,00198	FAM175B	family with sequence similarity 175, member B
1,204137381	0,02692	1,330529041	0,00003	FAM18B2	family with sequence similarity 18, member B2
0,615572207	0,00545	0,628942486	0,00092	FAM190B	family with sequence similarity 190, member B
1,51887169	0,01431	1,575707772	0,01954	FAM198B	family with sequence similarity 198, member B
1,677136369	0,01184	1,434949535	0,00968	FAM198B	family with sequence similarity 198, member B
1,243149669	0,0126	1,156688184	0,01131	FAM19A5	family with sequence similarity 19 (chemokine (C-C motif)-like), member A5
0,753145233	0,00403	0,812252396	0,00065	FAM200B	family with sequence similarity 200, member B
0,671286251	0,00483	0,840896415	0,00755	FAM204A	family with sequence similarity 204, member A
0,672217497	0,01512	0,757333158	0,00047	FAM206A	family with sequence similarity 206, member A
2,022304162	0,00008	1,835279765	0,00001	FAM30A	family with sequence similarity 30, member A
0,665725807	0,00038	0,710053679	0,00006	FAM36A	family with sequence similarity 36, member A
0,498270131	0,00172	0,627201102	0,0004	FAM3B	family with sequence similarity 3, member B
0,52268005	0,00668	0,725476104	0,00825	FAM46B	family with sequence similarity 46, member B
3,879847641	0,00001	2,850075228	0	FAM46C	family with sequence similarity 46, member C
4,141059695	0,00004	3,901421846	0,00008	FAM46C	family with sequence similarity 46, member C
1,483494934	0,00055	1,214194884	0,03277	FAM49A	family with sequence similarity 49, member A
1,859609885	0,01581	1,845484985	0,00047	FAM55C	family with sequence similarity 55, member C
1,356604327	0,01778	1,349102534	0,0001	FAM55C	family with sequence similarity 55, member C
2,177994031	0,00046	1,43097652	0,00669	FAM55C	family with sequence similarity 55, member C
1,29145735	0,02452	1,344434994	0,00039	FAM55D	family with sequence similarity 55, member D
0,391205891	0,00021	0,560583039	0	FAM57A	family with sequence similarity 57, member A
0,53998828	0,0068	0,624598063	0,00004	FAM59A	family with sequence similarity 59, member A
0,534402996	0,00206	0,573553512	0	FAM59A	family with sequence similarity 59, member A
0,602068691	0,02496	0,670821112	0,00041	FAM59A	family with sequence similarity 59, member A
1,911890635	0,00014	1,327765158	0,00384	FAM65B	family with sequence similarity 65, member B
1,994462503	0,01439	1,363202607	0,04475	FAM65B	family with sequence similarity 65, member B
1,805001455	0,00212	1,467133344	0,00097	FAM65C	family with sequence similarity 65, member C
1,497960934	0,00938	1,189207115	0,0233	FAM78A	family with sequence similarity 78, member A
0,516557194	0,00256	0,662044455	0,02843	FAM83B	family with sequence similarity 83, member B
0,328280281	0,00022	0,462011286	0	FAM83C	family with sequence similarity 83, member C
0,484980955	0,00109	0,55632506	0,00025	FAM83C	family with sequence similarity 83, member C
0,577142709	0,0023	0,669891801	0,0006	FAM83G	family with sequence similarity 83, member G
0,517273791	0,02745	0,660669203	0,0003	FAM84A	family with sequence similarity 84, member A
0,577142709	0,00029	0,757858283	0,00092	FAM85A	family with sequence similarity 85, member A
0,63860688	0,01188	0,715984371	0,00021	FAM89A	family with sequence similarity 89, member A
0,707106781	0,02197	0,870550563	0,00068	FAM98A	family with sequence similarity 98, member A
1,366987452	0,00135	1,355664327	0,00276	FAR2	fatty acyl CoA reductase 2
0,819036698	0,04981	0,843815796	0,03562	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)
1,424050196	0,02627	1,351910833	0,00497	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)
0,700763725	0,00363	0,90062598	0,03872	FARP2	FERM, RhoGEF and pleckstrin domain protein 2
1,312211255	0,00145	1,105730653	0,02081	FASLG	Fas ligand (TNF superfamily, member 6)
0,732042848	0,04578	0,840896415	0,00095	FASTKD1	FAST kinase domains 1
0,70759708	0,0291	0,817335328	0,00121	FASTKD2	FAST kinase domains 2
0,718968266	0,00315	0,825305409	0,00486	FASTKD2	FAST kinase domains 2
1,395710764	0,01019	1,479387509	0,00003	FBLN1	fibulin 1
1,481439798	0,0418	1,295940965	0,00002	FBLN7	fibulin 7
1,573524891	0,00068	1,425037614	0,00002	FBP1	fructose-1,6-bisphosphatase 1
1,218410264	0,0316	1,122721422	0,01112	FBXL22	F-box and leucine-rich repeat protein 22
0,717972255	0,0401	0,736113431	0,00108	FBXL3	F-box and leucine-rich repeat protein 3

0,512989073	0,01233	0,62981499	0,00035	FBXL3	F-box and leucine-rich repeat protein 3
2,167451934	0	1,674812975	0,00001	FBXO16	F-box protein 16
0,796088099	0,03415	0,819604608	0,03558	FBXO22	F-box protein 22
1,335148303	0,01144	1,570256237	0,00008	FBXO28	F-box protein 28
0,648869383	0,02775	0,702222438	0,00005	FBXO28	F-box protein 28
0,528142813	0,00495	0,649319301	0	FBXO45	F-box protein 45
0,544498508	0,04382	0,597495602	0,00002	FBXO45	F-box protein 45
0,808320869	0,03004	0,880869374	0,01656	FBXO9	F-box protein 9
0,753145233	0,02796	0,770037174	0,01619	FBXO9	F-box protein 9
0,61985385	0,03318	0,752623374	0,0008	FBXW2	F-box and WD repeat domain containing 2
0,484309095	0,00492	0,625898229	0,00066	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
1,723092319	0,00526	1,355664327	0,01291	FCGR1B	Fc fragment of IgG, high affinity Ib, receptor (CD64)
1,487613762	0,00669	1,677136369	0,00101	FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32)
2,618970846	0,0001	2,156960863	0,00003	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32)
1,688801775	0,00856	1,512567997	0,00176	FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32) (gene/pseudogene)
2,628063254	0,00011	2,15248025	0,00006	FCGR3B	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)
2,006943497	0,00216	1,392811481	0,00079	FCHSD2	FCH and double SH3 domains 2
2,142061646	0,00028	2,344044567	0	FCN1	ficolin (collagen/fibrinogen domain containing) 1
1,991699506	0,00081	1,62113024	0,00035	FCRL2	Fc receptor-like 2
2,009727641	0,00057	1,381274448	0,00025	FCRL2	Fc receptor-like 2
1,778917987	0,00589	1,43296165	0,00232	FCRL3	Fc receptor-like 3
5,126591697	0,00001	3,557835974	0,00002	FCRL5	Fc receptor-like 5
2,883857743	0,00004	2,403272099	0,00012	FCRL5	Fc receptor-like 5
2,960826596	0,00008	3,090842199	0	FCRL5	Fc receptor-like 5
4,559893091	0,00012	4,044608323	0,0001	FCRL5	Fc receptor-like 5
2,718856484	0,00002	1,875142193	0,00002	FCRLA	Fc receptor-like A
4,863517133	0	2,747272467	0,00001	FCRLA	Fc receptor-like A
3,479789411	0,00003	1,80125196	0,00443	FCRLA	Fc receptor-like A
2,125791349	0,00013	1,667862088	0,00016	FCRLB	Fc receptor-like B
0,714992493	0,02982	0,725476104	0,00001	FDFT1	farnesyl-diphosphate farnesyltransferase 1
0,632439771	0,03069	0,733058379	0,00002	FDPS	farnesyl diphosphate synthase
0,824162085	0,0361	0,854409741	0,00859	FECH	ferrochelatase
0,585199321	0,0232	0,731028724	0,00005	FEM1B	fem-1 homolog b (C. elegans)
0,612168196	0,00621	0,668037039	0,02838	FEM1B	fem-1 homolog b (C. elegans)
0,597909898	0,00267	0,66158572	0,00041	FEM1C	fem-1 homolog c (C. elegans)
0,655196702	0,03309	0,829319546	0,01059	FER	fer (fps/fes related) tyrosine kinase
1,962918128	0,00039	2,171963713	0,00003	FER1L4	fer-1-like 4 (C. elegans) pseudogene
0,729510172	0,02979	0,816768991	0,01075	FERMT1	fermitin family member 1
1,77399261	0,00029	1,483494934	0,00089	FERMT3	fermitin family member 3
0,549046407	0,00127	0,722966147	0,0253	FETUB	fetuin B
1,702907415	0,00116	1,338855257	0,00256	FEZ1	fasciculation and elongation protein zeta 1 (zygin I)
1,982059127	0,00451	1,365093718	0,00673	FFAR2	free fatty acid receptor 2
1,320422841	0,0099	1,218410264	0,00292	FFAR3	free fatty acid receptor 3
1,572434584	0,02404	1,436940177	0	FGD2	FYVE, RhoGEF and PH domain containing 2
1,380317353	0,00114	1,144724161	0,02125	FGD3	FYVE, RhoGEF and PH domain containing 3
1,35754498	0,01219	1,125058485	0,04318	FGD5	FYVE, RhoGEF and PH domain containing 5
1,342572503	0,01484	1,232852325	0,02915	FGD5	FYVE, RhoGEF and PH domain containing 5
1,209155676	0,01738	1,194991205	0,01867	FGF18	fibroblast growth factor 18
1,210833084	0,01711	1,100378609	0,04684	FGF4	fibroblast growth factor 4
0,461691155	0,0116	0,744838732	0,02037	FGFBP1	fibroblast growth factor binding protein 1
0,638164384	0,00538	0,778085177	0,01	FGFR2	fibroblast growth factor receptor 2
0,641712949	0,00204	0,735093668	0,02315	FGFR2	fibroblast growth factor receptor 2
1,411275843	0,00162	1,396678532	0,01338	FGL2	fibrinogen-like 2
1,417157397	0,00112	1,243149669	0,00182	FGR	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog
0,71400199	0,03645	0,840313752	0,0029	FH	fumarate hydratase
1,855746953	0,0148	1,630144665	0,00009	FICD	FIC domain containing
0,622005827	0,00046	0,788400174	0,04568	FIGNL1	fidgetin-like 1
0,622868708	0,00694	0,719965659	0,00001	FIP1L1	FIP1 like 1 (S. cerevisiae)
1,372684431	0,01527	1,317679952	0,00759	FKBP10	FK506 binding protein 10, 65 kDa
3,173335373	0,00006	2,905930099	0,00003	FKBP11	FK506 binding protein 11, 19 kDa
3,338037125	0,00065	3,276146791	0,00001	FKBP11	FK506 binding protein 11, 19 kDa
1,413233644	0,04604	1,281647924	0,01335	FKBP11	FK506 binding protein 11, 19 kDa
0,683967652	0,00435	0,738669032	0	FKBP3	FK506 binding protein 3, 25kDa
0,670821112	0,00331	0,836826243	0,02793	FKBPL	FK506 binding protein like
0,22144188	0,01206	0,498270131	0,02591	FLG2	filaggrin family member 2
2,009727641	0,0004	1,631274987	0,00036	FLI1	Friend leukemia virus integration 1
1,22858698	0,04014	1,180174343	0,00024	FLJ30430	hypothetical protein FLJ30430
1,953417058	0,00146	1,677136369	0,0008	FLJ32255	hypothetical LOC643977
1,599920257	0,02805	1,271913007	0,00512	FLJ32255	hypothetical LOC643977
1,204972315	0,01361	1,198309021	0,00328	FLJ33065	hypothetical LOC440952
1,296839555	0,03583	1,316766922	0,00146	FLJ35390	hypothetical LOC255031
1,32408891	0,01507	1,256142381	0,01911	FLJ38109	hypothetical LOC386627
1,35754498	0,01224	1,320422841	0,00008	FLJ39051	hypothetical LOC399972
1,242288282	0,01899	1,25353302	0,00172	FLJ39061	hypothetical protein FLJ39061
2,142061646	0,00537	1,383190629	0,00141	FLJ43663	hypothetical LOC378805
0,680657058	0,003	0,705637922	0,00022	FLJ45482	hypothetical LOC645566
1,41029796	0,00435	1,25092908	0,00196	FLT3	fms-related tyrosine kinase 3
0,581963267	0,00111	0,66296288	0,00064	FLVCR1	feline leukemia virus subgroup C cellular receptor 1
0,615572207	0,00062	0,754712984	0,00817	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2
1,418140036	0,02237	1,326845141	0,00016	FMNL1	formin-like 1
1,514666316	0,02653	1,371733289	0,00268	FMNL1	formin-like 1
1,412254404	0,01031	1,231998073	0,00228	FMNL3	formin-like 3
1,596596773	0,00016	1,329607108	0,00014	FMNL3	formin-like 3
1,994462503	0,00843	1,64832417	0,00034	FMO1	flavin containing monooxygenase 1
1,256142381	0,03572	1,360370852	0	FMO4	flavin containing monooxygenase 4
1,299539062	0,01914	1,203303026	0,02038	FN1	fibronectin 1
1,980685744	0,03826	1,382232207	0,02116	FNDC1	fibronectin type III domain containing 1
1,993080526	0,00147	1,362258035	0,02401	FNDC3A	fibronectin type III domain containing 3A
1,43296165	0,03492	1,583371732	0,00671	FNDC3A	fibronectin type III domain containing 3A
2,335934789	0,02653	1,770307529	0,00085	FNDC3B	fibronectin type III domain containing 3B
1,994462503	0,00001	2,032140286	0	FNDC3B	fibronectin type III domain containing 3B
2,093620564	0,0002	1,848045145	0,00021	FNDC3B	fibronectin type III domain containing 3B
1,909242028	0,00092	1,584469622	0,00019	FNDC3B	fibronectin type III domain containing 3B
1,939923821	0,00013	1,501079098	0,00011	FNDC3B	fibronectin type III domain containing 3B
1,412254404	0,01875	1,299539062	0,00199	FNDC4	fibronectin type III domain containing 4
0,634635443	0,01256	0,782411782	0,00693	FNIP2	folliculin interacting protein 2
0,699792933	0,0123	0,768437591	0,00011	FNTA	farnesyltransferase, CAAX box, alpha
0,610896551	0,01794	0,712025098	0,00333	FNTB	farnesyltransferase, CAAX box, beta

0,757858283	0,00105	0,819604608	0,00374	FNTB	farnesyltransferase, CAAX box, beta
1,70408819	0,00194	1,544350266	0,00001	FOLR2	folate receptor 2 (fetal)
0,582770599	0,00053	0,831045862	0,02559	FOSL2	FOS-like antigen 2
1,572434584	0,01342	1,684125907	0,00536	FOXC1	forkhead box C1
0,661127303	0,0109	0,70759708	0,00122	FOXE1	forkhead box E1 (thyroid transcription factor 2)
0,792234811	0,04771	0,825877665	0,00134	FOXJ3	forkhead box J3
0,388234438	0,00058	0,543744195	0,00008	FOXN1	forkhead box N1
0,580754366	0,00791	0,786217292	0,00142	FOXN3	forkhead box N3
0,477310507	0,00122	0,777546036	0,04134	FOXP2	forkhead box P2
0,427501089	0,00255	0,544876056	0,00003	FOXP2	forkhead box P2
0,440129507	0,03161	0,411795509	0,00004	FOXP2	forkhead box P2
2,323017464	0,00018	1,884262548	0,00016	FPR1	formyl peptide receptor 1
1,561572985	0,00582	1,278099363	0,00274	FPR2	formyl peptide receptor 2
1,392811481	0,00644	1,220946513	0,01535	FPR2	formyl peptide receptor 2
0,709561678	0,0027	0,760489377	0,00001	FRG1	FSHD region gene 1
0,658839976	0,0169	0,806641759	0,02712	FRMD4A	FERM domain containing 4A
0,683967652	0,04336	0,762072415	0,00019	FRMD6	FERM domain containing 6
1,643760375	0,0015	1,262252032	0,01279	FRZB	frizzled-related protein
1,364147835	0,01149	1,557249382	0,00023	FSTL1	follistatin-like 1
1,359428242	0,036	1,254402205	0,00469	FSTL1	follistatin-like 1
1,635804117	0,00841	1,317679952	0,00534	FTH1	ferritin, heavy polypeptide 1
1,402499251	0,00203	1,293248932	0,00013	FTH1P5	ferritin, heavy polypeptide 1 pseudogene 5
1,305859787	0,02965	1,436940177	0,00002	FTL	ferritin, light polypeptide
1,725482689	0,01464	1,8263965	0	FUCA1	fucosidase, alpha-L- 1, tissue
1,59549048	0,00023	1,219255094	0,00974	FUCA2	fucosidase, alpha-L- 2, plasma
0,71400199	0,03379	0,70759708	0,00015	FUNDC1	FUN14 domain containing 1
1,263127262	0,02411	1,209155676	0,00429	FUT6	fucosyltransferase 6 (alpha (1,3) fucosyltransferase)
1,854461093	0,00498	1,629015126	0,00221	FUT8	fucosyltransferase 8 (alpha (1,6) fucosyltransferase)
2,161450804	0,00527	1,741101127	0,00024	FUT8	fucosyltransferase 8 (alpha (1,6) fucosyltransferase)
1,733875127	0,0024	1,377450046	0,02464	FYB	FYN binding protein
1,808758755	0,00319	1,678299274	0,00413	FYB	FYN binding protein
0,611744021	0,00261	0,732042848	0,00002	FYCO1	FYVE and coiled-coil domain containing 1
1,289668251	0,03861	1,340712592	0,00456	FYN	FYN oncogene related to SRC, FGR, YES
0,525586455	0,00325	0,659296807	0,00231	FZD10	frizzled family receptor 10
1,514666316	0,00205	1,463071221	0,00002	FZD4	frizzled family receptor 4
1,888184838	0,00107	1,644900137	0,00308	G0S2	G0/G1switch 2
0,567227742	0,02428	0,739181216	0,00494	G2E3	G2/M-phase specific E3 ubiquitin protein ligase
1,456999114	0,00174	1,264879542	0,00249	G6PC3	glucose 6 phosphatase, catalytic, 3
0,774855931	0,029	0,801069878	0,00475	GABRQ	gamma-aminobutyric acid (GABA) receptor, theta
1,480413298	0,0019	1,408344227	0,00463	GADD45B	growth arrest and DNA-damage-inducible, beta
0,669891801	0,0054	0,717972255	0,00168	GALNT12	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 12 (GalNAc-T12)
1,342572503	0,02563	1,126619228	0,04184	GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2)
0,752623374	0,0411	0,771640088	0,0085	GAPVD1	GTPase activating protein and VPS9 domains 1
0,758383773	0,00491	0,720464874	0	GAR1	GAR1 ribonucleoprotein homolog (yeast)
0,658839976	0,01135	0,817902059	0,00162	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase
0,564873607	0,00658	0,661127303	0,00031	GAS2L1	growth arrest-specific 2 like 1
0,507331273	0,00004	0,663882579	0,00001	GAS2L1	growth arrest-specific 2 like 1
0,51584159	0,00849	0,78024548	0,00189	GAS5	growth arrest-specific 5 (non-protein coding)
1,17772279	0,0373	1,133669413	0,03986	GAS5	growth arrest-specific 5 (non-protein coding)
0,553632292	0,00474	0,568802614	0	GAS7	growth arrest-specific 7
0,710053679	0,02909	0,787307977	0,00338	GAS7	growth arrest-specific 7
0,759962428	0,0349	0,617281303	0	GAS7	growth arrest-specific 7
1,294145654	0,02945	1,139183377	0,02587	GAST	gastrin
0,643048742	0,0016	0,741747467	0,00005	GATAD2A	GATA zinc finger domain containing 2A
0,592546385	0,04923	0,61813763	0,00567	GATM	glycine amidinotransferase (L-arginine:glycine amidinotransferase)
1,411275843	0,01469	1,136029265	0,03193	GBA3	glucosidase, beta, acid 3 (cytosolic)
1,591072968	0,003	1,509425969	0,00018	GBGT1	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
0,294226684	0,00603	0,496546248	0	GBP6	guanylate binding protein family, member 6
0,552482242	0,01368	0,662044455	0,00008	GBP6	guanylate binding protein family, member 6
2,064797071	0,00657	1,325007017	0,00645	GCA	grancalcin, EF-hand calcium binding protein
1,207480591	0,02291	1,110338834	0,01092	GCET2	germinal center expressed transcript 2
1,471206746	0,01981	1,421092043	0,00131	GCHFR	GTP cyclohydrolase I feedback regulator
0,39012274	0,00467	0,647072827	0,03036	GDA	guanine deaminase
1,75199663	0,00055	2,02791896	0,00014	GDF15	growth differentiation factor 15
0,742261785	0,01503	0,768437591	0,00034	GEMIN4	gem (nuclear organelle) associated protein 4
1,383190629	0,01174	1,237990291	0,01343	GFI1	growth factor independent 1 transcription repressor
0,630688704	0,01588	0,70759708	0,00702	GFM1	G elongation factor, mitochondrial 1
0,61429349	0,00367	0,772175133	0,00006	GGCT	gamma-glutamylcyclotransferase
0,492433221	0,00572	0,582366793	0,00098	GGH	gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase)
0,659753955	0,00156	0,801625329	0,01121	GGPS1	geranylgeranyl diphosphate synthase 1
1,447938172	0,01667	1,4054187	0,00029	GGT5	gamma-glutamyltransferase 5
0,52850902	0,00867	0,710053679	0,00113	GGT6	gamma-glutamyltransferase 6
0,76154437	0,02167	0,812252396	0,00164	GHITM	growth hormone inducible transmembrane protein
1,602139755	0,00375	1,382232207	0,00626	GIMAP1	GTPase, IMAP family member 1
1,665551542	0,00557	1,474269217	0,0002	GIMAP4	GTPase, IMAP family member 4
1,74956953	0,00134	1,45195828	0,00002	GIMAP5	GTPase, IMAP family member 5
1,531557997	0,00213	1,468150636	0,00002	GIMAP5	GTPase, IMAP family member 5
1,913216316	0,00087	1,308578071	0,02387	GIMAP6	GTPase, IMAP family member 6
2,134650676	0,00005	1,336074078	0,00608	GIMAP6	GTPase, IMAP family member 6
1,194991205	0,04186	1,204137381	0,00264	GIMAP8	GTPase, IMAP family member 8
0,654289036	0,03012	0,790041312	0,00539	GJA1	gap junction protein, alpha 1, 43kDa
0,39066394	0,00036	0,50557604	0	GJA3	gap junction protein, alpha 3, 46kDa
1,565908593	0,00044	1,325007017	0,00019	GJA4	gap junction protein, alpha 4, 37kDa
1,388955136	0,00489	1,304954948	0,0012	GJA4	gap junction protein, alpha 4, 37kDa
1,351910833	0,01166	1,151089491	0,0178	GJA5	gap junction protein, alpha 5, 40kDa
1,642621402	0,00007	1,353786279	0,01588	GJA5	gap junction protein, alpha 5, 40kDa
0,695923196	0,0114	0,777546036	0,00719	GJB6	gap junction protein, beta 6, 30kDa
1,631274987	0,03122	1,299539062	0,01466	GJC1	gap junction protein, gamma 1, 45kDa
1,271031689	0,0198	1,241427492	0,00754	GJC1	gap junction protein, gamma 1, 45kDa
0,622868708	0,01141	0,623300597	0,00026	GK5	glycerol kinase 5 (putative)
1,378405153	0,00872	1,190856849	0,00168	GLB1	galactosidase, beta 1
1,772763398	0,00487	1,592176198	0,00328	GLCCI1	glucocorticoid induced transcript 1
2,713208655	0,00005	2,130216407	0,00017	GLCCI1	glucocorticoid induced transcript 1
2,911979098	0,00019	1,89605393	0,00329	GLCCI1	glucocorticoid induced transcript 1
2,418311352	0,00001	1,802500925	0,0003	GLDC	glycine dehydrogenase (decarboxylating)
0,748461493	0,01689	0,812252396	0,00116	GLE1	GLE1 RNA export mediator homolog (yeast)
1,441928871	0,00996	1,22603486	0,01885	GLIS2	GLIS family zinc finger 2
0,743806881	0,03569	0,715984371	0,00009	GLMN	glomulin, FKBP associated protein

0,671286251	0,00898	0,845572287	0,00135	GLO1	glyoxalase I
1,186736798	0,03424	1,190031696	0,00337	GLYATL1	glycine-N-acyltransferase-like 1
1,252664439	0,02311	1,176906737	0,00905	GLYR1	glyoxylate reductase 1 homolog (Arabidopsis)
1,500038989	0,00709	1,565908593	0,00014	GMFG	glia maturation factor, gamma
1,442928687	0,00524	1,22858698	0,0036	GMPPB	GDP-mannose pyrophosphorylase B
0,808320869	0,03157	0,877821798	0,00283	GMPS	guanine monphosphate synthetase
1,286097483	0,01262	1,16634937	0,0294	GNA14	guanine nucleotide binding protein (G protein), alpha 14
1,387030969	0,01591	1,22603486	0,00208	GNA14	guanine nucleotide binding protein (G protein), alpha 14
0,704660378	0,03098	0,786762445	0,00278	GNA15	guanine nucleotide binding protein (G protein), alpha 15 (Gq class)
0,575544746	0,00557	0,693515485	0,00962	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3
0,671286251	0,02824	0,755236293	0,00012	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3
1,250062303	0,03634	1,199971382	0,01896	GNAO1	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O
1,322254605	0,02142	1,199139914	0,03306	GNAO1	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O
2,020902893	0,00203	1,399585866	0,00415	GNAS	GNAS complex locus
1,582274602	0,0108	1,241427492	0,0421	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
1,277213759	0,03215	1,342572503	0,00066	GNG11	guanine nucleotide binding protein (G protein), gamma 11
0,625898229	0,0202	0,79940583	0,02012	GNG12	guanine nucleotide binding protein (G protein), gamma 12
1,227735684	0,03698	1,147107024	0,00238	GNG4	guanine nucleotide binding protein (G protein), gamma 4
0,767905135	0,00264	0,835666959	0,00085	GNG5	guanine nucleotide binding protein (G protein), gamma 5
2,061936638	0,00016	1,921189728	0,00014	GNG7	guanine nucleotide binding protein (G protein), gamma 7
1,659789171	0,00128	1,408344227	0,00041	GNG7	guanine nucleotide binding protein (G protein), gamma 7
1,325007017	0,03928	1,185914499	0,00482	GNL1	guanine nucleotide binding protein-like 1
0,5	0,01179	0,671751713	0	GNL2	guanine nucleotide binding protein-like 2 (nucleolar)
0,711531731	0,01408	0,843815796	0,01032	GNL3	guanine nucleotide binding protein-like 3 (nucleolar)
1,650610817	0,00641	1,461044379	0,00072	GNLY	granulysin
1,721898377	0,00134	1,606587994	0,00001	GNLY	granulysin
0,78024548	0,00453	0,839149637	0,00808	GNRH1	gonadotropin-releasing hormone 1 (luteinizing-releasing hormone)
0,637722196	0,0438	0,795536484	0,00539	GOLGA2	golgin A2
0,662503509	0,03648	0,750539549	0,00106	GOLGA4	golgin A4
1,42800398	0,04729	1,237132479	0,00188	GOLPH3L	golgi phosphoprotein 3-like
1,216722359	0,01873	1,16634937	0,01532	GOSR2	golgi SNAP receptor complex member 2
0,615572207	0,02458	0,773782497	0,00159	GPATCH4	G patch domain containing 4
0,754712984	0,03447	0,858565436	0,00783	GPBP1L1	GC-rich promoter binding protein 1-like 1
0,700763725	0,01506	0,827023368	0,02902	GPBP1L1	GC-rich promoter binding protein 1-like 1
0,539240216	0,01537	0,79940583	0,00066	GPC1	glypican 1
1,967004148	0,00568	1,444930398	0,00143	GPC6	glypican 6
1,332374825	0,00824	1,222640278	0,00438	GPER	G protein-coupled estrogen receptor 1
1,194163187	0,03769	1,20664392	0,00334	GPHA2	glycoprotein hormone alpha 2
0,739693755	0,03983	0,846158597	0,00888	GPR1	G protein-coupled receptor 1
1,662091723	0,02483	1,834008086	0,00114	GPR110	G protein-coupled receptor 110
1,450952208	0,00438	1,265756594	0,00055	GPR114	G protein-coupled receptor 114
0,559030925	0,00221	0,740206649	0,03965	GPR115	G protein-coupled receptor 115
0,523768064	0,01933	0,528875482	0,00001	GPR115	G protein-coupled receptor 115
1,624504793	0,00989	1,417157397	0,00721	GPR116	G protein-coupled receptor 116
1,28788163	0,01491	1,440929749	0,00001	GPR12	G protein-coupled receptor 12
0,683020128	0,02062	0,643048742	0,00001	GPR126	G protein-coupled receptor 126
1,256142381	0,02018	1,116512962	0,01385	GPR132	G protein-coupled receptor 132
1,692317193	0,01139	1,155085785	0,03202	GPR133	G protein-coupled receptor 133
2,850075228	0,00028	1,582274602	0,00585	GPR160	G protein-coupled receptor 160
1,372684431	0,00197	1,199971382	0,00479	GPR173	G protein-coupled receptor 173
1,271031689	0,01789	1,231144413	0,00011	GPR182	G protein-coupled receptor 182
1,915870436	0,00266	1,350974085	0,0474	GPR183	G protein-coupled receptor 183
1,21335356	0,0231	1,198309021	0,00539	GPR26	G protein-coupled receptor 26
1,448942155	0,00913	1,221793102	0,01255	GPR4	G protein-coupled receptor 4
0,571569168	0,01561	0,774319028	0,01672	GPR56	G protein-coupled receptor 56
1,993080526	0,00002	1,515716567	0,00138	GPR65	G protein-coupled receptor 65
0,604158922	0,00582	0,726986259	0,0058	GPR87	G protein-coupled receptor 87
1,32408891	0,03658	1,20163605	0,00368	GPR97	G protein-coupled receptor 97
1,423063461	0,00747	1,360370852	0,00127	GPRC5B	G protein-coupled receptor, family C, group 5, member B
0,653835674	0,00236	0,852044095	0,03365	GPRIN2	G protein regulated inducer of neurite outgrowth 2
0,509798841	0,00133	0,628942486	0,00224	GPSM2	G-protein signaling modulator 2
0,460093825	0,00484	0,686342216	0,00002	GPSM2	G-protein signaling modulator 2
0,731028724	0,01664	0,691595315	0,00001	GPSM2	G-protein signaling modulator 2
2,011121161	0,00058	1,880348405	0,00001	GPSM3	G-protein signaling modulator 3
1,370782805	0,01322	1,313121125	0,00616	GPSM3	G-protein signaling modulator 3
1,50733491	0,0161	1,28788163	0,0113	GPX7	glutathione peroxidase 7
1,556170353	0,00279	1,486582984	0,00002	GRAMD1A	GRAM domain containing 1A
1,446934886	0,01256	1,243149669	0,00397	GRAMD1A	GRAM domain containing 1A
1,311302014	0,04146	1,325007017	0,00006	GRAMD1B	GRAM domain containing 1B
0,537747195	0,0449	0,659296807	0,0132	GRAMD1C	GRAM domain containing 1C
0,44844408	0,01523	0,620713746	0,02634	GRHL1	grainyhead-like 1 (Drosophila)
0,568014632	0,01557	0,626332219	0,00069	GRHL1	grainyhead-like 1 (Drosophila)
0,637722196	0,00177	0,774319028	0,00101	GRHL2	grainyhead-like 2 (Drosophila)
0,483303049	0,00062	0,550952558	0,00003	GRHL3	grainyhead-like 3 (Drosophila)
1,263127262	0,00843	1,17772279	0,00183	GRIP2	glutamate receptor interacting protein 2
1,433955248	0,0067	1,262252032	0,00151	GRK5	G protein-coupled receptor kinase 5
0,672217497	0,018	0,791685866	0,00299	GRPEL1	GrpE-like 1, mitochondrial (E. coli)
0,619424349	0,0069	0,681129017	0,00005	GRTP1	growth hormone regulated TBC protein 1
0,566049451	0,00063	0,747424624	0,0017	GSDMC	gasdermin C
0,721964598	0,04335	0,733566672	0,00002	GSK3B	glycogen synthase kinase 3 beta
0,649319301	0,03907	0,801069878	0,0221	GSK3B	glycogen synthase kinase 3 beta
1,546492675	0,02288	1,25353302	0,02279	GSPT2	G1 to S phase transition 2
0,673616788	0,00046	0,883927531	0,03629	GSTA3	glutathione S-transferase alpha 3
0,418413121	0,00012	0,600401714	0,00013	GSTA4	glutathione S-transferase alpha 4
0,375009747	0,00304	0,531079593	0,00005	GSTA4	glutathione S-transferase alpha 4
1,252664439	0,03603	1,204972315	0,04914	GSTM5	glutathione S-transferase mu 5
0,724973416	0,00591	0,85086373	0,01326	GSTO2	glutathione S-transferase omega 2
1,398616083	0,02233	1,286989247	0,00344	GTDC1	glycosyltransferase-like domain containing 1
0,712025098	0,03278	0,758383773	0,00606	GTF2A2	general transcription factor IIA, 2, 12kDa
0,605416542	0,00663	0,770571108	0,00303	GTF2F2	general transcription factor IIF, polypeptide 2, 30kDa
0,550952558	0,02064	0,806082831	0,00841	GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa
0,656105627	0,00134	0,833353207	0,00153	GTF2H5	general transcription factor IIH, polypeptide 5
0,790041312	0,04604	0,868140228	0,00831	GTF2IRD1	GTF2I repeat domain containing 1
0,623732786	0,00345	0,744838732	0,00033	GTF3C4	general transcription factor IIIC, polypeptide 4, 90kDa
0,732550437	0,00804	0,718470088	0	GTF3C6	general transcription factor IIIC, polypeptide 6, alpha 35kDa
0,687770909	0,02378	0,804408371	0,00384	GTPBP10	GTP-binding protein 10 (putative)
0,67877249	0,03534	0,762072415	0,00115	GTPBP4	GTP binding protein 4
1,639209215	0,00037	1,321338406	0,00986	GTSF1	gametocyte specific factor 1

1,358486285	0,01413	1,202469249	0,00121	GTSF1L	gametocyte specific factor 1-like
1,919858522	0,01112	1,372684431	0,00611	GUCY1B3	guanylate cyclase 1, soluble, beta 3
1,56265576	0,00108	1,387992719	0,0048	GUCY1B3	guanylate cyclase 1, soluble, beta 3
0,716480825	0,03493	0,721464343	0,00475	GUF1	GUF1 GTPase homolog (S. cerevisiae)
0,525222272	0,00105	0,71946679	0	GUF1	GUF1 GTPase homolog (S. cerevisiae)
1,650610817	0,02613	2,064797071	0,00038	GUSBP11	glucuronidase, beta pseudogene 11
1,71356391	0,00005	1,516767545	0,00008	GVINP1	GTPase, very large interferon inducible pseudogene 1
1,830198336	0,00893	1,51887169	0,01163	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
1,501079098	0,00112	1,155085785	0,02117	GZMH	granzyme H (cathepsin G-like 2, protein h-CCPX)
1,977941833	0,00008	1,512567997	0,01183	GZMK	granzyme K (granzyme 3; tryptase II)
0,806082831	0,01712	0,831045862	0,0022	H2AFY	H2A histone family, member Y
0,666187413	0,01117	0,707106781	0,00005	H3F3B	H3 histone, family 3B (H3.3B)
0,694477568	0,00138	0,831045862	0,02123	H3F3B	H3 histone, family 3B (H3.3B)
1,453972517	0,01094	1,458009379	0	H6PD	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
0,77916458	0,02256	0,868140228	0,01069	HACL1	2-hydroxyacyl-CoA lyase 1
1,38991822	0,01784	1,312211255	0,00003	HAPLN3	hyaluronan and proteoglycan link protein 3
0,76684133	0,01612	0,688725023	0,00001	HAUS2	HAUS augmin-like complex, subunit 2
1,417157397	0,00206	1,217566019	0,00619	HAVCR2	hepatitis A virus cellular receptor 2
1,2397077	0,01668	1,184271612	0,00063	HBBP1	hemoglobin, beta pseudogene 1
1,62113024	0,03255	1,399585866	0,00936	HBD	hemoglobin, delta
0,728499557	0,01845	0,771105413	0,00607	HCG18	HLA complex group 18 (non-protein coding)
1,830198336	0,00049	1,760518027	0,00002	HCK	hemopoietic cell kinase
2,211461307	0,00005	2,09216988	0,00001	HCLS1	hematopoietic cell-specific Lyn substrate 1
1,418140036	0,00958	1,282536603	0,00275	HCST	hematopoietic cell signal transducer
1,232852325	0,03676	1,198309021	0,00156	HDAC6	histone deacetylase 6
2,182527754	0,00378	1,366040257	0,00163	HDAC9	histone deacetylase 9
0,675018993	0,00309	0,867538687	0,00229	HDDC2	HD domain containing 2
0,595841287	0,00644	0,76101669	0,00119	HDDC2	HD domain containing 2
0,753145233	0,00574	0,767373048	0,00218	HEATR1	HEAT repeat containing 1
0,722966147	0,00266	0,717474767	0,00007	HEATR1	HEAT repeat containing 1
0,654289036	0,00019	0,786762445	0,00382	HEBP2	heme binding protein 2
0,609627547	0,00254	0,784040454	0,00261	HECA	headcase homolog (Drosophila)
0,375009747	0,02136	0,61301743	0,00373	HECTD1	HECT domain containing 1
0,597081594	0,00426	0,715984371	0,0031	HECTD1	HECT domain containing 1
0,592135806	0,00955	0,732042848	0,00279	HECTD1	HECT domain containing 1
0,503128912	0,00075	0,556710809	0,00005	HECTD1	HECT domain containing 1
1,374588696	0,02499	1,28788163	0,00291	HECW1	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1
1,488645255	0,00743	1,265756594	0,00636	HENMT1	HEN1 methyltransferase homolog 1 (Arabidopsis)
1,744725412	0,01375	1,237132479	0,02993	HEPH	hephaestin
2,156960863	0,00009	1,802500925	0,00015	HERPUD1	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
0,60583633	0,00145	0,796640096	0,0096	HES5	hairy and enhancer of split 5 (Drosophila)
1,244874235	0,0257	1,314031627	0,00031	HEXDC	hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing
0,755759964	0,00536	0,791137301	0,00052	HEXIM1	hexamethylene bis-acetamide inducible 1
1,487613762	0,01406	1,208317843	0,02292	HEY2	hairy/enhancer-of-split related with YRPW motif 2
1,43296165	0,00725	1,383190629	0,00054	HEY2	hairy/enhancer-of-split related with YRPW motif 2
1,48246701	0,00134	1,161508732	0,04335	HEYL	hairy/enhancer-of-split related with YRPW motif-like
1,424050196	0,00264	1,17772279	0,00833	HFE	hemochromatosis
1,207480591	0,03761	1,180992661	0,01034	HFE	hemochromatosis
1,445932295	0,00438	1,240567298	0,00574	HFE	hemochromatosis
1,313121125	0,04207	1,204137381	0,00256	HFE	hemochromatosis
1,850608856	0,00172	1,312211255	0,00113	HHEX	hematopoietically expressed homeobox
1,811267966	0,00028	1,345367209	0,0023	HHEX	hematopoietically expressed homeobox
0,55632506	0,00419	0,712025098	0,0026	HIBCH	3-hydroxyisobutyryl-CoA hydrolase
0,613867842	0,00876	0,783497187	0,00036	HIBCH	3-hydroxyisobutyryl-CoA hydrolase
1,513616793	0,03023	1,266634254	0,00371	HIC1	hypermethylated in cancer 1
0,562919293	0,00933	0,784040454	0,00083	HIF1AN	hypoxia inducible factor 1, alpha subunit inhibitor
1,349102534	0,01201	1,335148303	0,00309	HIF3A	hypoxia inducible factor 3, alpha subunit
0,776468875	0,00452	0,820741609	0,00816	HINT1	histidine triad nucleotide binding protein 1
0,763129604	0,00603	0,838568184	0,01373	HINT1	histidine triad nucleotide binding protein 1
0,826450318	0,02947	0,855595026	0,00805	HINT1	histidine triad nucleotide binding protein 1
0,60583633	0,00373	0,522317881	0,0001	HINT3	histidine triad nucleotide binding protein 3
0,797192477	0,02119	0,798851916	0,01623	HIRA	HIR histone cell cycle regulation defective homolog A (S. cerevisiae)
0,628071191	0,02116	0,87175824	0,04328	HK1	hexokinase 1
1,489677463	0,00337	1,374588696	0,00018	HLA-DMB	major histocompatibility complex, class II, DM beta
1,491744027	0,00141	1,293248932	0,0011	HLA-DOA	major histocompatibility complex, class II, DO alpha
2,814736751	0,00001	2,535025044	0	HLA-DOB	major histocompatibility complex, class II, DO beta
0,733566672	0,02735	0,810003474	0,01307	HLA-DQB2	major histocompatibility complex, class II, DQ beta 2
1,381274448	0,00654	1,285206337	0,00361	HLA-F	major histocompatibility complex, class I, F
0,413225159	0,00127	0,538493188	0,00104	HLF	hepatic leukemia factor
0,432568345	0,00036	0,580351957	0,00028	HLF	hepatic leukemia factor
0,400812665	0,00007	0,551334582	0,00016	HLF	hepatic leukemia factor
1,486582984	0,00109	1,332374825	0,00023	HLX	H2.0-like homeobox
0,396941965	0,00207	0,528142813	0,00004	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase
0,43951978	0,01473	0,552865327	0	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase
0,793883931	0,03284	0,864537231	0,01301	HMGN1	high mobility group nucleosome binding domain 1
1,516767545	0,00927	1,417157397	0,00171	HMHA1	histocompatibility (minor) HA-1
0,698823486	0,00284	0,77271055	0,00007	HN1	hematological and neurological expressed 1
0,686342216	0,02519	0,872362706	0,02468	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1
0,608361179	0,01718	0,833353207	0,01021	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3
0,712025098	0,04278	0,799960128	0,00955	HNRNPH3	heterogeneous nuclear ribonucleoprotein H3 (2H9)
0,665725807	0,00848	0,857376037	0,01394	HNRNPM	heterogeneous nuclear ribonucleoprotein M
0,673616788	0,0292	0,65747138	0,00241	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
0,579146403	0,00389	0,752623374	0,00463	HNRNPU-AS1	HNRNPU antisense RNA 1 (non-protein coding)
0,72597914	0,02584	0,828744904	0,00325	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like
0,576742803	0,02357	0,787853886	0,00171	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like
0,680185426	0,00526	0,814507563	0,00227	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like
0,586417475	0,03168	0,698339266	0,00003	HOMER1	homer homolog 1 (Drosophila)
0,509445598	0,0047	0,667111585	0,00338	HOMER2	homer homolog 2 (Drosophila)
0,517991382	0,00402	0,586011142	0,00005	HOOK1	hook homolog 1 (Drosophila)
0,463294031	0,01182	0,581560021	0,00004	HOOK1	hook homolog 1 (Drosophila)
0,526315577	0,00285	0,820172911	0,01272	HOOK2	hook homolog 2 (Drosophila)
0,631126016	0,00607	0,764718139	0,00154	HOPX	HOP homeobox
1,261377409	0,00692	1,243149669	0,00092	HOXA3	homeobox A3
1,707635429	0,00003	1,320422841	0,00157	HOXB2	homeobox B2
1,505246747	0,01872	1,285206337	0,00063	HOXB3	homeobox B3
1,32408891	0,02238	1,312211255	0,00033	HOXB7	homeobox B7
1,218410264	0,04746	1,374588696	0	HOXB7	homeobox B7
0,357992185	0,00123	0,508387337	0,00148	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)

0,3972172	0,00156	0,557483109	0,00099	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)
0,396666922	0,00288	0,508387337	0,00085	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)
0,369078601	0,00008	0,540362701	0,00604	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)
0,735603373	0,01435	0,823591017	0,00465	HPS4	Hermansky-Pudlak syndrome 4
0,618995145	0,02094	0,61813763	0,0001	HPSE	heparanase
0,615572207	0,00101	0,796088099	0,00378	HR	hairless homolog (mouse)
0,636397468	0,01081	0,554016174	0,00001	HRASLS	HRAS-like suppressor
0,613867842	0,00627	0,757858283	0,02464	HRSP12	heat-responsive protein 12
1,444930398	0,00751	1,240567298	0,01236	HS3ST2	heparan sulfate (glucosamine) 3-O-sulfotransferase 2
1,481439798	0,00716	1,178539408	0,04084	HS3ST4	heparan sulfate (glucosamine) 3-O-sulfotransferase 4
0,412652704	0,00074	0,7031966	0,02847	HS3ST6	heparan sulfate (glucosamine) 3-O-sulfotransferase 6
0,699308041	0,01109	0,803850991	0,00018	HSBP1	heat shock factor binding protein 1
1,80000386	0,00487	1,612165663	0,0003	HSD11B1	hydroxysteroid (11-beta) dehydrogenase 1
0,793883931	0,03415	0,844400887	0,00539	HSD11B2	hydroxysteroid (11-beta) dehydrogenase 2
1,673652485	0,02043	1,307671349	0,00968	HSD17B11	hydroxysteroid (17-beta) dehydrogenase 11
0,67689314	0,02327	0,847332435	0,01739	HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4
0,688725023	0,00169	0,77271055	0,00015	HSDL1	hydroxysteroid dehydrogenase like 1
0,777546036	0,03769	0,78024548	0,00605	HSF2	heat shock transcription factor 2
1,232852325	0,04616	1,112650121	0,03274	HSF5	heat shock transcription factor family member 5
2,097978655	0,00008	1,797510253	0,00006	HSH2D	hematopoietic SH2 domain containing
0,635515845	0,01551	0,898755127	0,03483	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1
2,458877735	0,00048	1,564823563	0,00875	HSPA13	heat shock protein 70kDa family, member 13
3,394031607	0,00004	1,990319444	0,00087	HSPA13	heat shock protein 70kDa family, member 13
0,632439771	0,01179	0,68491649	0	HSPA14	heat shock 70kDa protein 14
0,592135806	0,00128	0,737134609	0,00274	HSPA2	heat shock 70kDa protein 2
0,527776859	0,00692	0,616853585	0,00102	HSPA4L	heat shock 70kDa protein 4-like
0,551334582	0,00089	0,5913155	0,00006	HSPB8	heat shock 22kDa protein 8
0,746389192	0,04494	0,832775771	0,00021	HSPD1	heat shock 60kDa protein 1 (chaperonin)
0,754712984	0,02701	0,795536484	0,00052	HSPE1	heat shock 10kDa protein 1 (chaperonin 10)
0,555554364	0,00518	0,794985251	0,01559	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa
0,492433221	0,0001	0,711531731	0,00014	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa
0,593779833	0,00449	0,733566672	0,00109	HTATSF1	HIV-1 Tat specific factor 1
0,654289036	0,03385	0,734584317	0	HTATSF1	HIV-1 Tat specific factor 1
1,30224419	0,0342	1,31494276	0,00009	HTRA3	HtrA serine peptidase 3
1,347233577	0,0025	1,244874235	0,00658	HYI	hydroxypyruvate isomerase (putative)
0,754712984	0,03105	0,819036698	0,00317	HYLS1	hydrolethalus syndrome 1
0,599154511	0,00175	0,746906729	0,00955	IAH1	isoamyl acetate-hydrolyzing esterase 1 homolog (S. cerevisiae)
0,660669203	0,02791	0,786762445	0,00033	IARS2	isoleucyl-tRNA synthetase 2, mitochondrial
1,278099363	0,02127	1,215036792	0,00372	ICA1L	islet cell autoantigen 1,69kDa-like
1,469168633	0,01149	1,512567997	0,00007	ICAM1	intercellular adhesion molecule 1
2,217601287	0,0122	2,326240083	0	ICAM2	intercellular adhesion molecule 2
2,199232299	0,0081	2,26891097	0	ICAM2	intercellular adhesion molecule 2
2,229932437	0,00145	2,176484883	0	ICAM3	intercellular adhesion molecule 3
1,545421099	0,00064	1,270150983	0,00068	ICAM4	intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)
0,573553512	0,01719	0,683967652	0,00008	ICK	intestinal cell (MAK-like) kinase
0,763129604	0,01705	0,791137301	0,00136	ICT1	immature colon carcinoma transcript 1
0,656560563	0,01886	0,848507902	0,01852	IDH3B	isocitrate dehydrogenase 3 (NAD+) beta
0,716977624	0,01749	0,765778999	0,00054	IDI1	isopentenyl-diphosphate delta isomerase 1
0,675018993	0,01048	0,733566672	0,00008	IDI1	isopentenyl-diphosphate delta isomerase 1
0,771640088	0,01444	0,759962428	0,00015	IER5	immediate early response 5
1,53261996	0,0032	1,399585866	0,00064	IFFO1	intermediate filament family orphan 1
0,340800652	0,0001	0,573553512	0	IFFO2	intermediate filament family orphan 2
0,425726854	0,01889	0,654289036	0,03753	IFI27	interferon, alpha-inducible protein 27
1,53261996	0,01371	1,663244197	0,00003	IFI30	interferon, gamma-inducible protein 30
1,365093718	0,04271	1,110338834	0,02028	IFIT5	interferon-induced protein with tetratricopeptide repeats 5
1,299539062	0,02631	1,191682575	0,01531	IFITM1	interferon induced transmembrane protein 1 (9-27)
1,240567298	0,02203	1,102669163	0,02128	IFNA1	interferon, alpha 1
1,976571303	0,00017	1,634670657	0,00005	IFNAR2	interferon (alpha, beta and omega) receptor 2
2,131693472	0,00001	1,6724928	0,00003	IFNAR2	interferon (alpha, beta and omega) receptor 2
0,654742712	0,0215	0,714992493	0,0017	IFRD1	interferon-related developmental regulator 1
0,575544746	0,03054	0,680185426	0,00037	IFT57	intraflagellar transport 57 homolog (Chlamydomonas)
0,579146403	0,02668	0,741747467	0,00007	IGF1R	insulin-like growth factor 1 receptor
1,207480591	0,02384	1,144724161	0,02262	IGF2BP1	insulin-like growth factor 2 mRNA binding protein 1
1,495885758	0,0109	1,510472586	0,00029	IGFBP5	insulin-like growth factor binding protein 5
1,543280175	0,00661	1,544350266	0,00585	IGFBP5	insulin-like growth factor binding protein 5
1,408344227	0,0369	1,377450046	0,01091	IGFBP7	insulin-like growth factor binding protein 7
1,554014538	0,0014	1,32592576	0,0012	IGFBP7	insulin-like growth factor binding protein 7
1,386069886	0,03006	1,462057448	0,00003	IGFLR1	IGF-like family receptor 1
1,383190629	0,00411	1,212512819	0,0037	IGH@	immunoglobulin heavy locus
2,070529848	0,00336	1,972465409	0,00007	IGHA1	immunoglobulin heavy constant alpha 1
1,418140036	0,02555	1,337000495	0,00397	IGHA1	immunoglobulin heavy constant alpha 1
4,036206535	0,00655	5,176582618	0,00005	IGHD	immunoglobulin heavy constant delta
1,527317498	0,02178	1,53261996	0,00154	IGHE	immunoglobulin heavy constant epsilon
1,498999602	0,02726	1,504203751	0,00031	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
1,898684242	0,04226	1,995845438	0,00049	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
3,30351066	0,00135	4,362030931	0,00001	IGHM	immunoglobulin heavy constant mu
2,278366754	0,00008	1,549711862	0,01138	IGHM	immunoglobulin heavy constant mu
3,678200185	0,0136	5,219819791	0,00004	IGHM	immunoglobulin heavy constant mu
1,927859615	0,00671	1,393777239	0,00322	IGHV1-69	immunoglobulin heavy variable 1-69
2,11696879	0,00129	2,0363704	0,00949	IGJ	immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides
1,437936533	0,02807	1,584469622	0,00529	IGKC	immunoglobulin kappa constant
2,399942765	0,01463	3,487032958	0,00011	IGKC	immunoglobulin kappa constant
3,991690876	0,00042	4,158317741	0,00009	IGKC	immunoglobulin kappa constant
2,25792881	0,00232	2,526254524	0,00002	IGKV1-5	immunoglobulin kappa variable 1-5
3,175535724	0,02172	5,521269414	0,00003	IGKV1-5	immunoglobulin kappa variable 1-5
2,615342697	0,00835	2,620786808	0,00006	IGKV1D-8	immunoglobulin kappa variable 1D-8
3,443796753	0,03276	5,031539887	0,00005	IGKV4-1	immunoglobulin kappa variable 4-1
3,655325801	0,00506	4,556733509	0,00006	IGL@	immunoglobulin lambda locus
2,624422509	0,00586	1,945309895	0,00904	IGL@	immunoglobulin lambda locus
2,928171392	0,00016	3,06523992	0,00011	IGL@	immunoglobulin lambda locus
2,854029011	0,00024	2,822551687	0,0001	IGLC1	immunoglobulin lambda constant 1 (Mcg marker)
2,928171392	0,01664	4,783279187	0,00002	IGLJ3	immunoglobulin lambda joining 3
2,911979098	0,01308	4,681594566	0,00002	IGLJ3	immunoglobulin lambda joining 3
1,367935304	0,00754	1,30224419	0,00226	IGLJ3	immunoglobulin lambda joining 3
1,698192493	0,00429	2,286276671	0,00019	IGLL3P	immunoglobulin lambda-like polypeptide 3, pseudogene
3,195407666	0,00558	4,678350656	0,00001	IGLV1-40	immunoglobulin lambda variable 1-40
1,483494934	0,02226	1,422077411	0,00314	IGLV1-44	immunoglobulin lambda variable 1-44
2,936301272	0,00364	3,331103084	0,00025	IGLV3-19	immunoglobulin lambda variable 3-19

2,515769944	0,00114	2,061936638	0,00008	IGLV4-60	immunoglobulin lambda variable 4-60
0,774319028	0,03266	0,759435845	0,00005	IGSF3	immunoglobulin superfamily, member 3
1,281647924	0,01985	1,346300069	0,00725	IGSF6	immunoglobulin superfamily, member 6
0,582770599	0,01616	0,709070018	0,00173	IGSF9	immunoglobulin superfamily, member 9
0,710053679	0,03942	0,85086373	0,00063	IK	IK cytokine, down-regulator of HLA II
1,519924856	0,00469	1,255271991	0,04938	IKBIP	IKBKB interacting protein
1,559409685	0,00121	1,260503392	0,0349	IKZF1	IKAROS family zinc finger 1 (Ikaros)
1,392811481	0,03283	1,531557997	0,00008	IKZF1	IKAROS family zinc finger 1 (Ikaros)
1,50733491	0,00731	1,402499251	0,00433	IKZF1	IKAROS family zinc finger 1 (Ikaros)
2,01670491	0,00001	1,561572985	0,00007	IKZF1	IKAROS family zinc finger 1 (Ikaros)
2,983488053	0,00013	2,063366359	0,00011	IKZF1	IKAROS family zinc finger 1 (Ikaros)
1,89736863	0,00005	1,583371732	0,00001	IKZF3	IKAROS family zinc finger 3 (Aiolos)
2,019502595	0,00006	1,322254605	0,00418	IKZF3	IKAROS family zinc finger 3 (Aiolos)
1,275444392	0,01007	1,132098902	0,038	IL10	interleukin 10
2,966989868	0,00001	2,615342697	0	IL10RA	interleukin 10 receptor, alpha
1,48246701	0,00091	1,305859787	0,00285	IL12RB1	interleukin 12 receptor, beta 1
1,300440147	0,01005	1,191682575	0,02345	IL12RB1	interleukin 12 receptor, beta 1
0,643494624	0,01949	0,76684133	0,0001	IL13RA1	interleukin 13 receptor, alpha 1
0,585199321	0,00371	0,726482525	0,00567	IL13RA1	interleukin 13 receptor, alpha 1
1,264003098	0,01201	1,160703914	0,00766	IL16	interleukin 16
2,572194967	0,00003	1,854461093	0,00002	IL16	interleukin 16
1,445932295	0,00364	1,29145735	0,00807	IL16	interleukin 16
1,313121125	0,01927	1,235418637	0,00097	IL17RB	interleukin 17 receptor B
0,7031966	0,0005	0,840896415	0,04222	IL17RC	interleukin 17 receptor C
0,453130969	0,0042	0,687294348	0,00363	IL18	interleukin 18 (interferon-gamma-inducing factor)
1,392811481	0,02938	1,336074078	0,00174	IL18BP	interleukin 18 binding protein
1,227735684	0,01244	1,180992661	0,02006	IL18BP	interleukin 18 binding protein
1,477338064	0,00109	1,179356592	0,0078	IL18RAP	interleukin 18 receptor accessory protein
1,662091723	0,00025	1,478362431	0,03176	IL19	interleukin 19
1,72428709	0,0004	1,537940831	0,02399	IL1B	interleukin 1, beta
1,783857039	0,0002	1,543280175	0,02056	IL1B	interleukin 1, beta
1,212512819	0,0128	1,185092771	0,00858	IL1RL1	interleukin 1 receptor-like 1
1,215879283	0,03089	1,106497353	0,02397	IL1RL1	interleukin 1 receptor-like 1
0,656560563	0,00438	0,65747138	0,00007	IL1RL2	interleukin 1 receptor-like 2
0,483638165	0,00417	0,852044095	0,01935	IL20RB	interleukin 20 receptor beta
1,416175438	0,00285	1,163120042	0,00769	IL21R	interleukin 21 receptor
1,665551542	0,00006	1,401527449	0,00003	IL21R	interleukin 21 receptor
1,554014538	0,0044	1,275444392	0,03387	IL21R	interleukin 21 receptor
0,632439771	0,00876	0,773246337	0,0062	IL22RA1	interleukin 22 receptor, alpha 1
2,096524951	0,00148	1,701727459	0,00035	IL24	interleukin 24
1,592176198	0,00679	1,337927555	0,02735	IL27RA	interleukin 27 receptor, alpha
1,424050196	0,01274	1,352848231	0,00022	IL28A	interleukin 28A (interferon, lambda 2)
1,265756594	0,02926	1,191682575	0,01896	IL2RA	interleukin 2 receptor, alpha
1,667862088	0,00171	1,305859787	0,00773	IL2RA	interleukin 2 receptor, alpha
1,777685362	0,00108	1,458009379	0,00004	IL2RB	interleukin 2 receptor, beta
1,859609885	0,00583	2,131693472	0	IL2RG	interleukin 2 receptor, gamma
0,69399636	0,04025	0,84323111	0,01203	IL31RA	interleukin 31 receptor A
0,489031737	0,00258	0,649769531	0,00121	IL36RN	interleukin 36 receptor antagonist
1,450952208	0,00055	1,262252032	0,00134	IL5RA	interleukin 5 receptor, alpha
2,018103268	0,00071	1,554014538	0,01723	IL6	interleukin 6 (interferon, beta 2)
0,751059963	0,04217	0,862741345	0,00634	IMMT	inner membrane protein, mitochondrial
0,466193243	0,00326	0,713507253	0,00617	IMPA2	inositol(myo)-1(or 4)-monophosphatase 2
0,706616822	0,01466	0,727490342	0,01886	IMPACT	Impact homolog (mouse)
0,753145233	0,03624	0,886996305	0,0103	IMPAD1	inositol monophosphatase domain containing 1
0,693515485	0,01253	0,735093668	0,00821	IMPAD1	inositol monophosphatase domain containing 1
0,61985385	0,00076	0,740719899	0,00032	INADL	InaD-like (Drosophila)
0,57236208	0,04263	0,644834125	0,00015	INADL	InaD-like (Drosophila)
0,7031966	0,04187	0,733566672	0,00026	INADL	InaD-like (Drosophila)
1,261377409	0,02428	1,197478705	0,00056	INF2	inverted formin, FH2 and WH2 domain containing
0,558643569	0,00629	0,643494624	0	ING2	inhibitor of growth family, member 2
1,350037985	0,04048	1,275444392	0,01389	INMT	indolethylamine N-methyltransferase
0,81056512	0,04662	0,866937564	0,01574	INO80	INO80 homolog (S. cerevisiae)
0,653382627	0,00109	0,802181166	0,00028	INO80D	INO80 complex subunit D
1,416175438	0,01944	1,488645255	0,00134	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa
1,220946513	0,02068	1,193335743	0,00107	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa
1,893427262	0,00216	1,361314116	0,02394	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa
1,328685814	0,00937	1,269270886	0,00035	INPP5D	inositol polyphosphate-5-phosphatase, 145kDa
1,56265576	0,01944	1,491744027	0,00001	INPP5D	inositol polyphosphate-5-phosphatase, 145kDa
1,468150636	0,00449	1,28788163	0,00302	INSR	insulin receptor
0,740719899	0,00255	0,8362464	0,00782	INTS10	integrator complex subunit 10
0,711531731	0,01625	0,855002178	0,02928	INTS10	integrator complex subunit 10
0,626332219	0,02551	0,784040454	0,00638	INTS12	integrator complex subunit 12
0,614719434	0,00333	0,745355193	0,00028	INTS7	integrator complex subunit 7
0,76418826	0,02094	0,884540435	0,03526	IPO5	importin 5
0,637722196	0,01523	0,793333843	0,00384	IPO7	importin 7
0,617281303	0,00234	0,702222438	0,00019	IPPK	inositol 1,3,4,5,6-pentakisphosphate 2-kinase
1,840375301	0,01278	1,613283518	0,00002	IPW	imprinted in Prader-Willi syndrome (non-protein coding)
1,424050196	0,00231	1,155085785	0,04038	IQCA1	IQ motif containing with AAA domain 1
1,508380077	0,0036	1,224336392	0,03344	IQCG	IQ motif containing G
0,554784736	0,02773	0,846158597	0,00134	IQGAP1	IQ motif containing GTPase activating protein 1
1,283425898	0,02108	1,273677475	0,00011	IQGAP3	IQ motif containing GTPase activating protein 3
1,321338406	0,00806	1,387030969	0,00002	IQSEC1	IQ motif and Sec7 domain 1
2,131693472	0,01788	1,420107359	0,01884	IRAK3	interleukin-1 receptor-associated kinase 3
1,4063932	0,01042	1,404444876	0,00009	IRAK3	interleukin-1 receptor-associated kinase 3
1,664397469	0,00681	1,270150983	0,00253	IRF1	interferon regulatory factor 1
1,481439798	0,02209	1,148698355	0,01957	IRF2	interferon regulatory factor 2
3,826432632	0,00005	3,03774338	0,00001	IRF4	interferon regulatory factor 4
1,464085696	0,00739	1,314031627	0,00103	IRF4	interferon regulatory factor 4
1,893427262	0,00064	1,43296165	0,00187	IRF8	interferon regulatory factor 8
0,6341957	0,00945	0,771640088	0,00097	IRX2	iroquois homeobox 2
0,627635996	0,0015	0,807201075	0,00174	IRX3	iroquois homeobox 3
0,693515485	0,00719	0,828170661	0,01794	IRX5	iroquois homeobox 5
0,69640574	0,01419	0,796088099	0,0019	ISCA1	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)
1,844206236	0,0085	1,686462221	0,00065	ISG20	interferon stimulated exonuclease gene 20kDa
1,811267966	0,0034	1,646040691	0,0004	ISG20	interferon stimulated exonuclease gene 20kDa
0,728499557	0,02679	0,632878297	0,00477	ISM1	isthmin 1 homolog (zebrafish)
1,224336392	0,02754	1,236275261	0,00765	ITGA10	integrin, alpha 10
1,580082624	0,00095	1,365093718	0,02064	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)

1,401527449	0,03441	1,390881972	0,00352	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)
1,419123356	0,02112	1,510472586	0,00032	ITGA7	integrin, alpha 7
1,570256237	0,00406	1,453972517	0,00087	ITGA8	integrin, alpha 8
1,707635429	0,00028	1,677136369	0,00006	ITGA8	integrin, alpha 8
1,271913007	0,01805	1,237132479	0,00035	ITGA9	integrin, alpha 9
2,639015822	0,00001	2,243886961	0,00002	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
1,45296505	0,01531	1,395710764	0,00007	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
2,0139111	0,00054	1,556170353	0,00218	ITGAM	integrin, alpha M (complement component 3 receptor 3 subunit)
1,423063461	0,00193	1,433955248	0,00054	ITGAX	integrin, alpha X (complement component 3 receptor 4 subunit)
1,6724928	0,03921	1,788809804	0,00006	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
1,597703833	0,04799	1,714752073	0,00006	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
1,247465572	0,04087	1,17772279	0,00496	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
0,843815796	0,03818	0,877213549	0,02444	ITGB5	integrin, beta 5
1,378405153	0,01916	1,315854525	0,00357	ITGB7	integrin, beta 7
0,759962428	0,01571	0,827596816	0,01844	ITGB8	integrin, beta 8
2,267338826	0,00162	1,975201723	0,00003	ITM2C	integral membrane protein 2C
1,388955136	0,0013	1,113421618	0,04505	ITPKB	inositol-trisphosphate 3-kinase B
0,571965487	0,00268	0,734584317	0,00004	ITPR2	inositol 1,4,5-trisphosphate receptor, type 2
1,229438867	0,03991	1,190856849	0,01682	IVD	isovaleryl-CoA dehydrogenase
0,569197015	0,00278	0,71449707	0,00009	IVL	involucrin
0,542990928	0,01447	0,755759964	0,00036	IVNS1ABP	influenza virus NS1A binding protein
0,550570799	0,00737	0,765248385	0,00454	IVNS1ABP	influenza virus NS1A binding protein
0,414085331	0,00191	0,743291492	0,00338	IVNS1ABP	influenza virus NS1A binding protein
1,942614991	0,0116	2,099433367	0,00002	JAK3	Janus kinase 3
1,675974269	0,00652	1,483494934	0,0001	JAM2	junctional adhesion molecule 2
0,755236293	0,02299	0,856781955	0,03056	JARID2	jumonji, AT rich interactive domain 2
0,675487042	0,03246	0,837406488	0,00488	JARID2	jumonji, AT rich interactive domain 2
0,710053679	0,00609	0,727490342	0,00143	JUB	jub, ajuba homolog (Xenopus laevis)
0,780786493	0,04884	0,828744904	0,01152	JUB	jub, ajuba homolog (Xenopus laevis)
1,300440147	0,01419	1,208317843	0,01428	JUB	jub, ajuba homolog (Xenopus laevis)
0,443805669	0,01942	0,779704843	0,01689	JUP	junction plakoglobin
0,704172113	0,02733	0,748980467	0,00158	KALRN	kalirin, RhoGEF kinase
0,604997045	0,01361	0,679243142	0,00005	KANK1	KN motif and ankyrin repeat domains 1
0,559418551	0,00381	0,77916458	0,01657	KAT2B	K(lysine) acetyltransferase 2B
0,669427628	0,00915	0,755759964	0,001	KATNA1	katanin p60 (ATPase containing) subunit A 1
0,771640088	0,0087	0,793333843	0,00004	KCMF1	potassium channel modulatory factor 1
1,561572985	0,00346	1,275444392	0,00735	KCNA2	potassium voltage-gated channel, shaker-related subfamily, member 2
1,615521555	0,00097	1,429984986	0,00305	KCNA3	potassium voltage-gated channel, shaker-related subfamily, member 3
1,308578071	0,03741	1,16634937	0,01825	KCNA5	potassium voltage-gated channel, shaker-related subfamily, member 5
1,300440147	0,04933	1,256142381	0,00367	KCNAB2	potassium voltage-gated channel, shaker-related subfamily, beta member 2
1,221793102	0,02107	1,106497353	0,03094	KCNE3	potassium voltage-gated channel, Isk-related family, member 3
2,388326374	0,00022	1,268391399	0,00849	KCNE3	potassium voltage-gated channel, Isk-related family, member 3
1,215879283	0,01772	1,165541198	0,00983	KCNH2	potassium voltage-gated channel, subfamily H (eag-related), member 2
1,403471726	0,00454	1,263127262	0,00047	KCNH2	potassium voltage-gated channel, subfamily H (eag-related), member 2
1,663244197	0,00362	1,522033381	0,00006	KCNJ8	potassium inwardly-rectifying channel, subfamily J, member 8
1,409320755	0,02175	1,342572503	0,00056	KCNJ8	potassium inwardly-rectifying channel, subfamily J, member 8
0,484644908	0,00003	0,61429349	0,00019	KCNK1	potassium channel, subfamily K, member 1
0,571569168	0,00045	0,632001549	0	KCNK1	potassium channel, subfamily K, member 1
0,680185426	0,00215	0,863938187	0,03872	KCNK10	potassium channel, subfamily K, member 10
0,634635443	0,00143	0,846158597	0,04814	KCNK7	potassium channel, subfamily K, member 7
0,528875482	0,0002	0,692074858	0,00107	KCNK7	potassium channel, subfamily K, member 7
0,557869661	0,00018	0,763129604	0,0022	KCNK7	potassium channel, subfamily K, member 7
1,384149716	0,02601	1,599920257	0,00001	KCNMB1	potassium large conductance calcium-activated channel, subfamily M, beta member 1
1,377450046	0,00338	1,168777249	0,00285	KCNMB3	potassium large conductance calcium-activated channel, subfamily M beta member 3
1,960198831	0,00214	1,795020101	0,00001	KCNN3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
2,510543983	0,00087	2,181015465	0,00001	KCNN3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
1,274560627	0,00749	1,190031696	0,02826	KCNQ1	potassium voltage-gated channel, KQT-like subfamily, member 1
0,828170661	0,04143	0,809442217	0,00022	KCNRG	potassium channel regulator
0,657015814	0,00311	0,777007269	0,00159	KCTD1	potassium channel tetramerisation domain containing 1
0,57236208	0,03245	0,754712984	0,00171	KCTD1	potassium channel tetramerisation domain containing 1
0,821310701	0,01683	0,852044095	0,04121	KCTD10	potassium channel tetramerisation domain containing 10
0,677362489	0,01947	0,67877249	0,0005	KCTD11	potassium channel tetramerisation domain containing 11
1,489677463	0,02654	1,322254605	0,00728	KCTD12	potassium channel tetramerisation domain containing 12
0,661127303	0,00093	0,823020345	0,02963	KCTD15	potassium channel tetramerisation domain containing 15
0,505225723	0,00041	0,645281245	0,00007	KCTD15	potassium channel tetramerisation domain containing 15
0,446892581	0,00002	0,535144349	0,00002	KCTD15	potassium channel tetramerisation domain containing 15
1,361314116	0,00347	1,181811547	0,00308	KCTD7	potassium channel tetramerisation domain containing 7
0,575544746	0,01699	0,620283649	0,00014	KCTD9	potassium channel tetramerisation domain containing 9
1,578987773	0,00234	1,208317843	0,01615	KDELR2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2
1,540074348	0,03873	1,448942155	0,00779	KDELR3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3
0,592135806	0,01971	0,649769531	0,00056	KDM3A	lysine (K)-specific demethylase 3A
1,281647924	0,0164	1,214194884	0,00117	KDM4C	lysine (K)-specific demethylase 4C
0,639492791	0,00545	0,855595026	0,01829	KDM5B	lysine (K)-specific demethylase 5B
1,901318202	0,00004	1,494849249	0,00003	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)
0,622005827	0,047	0,669427628	0,00262	KDSR	3-ketodihydrosphingosine reductase
1,300440147	0,02395	1,204137381	0,00731	KHDC1	KH homology domain containing 1
0,661127303	0,00931	0,835666959	0,0058	KIAA0020	KIAA0020
1,585568273	0,00521	1,474269217	0,0003	KIAA0040	KIAA0040
1,439931319	0,00227	1,396678532	0,00097	KIAA0040	KIAA0040
4,307945505	0,00001	4,016670173	0,00004	KIAA0125	KIAA0125
0,66296288	0,04364	0,76684133	0,00118	KIAA0232	KIAA0232
0,712518807	0,01511	0,773782497	0,00067	KIAA0284	KIAA0284
0,830470024	0,01675	0,848507902	0,02176	KIAA0317	KIAA0317
0,475659138	0,01773	0,751059963	0,00016	KIAA0368	KIAA0368
0,595428425	0,0096	0,713507253	0	KIAA0368	KIAA0368
0,775930854	0,03019	0,857376037	0,04397	KIAA0664	KIAA0664
0,664803554	0,01467	0,772175133	0,00002	KIAA0922	KIAA0922
0,744322628	0,00102	0,877821798	0,03121	KIAA1217	KIAA1217
1,322254605	0,0139	1,138394029	0,02029	KIAA1328	KIAA1328
1,390881972	0,00739	1,332374825	0,00216	KIAA1462	KIAA1462
0,577142709	0,00353	0,712518807	0,00003	KIAA1468	KIAA1468
0,639049682	0,01479	0,697855382	0,00617	KIAA1468	KIAA1468
0,47467106	0,02459	0,574349177	0	KIAA1598	KIAA1598
0,671286251	0,0399	0,716977624	0,0003	KIAA1671	KIAA1671
0,577142709	0,00511	0,709561678	0	KIAA1671	KIAA1671
0,644834125	0,00387	0,852634892	0,04508	KIAA1715	KIAA1715
0,667574152	0,00946	0,819604608	0,01521	KIAA1731	KIAA1731
0,579146403	0,03758	0,61813763	0,00002	KIAA1737	KIAA1737

0,521955964	0,00101	0,654742712	0	KIF13A	kinesin family member 13A
0,824733549	0,04245	1,132883885	0,01957	KIF19	kinesin family member 19
0,715984371	0,00464	0,681129017	0,00001	KIF1C	kinesin family member 1C
0,549427109	0,01017	0,393108646	0	KIF21A	kinesin family member 21A
1,488645255	0,00416	1,371733289	0,00029	KIF21B	kinesin family member 21B
1,450952208	0,04977	1,256142381	0,04099	KIF26A	kinesin family member 26A
0,656560563	0,01587	0,66158572	0,00003	KIF3A	kinesin family member 3A
1,266634254	0,02056	1,242288282	0,00095	KIR2DL5A	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5A
2,554427518	0,00024	1,439931319	0,00007	KISS1R	KISS1 receptor
0,616853585	0,00332	0,801625329	0,03178	KLC3	kinesin light chain 3
0,481630947	0,0046	0,706127202	0,00091	KLC3	kinesin light chain 3
1,271031689	0,03031	1,238848698	0,00432	KLC4	kinesin light chain 4
1,311302014	0,01924	1,176906737	0,0483	KLF12	Kruppel-like factor 12
1,646040691	0,01784	1,341642225	0,00726	KLF12	Kruppel-like factor 12
1,301341855	0,03919	1,202469249	0,04248	KLF12	Kruppel-like factor 12
1,468150636	0,01712	1,378405153	0,0051	KLF14	Kruppel-like factor 14
2	0,00019	1,411275843	0,00292	KLF2	Kruppel-like factor 2 (lung)
1,333298677	0,00196	1,145517898	0,00924	KLF2	Kruppel-like factor 2 (lung)
0,570381858	0,02993	0,629378587	0,00019	KLF3	Kruppel-like factor 3 (basic)
0,434070114	0,04404	0,574349177	0,00261	KLF4	Kruppel-like factor 4 (gut)
0,520150133	0,00612	0,579547976	0,00003	KLF4	Kruppel-like factor 4 (gut)
0,636397468	0,01391	0,690637224	0,01141	KLF6	Kruppel-like factor 6
0,609205132	0,00804	0,660669203	0,00036	KLF8	Kruppel-like factor 8
1,469168633	0,00846	1,673652485	0,00001	KLHDC7B	kelch domain containing 7B
1,216722359	0,03726	1,31494276	0,00203	KLHDC9	kelch domain containing 9
0,581157054	0,00016	0,780786493	0,0006	KLHL18	kelch-like 18 (Drosophila)
0,681129017	0,03479	0,833931044	0,00786	KLHL20	kelch-like 20 (Drosophila)
0,640379931	0,00234	0,690637224	0,00001	KLHL21	kelch-like 21 (Drosophila)
1,465100875	0,00897	1,367935304	0,0043	KLHL22	kelch-like 22 (Drosophila)
1,303147149	0,04593	1,260503392	0,00016	KLHL3	kelch-like 3 (Drosophila)
1,587767862	0,00132	1,28877463	0,01532	KLHL5	kelch-like 5 (Drosophila)
1,400556321	0,00745	1,172022284	0,01179	KLHL5	kelch-like 5 (Drosophila)
2,100889088	0,00075	1,408344227	0,00185	KLHL6	kelch-like 6 (Drosophila)
1,612165663	0,00468	1,398616083	0,00007	KLHL6	kelch-like 6 (Drosophila)
4,481556857	0,00003	2,856007959	0,00021	KLHL6	kelch-like 6 (Drosophila)
0,432868283	0,00104	0,745872013	0,01459	KLK10	kallikrein-related peptidase 10
0,348927691	0,00006	0,580351957	0,00021	KLK10	kallikrein-related peptidase 10
0,520510799	0,00195	0,790589117	0,01042	KLK11	kallikrein-related peptidase 11
1,262252032	0,04956	1,366040257	0,00073	KLK4	kallikrein-related peptidase 4
0,459456442	0,00151	0,645281245	0,00463	KLK7	kallikrein-related peptidase 7
1,906597091	0,00005	1,545421099	0,00107	KLRB1	killer cell lectin-like receptor subfamily B, member 1
1,365093718	0,00642	1,128182137	0,01393	KLRD1	killer cell lectin-like receptor subfamily D, member 1
1,372684431	0,00615	1,174461971	0,01894	KLRD1	killer cell lectin-like receptor subfamily D, member 1
1,309485423	0,0175	1,240567298	0,00058	KLRF1	killer cell lectin-like receptor subfamily F, member 1
1,330529041	0,01956	1,28788163	0,0014	KLRG1	killer cell lectin-like receptor subfamily G, member 1
1,592176198	0,00228	1,345367209	0,00757	KLRK1	killer cell lectin-like receptor subfamily K, member 1
1,937236378	0,00006	1,360370852	0,0006	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)
1,598811661	0,00029	1,401527449	0,00318	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)
0,642603169	0,01927	0,819604608	0,00351	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
0,665725807	0,04725	0,702222438	0,00003	KPNA4	karyopherin alpha 4 (importin alpha 3)
0,548285794	0,00065	0,745872013	0,00014	KPNB1	karyopherin (importin) beta 1
0,492433221	0,0098	0,566441943	0,0004	KREMEN1	kringle containing transmembrane protein 1
0,734584317	0,03932	0,703684188	0,00001	KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast)
0,358240413	0,00037	0,597495602	0,00524	KRT10	keratin 10
0,443805669	0,0016	0,642157904	0,00725	KRT10	keratin 10
0,393653988	0,0005	0,640379931	0,01206	KRT10	keratin 10
0,454704126	0,01803	0,751059963	0,00791	KRT15	keratin 15
0,314253344	0,03417	0,760489377	0,0139	KRT16	keratin 16
0,3747499	0,0016	0,582366793	0,03172	KRT3	keratin 3
0,643494624	0,00187	0,692074858	0,00067	KRT31	keratin 31
0,325110037	0,01072	0,609627547	0,0092	KRT76	keratin 76
1,271913007	0,04744	1,268391399	0,00429	KRT79	keratin 79
0,416387885	0,00139	0,580754366	0,00015	KRT80	keratin 80
1,190856849	0,03563	1,156688184	0,039	KRT85	keratin 85
0,555169417	0,00384	0,694477568	0,00334	KRTDAP	keratinocyte differentiation-associated protein
0,656105627	0,02002	0,778085177	0,0002	KTN1	kinectin 1 (kinesin receptor)
0,628942486	0,01563	0,723467443	0,00001	KTN1	kinectin 1 (kinesin receptor)
1,537940831	0,02223	1,31494276	0,00841	KYNU	kynureninase
1,901318202	0,00358	1,385109468	0,02515	KYNU	kynureninase
1,730273381	0,02698	1,43296165	0,00755	KYNU	kynureninase
1,304954948	0,01649	1,235418637	0,00468	L3MBTL2	l(3)mbt-like 2 (Drosophila)
0,740719899	0,00576	0,688247801	0,00002	L3MBTL4	l(3)mbt-like 4 (Drosophila)
0,809442217	0,03651	0,870550563	0,0166	LACTB	lactamase, beta
1,225185332	0,04176	1,190031696	0,00953	LAG3	lymphocyte-activation gene 3
1,568080908	0,00811	1,376495602	0,00004	LAIR1	leukocyte-associated immunoglobulin-like receptor 1
1,487613762	0,00928	1,22010051	0,01479	LAIR2	leukocyte-associated immunoglobulin-like receptor 2
1,315854525	0,00501	1,207480591	0,00155	LAMA1	laminin, alpha 1
0,808320869	0,02254	0,793883931	0,00129	LAMP1	lysosomal-associated membrane protein 1
0,576343173	0,02447	0,651573575	0,00006	LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial)
0,736113431	0,01269	0,79774524	0,00037	LANCL2	LanC lantibiotic synthetase component C-like 2 (bacterial)
0,787307977	0,02536	0,786217292	0,00049	LANCL2	LanC lantibiotic synthetase component C-like 2 (bacterial)
1,496922987	0,0362	1,570256237	0,00141	LAPTM5	lysosomal protein transmembrane 5
0,622868708	0,02397	0,811127156	0,0002	LARP4B	La ribonucleoprotein domain family, member 4B
1,602139755	0,00276	1,151887642	0,0383	LARP6	La ribonucleoprotein domain family, member 6
0,615999037	0,01213	0,691595315	0,00003	LARP7	La ribonucleoprotein domain family, member 7
0,618566239	0,00818	0,773782497	0,00018	LARS	leucyl-tRNA synthetase
0,578745108	0,01862	0,74277646	0,0002	LARS	leucyl-tRNA synthetase
0,658839976	0,00385	0,79774524	0,04603	LARS	leucyl-tRNA synthetase
2,00416321	0,00008	1,682958965	0	LAT2	linker for activation of T cells family, member 2
2,450370664	0,00013	2,581124981	0,00013	LAX1	lymphocyte transmembrane adaptor 1
1,559409685	0,02435	1,339783602	0,00028	LAYN	layilin
1,634670657	0,00114	1,53368266	0,00026	LBH	limb bud and heart development homolog (mouse)
1,559409685	0,00221	1,605474777	0,00003	LBP	lipopolysaccharide binding protein
2,211461307	0,00234	1,918528239	0,0002	LBP	lipopolysaccharide binding protein
0,398596238	0,00028	0,635075491	0,03845	LCE3D	late cornified envelope 3D
1,602139755	0,01077	1,556170353	0,00024	LCK	lymphocyte-specific protein tyrosine kinase
2,283109414	0,00009	1,823866331	0,00039	LCK	lymphocyte-specific protein tyrosine kinase
0,685391402	0,00227	0,844400887	0,01019	LCMT1	leucine carboxyl methyltransferase 1

0,698339266	0,0048	0,690158677	0,00001	LCMT2	leucine carboxyl methyltransferase 2
1,350974085	0,01433	1,439931319	0,00025	LCNL1	lipocalin-like 1
1,802500925	0,00353	1,43097652	0,01864	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
1,571345033	0,01403	1,493813457	0,00073	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
1,249196126	0,01735	1,136029265	0,0091	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
1,414213562	0,00961	1,226884977	0,00526	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
0,727490342	0,00843	0,857376037	0,00834	LDHA	lactate dehydrogenase A
1,604362333	0,04414	1,268391399	0,02897	LEF1	lymphoid enhancer-binding factor 1
0,500693628	0,0055	0,736623843	0,00019	LEO1	Leo1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
1,336074078	0,01013	1,167158102	0,04684	LEPR	leptin receptor
1,42800398	0,02645	1,371733289	0,00017	LEPRE1	leucine proline-enriched proteoglycan (leprecan) 1
0,687294348	0,01071	0,749499801	0,00194	LEPREL1	leprecan-like 1
0,626332219	0,00035	0,796640096	0,00026	LGALS3	lectin, galactoside-binding, soluble, 3
0,668963777	0,01086	0,760489377	0,0127	LGALS8	lectin, galactoside-binding, soluble, 8
0,465224829	0,00441	0,701249625	0,00028	LGALS8	lectin, galactoside-binding, soluble, 8
0,411510173	0,00027	0,548665969	0,00042	LGALSL	lectin, galactoside-binding-like
0,298127218	0,00025	0,481630947	0	LGALSL	lectin, galactoside-binding-like
1,22858698	0,02642	1,128964405	0,03417	LGI2	leucine-rich repeat LGI family, member 2
0,524131238	0,03997	0,70027816	0,00857	LGR4	leucine-rich repeat containing G protein-coupled receptor 4
1,624504793	0,00098	1,526259209	0,00018	LHX6	LIM homeobox 6
0,632001549	0,03484	0,810003474	0,03448	LIAS	lipoic acid synthetase
1,254402205	0,04976	1,254402205	0,00084	LIF	leukemia inhibitory factor (cholinergic differentiation factor)
1,561572985	0,0081	1,148698355	0,0398	LILRA2	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2
1,4054187	0,00489	1,475291457	0,00003	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
1,988940337	0,00154	1,642621402	0,00172	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
1,566994374	0,00276	1,373636233	0,00044	LILRB2	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2
1,448942155	0,0162	1,255271991	0,00077	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
1,282536603	0,03619	1,191682575	0,01041	LILRB5	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5
0,660669203	0,01184	0,756283999	0,00024	LIMK2	LIM domain kinase 2
0,701249625	0,02437	0,853817714	0,03645	LIN37	lin-37 homolog (C. elegans)
0,664342907	0,01497	0,807760778	0,00672	LIN7B	lin-7 homolog B (C. elegans)
0,627635996	0,01104	0,747942879	0,00063	LIN7C	lin-7 homolog C (C. elegans)
1,235418637	0,03598	1,128182137	0,04563	LINC00152	long intergenic non-protein coding RNA 152
1,252664439	0,04721	1,132098902	0,02252	LINC00226	long intergenic non-protein coding RNA 226
0,8362464	0,0142	0,911301281	0,03997	LINC00302	long intergenic non-protein coding RNA 302
1,487613762	0,00654	1,314031627	0,00438	LINC00312	long intergenic non-protein coding RNA 312
1,21167266	0,02406	1,226884977	0,00071	LINC00340	long intergenic non-protein coding RNA 340
0,804408371	0,02814	0,849684999	0,02518	LINC00478	long intergenic non-protein coding RNA 478
0,754190038	0,00445	0,782954296	0,00147	LINC00478	long intergenic non-protein coding RNA 478
1,478362431	0,00305	1,329607108	0,0006	LIPE	lipase, hormone-sensitive
1,398616083	0,02397	1,345367209	0,00146	LIX1L	Lix1 homolog (mouse)-like
0,717474767	0,01608	0,824733549	0,01821	LLGL2	lethal giant larvae homolog 2 (Drosophila)
1,366040257	0,04669	1,184271612	0,00939	LMCD1	LIM and cysteine-rich domains 1
1,376495602	0,01061	1,25962998	0,00365	LMF1	lipase maturation factor 1
1,597703833	0,04067	1,41029796	0,0027	LMF1	lipase maturation factor 1
1,416175438	0,01066	1,180992661	0,01927	LMO2	LIM domain only 2 (rhombotin-like 1)
0,566834706	0,00445	0,518709968	0	LMO4	LIM domain only 4
0,604577838	0,00762	0,684441907	0,00404	LMO4	LIM domain only 4
0,544121221	0,01429	0,542238704	0,00059	LMO7	LIM domain 7
0,500693628	0,02411	0,607518396	0,00063	LMO7	LIM domain 7
1,441928871	0,0006	1,303147149	0,00184	LMOD1	leiomodin 1 (smooth muscle)
1,359428242	0,00621	1,364147835	0,00095	LNP1	leukemia NUP98 fusion partner 1
1,246601194	0,04246	1,25962998	0,00498	LOC10012825	hypothetical LOC100128252
1,266634254	0,04394	1,132098902	0,02001	LOC10012875	INM04
1,225185332	0,00906	1,159095952	0,00513	LOC10012894	hypothetical LOC100128946
1,304954948	0,0185	1,361314116	0,00418	LOC10012912	hypothetical LOC100129129
1,336074078	0,01789	1,483494934	0	LOC10012982	hypothetical LOC100129827
1,341642225	0,02233	1,332374825	0,0002	LOC10012984	hypothetical LOC100129845
1,32317144	0,01292	1,156688184	0,04049	LOC10012993	lectin, galactoside-binding, soluble, 14 pseudogene
0,74277646	0,00972	0,786217292	0,00221	LOC10013069	hypothetical LOC100130691
0,793883931	0,00883	0,784040454	0,00138	LOC10013074	hypothetical LOC100130744
1,265756594	0,03698	1,303147149	0,0001	LOC10013087	hypothetical LOC100130872
2,197708435	0,00129	1,6724928	0,00009	LOC10013104	hypothetical LOC100131043
1,266634254	0,01656	1,189207115	0,00015	LOC10013109	hypothetical LOC100131096
1,391846392	0,03378	1,248330549	0,01681	LOC10013143	hypothetical LOC100131434
1,2397077	0,04738	1,185092771	0,00124	LOC10013182	hypothetical LOC100131825
1,479387509	0,00417	1,365093718	0,00765	LOC10013274	hypothetical LOC100132741
1,715941061	0,00006	1,352848231	0,01504	LOC10013299	hypothetical LOC100132999
0,823591017	0,02711	0,862741345	0,02276	LOC10028759	hypothetical protein LOC100287590
1,245737416	0,03034	1,204972315	0,00676	LOC10028759	hypothetical LOC100287598
1,790050142	0,0001	1,453972517	0,00042	LOC10028781	hCG2045266-like
0,76154437	0,01784	0,820172911	0,00023	LOC10028886	hypothetical LOC100288860
1,348167732	0,00216	1,183451022	0,0135	LOC10031075	hypothetical LOC100310756
0,689202576	0,03086	0,819604608	0,00891	LOC10049946	hypothetical LOC100499466
1,337927555	0,01747	1,190031696	0,01623	LOC10050549	hypothetical LOC100505490
1,351910833	0,00436	1,25962998	0,00017	LOC10050550	hypothetical LOC100505500
0,379981214	0,0003	0,604577838	0,00001	LOC10050563	hypothetical LOC100505633
1,987562187	0,0009	1,77399261	0,00018	LOC10050568	hypothetical LOC100505687
1,199139914	0,02587	1,180174343	0,03818	LOC10050571	hypothetical LOC100505711
1,397646972	0,03763	1,376495602	0,00451	LOC10050574	hypothetical LOC100505746
1,313121125	0,01173	1,236275261	0,00062	LOC10050578	hypothetical LOC100505783
0,751059963	0,04788	0,839149637	0,04544	LOC10050585	hypothetical LOC100505854
0,585605091	0,00082	0,732042848	0,00085	LOC10050588	hypothetical LOC100505880
1,276328769	0,0069	1,178539408	0,00291	LOC10050597	hypothetical LOC100505976
1,854461093	0,02716	1,572434584	0,00398	LOC10050609	hypothetical LOC100506098
1,246601194	0,01217	1,131314463	0,04396	LOC10050610	hypothetical LOC100506100
1,252664439	0,02355	1,181811547	0,00757	LOC10050611	hypothetical LOC100506113
0,762072415	0,01425	0,869947353	0,03085	LOC10050620	hypothetical LOC100506201
0,747424624	0,02224	0,733566672	0,00005	LOC10050631	hypothetical LOC100506314
1,954771533	0,00302	1,466116757	0,00036	LOC10050667	hypothetical LOC100506676
1,397646972	0,01306	1,244011653	0,00182	LOC10050673	hypothetical LOC100506733
1,688801775	0,00012	1,276328769	0,00947	LOC10050677	hypothetical LOC100506776
1,408344227	0,03085	1,189207115	0,01769	LOC10050684	hypothetical LOC100506844
1,350974085	0,02079	1,238848698	0,00253	LOC10050694	hypothetical LOC100506942
1,227735684	0,01746	1,225185332	0,00214	LOC10050700	hypothetical LOC100507006
1,22858698	0,04495	1,22010051	0,00103	LOC10050700	hypothetical LOC100507009
1,304954948	0,02856	1,143930973	0,03646	LOC10050723	hypothetical LOC100507239
1,458009379	0,02412	1,159095952	0,02661	LOC10050728	hypothetical protein LOC100507281

0,534773544	0,00013	0,741233505	0,00001	LOC10050730	hypothetical LOC100507303
1,586667686	0,00058	1,358486285	0,00095	LOC10050730	hypothetical LOC100507307
1,474269217	0,00203	1,353786279	0,00004	LOC10050739	hypothetical LOC100507392
1,268391399	0,03412	1,107264584	0,04663	LOC10050740	hypothetical LOC100507408
1,32408891	0,00812	1,293248932	0,00094	LOC10050742	hypothetical LOC100507424
0,745355193	0,00855	0,834509281	0,00825	LOC10050744	hypothetical LOC100507448
1,309485423	0,04737	1,204972315	0,01049	LOC10050749	hypothetical LOC100507495
1,325007017	0,0139	1,292352831	0,0005	LOC10050750	hypothetical LOC100507501
1,270150983	0,00598	1,188383105	0,00087	LOC10050758	hypothetical LOC100507584
1,313121125	0,02983	1,255271991	0,00485	LOC10050763	hypothetical LOC100507637
2,508804409	0,00421	2,099433367	0,00008	LOC10050879	hypothetical protein LOC100508797
0,493458273	0,00142	0,678302164	0,0002	LOC10050963	hypothetical LOC100509635
1,235418637	0,03987	1,137605228	0,00439	LOC145820	hypothetical LOC145820
1,304954948	0,01048	1,222640278	0,0029	LOC145845	hypothetical LOC145845
0,61301743	0,00903	0,800514811	0,01613	LOC147727	hypothetical LOC147727
1,193335743	0,04267	1,17609125	0,01858	LOC148189	hypothetical LOC148189
0,791137301	0,02861	0,829319546	0,00103	LOC152217	hypothetical LOC152217
1,399585866	0,02067	1,366040257	0,00197	LOC153684	hypothetical LOC153684
0,721464343	0,00388	0,791685866	0,00365	LOC154761	hypothetical LOC154761
1,227735684	0,04918	1,172834949	0,01307	LOC154822	hypothetical LOC154822
0,629378587	0,03362	0,774855931	0,03806	LOC158863	hypothetical protein LOC158863
0,450625231	0,00805	0,817335328	0,00779	LOC203274	hypothetical protein LOC203274
1,297738767	0,03753	1,144724161	0,00612	LOC220980	hypothetical LOC220980
1,183451022	0,02869	1,22603486	0,0001	LOC221442	adenylate cyclase 10 pseudogene
0,801625329	0,0199	0,866336856	0,01004	LOC283104	hypothetical LOC283104
0,480630464	0,00018	0,778624691	0,00519	LOC283404	hypothetical LOC283404
0,61813763	0,0099	0,661127303	0,00015	LOC284219	hypothetical protein LOC284219
0,511214265	0,00017	0,690637224	0,00848	LOC284837	hypothetical LOC284837
1,22858698	0,02487	1,139973273	0,01521	LOC285972	hypothetical LOC285972
1,497960934	0,00387	1,241427492	0,00153	LOC338588	hypothetical LOC338588
1,255271991	0,04219	1,164733586	0,00369	LOC338963	epididymal protein pseudogene
0,421907898	0,00001	0,681129017	0,01251	LOC344887	NmrA-like family domain containing 1 pseudogene
1,613283518	0,00464	1,271913007	0,02834	LOC374443	CLR pseudogene
1,477338064	0,00828	1,604362333	0	LOC387895	hypothetical LOC387895
0,804408371	0,03766	0,890075733	0,03281	LOC388789	hypothetical LOC388789
0,667574152	0,00839	0,759962428	0,00033	LOC389831	hypothetical LOC389831
1,319507911	0,00582	1,164733586	0,01567	LOC400568	hypothetical LOC400568
1,274560627	0,02854	1,248330549	0,01119	LOC400643	hypothetical LOC400643
1,441928871	0,00102	1,191682575	0,00456	LOC401022	hypothetical LOC401022
0,767373048	0,01445	0,840313752	0,00952	LOC401093	hypothetical LOC401093
1,366040257	0,00351	1,128182137	0,03872	LOC440149	hypothetical LOC440149
1,299539062	0,01568	1,234562607	0,00113	LOC440792	proline dehydrogenase (oxidase) 1 pseudogene
1,25092908	0,01602	1,163926534	0,02396	LOC442028	hypothetical LOC442028
0,756808396	0,01584	0,885153765	0,02248	LOC642236	FSHD region gene 1 pseudogene
0,665264521	0,04362	0,813943185	0,03129	LOC643792	contactin associated protein-like 3 pseudogene
1,295940965	0,00155	1,114966219	0,04985	LOC643837	hypothetical LOC643837
0,729004689	0,02204	0,710053679	0,00154	LOC644656	hypothetical LOC644656
1,821339667	0,00222	1,338855257	0,00121	LOC645431	hypothetical LOC645431
1,352848231	0,00649	1,265756594	0,01429	LOC645722	hypothetical LOC645722
1,283425898	0,00519	1,181811547	0,0051	LOC645722	hypothetical LOC645722
0,713012859	0,01837	0,807760778	0,00319	LOC646014	hypothetical protein LOC646014
1,340712592	0,03767	1,316766922	0,00018	LOC728099	hypothetical protein LOC728099
1,181811547	0,02596	1,150291893	0,00887	LOC728705	hypothetical protein LOC728705
1,371733289	0,00538	1,257884972	0,01037	LOC728743	zinc finger protein pseudogene
1,261377409	0,02181	1,154285418	0,0254	LOC728855	hypothetical LOC728855
0,714992493	0,02707	0,78132788	0,00298	LOC729082	hypothetical LOC729082
1,237990291	0,01629	1,119612889	0,02584	LOC730098	hypothetical LOC730098
1,28877463	0,00686	1,241427492	0,00066	LOC730961	hypothetical protein LOC730961
3,251262408	0,00989	4,675108994	0,00002	LOC96610	BMS1 homolog, ribosome assembly protein (yeast) pseudogene
0,511568735	0,03116	0,589678296	0,00001	LONRF1	LON peptidase N-terminal domain and ring finger 1
1,832737289	0,00948	1,851892045	0,00004	LOXL2	lysyl oxidase-like 2
0,501040803	0,01486	0,610896551	0,00004	LPAR3	lysophosphatidic acid receptor 3
0,636838738	0,04232	0,77271055	0,00779	LPHN2	latrophilin 2
1,362258035	0,0458	1,251796459	0,03097	LPL	lipoprotein lipase
2,082043195	0	1,623379162	0,00003	LPXN	leupaxin
0,550570799	0,00631	0,825877665	0,00258	LRBA	LPS-responsive vesicle trafficking, beach and anchor containing
0,555939579	0,02533	0,526315577	0,00073	LRIG3	leucine-rich repeats and immunoglobulin-like domains 3
1,993080526	0,00001	1,544350266	0,0001	LRMP	lymphoid-restricted membrane protein
2,30697121	0,00002	1,741101127	0,00003	LRMP	lymphoid-restricted membrane protein
0,655651007	0,04767	0,76950361	0,00065	LRP11	low density lipoprotein receptor-related protein 11
0,600401714	0,00341	0,773246337	0,0141	LRP4	low density lipoprotein receptor-related protein 4
0,491410299	0,00079	0,657927263	0,00057	LRPPRC	leucine-rich PPR-motif containing
0,696888619	0,02491	0,821880187	0,00087	LRPPRC	leucine-rich PPR-motif containing
0,628942486	0,0204	0,732042848	0,00082	LRRC1	leucine rich repeat containing 1
1,512567997	0,0007	1,337927555	0,00082	LRRC25	leucine rich repeat containing 25
1,315854525	0,04974	1,466116757	0,00035	LRRC33	leucine rich repeat containing 33
0,668037039	0,01598	0,721964598	0,00001	LRRC58	leucine rich repeat containing 58
0,453445164	0,04613	0,71400199	0,00004	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
0,62546454	0,01996	0,691116103	0,00001	LRRFIP2	leucine rich repeat (in FLII) interacting protein 2
0,675487042	0,00313	0,784040454	0,00032	LRRFIP2	leucine rich repeat (in FLII) interacting protein 2
1,421092043	0,02093	1,194163187	0,00212	LRRN1	leucine rich repeat neuronal 1
1,229438867	0,03346	1,355664327	0,00001	LRRN4	leucine rich repeat neuronal 4
0,579547976	0,00189	0,746906729	0,00002	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)
0,622437118	0,01572	0,803293997	0,00216	LSM14A	LSM14A, SCD6 homolog A (S. cerevisiae)
0,70514898	0,00195	0,827023368	0,00189	LSM3	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)
0,708087719	0,00909	0,847332435	0,01874	LSS	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)
1,352848231	0,02918	1,43296165	0,00002	LST1	leukocyte specific transcript 1
0,525586455	0,00472	0,702222438	0,00023	LTB4R	leukotriene B4 receptor
0,701249625	0,01515	0,754712984	0,00007	LTV1	LTV1 homolog (S. cerevisiae)
0,635515845	0,00822	0,590087172	0,00001	LTV1	LTV1 homolog (S. cerevisiae)
0,730016005	0,03258	0,790041312	0,00185	LUC7L3	LUC7-like 3 (S. cerevisiae)
1,192508872	0,03782	1,22010051	0,00046	LUZP4	leucine zipper protein 4
0,496202187	0,00952	0,724471077	0,00256	LY6D	lymphocyte antigen 6 complex, locus D
1,335148303	0,00985	1,230291345	0,0014	LY6G5C	lymphocyte antigen 6 complex, locus G5C
0,313600551	0,00001	0,575943821	0,00764	LY6G6C	lymphocyte antigen 6 complex, locus G6C
1,677136369	0,00664	1,418140036	0,0025	LY9	lymphocyte antigen 9
1,915870436	0,00007	1,780151467	0	LY9	lymphocyte antigen 9
2,628063254	0,00001	2,040609318	0,00002	LY9	lymphocyte antigen 9

2,799171731	0,00001	1,522033381	0,00257	LY96	lymphocyte antigen 96
1,351910833	0,02587	1,297738767	0,00148	LYL1	lymphoblastic leukemia derived sequence 1
2,203810232	0,00041	1,549711862	0,0002	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
2,668446339	0,0002	1,727876375	0,00012	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
1,329607108	0,01477	1,122721422	0,04088	LYPD4	LY6/PLAUR domain containing 4
0,699308041	0,03059	0,795536484	0,00328	LYRM2	LYR motif containing 2
0,801625329	0,02637	0,855002178	0,01009	LYSMD4	LysM, putative peptidoglycan-binding, domain containing 4
0,802737389	0,01623	0,847332435	0,00322	LYST	lysosomal trafficking regulator
0,596667872	0,03346	0,710053679	0,00112	LYST	lysosomal trafficking regulator
1,378405153	0,01943	1,420107359	0,00014	LYVE1	lymphatic vessel endothelial hyaluronan receptor 1
1,611048582	0,00242	1,572434584	0,00015	LYZ	lysozyme
0,765248385	0,01912	0,734075318	0,00001	LZIC	leucine zipper and CTNNBIP1 domain containing
0,70759708	0,02432	0,778624691	0,00429	MACF1	microtubule-actin crosslinking factor 1
0,609205132	0,00915	0,831045862	0,0149	MACF1	microtubule-actin crosslinking factor 1
1,317679952	0,02628	1,135242102	0,04188	MACROD2-AS	MACROD2 antisense RNA 1 (non-protein coding)
0,378141999	0,00951	0,525586455	0,0044	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
0,480963727	0,00002	0,549046407	0,00015	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
0,510860041	0,01309	0,671286251	0,01174	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
0,556710809	0,01093	0,647072827	0,00048	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
0,40332088	0,03417	0,524131238	0,00279	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
0,679714121	0,00516	0,707106781	0,0003	MAFB	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)
1,644900137	0,00248	1,312211255	0,00732	MAGEH1	melanoma antigen family H, 1
0,732042848	0,00142	0,844986384	0,00952	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1
0,710546022	0,01688	0,76630998	0,00044	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1
0,639492791	0,02455	0,76154437	0,00133	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1
0,759435845	0,01241	0,723969086	0,00078	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1
0,544498508	0,03083	0,692074858	0,00018	MAL2	mal, T-cell differentiation protein 2 (gene/pseudogene)
0,50278029	0,02114	0,586417475	0,00004	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
1,632406092	0,00677	1,320422841	0,04003	MAN1A1	mannosidase, alpha, class 1A, member 1
1,53900722	0,00015	1,276328769	0,01445	MANEAL	mannosidase, endo-alpha-like
1,23370717	0,02659	1,219255094	0,00048	MANF	mesencephalic astrocyte-derived neurotrophic factor
0,597495602	0,00428	0,723467443	0,0028	MAP2	microtubule-associated protein 2
0,294634852	0,00356	0,448755025	0	MAP2	microtubule-associated protein 2
0,619424349	0,03161	0,7944344	0,02832	MAP2K4	mitogen-activated protein kinase kinase 4
0,550189305	0,01228	0,759435845	0,00106	MAP2K4	mitogen-activated protein kinase kinase 4
0,61985385	0,01462	0,639936207	0,00022	MAP3K9	mitogen-activated protein kinase kinase kinase 9
0,630688704	0,0077	0,77271055	0,0048	MAP4	microtubule-associated protein 4
1,529436278	0,03354	1,53261996	0,00006	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1
0,836826243	0,02892	0,816768991	0,02413	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4
0,60667678	0,00259	0,689202576	0,00379	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4
0,764718139	0,04462	0,824733549	0,0079	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4
0,538120062	0,00809	0,630251696	0,0009	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5
0,496890547	0,00109	0,697371833	0,02539	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5
0,479299719	0,00635	0,639492791	0,01078	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5
0,612168196	0,0002	0,771105413	0,01033	MAP7	microtubule-associated protein 7
0,555554364	0,04855	0,650220073	0,00004	MAP7	microtubule-associated protein 7
0,637280314	0,00054	0,815637493	0,0091	MAP7	microtubule-associated protein 7
0,698339266	0,02058	0,745872013	0,00079	MAPK1	mitogen-activated protein kinase 1
0,508739846	0,00352	0,719965659	0,00079	MAPK13	mitogen-activated protein kinase 13
0,577542892	0,00116	0,699792933	0,00009	MAPK13	mitogen-activated protein kinase 13
0,587230986	0,02075	0,668963777	0,00015	MAPK6	mitogen-activated protein kinase 6
0,717972255	0,00499	0,85027416	0,0405	MAPK8	mitogen-activated protein kinase 8
0,744322628	0,02566	0,829894586	0,01781	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3
0,704660378	0,04255	0,811689581	0,00949	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3
0,735603373	0,01134	0,832775771	0,00493	MAPKBP1	mitogen-activated protein kinase binding protein 1
0,742261785	0,00962	0,859756486	0,00134	MAPRE1	microtubule-associated protein, RP/EB family, member 1
0,607939642	0,00426	0,788946841	0,00915	MAPT	microtubule-associated protein tau
1,735077374	0,00069	1,436940177	0,00367	MARCKSL1	MARCKS-like 1
0,637722196	0,03576	0,815637493	0,00307	MARK3	MAP/microtubule affinity-regulating kinase 3
0,63860688	0,01922	0,785128119	0,00273	MARK3	MAP/microtubule affinity-regulating kinase 3
1,366040257	0,0142	1,130530567	0,02857	MAS1	MAS1 oncogene
1,271913007	0,01777	1,199139914	0,0024	MASP1	mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)
1,480413298	0,01535	1,682958965	0,00041	MAST1	microtubule associated serine/threonine kinase 1
0,484980955	0,00187	0,785672517	0,00734	MAST4	microtubule associated serine/threonine kinase family member 4
0,610050255	0,03207	0,674083866	0,00028	MAST4	microtubule associated serine/threonine kinase family member 4
0,524494664	0,00211	0,680657058	0,00009	MAST4	microtubule associated serine/threonine kinase family member 4
1,258757174	0,00756	1,121166078	0,04778	MATN1	matrilin 1, cartilage matrix protein
0,501735874	0,00131	0,675487042	0,00041	MATN2	matrilin 2
1,557249382	0,0013	1,28877463	0,00105	MB21D1	Mab-21 domain containing 1
1,178539408	0,03964	1,183451022	0,0466	MC2R	melanocortin 2 receptor (adrenocorticotropic hormone)
1,420107359	0,01946	1,297738767	0,01333	MC4R	melanocortin 4 receptor
1,371733289	0,00626	1,194163187	0,01543	MCAM	melanoma cell adhesion molecule
1,455989549	0,01715	1,300440147	0,01418	MCAM	melanoma cell adhesion molecule
0,703684188	0,02116	0,874784765	0,01195	MCCC1	methylcrotonoyl-CoA carboxylase 1 (alpha)
1,254402205	0,03864	1,209155676	0,01492	MCHR1	melanin-concentrating hormone receptor 1
0,684441907	0,02292	0,796088099	0,0122	MCM4	minichromosome maintenance complex component 4
0,632439771	0,02619	0,792784137	0,00051	MCM8	minichromosome maintenance complex component 8
0,726482525	0,00857	0,722465199	0,00041	MCMBP	minichromosome maintenance complex binding protein
1,680627504	0,04818	1,373636233	0,01196	MCTP1	multiple C2 domains, transmembrane 1
1,313121125	0,01109	1,125838586	0,01307	MCTP2	multiple C2 domains, transmembrane 2
1,607701981	0,03187	0,840313752	0,04859	MDFIC	MyoD family inhibitor domain containing
0,828170661	0,02281	0,849684999	0,00125	MDH2	malate dehydrogenase 2, NAD (mitochondrial)
1,356604327	0,03233	1,353786279	0,00025	MDM2	Mdm2 p53 binding protein homolog (mouse)
0,592546385	0,02661	0,659296807	0,00021	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic
0,751059963	0,02222	0,71400199	0,00362	MEAF6	MYST/Esa1-associated factor 6
0,627635996	0,00396	0,841479482	0,04654	MED1	mediator complex subunit 1
1,23370717	0,03364	1,179356592	0,01183	MED12L	mediator complex subunit 12-like
0,753667455	0,00941	0,718470088	0,0005	MED17	mediator complex subunit 17
0,754190038	0,00302	0,847332435	0,00992	MED27	mediator complex subunit 27
0,680657058	0,04709	0,677362489	0,00023	MED4	mediator complex subunit 4
0,685866644	0,02651	0,787853886	0,00766	MED6	mediator complex subunit 6
0,604158922	0,02953	0,730522189	0,04567	MED6	mediator complex subunit 6
0,643048742	0,04109	0,701735863	0,00399	MED6	mediator complex subunit 6
0,70270935	0,03502	0,740206649	0,00023	MED8	mediator complex subunit 8
1,414213562	0,02275	1,332374825	0,00245	MEF2C	myocyte enhancer factor 2C
1,984808749	0,00019	1,76418273	0,00048	MEF2C	myocyte enhancer factor 2C
1,995845438	0,00082	1,602139755	0,00046	MEF2C	myocyte enhancer factor 2C
1,528376521	0,00724	1,220946513	0,00382	MEF2D	myocyte enhancer factor 2D

0,52850902	0,01427	0,643940815	0,0006	MEGF9	multiple EGF-like-domains 9
0,631126016	0,00601	0,782954296	0,00812	MEGF9	multiple EGF-like-domains 9
2,167451934	0,00138	1,953417058	0,00002	MEI1	meiosis inhibitor 1
2,37841423	0,00151	2,220677667	0,00001	MEI1	meiosis inhibitor 1
0,545253866	0,00083	0,775930854	0,04325	MEIS1	Meis homeobox 1
0,455966583	0,00017	0,729510172	0,01459	MEIS1	Meis homeobox 1
1,544350266	0,00152	1,426025717	0,00051	MEOX1	mesenchyme homeobox 1
2,698205069	0	1,802500925	0,00001	MERTK	c-mer proto-oncogene tyrosine kinase
1,337927555	0,03607	1,215879283	0,03905	MERTK	c-mer proto-oncogene tyrosine kinase
1,286097483	0,0038	1,196648963	0,0026	MESP1	mesoderm posterior 1 homolog (mouse)
0,628506687	0,02641	0,822450069	0,00381	METAP1	methionyl aminopeptidase 1
0,545253866	0,00633	0,735093668	0,00014	METAP2	methionyl aminopeptidase 2
0,5090926	0,02436	0,791685866	0,01029	METRNL	meteorin, glial cell differentiation regulator-like
0,679714121	0,00977	0,839731493	0,04117	METTL16	methyltransferase like 16
1,247465572	0,03838	1,190856849	0,00579	METTL21B	methyltransferase like 21B
0,709070018	0,04278	0,852634892	0,03507	METTL3	methyltransferase like 3
0,70759708	0,00429	0,76630998	0,0001	METTL5	methyltransferase like 5
0,836826243	0,04354	0,882091365	0,02393	METTL6	methyltransferase like 6
1,320422841	0,04034	1,180174343	0,02984	METTL7A	methyltransferase like 7A
0,542990928	0,00297	0,674083866	0,00025	METTL8	methyltransferase like 8
0,470087101	0,00305	0,716480825	0,00054	METTL8	methyltransferase like 8
0,689680461	0,00425	0,767373048	0,00011	METTL8	methyltransferase like 8
0,589269704	0,00479	0,608783009	0	MFHAS1	malignant fibrous histiocytoma amplified sequence 1
0,493116352	0,00076	0,68491649	0	MFHAS1	malignant fibrous histiocytoma amplified sequence 1
1,984808749	0,00028	1,701727459	0,00001	MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
0,655651007	0,04579	0,801625329	0,01777	MFSD5	major facilitator superfamily domain containing 5
0,422786144	0,01932	0,504875649	0,00109	MFSD6	major facilitator superfamily domain containing 6
0,576343173	0,00329	0,660669203	0	MFSD6	major facilitator superfamily domain containing 6
1,417157397	0,0164	1,268391399	0,0026	MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase
1,388955136	0,01605	1,29145735	0,01896	MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A
0,828170661	0,01943	0,841479482	0,01096	MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B
0,732042848	0,0443	0,856781955	0,03586	MGC12488	hypothetical protein MGC12488
3,142690067	0,00009	1,882956929	0,00034	MGC16075	hypothetical LOC84847
0,646624466	0,02374	0,787853886	0,00192	MGC21881	hypothetical locus MGC21881
0,441657526	0,00306	0,738669032	0,00821	MGLL	monoglyceride lipase
0,718968266	0,01767	0,723467443	0,00259	MGLL	monoglyceride lipase
0,466839972	0,01186	0,569986636	0,00183	MGST1	microsomal glutathione S-transferase 1
0,568408487	0,00005	0,76154437	0,02012	MGST1	microsomal glutathione S-transferase 1
0,489370825	0,00041	0,730522189	0,0146	MGST1	microsomal glutathione S-transferase 1
0,711531731	0,00883	0,838568184	0,01967	MGST1	microsomal glutathione S-transferase 1
1,42800398	0,04635	1,464085696	0,00008	MIAT	myocardial infarction associated transcript (non-protein coding)
2,001386775	0,00004	2,194663875	0,00001	MIAT	myocardial infarction associated transcript (non-protein coding)
0,518709968	0,00024	0,683020128	0	MICALCL	MICAL C-terminal like
0,618995145	0,00186	0,734584317	0,00001	MICALL1	MICAL-like 1
2,323017464	0,00001	1,670175839	0,00011	MICB	MHC class I polypeptide-related sequence B
0,561360711	0,00226	0,76418826	0,00025	MID1	midline 1 (Opitz/BBB syndrome)
0,71946679	0,04574	0,768970416	0,0009	MID1	midline 1 (Opitz/BBB syndrome)
0,70027816	0,02791	0,685866644	0,00004	MID2	midline 2
1,20163605	0,04953	1,136029265	0,03407	MIER1	mesoderm induction early response 1 homolog (Xenopus laevis)
0,605416542	0,00423	0,657927263	0,00001	MINA	MYC induced nuclear antigen
0,580351957	0,00261	0,708087719	0,00027	MIOS	missing oocyte, meiosis regulator, homolog (Drosophila)
0,615145672	0,01404	0,673150035	0	MIOS	missing oocyte, meiosis regulator, homolog (Drosophila)
0,709070018	0,01191	0,727994774	0,00003	MIPEP	mitochondrial intermediate peptidase
0,668500248	0,03519	0,72597914	0,00029	MIPEP	mitochondrial intermediate peptidase
2,404938498	0,00068	2,418311352	0,00003	MIR143HG	MIR143 host gene (non-protein coding)
0,715984371	0,03723	0,691595315	0,00052	MIR22HG	MIR22 host gene (non-protein coding)
0,642157904	0,00543	0,625031151	0	MIS18A	MIS18 kinetochore protein homolog A (S. pombe)
0,682073917	0,02792	0,688247801	0,00471	MITD1	MIT, microtubule interacting and transport, domain containing 1
1,25353302	0,01604	1,194991205	0,00513	MIXL1	Mix paired-like homeobox
0,60332196	0,00612	0,713012859	0	MKI67IP	MKI67 (FHA domain) interacting nucleolar phosphoprotein
1,561572985	0,00027	1,115739322	0,04102	MKI67IP	MKI67 (FHA domain) interacting nucleolar phosphoprotein
0,73153561	0,00831	0,768437591	0,00054	MKKS	McKusick-Kaufman syndrome
1,327765158	0,00973	1,231144413	0,00096	MKRN2	makorin ring finger protein 2
0,688725023	0,00935	0,745872013	0,00022	MLF1	myeloid leukemia factor 1
0,76418826	0,01927	0,729510172	0,00002	MLF1IP	MLF1 interacting protein
0,729510172	0,03167	0,674083866	0,00001	MLF1IP	MLF1 interacting protein
1,43097652	0,02681	1,486582984	0,00001	MLKL	mixed lineage kinase domain-like
0,662503509	0,02423	0,743291492	0,00003	MLL3	myeloid/lymphoid or mixed-lineage leukemia 3
0,650220073	0,024	0,807201075	0,00393	MLLT4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
0,734584317	0,01728	0,813943185	0,00121	MMAB	methylmalonic aciduria (cobalamin deficiency) cblB type
0,752623374	0,02097	0,77271055	0,00723	MMADHC	methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria
5,007185835	0,00001	2,370185542	0,00001	MME	membrane metallo-endopeptidase
2,275210456	0,00005	2,074839873	0	MME	membrane metallo-endopeptidase
1,284315809	0,04576	1,25092908	0,01781	MMP11	matrix metallopeptidase 11 (stromelysin 3)
2,730187436	0,00949	2,431758566	0,00394	MMP12	matrix metallopeptidase 12 (macrophage elastase)
1,387992719	0,01739	1,712376569	0	MMP14	matrix metallopeptidase 14 (membrane-inserted)
1,479387509	0,03637	1,964279191	0,00001	MMP14	matrix metallopeptidase 14 (membrane-inserted)
1,4054187	0,00757	1,545421099	0	MMP14	matrix metallopeptidase 14 (membrane-inserted)
1,411275843	0,00083	1,20664392	0,02605	MMP16	matrix metallopeptidase 16 (membrane-inserted)
1,300440147	0,02923	1,266634254	0,00027	MMP19	matrix metallopeptidase 19
1,529436278	0,0016	1,395710764	0,00152	MMP25	matrix metallopeptidase 25
2,375119332	0,00019	2,836280071	0	MMP7	matrix metallopeptidase 7 (matrilysin, uterine)
1,876442393	0,00639	1,952063522	0,0001	MMP9	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
0,624598063	0,00338	0,652929894	0,00027	MN1	meningioma (disrupted in balanced translocation) 1
1,876442393	0,00211	1,493813457	0,02662	MNDA	myeloid cell nuclear differentiation antigen
0,818469182	0,04229	0,774855931	0,01518	MNT	MAX binding protein
1,374588696	0,00663	1,124278924	0,03963	MNX1	motor neuron and pancreas homeobox 1
0,715984371	0,02118	0,716977624	0,00268	MOBKL1A	MOB1, Mps One Binder kinase activator-like 1A (yeast)
0,496202187	0,00446	0,718470088	0,00032	MORC4	MORC family CW-type zinc finger 4
1,231998073	0,03768	1,209155676	0,00473	MORN1	MORN repeat containing 1
1,557249382	0,00512	1,725482689	0,00092	MPEG1	macrophage expressed 1
1,586667686	0,00711	1,702907415	0,00038	MPEG1	macrophage expressed 1
0,595428425	0,00524	0,713507253	0	MPHOSPH10	M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein)
1,159095952	0,04857	1,121166078	0,02917	MPL	myeloproliferative leukemia virus oncogene
1,38991822	0,00188	1,187559666	0,04529	MPP2	membrane protein, palmitoylated 2 (MAGUK p55 subfamily member 2)
0,518350551	0,00355	0,716977624	0,03838	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)
0,365261095	0,01679	0,484980955	0,01734	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)
0,462331639	0,03833	0,597081594	0,00004	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7)

2,626242251	0,0009	1,881652215	0,00002	MPPED2	metallophosphoesterase domain containing 2
1,424050196	0,02019	1,42899414	0,0001	MPPED2	metallophosphoesterase domain containing 2
0,55632506	0,01559	0,706127202	0,00312	MPZL2	myelin protein zero-like 2
0,652929894	0,00516	0,772175133	0,00173	MPZL2	myelin protein zero-like 2
0,520871715	0,00347	0,710053679	0,00071	MPZL3	myelin protein zero-like 3
0,593779833	0,0012	0,802181166	0,0159	MPZL3	myelin protein zero-like 3
1,231998073	0,03101	1,175276328	0,02483	MR1	major histocompatibility complex, class I-related
1,25092908	0,01534	1,126619228	0,03047	MRAP	melanocortin 2 receptor accessory protein
1,30224419	0,01355	1,425037614	0,0001	MRAS	muscle RAS oncogene homolog
1,490710387	0,02761	1,427014506	0,00324	MRC1	mannose receptor, C type 1
0,636397468	0,01716	0,798298386	0,00033	MRE11A	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)
1,305859787	0,00343	1,151887642	0,0188	MRO	maestro
0,764718139	0,03186	0,768970416	0,00022	MRPL1	mitochondrial ribosomal protein L1
0,750019495	0,03158	0,800514811	0,01283	MRPL13	mitochondrial ribosomal protein L13
0,785128119	0,02022	0,823591017	0,00095	MRPL15	mitochondrial ribosomal protein L15
0,744322628	0,00617	0,866336856	0,0261	MRPL22	mitochondrial ribosomal protein L22
0,775393206	0,02259	0,768970416	0,00119	MRPL3	mitochondrial ribosomal protein L3
0,804966138	0,02986	0,79774524	0,00042	MRPL32	mitochondrial ribosomal protein L32
0,612592666	0,01158	0,868140228	0,00933	MRPL35	mitochondrial ribosomal protein L35
0,765248385	0,04004	0,855595026	0,00602	MRPL36	mitochondrial ribosomal protein L36
0,716977624	0,0305	0,784584098	0,00187	MRPL39	mitochondrial ribosomal protein L39
0,737134609	0,04649	0,87175824	0,00122	MRPL4	mitochondrial ribosomal protein L4
0,723467443	0,01551	0,784040454	0	MRPL47	mitochondrial ribosomal protein L47
0,750539549	0,0018	0,882702996	0,01472	MRPL51	mitochondrial ribosomal protein L51
0,670356296	0,00295	0,762600827	0,00417	MRPS18C	mitochondrial ribosomal protein S18C
0,650670928	0,00493	0,894404902	0,03056	MRPS21	mitochondrial ribosomal protein S21
0,795536484	0,03955	0,844400887	0,00204	MRPS22	mitochondrial ribosomal protein S22
0,800514811	0,02279	0,891928519	0,00295	MRPS27	mitochondrial ribosomal protein S27
0,728499557	0,02235	0,79774524	0,0231	MRPS28	mitochondrial ribosomal protein S28
0,724973416	0,0454	0,781869643	0,00029	MRPS36	mitochondrial ribosomal protein S36
0,619424349	0,04003	0,802181166	0,00137	MRPS9	mitochondrial ribosomal protein S9
0,782411782	0,02887	0,846158597	0,0051	MRRF	mitochondrial ribosome recycling factor
1,494849249	0,02349	1,373636233	0,0002	MRVI1	murine retrovirus integration site 1 homolog
1,657489809	0,00869	1,387992719	0,00307	MRVI1	murine retrovirus integration site 1 homolog
2,319799309	0,00053	1,508380077	0,03995	MS4A1	membrane-spanning 4-domains, subfamily A, member 1
1,422077411	0,02508	1,503161478	0,01196	MS4A4A	membrane-spanning 4-domains, subfamily A, member 4
1,841651394	0,00838	2,050534476	0,00242	MS4A4A	membrane-spanning 4-domains, subfamily A, member 4
1,300440147	0,00966	1,216722359	0,00897	MS4A4A	membrane-spanning 4-domains, subfamily A, member 4
1,471206746	0,02098	1,388955136	0,00424	MS4A6A	membrane-spanning 4-domains, subfamily A, member 6A
1,450952208	0,0037	1,407368375	0,00071	MS4A6A	membrane-spanning 4-domains, subfamily A, member 6A
1,472226862	0,00281	1,500038989	0,00026	MS4A6A	membrane-spanning 4-domains, subfamily A, member 6A
1,437936533	0,02352	1,442928687	0,00038	MS4A6A	membrane-spanning 4-domains, subfamily A, member 6A
1,803750757	0,00191	1,36983298	0,00437	MS4A7	membrane-spanning 4-domains, subfamily A, member 7
1,157490217	0,03822	1,132098902	0,01971	MS4A8B	membrane-spanning 4-domains, subfamily A, member 8B
0,504525817	0,00371	0,660211421	0,00163	MSH2	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
0,643048742	0,00953	0,765778999	0,00002	MSH3	mutS homolog 3 (E. coli)
1,275444392	0,03996	1,203303026	0,00959	MSI2	musashi homolog 2 (Drosophila)
1,316766922	0,01196	1,179356592	0,00235	MSI2	musashi homolog 2 (Drosophila)
0,727490342	0,00341	0,814507563	0,01731	MSMB	microseminoprotein, beta-
0,729510172	0,0083	0,755236293	0,00058	MSMB	microseminoprotein, beta-
0,574747424	0,00975	0,714992493	0,00229	MSX2	msh homeobox 2
0,639049682	0,0029	0,86934456	0,0229	MTA3	metastasis associated 1 family, member 3
0,785128119	0,04004	0,725476104	0,01703	MTAP	methylthioadenosine phosphorylase
0,624598063	0,00534	0,71548826	0,00035	MTCH2	mitochondrial carrier 2
0,535515412	0,00129	0,589269704	0	MTF1	metal-regulatory transcription factor 1
1,267512522	0,03333	1,275444392	0,00475	MTFP1	mitochondrial fission process 1
0,643940815	0,03781	0,821880187	0,00015	MTIF2	mitochondrial translational initiation factor 2
0,70270935	0,00816	0,789493887	0,0003	MTMR1	myotubularin related protein 1
0,755236293	0,0112	0,846158597	0,00607	MTMR1	myotubularin related protein 1
0,67877249	0,01597	0,808881348	0,00411	MTMR10	myotubularin related protein 10
1,32317144	0,03733	1,304954948	0,00004	MTMR9LP	myotubularin related protein 9-like, pseudogene
0,660211421	0,00751	0,8362464	0,01061	MTRF1L	mitochondrial translational release factor 1-like
0,672683604	0,02191	0,772175133	0,00014	MTSS1	metastasis suppressor 1
0,548285794	0,04204	0,781869643	0,04802	MTUS1	microtubule associated tumor suppressor 1
1,851892045	0,00432	1,715941061	0,00001	MUC1	mucin 1, cell surface associated
1,41029796	0,02376	1,387992719	0,00001	MUC1	mucin 1, cell surface associated
1,795020101	0,00272	1,448942155	0,00415	MUC1	mucin 1, cell surface associated
0,37579037	0,00339	0,508739846	0,00006	MUC15	mucin 15, cell surface associated
0,285388677	0,0001	0,498961359	0,00413	MUC15	mucin 15, cell surface associated
1,686462221	0,00937	1,685293659	0,00077	MUC4	mucin 4, cell surface associated
2,436820527	0,01148	2,067661472	0,00099	MUC4	mucin 4, cell surface associated
2,344044567	0,0028	1,854461093	0,00057	MUC4	mucin 4, cell surface associated
1,419123356	0,02636	1,468150636	0,0001	MUC5AC	mucin 5AC, oligomeric mucus/gel-forming
0,656105627	0,04628	0,685391402	0	MUT	methylmalonyl CoA mutase
0,567621051	0,00483	0,770037174	0,00178	MXI1	MAX interactor 1
1,225185332	0,01909	1,164733586	0,01347	MXRA7	matrix-remodelling associated 7
0,651573575	0,00077	0,758383773	0,0365	MYCL1	v-myc myelocytomatosis viral oncogene homolog 1, lung carcinoma derived (avian)
1,167158102	0,02229	1,112650121	0,0439	MYCN	v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian)
1,162314108	0,03729	1,160703914	0,00379	MYCT1	myc target 1
1,811267966	0,00028	1,257884972	0,00482	MYCT1	myc target 1
1,456999114	0,02672	1,470187336	0,00064	MYEF2	myelin expression factor 2
1,348167732	0,02824	1,343503426	0,00055	MYH10	myosin, heavy chain 10, non-muscle
1,681792831	0,0043	1,462057448	0,01101	MYH11	myosin, heavy chain 11, smooth muscle
0,765778999	0,04901	0,903752727	0,04548	MYL12B	myosin, light chain 12B, regulatory
0,804966138	0,01007	0,811127156	0,00076	MYO10	myosin X
0,649769531	0,04795	0,743291492	0,00012	MYO19	myosin XIX
0,729510172	0,01478	0,708087719	0,01105	MYO1B	myosin IB
0,696888619	0,01237	0,846745312	0,02828	MYO1E	myosin IE
1,675974269	0,00015	1,493813457	0,00062	MYO1F	myosin IF
1,394743666	0,03581	1,297738767	0,0034	MYO1G	myosin IG
1,71356391	0,01973	1,456999114	0,00068	MYO1G	myosin IG
0,510506063	0,00434	0,582366793	0,00001	MYO5B	myosin VB
0,604997045	0,00639	0,730522189	0,00024	MYO5B	myosin VB
0,438910899	0,00806	0,575145947	0	MYO6	myosin VI
1,330529041	0,02906	1,32592576	0,00002	MYO7A	myosin VIIA
1,278099363	0,03157	1,111108729	0,00792	MYO7A	myosin VIIA
0,626332219	0,01751	0,825877665	0,00137	MYO9A	myosin IXA
3,540615058	0,00008	4,058650186	0,00001	MZB1	marginal zone B and B1 cell-specific protein

4,298996691	0,00129	5,819922735	0,00002	MZB1	marginal zone B and B1 cell-specific protein
1,219255094	0,03264	1,20664392	0,0094	N6AMT1	N-6 adenine-specific DNA methyltransferase 1 (putative)
0,688247801	0,02782	0,750539549	0,00003	NA	NA
0,520510799	0,03785	0,669891801	0,00331	NA	NA
1,368883813	0,00398	1,387030969	0,00016	NA	NA
0,708087719	0,00604	0,69399636	0,00002	NA	NA
0,708578698	0,03005	0,767373048	0,00054	NA	NA
1,442928687	0,04813	1,378405153	0,00229	NA	NA
1,183451022	0,04167	1,158292806	0,02101	NA	NA
0,791137301	0,02241	0,847332435	0,0282	NA	NA
1,279872414	0,0458	0,831045862	0,02932	NA	NA
0,573553512	0,00276	0,576742803	0,00001	NA	NA
0,663882579	0,02618	0,804966138	0,0426	NA	NA
1,25962998	0,04979	1,387992719	0,0053	NA	NA
0,777546036	0,0217	0,868140228	0,01729	NA	NA
1,585568273	0,00099	1,45296505	0,00113	NA	NA
0,575544746	0,00274	0,629378587	0,00505	NA	NA
0,687294348	0,02853	0,780786493	0,0011	NA	NA
0,76630998	0,03061	0,839731493	0,01229	NA	NA
0,736113431	0,03332	0,750539549	0,00016	NA	NA
0,434973676	0,0452	0,61301743	0,00092	NA	NA
0,578745108	0,04819	0,628071191	0,00561	NA	NA
0,501735874	0,01888	0,530711604	0,00003	NA	NA
0,644387315	0,00176	0,811127156	0,00189	NA	NA
1,424050196	0,02897	1,163120042	0,04364	NA	NA
1,545421099	0,02195	1,218410264	0,01861	NA	NA
1,208317843	0,04551	1,144724161	0,00639	NA	NA
1,339783602	0,00739	1,435944511	0,00022	NA	NA
0,487677731	0,00407	0,566049451	0,00063	NA	NA
0,745872013	0,0294	0,87539133	0,01485	NA	NA
1,207480591	0,04276	1,180992661	0,02984	NA	NA
1,633537982	0,04369	1,252664439	0,02349	NA	NA
2,046274939	0,00197	1,607701981	0,00031	NA	NA
1,159899655	0,04885	1,146312186	0,00247	NA	NA
1,296839555	0,01242	1,257884972	0,00182	NA	NA
1,335148303	0,00332	1,320422841	0,00241	NA	NA
0,568014632	0,01589	0,709561678	0,00425	NA	NA
1,354724977	0,01021	1,199971382	0,01249	NA	NA
1,244011653	0,04573	1,159899655	0,00287	NA	NA
1,850608856	0,00385	1,38991822	0,02512	NA	NA
0,546010273	0,00658	0,652025368	0,00005	NA	NA
0,550570799	0,02098	0,541862983	0	NA	NA
1,509425969	0,00215	1,303147149	0,01827	NA	NA
1,710004356	0,0001	1,317679952	0,00677	NA	NA
0,703684188	0,04042	0,697371833	0,00298	NA	NA
0,490389502	0,00328	0,473356816	0	NA	NA
1,17609125	0,03663	1,088997015	0,04153	NA	NA
0,768437591	0,02937	0,829894586	0,00505	NA	NA
0,725476104	0,00187	0,744838732	0,0014	NA	NA
2,174976782	0,0022	1,998614186	0,0002	NA	NA
0,470739232	0,0001	0,586824089	0,00001	NA	NA
0,590087172	0,00027	0,701249625	0,00041	NA	NA
0,785672517	0,04578	0,798851916	0,00532	NA	NA
0,734075318	0,00544	0,813379198	0,00635	NA	NA
0,730522189	0,03414	0,805524291	0,01723	NA	NA
0,604997045	0,00464	0,804408371	0,02858	NA	NA
0,660211421	0,0401	0,701735863	0,00003	NA	NA
0,658383461	0,00184	0,828170661	0,01471	NA	NA
1,517819253	0,00723	1,525201653	0,00003	NA	NA
0,751059963	0,00454	0,701249625	0,00002	NA	NA
0,734075318	0,00301	0,70270935	0,0001	NA	NA
1,243149669	0,03859	1,139183377	0,00746	NA	NA
0,785672517	0,00879	0,846158597	0,04491	NA	NA
0,541862983	0,00489	0,678302164	0,00047	NA	NA
0,781869643	0,01857	0,862741345	0,00832	NA	NA
2,139094176	0,00248	1,401527449	0,03281	NA	NA
0,802181166	0,01715	0,851453708	0,00315	NA	NA
0,816203046	0,02294	0,856781955	0,01007	NA	NA
1,407368375	0,0024	1,329607108	0,00001	NA	NA
1,53368266	0,01709	1,444930398	0,00004	NA	NA
1,285206337	0,0178	1,231998073	0,00339	NA	NA
0,701735863	0,00139	0,648869383	0,00004	NA	NA
1,374588696	0,01818	1,373636233	0,00073	NA	NA
1,439931319	0,00665	1,321338406	0,00026	NA	NA
0,685866644	0,00731	0,759962428	0,00598	NA	NA
2,785622961	0	2,162949527	0	NA	NA
0,840896415	0,03648	0,90062598	0,0112	NA	NA
1,448942155	0,02778	1,271031689	0,00512	NA	NA
1,343503426	0,0032	1,237132479	0,0056	NA	NA
0,615572207	0,00545	0,664342907	0	NA	NA
1,316766922	0,01781	1,200803427	0,00686	NA	NA
1,28877463	0,00924	1,282536603	0,00196	NA	NA
1,296839555	0,01838	1,247465572	0,00108	NA	NA
1,33422317	0,00833	1,225185332	0,01741	NA	NA
1,273677475	0,04821	1,185914499	0,00997	NA	NA
1,298638603	0,01964	1,411275843	0,00038	NA	NA
1,231998073	0,02666	1,134455485	0,03331	NA	NA
1,249196126	0,04652	1,246601194	0,00176	NA	NA
1,2397077	0,01268	1,151887642	0,03188	NA	NA
0,794985251	0,00724	0,853817714	0,01263	NA	NA
1,229438867	0,0319	1,197478705	0,0041	NA	NA
4,178543051	0,00422	3,950403446	0,00005	NA	NA
1,226884977	0,01971	1,173648178	0,01349	NA	NA
0,714992493	0,01815	0,817335328	0,01074	NA	NA
1,715941061	0,01761	1,25092908	0,00081	NA	NA
0,595015848	0,00241	0,740206649	0,00541	NA	NA
0,314253344	0,00001	0,492092011	0	NA	NA
1,260503392	0,03267	1,315854525	0,00049	NA	NA

1,307671349	0,02553	1,333298677	0,00037	NA	NA
1,266634254	0,04987	1,125058485	0,03797	NA	NA
1,278985581	0,02154	1,170398641	0,018	NA	NA
1,20664392	0,01986	1,2397077	0,01241	NA	NA
1,185914499	0,04592	1,143138335	0,02645	NA	NA
0,793333843	0,01338	0,792234811	0,00005	NA	NA
1,506290467	0,00177	1,342572503	0,00004	NA	NA
1,28788163	0,02746	1,154285418	0,02039	NA	NA
1,268391399	0,02822	1,141554707	0,00942	NA	NA
0,729510172	0,02744	0,821310701	0,00461	NA	NA
0,539240216	0,00746	0,679243142	0,00015	NA	NA
1,204972315	0,0212	1,227735684	0,00308	NA	NA
0,581560021	0,00616	0,686342216	0	NA	NA
2,127265346	0,00025	1,698192493	0,00003	NA	NA
1,53261996	0,00162	1,392811481	0,00045	NA	NA
0,582770599	0,02071	0,544121221	0,00017	NA	NA
1,283425898	0,04235	1,173648178	0,00582	NA	NA
2,240778428	0,0002	1,488645255	0,00027	NA	NA
1,393777239	0,0034	1,221793102	0,00018	NA	NA
1,613283518	0,00129	1,307671349	0,00006	NA	NA
1,194163187	0,01945	1,210833084	0,00054	NA	NA
0,807201075	0,01416	0,885153765	0,02194	NA	NA
1,447938172	0,01024	1,174461971	0,0368	NA	NA
0,782954296	0,00438	0,842062954	0,01586	NA	NA
1,699369998	0,00306	1,514666316	0,00044	NA	NA
2,216064696	0,00032	1,935894054	0,0001	NA	NA
0,581560021	0,00203	0,709561678	0,00004	NA	NA
1,183451022	0,04148	1,238848698	0,00102	NA	NA
1,396678532	0,00271	1,276328769	0,00371	NA	NA
1,386069886	0,00296	1,208317843	0,03026	NA	NA
1,339783602	0,02427	1,311302014	0,00218	NA	NA
0,787853886	0,02037	0,843815796	0,00952	NA	NA
1,155085785	0,04631	1,139183377	0,01783	NA	NA
0,615999037	0,00079	0,677362489	0,00053	NA	NA
1,427014506	0,00287	1,220946513	0,00229	NA	NA
1,387992719	0,03081	1,232852325	0,00972	NA	NA
1,197478705	0,0363	1,137605228	0,0427	NA	NA
1,240567298	0,04754	1,194991205	0,00263	NA	NA
1,209155676	0,04895	1,191682575	0,00215	NA	NA
0,730522189	0,04937	0,781869643	0,00185	NA	NA
1,569168196	0,0188	1,374588696	0,0026	NA	NA
1,223488041	0,03005	1,226884977	0,00175	NA	NA
1,283425898	0,03337	1,248330549	0,0002	NA	NA
0,780786493	0,03375	0,853817714	0,02315	NA	NA
0,559806444	0,00573	0,639492791	0,00062	NA	NA
0,602486157	0,00316	0,765778999	0,00045	NA	NA
0,509445598	0,0037	0,628506687	0	NA	NA
1,32408891	0,01508	1,147902414	0,01516	NA	NA
1,242288282	0,03657	1,106497353	0,04921	NA	NA
1,316766922	0,00595	1,203303026	0,0002	NA	NA
0,440434687	0,00135	0,571965487	0,00001	NA	NA
0,768970416	0,02926	0,73153561	0,00102	NA	NA
0,797192477	0,04202	0,787853886	0,0083	NA	NA
1,242288282	0,04229	1,188383105	0,04865	NA	NA
0,793333843	0,02273	0,808320869	0,00516	NA	NA
1,274560627	0,01401	1,199971382	0,01512	NA	NA
0,706127202	0,0199	0,792234811	0,0088	NA	NA
0,657015814	0,00098	0,70514898	0,00012	NA	NA
0,730016005	0,04683	0,694477568	0,01119	NA	NA
1,278985581	0,01345	1,151089491	0,00888	NA	NA
0,692554734	0,02055	0,855595026	0,00586	NA	NA
1,454980684	0,00717	1,230291345	0,00472	NA	NA
0,709070018	0,01497	0,852634892	0,01067	NA	NA
0,697855382	0,02703	0,888842681	0,01462	NA	NA
0,629378587	0,03616	0,796088099	0,03349	NA	NA
0,557096825	0,01424	0,790589117	0,02024	NA	NA
1,780151467	0,0045	1,555092072	0,00063	NA	NA
1,828930179	0,01331	1,346300069	0,02367	NA	NA
0,527045712	0,00315	0,753667455	0,00033	NA	NA
1,326845141	0,00268	1,17609125	0,0141	NA	NA
2,423345321	0,01178	1,708819482	0,00637	NA	NA
0,561360711	0,00288	0,743806881	0,00019	NA	NA
1,460032011	0,00347	1,53581027	0,00021	NA	NA
2,005552872	0,00004	1,563739286	0,00135	NA	NA
1,56049096	0,00092	1,320422841	0,00212	NA	NA
1,544350266	0,02988	1,712376569	0,00058	NA	NA
1,606587994	0,00285	1,278985581	0,00008	NA	NA
1,398616083	0,03128	1,231998073	0,00389	NA	NA
0,295248165	0,00087	0,667111585	0,00308	NA	NA
1,350974085	0,04769	1,356604327	0,0001	NA	NA
0,52268005	0,00374	0,738157203	0,04849	NA	NA
0,736623843	0,03816	0,892546971	0,04829	NA	NA
1,70408819	0,00132	1,249196126	0,00246	NA	NA
1,261377409	0,03327	1,352848231	0,00001	NA	NA
2,295804828	0,00221	2,730187436	0,00003	NA	NA
2,0907202	0,00207	2,083486858	0,00002	NA	NA
0,596667872	0,00881	0,657015814	0,00997	NA	NA
0,482968164	0,01617	0,656560563	0,00249	NA	NA
0,623732786	0,00692	0,67689314	0,00349	NA	NA
0,691116103	0,04073	0,741233505	0,01122	NA	NA
1,723092319	0,00348	1,439931319	0,00004	NA	NA
1,390881972	0,03593	1,45195828	0	NA	NA
1,710004356	0,00014	1,352848231	0,01181	NA	NA
0,660669203	0,0411	0,785672517	0,00156	NA	NA
1,589970502	0,00318	1,282536603	0,00205	NA	NA
1,204137381	0,0413	1,168777249	0,03177	NA	NA
1,644900137	0,01694	1,89605393	0,00027	NA	NA
1,341642225	0,00555	1,173648178	0,03595	NA	NA

1,289668251	0,02627	1,28788163	0,00237	NA	NA
1,4063932	0,00927	1,320422841	0,02184	NA	NA
1,640345822	0,00079	1,531557997	0	NA	NA
3,429504147	0,01126	4,41373496	0,00016	NA	NA
3,267075964	0,00785	3,701217712	0,00009	NA	NA
1,607701981	0,01472	1,815038311	0,00025	NA	NA
4,03340982	0,01521	4,629960868	0,00005	NA	NA
1,541142217	0,00309	1,300440147	0,00148	NA	NA
3,474968741	0,00368	3,765913858	0,00004	NA	NA
3,443796753	0,00242	3,863745316	0,00008	NA	NA
3,543070076	0,0097	4,106758183	0,00005	NA	NA
3,491870365	0,00043	2,334316204	0,00003	NA	NA
2,973165969	0,03993	4,665397479	0,00005	NA	NA
3,020945171	0,02494	4,779964819	0,0002	NA	NA
1,394743666	0,00647	1,32592576	0,00054	NA	NA
2,440201021	0,00519	2,381713699	0,00001	NA	NA
3,1058755	0,00293	3,193193545	0,00003	NA	NA
2,51925996	0,02195	2,756810306	0,00001	NA	NA
3,516158244	0,00276	3,944930818	0,00003	NA	NA
1,708819482	0,00165	1,32408891	0,00165	NA	NA
1,633537982	0,04962	1,866065983	0,00135	NA	NA
2,615342697	0,00416	3,1058755	0,00003	NA	NA
3,893317497	0,00243	3,625047753	0,00001	NA	NA
0,755236293	0,02861	0,874784765	0,00597	NA	NA
1,376495602	0,03176	1,17772279	0,03995	NA	NA
2,233025924	0,00333	1,857033705	0,00017	NA	NA
0,590087172	0,00522	0,763658749	0,00001	NA	NA
0,726986259	0,04646	0,818469182	0,00287	NA	NA
0,698339266	0,03814	0,689680461	0	NA	NA
1,755643595	0,00633	1,747145792	0,00024	NA	NA
1,53581027	0,00519	1,477338064	0,00004	NA	NA
0,78024548	0,03474	0,78132788	0,00405	NA	NA
1,952063522	0,02439	1,666706414	0,00881	NA	NA
0,775930854	0,04176	0,762072415	0,0032	NA	NA
1,643760375	0,00005	1,541142217	0,00045	NA	NA
0,536258308	0,00129	0,525222272	0,00001	NA	NA
0,743806881	0,02903	0,757858283	0,01092	NA	NA
1,714752073	0,00823	1,485552921	0,00705	NA	NA
1,808758755	0,00959	1,422077411	0,00275	NA	NA
0,664803554	0,02137	0,690637224	0,00147	NA	NA
2,321407829	0,00004	2,122846418	0,00052	NA	NA
1,914542916	0,00006	2,143546925	0	NA	NA
1,851892045	0,00003	1,31494276	0,0065	NA	NA
0,626332219	0,0353	0,633317127	0	NA	NA
0,524131238	0,04866	0,743806881	0,00305	NA	NA
3,597513249	0,00906	4,313921727	0,00002	NA	NA
0,784040454	0,03329	0,883927531	0,0155	NA	NA
0,560583039	0,00086	0,773246337	0,00199	NA	NA
1,880348405	0,04517	1,392811481	0,00654	NA	NA
2,119905567	0,00004	1,873842894	0,00007	NA	NA
1,212512819	0,03493	1,17609125	0,02612	NA	NA
1,479387509	0,04237	1,984808749	0,00066	NA	NA
0,652929894	0,0108	0,720464874	0,00727	NA	NA
2,613530508	0,02789	4,158317741	0,00011	NA	NA
1,682958965	0,01811	1,459020344	0,00586	NA	NA
1,51887169	0,04286	1,420107359	0,00254	NA	NA
0,556710809	0,00997	0,690637224	0,00001	NA	NA
1,28877463	0,04486	1,159095952	0,02005	NA	NA
1,281647924	0,03048	1,204972315	0,04716	NA	NA
0,814507563	0,04431	0,806641759	0,0006	NA	NA
0,69495911	0,0463	0,623300597	0,00023	NA	NA
1,306765254	0,02747	1,153485605	0,04929	NA	NA
0,540362701	0,01266	0,680185426	0,00374	NA	NA
1,674812975	0,00261	1,29145735	0,02469	NA	NA
1,769080871	0,00211	1,684125907	0,00003	NA	NA
3,792107861	0,00777	3,994458664	0,00005	NA	NA
0,498270131	0,04932	0,541862983	0,00017	NA	NA
0,541862983	0,00119	0,821310701	0,00719	NA	NA
1,336074078	0,02346	1,347233577	0,00043	NA	NA
1,352848231	0,01417	1,176906737	0,01072	NA	NA
1,73748437	0,00046	1,476314406	0,00025	NA	NA
0,70027816	0,03442	0,811127156	0,00079	NA	NA
2,572194967	0,03387	3,660396673	0,00015	NA	NA
0,765778999	0,03747	0,877213549	0,02235	NA	NA
1,52308874	0,00078	1,564823563	0,00299	NA	NA
0,802181166	0,04689	0,797192477	0,00516	NA	NA
1,615521555	0,00584	1,647182035	0,00028	NA	NA
2,8108374	0,00221	3,714067409	0,00002	NA	NA
0,683967652	0,00368	0,752101876	0,00641	NA	NA
4,9588308	0,00744	5,123039445	0,00003	NA	NA
0,597081594	0,02128	0,661127303	0,00006	NA	NA
0,716977624	0,03581	0,807201075	0,00486	NA	NA
3,533260206	0,00122	4,118160334	0,00002	NA	NA
2,946495372	0,00873	3,652793	0,00002	NA	NA
3,434261746	0,0172	4,877020376	0,00003	NA	NA
1,458009379	0,00628	1,431968741	0,00403	NA	NA
1,313121125	0,01983	1,487613762	0,04916	NA	NA
3,008407503	0,00172	3,319578342	0,00015	NA	NA
2,973165969	0,02083	4,37414183	0,00016	NA	NA
1,36983298	0,01447	1,159095952	0,00509	NA	NA
0,768970416	0,01002	0,842062954	0,00222	NA	NA
0,573553512	0,0047	0,840313752	0,04877	NA	NA
1,249196126	0,04108	1,243149669	0,00693	NA	NA
1,923854909	0,0012	1,561572985	0,00024	NA	NA
3,853047576	0,00071	3,673104649	0,00005	NA	NA
1,937236378	0,01179	1,961558008	0,00001	NA	NA
1,305859787	0,01002	1,264003098	0,0017	NA	NA
3,43664302	0,00085	4,441355335	0,00003	NA	NA

3,073750363	0,02925	4,401514437	0,00003	NA	NA
3,319578342	0,00184	2,37676621	0,00027	NA	NA
2,608101471	0,00072	3,557835974	0	NA	NA
2,857988279	0,0066	3,683302789	0,00009	NA	NA
1,20664392	0,04682	1,089752112	0,04989	NA	NA
1,203303026	0,04333	1,194991205	0,00027	NA	NA
3,552907183	0,01258	4,850051276	0,00001	NA	NA
1,237990291	0,0119	1,20664392	0,0478	NA	NA
3,244508622	0,00517	3,155787363	0,00002	NA	NA
0,767905135	0,01501	0,839149637	0,01145	NA	NA
2,308570835	0,00396	2,20992897	0,00008	NA	NA
3,108029075	0,01411	3,964118253	0,00001	NA	NA
3,29664834	0,02507	4,251582697	0,00005	NA	NA
2,952628811	0,00099	2,873880353	0,0001	NA	NA
1,45195828	0,0355	1,353786279	0,00345	NA	NA
0,695923196	0,00484	0,87175824	0,00374	NA	NA
3,287520749	0,00521	5,270719807	0	NA	NA
4,03900519	0,00611	5,024569525	0,00003	NA	NA
5,256126509	0,00147	7,180080405	0,00001	NA	NA
1,29056249	0,02442	1,335148303	0,00036	NA	NA
0,69399636	0,00297	0,855595026	0,00256	NA	NA
2,496661098	0,00291	2,74156561	0,00005	NA	NA
3,010493495	0,00204	2,938337267	0,00003	NA	NA
1,609932275	0,00031	1,409320755	0,00009	NA	NA
0,639936207	0,02493	0,782954296	0,02123	NA	NA
1,341642225	0,04879	1,459020344	0,00037	NA	NA
0,662044455	0,03544	0,795536484	0,00551	NA	NA
0,76630998	0,02368	0,877213549	0,0176	NA	NA
1,219255094	0,03032	1,150291893	0,01494	NA	NA
0,829894586	0,04404	0,89564567	0,02279	NA	NA
0,577943353	0,01245	0,683967652	0	NA	NA
0,72597914	0,00658	0,773782497	0,02254	NA	NA
0,748461493	0,01547	0,855002178	0,0201	NA	NA
0,691595315	0,00412	0,844400887	0,00437	NA	NA
0,632439771	0,01337	0,69640574	0,00008	NA	NA
0,368567304	0,00013	0,553248677	0,00139	NA	NA
0,71548826	0,0349	0,796640096	0,00141	NA	NA
0,786217292	0,04179	0,877213549	0,01704	NA	NA
0,659296807	0,00846	0,775393206	0,00077	NA	NA
0,616426163	0,00602	0,780786493	0,00489	NA	NA
0,613442489	0,02103	0,76101669	0,00001	NA	NA
0,689680461	0,01312	0,822450069	0,00506	NA	NA
0,629378587	0,01002	0,69399636	0,00001	NA	NA
1,25092908	0,00314	1,17609125	0,00201	NA	NA
1,42800398	0,00304	1,312211255	0,00517	NA	NA
0,655651007	0,00631	0,714992493	0,00043	NA	NA
1,871246996	0,00055	1,550786413	0,00054	NA	NA
0,633317127	0,04695	0,597081594	0	NA	NA
1,359428242	0,01464	1,237132479	0,00076	NA	NA
1,965641197	0,00052	1,62788637	0,00048	NA	NA
0,767373048	0,04413	0,908148418	0,04432	NA	NA
1,431968741	0,00361	1,119612889	0,0252	NA	NA
0,514056913	0,01175	0,573156093	0,00001	NA	NA
1,199139914	0,02538	1,21335356	0,00548	NA	NA
1,778917987	0,00086	1,71356391	0,00026	NA	NA
0,613867842	0,02121	0,829894586	0,00088	NA	NA
0,641268301	0,00462	0,7944344	0,00217	NA	NA
1,396678532	0,02025	1,268391399	0,00085	NA	NA
1,308578071	0,00326	1,162314108	0,01003	NA	NA
2,604488379	0,00577	1,815038311	0,00002	NA	NA
1,235418637	0,02334	1,2397077	0,00021	NA	NA
0,735093668	0,04449	0,872967591	0,04421	NA	NA
0,630688704	0,0091	0,749499801	0,00382	NA	NA
0,626332219	0,00191	0,863938187	0,00851	NA	NA
0,668500248	0,03328	0,886996305	0,00898	NA	NA
1,188383105	0,04938	1,146312186	0,02945	NA	NA
0,601651513	0,0409	0,841479482	0,02656	NA	NA
1,414213562	0,00672	1,278985581	0,00374	NA	NA
1,21167266	0,00818	1,132883885	0,01819	NA	NA
0,744322628	0,02631	0,820172911	0,00695	NA	NA
0,673616788	0,01615	0,824162085	0,00197	NA	NA
0,576343173	0,01031	0,880259014	0,03659	NA	NA
0,71548826	0,03318	0,787307977	0,00067	NA	NA
0,723969086	0,00715	0,868140228	0,00835	NA	NA
0,655651007	0,00031	0,765778999	0,0003	NA	NA
0,724973416	0,01374	0,831045862	0,00153	NA	NA
1,328685814	0,01716	1,337927555	0,00215	NA	NA
1,31494276	0,03653	1,217566019	0,00964	NA	NA
0,71400199	0,01255	0,826450318	0,00873	NA	NA
0,678302164	0,03511	0,672683604	0,00458	NA	NA
0,473685035	0,0025	0,689202576	0,00009	NA	NA
0,709561678	0,02993	0,794985251	0,02452	NA	NA
0,690637224	0,01679	0,697371833	0,01166	NA	NA
0,642603169	0,02248	0,736113431	0,00066	NA	NA
0,615572207	0,00404	0,737134609	0,00257	NA	NA
0,549046407	0,00098	0,667111585	0,00003	NA	NA
2,096524951	0,00047	1,656341323	0,00053	NA	NA
0,723467443	0,0276	0,892546971	0,02906	NA	NA
1,604362333	0,02334	1,444930398	0,01488	NA	NA
1,38991822	0,02344	1,409320755	0,00501	NA	NA
0,598739352	0,00013	0,7944344	0,00293	NA	NA
0,636838738	0,00392	0,786762445	0,00144	NA	NA
0,508035071	0,00661	0,649319301	0	NA	NA
1,275444392	0,04039	1,207480591	0,00347	NA	NA
0,783497187	0,02466	0,845572287	0,03492	NA	NA
1,404444876	0,02994	1,282536603	0,02884	NA	NA
0,813379198	0,04225	0,833353207	0,00322	NA	NA
0,50697974	0,00456	0,596254436	0,00046	NA	NA

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0,687770909	0,04281	0,652477474	0,00018	NA	NA
0,531447837	0,00221	0,658839976	0,00002	NA	NA
1,575707772	0,0045	1,473247686	0,00047	NA	NA
0,573156093	0,00773	0,818469182	0,0039	NA	NA
0,674083866	0,03176	0,76101669	0,00001	NA	NA
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0,755759964	0,01347	0,752101876	0,0001	NA	NA
1,434949535	0,00164	1,32408891	0,00009	NA	NA
0,699308041	0,01471	0,755236293	0,0002	NA	NA
0,594603558	0,00179	0,610050255	0,00002	NA	NA
2,51925996	0,00894	1,626758396	0,0081	NA	NA
0,423079298	0,00005	0,637722196	0,00513	NA	NA
2,489748471	0,00003	2,115501927	0,00005	NA	NA
1,616641738	0,00779	1,620006947	0,00012	NA	NA
0,573553512	0,00566	0,67877249	0,0008	NA	NA
0,773246337	0,02992	0,755236293	0,00013	NA	NA
1,284315809	0,00341	1,242288282	0,02158	NA	NA
0,754712984	0,00676	0,794985251	0,0061	NA	NA
1,227735684	0,01842	1,145517898	0,02096	NA	NA
0,78132788	0,04866	0,837406488	0,00704	NA	NA
0,731028724	0,03587	0,719965659	0,00044	NA	NA
0,520510799	0,01705	0,812815602	0,01259	NA	NA
1,368883813	0,01031	1,112650121	0,02324	NA	NA
2,549121255	0,00095	1,506290467	0,01415	NA	NA
0,76418826	0,04363	0,7944344	0,00464	NA	NA
0,532554102	0,00452	0,743291492	0,01595	NA	NA
0,74277646	0,02511	0,748461493	0,0001	NA	NA
1,377450046	0,00633	1,112650121	0,02887	NA	NA
0,790041312	0,01307	0,866336856	0,0419	NA	NA
0,554784736	0,00081	0,710053679	0,01364	NA	NA
2,401606855	0,00005	1,305859787	0,03577	NA	NA
2,264197804	0,00117	1,677136369	0,00013	NA	NA
0,717972255	0,04415	0,84323111	0,02936	NA	NA
0,632001549	0,0358	0,70759708	0,00021	NA	NA
1,55293775	0,00768	1,172834949	0,00437	NA	NA
1,569168196	0,00258	1,337927555	0,00539	NA	NA
0,545253866	0,00272	0,683967652	0,00034	NA	NA
1,295940965	0,02625	1,136029265	0,02378	NA	NA
0,680657058	0,00695	0,586011142	0	NA	NA
0,477972659	0,01003	0,438302861	0	NA	NA
0,609627547	0,01947	0,728499557	0,03092	NA	NA
0,571173123	0,00531	0,633756261	0,00001	NA	NA
2,613530508	0,00037	1,659789171	0,01451	NA	NA
1,199971382	0,03699	1,117287138	0,04152	NA	NA
0,575145947	0,01317	0,662044455	0,02771	NA	NA
1,398616083	0,04969	1,208317843	0,01311	NA	NA
0,682546859	0,0123	0,622437118	0,00048	NA	NA
1,218410264	0,03019	1,146312186	0,01363	NA	NA
1,467133344	0,03332	1,501079098	0,00007	NA	NA
1,266634254	0,02333	1,170398641	0,04134	NA	NA
0,500693628	0,00627	0,645728675	0,00001	NA	NA
0,779704843	0,03216	0,752101876	0,00368	NA	NA
1,224336392	0,01585	1,113421618	0,02112	NA	NA
0,493800431	0,00333	0,613867842	0,00001	NA	NA
1,193335743	0,04459	1,184271612	0,01682	NA	NA
2,531513188	0,00058	1,501079098	0,00427	NA	NA
0,586824089	0,00431	0,704660378	0,00015	NA	NA
0,313383255	0,00125	0,517991382	0,00004	NA	NA
1,489677463	0,00369	1,22010051	0,00367	NA	NA
1,969732886	0,02486	1,194163187	0,0261	NA	NA
1,300440147	0,00945	1,200803427	0,00628	NA	NA
1,215036792	0,03824	1,30224419	0,00595	NA	NA
0,459456442	0,00169	0,552482242	0	NA	NA
0,637280314	0,0008	0,852634892	0,00521	NA	NA
1,53368266	0,00194	1,23370717	0,00186	NA	NA
1,249196126	0,03928	1,155085785	0,02267	NA	NA
0,576343173	0,03527	0,689680461	0,00138	NA	NA
1,285206337	0,02829	1,199139914	0,01582	NA	NA
1,215879283	0,02394	1,109569472	0,04156	NA	NA
0,622868708	0,00986	0,768437591	0,00262	NA	NA
0,435275282	0,00392	0,536258308	0	NA	NA
1,638073396	0,02534	1,332374825	0,00061	NA	NA
0,71449707	0,00418	0,797192477	0,00215	NA	NA
0,754712984	0,03114	0,791685866	0,00336	NA	NA
1,185092771	0,02535	1,138394029	0,00597	NA	NA
0,670356296	0,00031	0,678302164	0,00086	NA	NA
1,204972315	0,02563	1,331451613	0,00248	NA	NA
0,387159514	0,00016	0,578344092	0,00003	NA	NA
1,296839555	0,03028	1,38991822	0,0199	NA	NA
0,675018993	0,00042	0,741233505	0,00696	NA	NA
0,493116352	0,04859	0,67689314	0,00019	NA	NA
0,667574152	0,03558	0,730522189	0,00006	NA	NA
0,570381858	0,0012	0,846158597	0,03806	NA	NA
1,382232207	0,00647	1,322254605	0,0004	NA	NA
2,133171562	0,00247	1,576800348	0,00643	NA	NA
1,230291345	0,03322	1,162314108	0,01742	NA	NA
0,599985691	0,0173	0,833931044	0,04595	NA	NA
0,66342257	0,00217	0,788400174	0,00112	NA	NA
0,773246337	0,04699	0,797192477	0,00094	NA	NA
0,542238704	0,01252	0,62676651	0,00082	NA	NA
0,752623374	0,03815	0,798851916	0,00346	NA	NA
1,375541818	0,00394	1,219255094	0,02891	NA	NA
1,849326556	0,01915	1,541142217	0,00667	NA	NA
0,683967652	0,03337	0,709561678	0,00368	NA	NA
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1,556170353	0,00416	1,229438867	0,02723	NA	NA

0,630251696	0,03867	0,615145672	0,0001	NA	NA
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1,427014506	0,00214	1,30224419	0,00194	NA	NA
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1,138394029	0,04297	1,108800644	0,01606	NA	NA
0,69495911	0,0162	0,812252396	0,0361	NA	NA
0,557096825	0,01001	0,561749952	0	NA	NA
0,704172113	0,02952	0,723467443	0,00359	NA	NA
0,693034943	0,02908	0,820172911	0,03277	NA	NA
0,796640096	0,01538	0,835087919	0,00966	NA	NA
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1,710004356	0,00557	1,378405153	0,00006	NA	NA
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0,710053679	0,03822	0,821880187	0,00102	NA	NA
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2,385017745	0,00006	1,929196369	0,00034	NA	NA
0,640379931	0,00934	0,691116103	0,00002	NA	NA
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0,671286251	0,00021	0,723467443	0,0003	NA	NA
0,361984543	0,00023	0,581560021	0,0005	NA	NA
0,628071191	0,02228	0,708087719	0,04382	NA	NA
1,167158102	0,02768	1,143138335	0,00406	NA	NA
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0,398044049	0,00006	0,556710809	0,00001	NA	NA
0,474342158	0,00546	0,520871715	0,00003	NA	NA
0,697855382	0,00402	0,849096246	0,00444	NA	NA
1,17772279	0,0305	1,4063932	0,00002	NA	NA
1,604362333	0,00171	1,45296505	0,00102	NA	NA
1,339783602	0,04494	1,229438867	0,03435	NA	NA
1,257884972	0,04335	1,104198847	0,04945	NA	NA
2,11696879	0,00336	2,302178983	0,00014	NA	NA
1,284315809	0,0494	1,164733586	0,02109	NA	NA
0,623732786	0,01209	0,706127202	0	NA	NA
1,343503426	0,00895	1,118837101	0,02779	NA	NA
0,703684188	0,00271	0,780786493	0,00774	NA	NA
1,275444392	0,01264	1,312211255	0,00114	NA	NA
1,32408891	0,00464	1,238848698	0,00108	NA	NA
0,76101669	0,03122	0,818469182	0,02991	NA	NA
0,746906729	0,00544	0,840896415	0,03399	NA	NA
1,229438867	0,02709	1,21335356	0,00199	NA	NA
1,289668251	0,04292	1,31494276	0,00109	NA	NA
1,278985581	0,02808	1,229438867	0,02784	NA	NA
0,720464874	0,01837	0,798851916	0,00132	NA	NA
1,215036792	0,03602	1,148698355	0,04029	NA	NA
0,622005827	0,00145	0,76418826	0,00028	NA	NA
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3,936736088	0,00337	4,976046613	0,00002	NA	NA
2,294214048	0,00698	2,226843236	0,00006	NA	NA
2,950582914	0,00005	2,672148157	0,00001	NA	NA
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1,272794935	0,02773	1,320422841	0,00062	NA	NA
3,157975547	0,00239	2,722628233	0,00238	NA	NA
1,199971382	0,03526	1,139183377	0,02799	NA	NA
1,164733586	0,04075	1,087488391	0,02127	NA	NA
1,268391399	0,02128	1,271031689	0,00005	NA	NA
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1,460032011	0,00986	1,436940177	0,00018	NA	NA
1,240567298	0,01409	1,156688184	0,02338	NA	NA
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0,689202576	0,02634	0,856188285	0,04387	NA	NA
3,253516793	0,037	4,856779538	0,00001	NA	NA
1,198309021	0,03417	1,149494848	0,04872	NA	NA
3,34962595	0,01691	3,647732662	0,00077	NA	NA
3,333412829	0,01291	4,81988926	0,00007	NA	NA
1,624504793	0,04335	1,242288282	0,00737	NA	NA
0,577542892	0,04564	0,525222272	0,00002	NA	NA
2,347296357	0,00027	1,62788637	0,00004	NA	NA
0,582770599	0,0014	0,672683604	0,00372	NA	NA
1,450952208	0,00389	1,360370852	0,00162	NA	NA
1,383190629	0,00968	1,279872414	0,00308	NA	NA
0,759962428	0,03519	0,775393206	0,00073	NA	NA
1,231998073	0,03333	1,192508872	0,01565	NA	NA
1,237990291	0,04628	1,258757174	0,00014	NA	NA
1,392811481	0,00635	1,243149669	0,02129	NA	NA
1,787570325	0,00007	1,514666316	0,00071	NA	NA
0,682073917	0,0086	0,725476104	0,00002	NA	NA
0,549046407	0,00172	0,555169417	0	NA	NA
0,608783009	0,0026	0,628506687	0,00003	NA	NA
0,713012859	0,02525	0,883315051	0,02444	NA	NA
0,791137301	0,01325	0,76630998	0,00003	NA	NA
0,671286251	0,01742	0,801069878	0,00446	NA	NA
3,321880096	0,00004	3,412904392	0,00001	NA	NA
0,721464343	0,01023	0,860352631	0,03932	NA	NA
0,589269704	0,00072	0,790589117	0,00772	NA	NA
0,677832163	0,00101	0,683020128	0,00012	NA	NA
1,22858698	0,03161	1,214194884	0,00212	NA	NA
1,313121125	0,03201	1,235418637	0,00612	NA	NA
1,548638056	0,01712	1,665551542	0,00012	NA	NA
0,752623374	0,02551	0,791685866	0,00119	NA	NA
2,261061134	0,0006	1,671333918	0,00001	NA	NA
4,61394242	0,00001	3,441410522	0	NA	NA
0,782411782	0,02189	0,792784137	0,00137	NA	NA
1,263127262	0,01303	1,195819797	0,00828	NA	NA
0,574349177	0,00594	0,640379931	0,00011	NA	NA

0,783497187	0,04869	0,760489377	0,00234	NA	NA
1,503161478	0,0299	1,215036792	0,0443	NA	NA
0,688725023	0,02857	0,799960128	0,00969	NA	NA
2,826467288	0,00006	1,510472586	0,00749	NA	NA
0,585605091	0,03163	0,529609167	0,00001	NA	NA
1,375541818	0,0009	1,157490217	0,02767	NA	NA
0,558643569	0,0043	0,691595315	0,00645	NA	NA
0,651573575	0,01075	0,837987135	0,03488	NA	NA
1,198309021	0,04265	1,245737416	0,00043	NA	NA
2,674000991	0,00221	1,823866331	0,00033	NA	NA
1,286989247	0,0275	1,164733586	0,01741	NA	NA
1,281647924	0,01248	1,184271612	0,02583	NA	NA
0,76154437	0,04171	0,825305409	0,0065	NA	NA
1,350974085	0,00621	1,132098902	0,032	NA	NA
2,191623533	0,00078	1,622254311	0,00112	NA	NA
1,248330549	0,04701	1,200803427	0,00873	NA	NA
1,443929196	0,00094	1,305859787	0,02526	NA	NA
0,568014632	0,00101	0,641712949	0,00001	NA	NA
1,602139755	0,00047	1,216722359	0,01444	NA	NA
0,60667678	0,03091	0,550189305	0,00223	NA	NA
1,190031696	0,02904	1,114966219	0,04901	NA	NA
1,231998073	0,03344	1,132883885	0,01163	NA	NA
1,393777239	0,02209	1,276328769	0,01129	NA	NA
0,720964436	0,00098	0,823020345	0,0045	NA	NA
0,743806881	0,04333	0,73153561	0,00098	NA	NA
2,051956291	0,00091	1,43893358	0,00441	NA	NA
1,264879542	0,04368	1,118837101	0,03558	NA	NA
2,329467173	0,00669	1,69466487	0,00068	NA	NA
0,688725023	0,02742	0,774319028	0,0074	NA	NA
1,787570325	0,00649	1,420107359	0,00529	NA	NA
1,367935304	0,01106	1,167158102	0,01894	NA	NA
1,279872414	0,01804	1,172022284	0,0204	NA	NA
1,413233644	0,03315	1,337927555	0,01249	NA	NA
0,618566239	0,01005	0,709070018	0,00042	NA	NA
0,615145672	0,01084	0,71449707	0,00048	NA	NA
1,52414483	0,0105	1,21335356	0,01038	NA	NA
1,657489809	0,00048	1,17609125	0,01979	NA	NA
0,588045625	0,02167	0,582366793	0,00486	NA	NA
1,218410264	0,03106	1,194163187	0,00479	NA	NA
1,322254605	0,04921	1,270150983	0,00013	NA	NA
1,435944511	0,01443	1,337927555	0,01246	NA	NA
1,29056249	0,01259	1,22603486	0,02008	NA	NA
0,669427628	0,00589	0,628942486	0,00011	NA	NA
0,806641759	0,01205	0,825305409	0,00237	NA	NA
0,66342257	0,02421	0,680657058	0,00271	NA	NA
1,35754498	0,01761	1,17772279	0,00848	NA	NA
0,653382627	0,00214	0,570777354	0,00009	NA	NA
1,275444392	0,0302	1,143138335	0,03841	NA	NA
1,351910833	0,00228	1,260503392	0,00622	NA	NA
1,20664392	0,04092	1,246601194	0,00025	NA	NA
1,312211255	0,03609	1,190031696	0,00206	NA	NA
1,254402205	0,02109	1,152686347	0,00149	NA	NA
1,585568273	0,00294	1,149494848	0,03437	NA	NA
0,569197015	0,02323	0,584793832	0,00001	NA	NA
0,621144141	0,02272	0,592135806	0,00328	NA	NA
0,590496331	0,00409	0,750019495	0,00072	NA	NA
0,448755025	0,01189	0,642157904	0,00088	NA	NA
1,634670657	0,01345	1,338855257	0,01562	NA	NA
2,140577397	0,02208	1,411275843	0,00606	NA	NA
2,059080167	0,0016	1,564823563	0,00479	NA	NA
1,956126947	0,00981	1,397646972	0,00046	NA	NA
0,765248385	0,03861	0,839149637	0,01653	NA	NA
0,681129017	0,00181	0,844400887	0,04436	NA	NA
0,595841287	0,00414	0,685391402	0,00122	NA	NA
0,474013483	0,00115	0,760489377	0,00111	NA	NA
0,803293997	0,01435	0,77916458	0,00165	NA	NA
0,841479482	0,03569	1,220946513	0,01653	NA	NA
0,775930854	0,04952	0,774855931	0,00766	NA	NA
1,274560627	0,02731	1,20664392	0,00701	NA	NA
0,594191553	0,00407	0,685866644	0,00044	NA	NA
0,579547976	0,00043	0,847919965	0,02026	NA	NA
0,647072827	0,0081	0,784040454	0,01668	NA	NA
0,69399636	0,03925	0,763658749	0,00053	NA	NA
0,574349177	0,00457	0,842062954	0,00565	NA	NA
0,721964598	0,03698	0,789493887	0,0357	NA	NA
0,678302164	0,0129	0,85797053	0,03167	NA	NA
0,668963777	0,00084	0,822450069	0,04776	NA	NA
1,670175839	0,00388	1,572434584	0,00099	NA	NA
1,725482689	0,04032	1,284315809	0,0257	NA	NA
0,596254436	0,02478	0,698339266	0,00009	NA	NA
2,797232165	0,00024	1,706452196	0,00149	NA	NA
1,695839929	0,0255	1,264879542	0,02328	NA	NA
0,828744904	0,01809	0,872967591	0,00386	NA	NA
1,179356592	0,04664	1,209994089	0,00545	NA	NA
1,390881972	0,00707	1,229438867	0,00043	NA	NA
0,574747424	0,02903	0,662044455	0,00072	NA	NA
0,70270935	0,02255	0,655196702	0,00002	NA	NA
0,521955964	0,0154	0,537747195	0,00033	NA	NA
0,759435845	0,04355	0,791137301	0,01188	NA	NA
1,589970502	0,00099	1,462057448	0,00003	NA	NA
0,576742803	0,00082	0,679714121	0,00004	NA	NA
1,919858522	0,0002	1,465100875	0,00097	NA	NA
0,570777354	0,0001	0,71548826	0,00055	NA	NA
0,62981499	0,01258	0,681129017	0,00001	NA	NA
2,584705661	0,00018	1,685293659	0,00004	NA	NA
1,433955248	0,01934	1,236275261	0,00098	NA	NA
1,235418637	0,02605	1,22603486	0,00013	NA	NA
0,765778999	0,01269	0,743291492	0,00192	NA	NA

1,723092319	0,00349	1,227735684	0,01779	NA	NA
0,762072415	0,03847	0,735093668	0,00051	NA	NA
0,594191553	0,02655	0,750019495	0,01562	NA	NA
1,338855257	0,02563	1,185092771	0,007	NA	NA
1,223488041	0,04815	1,284315809	0,00427	NA	NA
1,373636233	0,00435	1,25353302	0,00109	NA	NA
2,339175328	0,00003	1,378405153	0,01254	NA	NA
0,814507563	0,0199	0,792784137	0,00381	NA	NA
1,534746096	0,00039	1,179356592	0,01995	NA	NA
1,345367209	0,00188	1,164733586	0,02878	NA	NA
4,129594142	0,0002	2,018103268	0,00039	NA	NA
0,605416542	0,00913	0,822450069	0,00881	NA	NA
1,268391399	0,04235	1,277213759	0,00082	NA	NA
0,735603373	0,0341	0,816203046	0,03853	NA	NA
1,753211443	0,00172	1,207480591	0,0446	NA	NA
1,343503426	0,02507	1,260503392	0,01205	NA	NA
0,44534645	0,00072	0,520510799	0	NA	NA
0,739693755	0,03782	0,806641759	0,02643	NA	NA
0,485990494	0,02456	0,697855382	0,0004	NA	NA
0,713012859	0,00414	0,716977624	0,00006	NA	NA
0,730016005	0,01165	0,882702996	0,01596	NA	NA
1,308578071	0,01287	1,155886707	0,03134	NA	NA
1,404444876	0,00208	1,375541818	0,00022	NA	NA
1,434949535	0,00086	1,192508872	0,03927	NA	NA
0,700763725	0,03796	0,726986259	0,00046	NA	NA
1,43893358	0,01012	1,21167266	0,01875	NA	NA
1,45195828	0,03135	1,158292806	0,04219	NA	NA
0,549808075	0,01849	0,595841287	0	NA	NA
0,724973416	0,01814	0,788946841	0,00021	NA	NA
0,616853585	0,01267	0,692074858	0,00599	NA	NA
0,825877665	0,02406	0,70027816	0,00001	NA	NA
1,209994089	0,0408	1,155085785	0,01173	NA	NA
1,185914499	0,04644	1,129747215	0,00912	NA	NA
1,192508872	0,03537	1,152686347	0,00228	NA	NA
0,688247801	0,00167	0,793333843	0,02516	NA	NA
1,281647924	0,01132	1,132883885	0,03761	NA	NA
0,72597914	0,02764	0,716480825	0,00012	NA	NA
1,221793102	0,0422	1,238848698	0,00362	NA	NA
0,661127303	0,00427	0,770037174	0,00071	NA	NA
1,285206337	0,00322	1,195819797	0,02912	NA	NA
1,325007017	0,01749	1,246601194	0,00532	NA	NA
1,80125196	0,00627	1,529436278	0,00065	NA	NA
0,750019495	0,00842	0,738157203	0,00291	NA	NA
1,243149669	0,03762	1,209994089	0,00949	NA	NA
0,755236293	0,01094	0,768970416	0,00469	NA	NA
1,219255094	0,00917	1,128964405	0,01524	NA	NA
0,759962428	0,01736	0,853817714	0,03015	NA	NA
1,308578071	0,02007	1,353786279	0,0023	NA	NA
1,267512522	0,00798	1,172834949	0,01933	NA	NA
0,482968164	0,04903	0,446273486	0,00002	NA	NA
2,820595921	0,00012	1,481439798	0,02092	NA	NA
1,343503426	0,00169	1,136816973	0,0439	NA	NA
2,056227653	0,00051	1,460032011	0,00005	NA	NA
1,375541818	0,01196	1,129747215	0,02917	NA	NA
1,270150983	0,02513	1,43097652	0,00023	NA	NA
1,976571303	0,00033	1,257013375	0,00983	NA	NA
1,834008086	0,00373	1,258757174	0,02811	NA	NA
1,267512522	0,0365	1,174461971	0,01671	NA	NA
1,368883813	0,00538	1,202469249	0,00521	NA	NA
1,271031689	0,01516	1,156688184	0,01165	NA	NA
1,261377409	0,03198	1,163926534	0,02157	NA	NA
0,627635996	0,0003	0,729004689	0,00015	NA	NA
1,424050196	0,01978	1,330529041	0,00008	NA	NA
1,359428242	0,00079	1,142346247	0,02675	NA	NA
1,350037985	0,04498	1,257013375	0,01336	NA	NA
1,195819797	0,02888	1,115739322	0,01911	NA	NA
0,692074858	0,00668	0,882091365	0,0232	NA	NA
1,429984986	0,00108	1,167158102	0,00804	NA	NA
0,372161314	0,00273	0,590496331	0,00001	NA	NA
1,594384953	0,00374	1,248330549	0,00034	NA	NA
1,583371732	0,02547	1,317679952	0,01949	NA	NA
1,373636233	0,02039	1,295940965	0,0004	NA	NA
0,647521499	0,03043	0,85027416	0,04754	NA	NA
1,25962998	0,02405	1,173648178	0,00025	NA	NA
1,578987773	0,01006	1,366987452	0,00057	NA	NA
0,561749952	0,00952	0,793883931	0,01697	NA	NA
0,487002134	0,00031	0,639492791	0,00002	NA	NA
0,675955417	0,04732	0,800514811	0,01239	NA	NA
0,807201075	0,02349	0,837406488	0,04208	NA	NA
1,343503426	0,01322	1,202469249	0,0131	NA	NA
1,30224419	0,02834	1,274560627	0,00118	NA	NA
0,633756261	0,04859	0,60667678	0,00001	NA	NA
0,559806444	0,02538	0,758383773	0,004	NA	NA
0,675955417	0,01681	0,62981499	0,00003	NA	NA
0,604997045	0,03632	0,618995145	0,00002	NA	NA
0,538493188	0,00419	0,633756261	0,00027	NA	NA
1,267512522	0,01259	1,163926534	0,01372	NA	NA
1,266634254	0,02597	1,200803427	0,00159	NA	NA
1,260503392	0,03733	1,136816973	0,03255	NA	NA
1,383190629	0,00491	1,373636233	0,00002	NA	NA
1,32317144	0,02553	1,170398641	0,00416	NA	NA
1,449946833	0,00509	1,215036792	0,01995	NA	NA
1,400556321	0,00205	1,229438867	0,00921	NA	NA
1,341642225	0,00764	1,167967395	0,03389	NA	NA
1,993080526	0,00027	1,433955248	0,00548	NA	NA
1,43097652	0,00365	1,227735684	0,00056	NA	NA
0,762072415	0,01875	0,874784765	0,04146	NA	NA
1,199971382	0,03557	1,125058485	0,03488	NA	NA

0,659296807	0,0153	0,709070018	0,00255	NA	NA
0,47237352	0,01469	0,640823962	0,00002	NA	NA
1,244011653	0,02188	1,185914499	0,00175	NA	NA
1,258757174	0,0168	1,268391399	0,00312	NA	NA
0,695440986	0,00472	0,853226098	0,03365	NA	NA
0,501735874	0,01136	0,668037039	0,00107	NA	NA
1,250062303	0,03156	1,282536603	0,00043	NA	NA
0,571173123	0,01383	0,408101523	0,00001	NA	NA
1,286989247	0,00594	1,196648963	0,03242	NA	NA
2,171963713	0,00172	1,480413298	0,01106	NA	NA
2,302178983	0,00003	1,972465409	0,00055	NA	NA
1,437936533	0,03881	1,25092908	0,00817	NA	NA
1,315854525	0,0053	1,114966219	0,02986	NA	NA
0,325561047	0,0014	0,343409058	0	NA	NA
1,360370852	0,03693	1,168777249	0,02871	NA	NA
0,763658749	0,00958	0,883315051	0,01105	NA	NA
1,666706414	0,00907	1,351910833	0,01359	NA	NA
2,327853069	0,00669	1,559409685	0,00843	NA	NA
0,740206649	0,02982	0,782411782	0,00029	NA	NA
1,29145735	0,01761	1,136029265	0,02463	NA	NA
0,290175979	0,00102	0,532923368	0,00001	NA	NA
1,486582984	0,00578	1,261377409	0,00125	NA	NA
1,208317843	0,04492	1,199139914	0,00732	NA	NA
1,584469622	0,00135	1,314031627	0,02012	NA	NA
1,286989247	0,04587	1,203303026	0,04292	NA	NA
0,712518807	0,00445	0,664803554	0,00018	NA	NA
0,815637493	0,04503	0,804966138	0,00795	NA	NA
0,649319301	0,01984	0,730016005	0,00019	NA	NA
0,668037039	0,03903	0,73153561	0,00432	NA	NA
1,279872414	0,01182	1,125058485	0,00631	NA	NA
1,234562607	0,04953	1,149494848	0,01051	NA	NA
1,29145735	0,01068	1,231144413	0,01626	NA	NA
0,540737382	0,00733	0,521594297	0	NA	NA
1,4063932	0,01283	1,242288282	0,02971	NA	NA
1,263127262	0,00666	1,242288282	0,0087	NA	NA
1,284315809	0,03616	1,100378609	0,04674	NA	NA
0,724471077	0,03409	0,785672517	0,01574	NA	NA
1,543280175	0,00633	1,277213759	0,00859	NA	NA
1,254402205	0,01261	1,143930973	0,0132	NA	NA
0,654289036	0,01003	0,66296288	0,00065	NA	NA
0,69399636	0,02068	0,746906729	0,00117	NA	NA
1,411275843	0,04538	1,338855257	0,00041	NA	NA
1,199971382	0,011	1,188383105	0,00223	NA	NA
1,43893358	0,01004	1,193335743	0,02314	NA	NA
0,710053679	0,00145	0,755759964	0,00001	NA	NA
0,695923196	0,00518	0,745872013	0,00046	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit
0,784584098	0,02822	0,819036698	0,01905	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit
0,637722196	0,00924	0,770037174	0,011	NAA16	N(alpha)-acetyltransferase 16, NatA auxiliary subunit
0,762072415	0,02003	0,774855931	0,01135	NAA20	N(alpha)-acetyltransferase 20, NatB catalytic subunit
0,757858283	0,04339	0,78024548	0,00044	NAA25	N(alpha)-acetyltransferase 25, NatB auxiliary subunit
0,673616788	0,03221	0,764718139	0,00001	NAA50	N(alpha)-acetyltransferase 50, NatE catalytic subunit
0,514413354	0,0425	0,61813763	0,03939	NAB1	NGFI-A binding protein 1 (EGR1 binding protein 1)
1,202469249	0,04144	1,120389214	0,04467	NAB1	NGFI-A binding protein 1 (EGR1 binding protein 1)
0,509445598	0,02949	0,845572287	0,00367	NACA	nascent polypeptide-associated complex alpha subunit
0,5	0,03465	0,859756486	0,00661	NACA	nascent polypeptide-associated complex alpha subunit
0,7031966	0,03532	0,81056512	0,00578	NACA	nascent polypeptide-associated complex alpha subunit
0,615572207	0,01138	0,680185426	0,00002	NAE1	NEDD8 activating enzyme E1 subunit 1
1,390881972	0,01283	1,267512522	0,00003	NAGA	N-acetylgalactosaminidase, alpha-
1,416175438	0,02697	1,362258035	0,00004	NAGA	N-acetylgalactosaminidase, alpha-
1,303147149	0,01102	1,22010051	0,00889	NANS	N-acetylneuraminic acid synthase
1,890804234	0,00288	1,656341323	0,00014	NAPSB	napsin B aspartic peptidase pseudogene
0,612168196	0,03822	0,701249625	0,0248	NASP	nuclear autoantigenic sperm protein (histone-binding)
1,278099363	0,02518	1,21335356	0,0114	NAT9	N-acetyltransferase 9 (GCN5-related, putative)
1,500038989	0,0263	1,270150983	0,00102	NAV2	neuron navigator 2
1,207480591	0,02152	1,192508872	0,00255	NBPF4	neuroblastoma breakpoint family, member 4
1,254402205	0,04605	1,142346247	0,04721	NCAM1	neural cell adhesion molecule 1
0,746906729	0,00885	0,815072332	0,00263	NCAPG	non-SMC condensin I complex, subunit G
0,755759964	0,04296	0,837987135	0,01879	NCAPG2	non-SMC condensin II complex, subunit G2
1,927859615	0,01907	1,377450046	0,01668	NCEH1	neutral cholesterol ester hydrolase 1
2,115501927	0,00003	1,650610817	0,00001	NCF1C	neutrophil cytosolic factor 1C pseudogene
1,889494082	0,00046	1,536875181	0,00018	NCF2	neutrophil cytosolic factor 2
2,368543224	0,0002	2,074839873	0	NCF4	neutrophil cytosolic factor 4, 40kDa
2,262628926	0,00844	2,25792881	0	NCF4	neutrophil cytosolic factor 4, 40kDa
0,723467443	0,01451	0,840896415	0,02492	NCK2	NCK adaptor protein 2
1,729074463	0,00394	1,767855062	0	NCKAP1L	NCK-associated protein 1-like
0,76950361	0,02356	0,872362706	0,004	NCL	nucleolin
0,686342216	0,02308	0,7944344	0,00207	NCOA4	nuclear receptor coactivator 4
0,668500248	0,00705	0,838568184	0,00069	NCOA6	nuclear receptor coactivator 6
0,69399636	0,00955	0,829319546	0,0059	NCRNA00185	non-protein coding RNA 185
0,749499801	0,01701	0,767373048	0,00004	NDE1	nudE nuclear distribution gene E homolog 1 (A. nidulans)
0,584793832	0,00029	0,71400199	0,00027	NDEL1	nudE nuclear distribution gene E homolog (A. nidulans)-like 1
1,341642225	0,01087	1,150291893	0,01979	NDN	necdin homolog (mouse)
0,590496331	0,00204	0,709561678	0,00797	NDRG4	NDRG family member 4
0,76684133	0,00916	0,854409741	0,00488	NDUFA12	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
0,77916458	0,00529	0,859756486	0,00144	NDUFA6	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 6, 14kDa
0,842062954	0,03673	0,754712984	0,00008	NDUFAF2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 2
0,753145233	0,01936	0,777007269	0,00047	NDUFAF4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 4
0,726986259	0,01545	0,849096246	0,02502	NDUFB3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa
0,668963777	0,04012	0,820741609	0,00725	NDUFB4	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
0,695923196	0,00801	0,791685866	0,00114	NDUFC1	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa
0,689680461	0,03864	0,819036698	0,00142	NDUFS4	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)
0,780786493	0,04591	0,85086373	0,00685	NDUFS6	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)
0,720964436	0,04948	0,856188285	0,02279	NDUFV2	NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa
0,763658749	0,04326	0,807760778	0,00027	NDUFV3	NADH dehydrogenase (ubiquinone) flavoprotein 3, 10kDa
0,385820044	0,00156	0,528875482	0	NEBL	nebulette
0,401090583	0,00029	0,555554364	0,00007	NEBL	nebulette
0,642603169	0,01916	0,754712984	0,00665	NEBL	nebulette
1,264879542	0,02761	1,186736798	0,00771	NEDD9	neural precursor cell expressed, developmentally down-regulated 9

1,943961976	0,01514	1,45296505	0,01186	NEDD9	neural precursor cell expressed, developmentally down-regulated 9
1,543280175	0,00544	1,446934886	0,00311	NEDD9	neural precursor cell expressed, developmentally down-regulated 9
0,735093668	0,00596	0,660669203	0,00063	NEFL	neurofilament, light polypeptide
0,242658617	0,0001	0,337509496	0,00002	NEFL	neurofilament, light polypeptide
0,308640652	0,00018	0,476318999	0,00001	NEFL	neurofilament, light polypeptide
0,299162241	0,00002	0,475659138	0,00003	NEFM	neurofilament, medium polypeptide
1,313121125	0,01648	1,289668251	0,00085	NEIL1	nei endonuclease VIII-like 1 (E. coli)
0,763129604	0,03667	0,790041312	0,00104	NEK1	NIMA (never in mitosis gene a)-related kinase 1
1,262252032	0,04426	1,270150983	0,00074	NEK6	NIMA (never in mitosis gene a)-related kinase 6
1,230291345	0,02065	1,225185332	0,01477	NELL1	NEL-like 1 (chicken)
0,588453369	0,02405	0,757858283	0,00065	NET1	neuroepithelial cell transforming 1
1,265756594	0,03019	1,202469249	0,00228	NEUROD6	neurogenic differentiation 6
1,267512522	0,01799	1,195819797	0,03516	NF1	neurofibromin 1
1,22858698	0,02589	1,192508872	0,01808	NFAM1	NFAT activating protein with ITAM motif 1
1,31494276	0,00382	1,240567298	0,00058	NFAM1	NFAT activating protein with ITAM motif 1
0,61813763	0,013	0,831045862	0,04786	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive
0,76154437	0,03185	0,824162085	0,01072	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
1,423063461	0,0238	1,264003098	0,00699	NFE2	nuclear factor (erythroid-derived 2), 45kDa
0,517991382	0,00896	0,71449707	0,00022	NFE2L2	nuclear factor (erythroid-derived 2)-like 2
0,581157054	0,00481	0,672683604	0,00059	NFE2L2	nuclear factor (erythroid-derived 2)-like 2
0,598324482	0,02465	0,76154437	0,01125	NFIC	nuclear factor I/C (CCAAT-binding transcription factor)
0,651122095	0,00186	0,788946841	0,00176	NFIX	nuclear factor I/X (CCAAT-binding transcription factor)
0,55632506	0,01178	0,681129017	0,01984	NFIX	nuclear factor I/X (CCAAT-binding transcription factor)
1,437936533	0,00096	1,260503392	0,00089	NFKBIE	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
0,612592666	0,00407	0,721964598	0,00001	NFX1	nuclear transcription factor, X-box binding 1
0,679243142	0,03172	0,818469182	0,00057	NGDN	neuroguidin, EIF4E binding protein
0,545631939	0,0002	0,596254436	0	NGEF	neuronal guanine nucleotide exchange factor
1,298638603	0,02882	1,28877463	0,01379	NHLRC3	NHL repeat containing 3
1,240567298	0,02743	1,169587664	0,01676	NHLRC4	NHL repeat containing 4
0,756808396	0,03658	0,877821798	0,0178	NHP2	NHP2 ribonucleoprotein homolog (yeast)
0,461051559	0,00943	0,537374586	0	NHSL1	NHS-like 1
0,529976392	0,04652	0,719965659	0,02148	NHSL1	NHS-like 1
0,711531731	0,00126	0,747942879	0,00303	NHSL1	NHS-like 1
1,778917987	0,0017	1,583371732	0,00179	NID1	nidogen 1
1,401527449	0,04	1,275444392	0,03437	NINL	ninein-like
0,492092011	0,00891	0,577142709	0,00004	NIPAL1	NIPA-like domain containing 1
0,584388624	0,02213	0,702222438	0,00011	NIPAL2	NIPA-like domain containing 2
0,540362701	0,00169	0,721964598	0,00026	NIPAL4	NIPA-like domain containing 4
0,639936207	0,00365	0,762072415	0,00244	NIPBL	Nipped-B homolog (Drosophila)
0,695923196	0,02691	0,78132788	0,00256	NIPBL	Nipped-B homolog (Drosophila)
0,532554102	0,0238	0,564873607	0,00008	NIPBL	Nipped-B homolog (Drosophila)
0,584388624	0,00039	0,816768991	0,0012	NIT2	nitrilase family, member 2
1,658639092	0,00506	1,360370852	0,00481	NKG7	natural killer cell group 7 sequence
1,781385801	0,01216	1,425037614	0,0361	NLRC3	NLR family, CARD domain containing 3
1,31494276	0,00988	1,258757174	0,00048	NLRP11	NLR family, pyrin domain containing 11
1,264003098	0,04068	1,159899655	0,0299	NLRP7	NLR family, pyrin domain containing 7
0,729510172	0,00829	0,879649076	0,02102	NLRX1	NLR family member X1
1,520978753	0,00935	1,368883813	0,00351	NME4	non-metastatic cells 4, protein expressed in
0,662503509	0,00739	0,790589117	0,00711	NME7	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)
1,208317843	0,03571	1,126619228	0,03488	NMNAT2	nicotinamide nucleotide adenylyltransferase 2
1,673652485	0,00064	1,486582984	0,00005	NMNAT2	nicotinamide nucleotide adenylyltransferase 2
0,535515412	0,00042	0,740206649	0,00036	NMU	neuromedin U
1,625631204	0,01918	1,464085696	0,00687	NNMT	nicotinamide N-methyltransferase
0,650670928	0,02238	0,709561678	0,00002	NOD2	nucleotide-binding oligomerization domain containing 2
0,773782497	0,03715	0,868742185	0,03508	NOL10	nucleolar protein 10
0,724471077	0,0036	0,846745312	0,02205	NOL3	nucleolar protein 3 (apoptosis repressor with CARD domain)
0,671751713	0,00065	0,848507902	0,01174	NOL3	nucleolar protein 3 (apoptosis repressor with CARD domain)
0,847332435	0,04878	0,849684999	0,04153	NOL9	nucleolar protein 9
0,705637922	0,02191	0,804966138	0,0001	NOLC1	nucleolar and coiled-body phosphoprotein 1
0,61301743	0,02319	0,770571108	0,00325	NOP16	NOP16 nucleolar protein homolog (yeast)
0,7031966	0,02664	0,837987135	0,03359	NOP16	NOP16 nucleolar protein homolog (yeast)
0,594191553	0,03282	0,81056512	0,00313	NOP56	NOP56 ribonucleoprotein homolog (yeast)
0,579949827	0,00315	0,735603373	0,00934	NOS1	nitric oxide synthase 1 (neuronal)
0,419865746	0,0022	0,632001549	0,01183	NOS1	nitric oxide synthase 1 (neuronal)
0,667111585	0,01993	0,806641759	0,00031	NOTCH2	notch 2
0,678302164	0,01725	0,759435845	0,00006	NOTCH2	notch 2
0,581157054	0,00173	0,79940583	0,00439	NOTCH2NL	notch 2 N-terminal like
1,368883813	0,04368	1,362258035	0,00728	NOTCH4	notch 4
1,249196126	0,00756	1,159095952	0,00108	NPCDR1	nasopharyngeal carcinoma, down-regulated 1
0,538493188	0,00177	0,742261785	0,00423	NPIPL3	nuclear pore complex interacting protein-like 3
0,78132788	0,04914	0,858565436	0,00361	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)
0,555939579	0,02551	0,817902059	0,02248	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)
0,37138823	0,00154	0,429580377	0,00002	NPR3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
1,267512522	0,01389	1,118061851	0,04901	NPRL2	nitrogen permease regulator-like 2 (S. cerevisiae)
1,251796459	0,04618	1,209994089	0,00467	NPY6R	neuropeptide Y receptor Y6 (pseudogene)
0,570381858	0,00045	0,741747467	0,012	NQO1	NAD(P)H dehydrogenase, quinone 1
1,639209215	0,00881	1,31494276	0,02649	NR2F2	nuclear receptor subfamily 2, group F, member 2
0,776468875	0,02997	0,831622098	0,01015	NR2F6	nuclear receptor subfamily 2, group F, member 6
1,511519928	0,01783	1,42800398	0,0277	NR4A1	nuclear receptor subfamily 4, group A, member 1
1,297738767	0,02684	1,353786279	0,00806	NR4A1	nuclear receptor subfamily 4, group A, member 1
1,273677475	0,0414	1,359428242	0,00001	NR5A2	nuclear receptor subfamily 5, group A, member 2
0,853817714	0,04601	0,87175824	0,02692	NRF1	nuclear respiratory factor 1
1,416175438	0,01067	1,543280175	0,00185	NRGN	neurogranin (protein kinase C substrate, RC3)
1,307671349	0,03725	1,247465572	0,00202	NRIP3	nuclear receptor interacting protein 3
1,362258035	0,00266	1,296839555	0,03038	NRN1	neuritin 1
1,266634254	0,04465	1,294145654	0,00532	NRP1	neuropilin 1
1,243149669	0,00871	1,192508872	0,0055	NRP2	neuropilin 2
0,721464343	0,01338	0,666649339	0,0003	NRTN	neurturin
0,718968266	0,02221	0,77271055	0,00003	NSA2	NSA2 ribosome biogenesis homolog (S. cerevisiae)
0,556710809	0,00668	0,732550437	0,0004	NSDHL	NAD(P) dependent steroid dehydrogenase-like
0,707106781	0,01	0,713507253	0,00019	NSDHL	NAD(P) dependent steroid dehydrogenase-like
0,721964598	0,02182	0,571569168	0,00392	NSF	N-ethylmaleimide-sensitive factor
0,708578698	0,04879	0,763658749	0,00036	NSRP1	nuclear speckle splicing regulatory protein 1
0,671751713	0,03399	0,752623374	0,00005	NSUN2	NOP2/Sun domain family, member 2
0,663882579	0,04021	0,77271055	0,02379	NT5C3	5'-nucleotidase, cytosolic III
0,69640574	0,00045	0,784584098	0,00003	NTPCR	nucleoside-triphosphatase, cancer-related
1,242288282	0,03148	1,199971382	0,03764	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
1,289668251	0,00899	1,257884972	0,00108	NTRK3	neurotrophic tyrosine kinase, receptor, type 3

1,413233644	0,03066	1,276328769	0,02238	NUAK1	NUAK family, SNF1-like kinase, 1
0,744322628	0,0137	0,752101876	0,00558	NUBPL	nucleotide binding protein-like
0,666649339	0,01816	0,686818117	0,00032	NUDCD2	NudC domain containing 2
0,748980467	0,0027	0,862741345	0,00468	NUDT12	nudix (nucleoside diphosphate linked moiety X)-type motif 12
1,192508872	0,03176	1,2397077	0,00146	NUDT14	nudix (nucleoside diphosphate linked moiety X)-type motif 14
0,644387315	0,0138	0,615999037	0	NUDT15	nudix (nucleoside diphosphate linked moiety X)-type motif 15
1,587767862	0,00507	1,437936533	0,00063	NUP210	nucleoporin 210kDa
1,723092319	0,00023	1,554014538	0,00002	NUP210	nucleoporin 210kDa
1,980685744	0,00839	1,504203751	0,0001	NUP210	nucleoporin 210kDa
0,621144141	0,03346	0,707106781	0,00146	NUP35	nucleoporin 35kDa
0,597081594	0,00711	0,758383773	0	NUP88	nucleoporin 88kDa
1,311302014	0,01594	1,17609125	0,0188	NUP88	nucleoporin 88kDa
0,51015233	0,00081	0,81056512	0,02934	NUPR1	nuclear protein, transcriptional regulator, 1
0,672683604	0,0481	0,877821798	0,02797	NUSAP1	nucleolar and spindle associated protein 1
1,271031689	0,00814	1,157490217	0,00495	NXPH3	neurexophilin 3
0,677832163	0,03682	0,758909626	0,01108	OAS1	2'-5'-oligoadenylate synthetase 1, 40/46kDa
0,669427628	0,00434	0,738157203	0,00216	OAT	ornithine aminotransferase
1,261377409	0,00625	1,155886707	0,01616	OCEL1	occludin/ELL domain containing 1
0,424253951	0,00001	0,530343871	0,00183	OCLN	occludin
0,571569168	0,02828	0,624165274	0	ODZ2	odz, odd Oz/ten-m homolog 2 (Drosophila)
0,612168196	0,00019	0,835666959	0,02991	ODZ4	odz, odd Oz/ten-m homolog 4 (Drosophila)
0,648419777	0,00135	0,721964598	0,01088	OGFOD1	2-oxoglutarate and iron-dependent oxygenase domain containing 1
0,750019495	0,04611	0,69495911	0,00635	OGFRL1	opioid growth factor receptor-like 1
1,183451022	0,02712	1,22858698	0,00087	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
1,308578071	0,01086	1,205807828	0,00543	OIT3	oncoprotein induced transcript 3
1,305859787	0,02033	1,481439798	0,00242	OLFM1	olfactomedin 1
1,684125907	0,00013	1,546492675	0,00201	OLFM1	olfactomedin 1
1,176906737	0,04579	1,191682575	0,02108	OLFML2A	olfactomedin-like 2A
1,643760375	0,01934	1,692317193	0,00181	OLFML2B	olfactomedin-like 2B
1,224336392	0,03599	1,16634937	0,0261	OPTC	opticin
1,256142381	0,02347	1,232852325	0,00262	OR1C1	olfactory receptor, family 1, subfamily C, member 1
0,804966138	0,02782	0,868140228	0,02977	OR1F2P	olfactory receptor, family 1, subfamily F, member 2
1,191682575	0,01707	1,183451022	0,03262	OR2H1	olfactory receptor, family 2, subfamily H, member 1
1,31494276	0,03192	1,200803427	0,02387	OR51E1	olfactory receptor, family 51, subfamily E, member 1
1,277213759	0,04527	1,283425898	0,00209	OR5P3	olfactory receptor, family 5, subfamily P, member 3
1,242288282	0,04808	1,29056249	0,00036	OR7E104P	olfactory receptor, family 7, subfamily E, member 104 pseudogene
1,769080871	0,003	1,385109468	0,00339	ORAI2	ORAI calcium release-activated calcium modulator 2
1,69466487	0,00798	1,596596773	0,00131	ORAI2	ORAI calcium release-activated calcium modulator 2
1,769080871	0,00555	1,557249382	0,00027	ORAI2	ORAI calcium release-activated calcium modulator 2
1,299539062	0,00161	1,295940965	0,00432	ORAI3	ORAI calcium release-activated calcium modulator 3
0,647072827	0,0163	0,70270935	0,00044	ORC5	origin recognition complex, subunit 5
0,53998828	0,0044	0,703684188	0,00071	OSBPL1A	oxysterol binding protein-like 1A
0,457232545	0,01618	0,631563631	0,00016	OSBPL1A	oxysterol binding protein-like 1A
0,484980955	0,01258	0,745355193	0,00004	OSBPL2	oxysterol binding protein-like 2
0,35998283	0,00007	0,57236208	0	OSBPL6	oxysterol binding protein-like 6
0,686818117	0,04021	0,668500248	0,00011	OSBPL6	oxysterol binding protein-like 6
0,60583633	0,00304	0,659296807	0,00001	OSBPL6	oxysterol binding protein-like 6
1,425037614	0,00261	1,393777239	0,00022	OSBPL7	oxysterol binding protein-like 7
1,558329159	0,00293	1,478362431	0,0002	OSGIN1	oxidative stress induced growth inhibitor 1
1,59549048	0,00309	1,325007017	0,01009	OSM	oncostatin M
0,70270935	0,00606	0,802181166	0,00778	OTUB2	OTU domain, ubiquitin aldehyde binding 2
0,697371833	0,01612	0,869947353	0,02238	OTUB2	OTU domain, ubiquitin aldehyde binding 2
0,628942486	0,00432	0,770571108	0,00393	OVOL1	ovo-like 1(Drosophila)
0,559418551	0,0004	0,702222438	0,00012	OVOL1	ovo-like 1(Drosophila)
0,581157054	0,0037	0,668037039	0,00012	OXCT1	3-oxoacid CoA transferase 1
0,646624466	0,02232	0,740719899	0,00449	OXSR1	oxidative-stress responsive 1
1,264879542	0,03843	1,426025717	0,00003	P2RX1	purinergic receptor P2X, ligand-gated ion channel, 1
1,626758396	0,01118	1,622254311	0	P2RX4	purinergic receptor P2X, ligand-gated ion channel, 4
2,453769955	0	1,776453592	0,00002	P2RX5	purinergic receptor P2X, ligand-gated ion channel, 5
1,427014506	0,0005	1,326845141	0,00069	P2RY10	purinergic receptor P2Y, G-protein coupled, 10
1,568080908	0,00418	1,400556321	0,00554	P2RY13	purinergic receptor P2Y, G-protein coupled, 13
1,321338406	0,02963	1,344434994	0,00004	P2RY6	pyrimidinergic receptor P2Y, G-protein coupled, 6
2,969047141	0,00001	2,086377187	0,00001	P2RY8	purinergic receptor P2Y, G-protein coupled, 8
1,319507911	0,03264	1,22010051	0,04959	P4HA3	prolyl 4-hydroxylase, alpha polypeptide III
0,66296288	0,04145	0,747942879	0,00107	PA2G4	proliferation-associated 2G4, 38kDa
0,796088099	0,01678	0,812252396	0,01739	PACRGL	PARK2 co-regulated-like
1,364147835	0,01904	1,317679952	0,00719	PADI1	peptidyl arginine deiminase, type I
1,341642225	0,02236	1,399585866	0,00009	PADI2	peptidyl arginine deiminase, type II
1,336074078	0,03137	1,32592576	0,00444	PADI3	peptidyl arginine deiminase, type III
0,536630143	0,00381	0,801069878	0,01882	PAFAH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)
0,613442489	0,00672	0,764718139	0,00005	PAFAH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)
2,076278541	0,00231	1,604362333	0,00038	PAG1	phosphoprotein associated with glycosphingolipid microdomains 1
0,477972659	0,00936	0,750019495	0,00335	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase
0,693034943	0,02426	0,706127202	0,00092	PAK1IP1	PAK1 interacting protein 1
1,337927555	0,00742	1,29056249	0,00343	PAK3	p21 protein (Cdc42/Rac)-activated kinase 3
0,655196702	0,03565	0,71400199	0,00005	PAK6	p21 protein (Cdc42/Rac)-activated kinase 6
0,518709968	0,01582	0,699308041	0,00153	PAK6	p21 protein (Cdc42/Rac)-activated kinase 6
0,742261785	0,02198	0,85027416	0,02034	PALB2	partner and localizer of BRCA2
0,668037039	0,03973	0,746389192	0,01273	PALLD	palladin, cytoskeletal associated protein
0,581560021	0,00428	0,644834125	0,0001	PALMD	palmdelphin
0,475000191	0,01623	0,638164384	0,00405	PALMD	palmdelphin
0,642157904	0,00508	0,632878297	0	PANK3	pantothenate kinase 3
0,604997045	0,03695	0,666649339	0,00008	PANK3	pantothenate kinase 3
0,66296288	0,00314	0,748980467	0,01075	PANX1	pannexin 1
0,527776859	0,00113	0,724471077	0,00272	PAPLN	papilin, proteoglycan-like sulfated glycoprotein
0,748980467	0,01349	0,736623843	0,00336	PAPOLA	poly(A) polymerase alpha
1,602139755	0,0286	1,277213759	0,02793	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2
1,271913007	0,01263	1,202469249	0,00872	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2
0,685866644	0,00057	0,697371833	0,00027	PAQR5	progestin and adipoQ receptor family member V
0,435275282	0,01553	0,493800431	0	PAQR5	progestin and adipoQ receptor family member V
0,655196702	0,02086	0,838568184	0,01116	PARD3	par-3 partitioning defective 3 homolog (C. elegans)
0,645728675	0,04165	0,87417862	0,01668	PARD3	par-3 partitioning defective 3 homolog (C. elegans)
0,577142709	0,00074	0,780786493	0,00073	PARD3	par-3 partitioning defective 3 homolog (C. elegans)
0,603740296	0,00025	0,652025368	0,00004	PARD6G	par-6 partitioning defective 6 homolog gamma (C. elegans)
0,602068691	0,00891	0,650670928	0,00013	PARD6G	par-6 partitioning defective 6 homolog gamma (C. elegans)
1,760518027	0,00007	1,526259209	0,00013	PARM1	prostate androgen-regulated mucin-like protein 1
2,408274762	0,00025	1,831467373	0,00012	PARM1	prostate androgen-regulated mucin-like protein 1
1,725482689	0,00169	1,378405153	0,01231	PARVB	parvin, beta

1,624504793	0,0085	1,555092072	0,00019	PARVB	parvin, beta
1,398616083	0,00864	1,395710764	0,00436	PARVG	parvin, gamma
1,353786279	0,01148	1,267512522	0,00044	PARVG	parvin, gamma
1,392811481	0,01162	1,255271991	0,01028	PASK	PAS domain containing serine/threonine kinase
0,547146851	0,04226	0,773782497	0,01153	PAWR	PRKC, apoptosis, WT1, regulator
0,718470088	0,02549	0,687294348	0,00088	PAXIP1	PAX interacting (with transcription-activation domain) protein 1
0,700763725	0,04721	0,810003474	0,0032	PBRM1	polybromo 1
0,630251696	0,04592	0,624598063	0,00845	PBRM1	polybromo 1
0,7031966	0,00135	0,748461493	0,00042	PBX3	pre-B-cell leukemia homeobox 3
0,751580739	0,01493	0,733566672	0,0001	PCBD2	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2
0,734075318	0,00153	0,721464343	0,00023	PCBD2	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2
2,064797071	0,00096	1,546492675	0,0001	PCDH17	protocadherin 17
2,418311352	0,00198	1,725482689	0,00005	PCDH17	protocadherin 17
1,962918128	0,00645	1,566994374	0	PCDH17	protocadherin 17
1,194163187	0,04791	1,199139914	0,00854	PCDH18	protocadherin 18
0,658383461	0,00496	0,798298386	0,04023	PCDH7	protocadherin 7
0,480963727	0,03235	0,625031151	0,0012	PCDH7	protocadherin 7
0,822450069	0,03301	0,886381699	0,02001	PCDHGA8	protocadherin gamma subfamily A, 8
0,682073917	0,00976	0,846745312	0,00807	PCGF3	polycomb group ring finger 3
0,571173123	0,01961	0,777546036	0,00429	PCM1	pericentriolar material 1
1,234562607	0,03746	1,136029265	0,01855	PCSK4	proprotein convertase subtilisin/kexin type 4
0,554016174	0,00234	0,593779833	0,00012	PCSK6	proprotein convertase subtilisin/kexin type 6
0,61429349	0,01653	0,775930854	0,00029	PCSK7	proprotein convertase subtilisin/kexin type 7
0,66342257	0,01142	0,684441907	0,00289	PCYT1A	phosphate cytidylyltransferase 1, choline, alpha
0,649319301	0,00542	0,719965659	0,00002	PDCD2	programmed cell death 2
0,616426163	0,03491	0,817902059	0,00666	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)
0,682073917	0,01762	0,742261785	0,00117	PDCD5	programmed cell death 5
0,689202576	0,02597	0,763129604	0,00023	PDCD6	programmed cell death 6
0,7031966	0,00267	0,681601304	0,0001	PDCD6	programmed cell death 6
0,667574152	0,0161	0,751059963	0,00093	PDCD6IP	programmed cell death 6 interacting protein
0,549427109	0,03162	0,671751713	0,00022	PDCD7	programmed cell death 7
1,561572985	0,01316	1,159095952	0,03685	PDE10A	phosphodiesterase 10A
1,489677463	0,0212	1,180174343	0,01929	PDE1A	phosphodiesterase 1A, calmodulin-dependent
1,163926534	0,04407	1,124278924	0,01753	PDE3B	phosphodiesterase 3B, cGMP-inhibited
1,745935182	0,00127	1,374588696	0,007	PDE4A	phosphodiesterase 4A, cAMP-specific
1,882956929	0,00142	1,611048582	0,00042	PDE4B	phosphodiesterase 4B, cAMP-specific
1,545421099	0,0088	1,678299274	0,00013	PDE4B	phosphodiesterase 4B, cAMP-specific
1,258757174	0,02219	1,188383105	0,00208	PDE4C	phosphodiesterase 4C, cAMP-specific
1,248330549	0,00471	1,273677475	0,00012	PDE4DIP	phosphodiesterase 4D interacting protein
1,433955248	0,01408	1,377450046	0,0017	PDE4DIP	phosphodiesterase 4D interacting protein
1,38991822	0,03981	1,337927555	0,01677	PDE7B	phosphodiesterase 7B
1,395710764	0,02352	1,251796459	0,0403	PDE8B	phosphodiesterase 8B
1,485552921	0,02236	1,185914499	0,03839	PDE9A	phosphodiesterase 9A
1,32592576	0,04952	1,321338406	0	PDGFB	platelet-derived growth factor beta polypeptide
0,595015848	0,03822	0,685391402	0,00207	PDGFC	platelet derived growth factor C
1,858321349	0,0099	1,547564994	0,00115	PDGFD	platelet derived growth factor D
1,262252032	0,03082	1,513616793	0,00071	PDGFD	platelet derived growth factor D
1,563739286	0,00138	1,376495602	0,00046	PDIA4	protein disulfide isomerase family A, member 4
1,626758396	0,02498	1,583371732	0,00001	PDIA5	protein disulfide isomerase family A, member 5
2,279946545	0,00006	1,821339667	0,00021	PDK1	pyruvate dehydrogenase kinase, isozyme 1
0,720464874	0,03012	0,85797053	0,02997	PDK3	pyruvate dehydrogenase kinase, isozyme 3
0,580754366	0,0362	0,733058379	0,00181	PDLIM2	PDZ and LIM domain 2 (mystique)
1,269270886	0,02788	1,170398641	0,01562	PDLIM3	PDZ and LIM domain 3
1,28877463	0,00823	1,160703914	0,02811	PDLIM3	PDZ and LIM domain 3
0,445037867	0,00144	0,70514898	0,03097	PDLIM5	PDZ and LIM domain 5
0,419574819	0,00431	0,76154437	0,0025	PDLIM5	PDZ and LIM domain 5
0,645728675	0,01761	0,777007269	0,00018	PDLIM5	PDZ and LIM domain 5
0,708578698	0,03694	0,818469182	0,01289	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)
0,847919965	0,01585	0,801069878	0,00235	PDSS1	prenyl (decaprenyl) diphosphate synthase, subunit 1
0,727490342	0,0165	0,858565436	0,01022	PDZD11	PDZ domain containing 11
0,459138081	0,00491	0,699792933	0,00227	PDZD2	PDZ domain containing 2
0,796088099	0,01166	0,788946841	0,01087	PDZD2	PDZ domain containing 2
3,082284433	0,00558	2,281527432	0,00042	PDZRN4	PDZ domain containing ring finger 4
1,775222675	0,00267	1,368883813	0,00021	PEAR1	platelet endothelial aggregation receptor 1
2,194663875	0,00034	1,759298152	0,00005	PECAM1	platelet/endothelial cell adhesion molecule
1,218410264	0,01891	1,188383105	0,02168	PECAM1	platelet/endothelial cell adhesion molecule
2,521006783	0,00002	2,267338826	0	PECAM1	platelet/endothelial cell adhesion molecule
2,105262309	0,00048	2,181015465	0	PECAM1	platelet/endothelial cell adhesion molecule
0,656105627	0,03463	0,840896415	0,00424	PELO	pelota homolog (Drosophila)
0,844986384	0,04475	0,835666959	0,00391	PEMT	phosphatidylethanolamine N-methyltransferase
0,593779833	0,01388	0,573553512	0,00013	PER2	period homolog 2 (Drosophila)
0,674083866	0,00787	0,744838732	0,00765	PERP	PERP, TP53 apoptosis effector
0,408384496	0,00644	0,544876056	0	PERP	PERP, TP53 apoptosis effector
0,706616822	0,04627	0,723969086	0,00263	PEX3	peroxisomal biogenesis factor 3
1,558329159	0,00365	1,418140036	0,00269	PF4	platelet factor 4
0,601234624	0,01303	0,61985385	0,00001	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
0,639492791	0,00168	0,821880187	0,00611	PGAP2	post-GPI attachment to proteins 2
0,709070018	0,01043	0,78132788	0,00002	PGBD5	piggyBac transposable element derived 5
1,512567997	0,00239	1,298638603	0,01051	PGCP	plasma glutamate carboxypeptidase
0,608783009	0,00546	0,70759708	0,00005	PGM2	phosphoglucomutase 2
1,241427492	0,04505	1,169587664	0,0116	PGM5	phosphoglucomutase 5
1,355664327	0,01542	1,425037614	0,00068	PGM5	phosphoglucomutase 5
1,414213562	0,00389	1,300440147	0,00037	PGPEP1	pyroglutamyl-peptidase I
1,439931319	0,00881	1,593280193	0,00002	PGPEP1	pyroglutamyl-peptidase I
1,403471726	0,00208	1,559409685	0	PGPEP1	pyroglutamyl-peptidase I
0,750539549	0,00888	0,832198735	0,00745	PGRMC1	progesterone receptor membrane component 1
0,63860688	0,01634	0,709070018	0,00017	PGRMC2	progesterone receptor membrane component 2
0,639049682	0,04647	0,693034943	0,00006	PHACTR2	phosphatase and actin regulator 2
1,433955248	0,00523	1,264003098	0,00101	PHC3	polyhomeotic homolog 3 (Drosophila)
1,243149669	0,01047	1,133669413	0,02353	PHEX	phosphate regulating endopeptidase homolog, X-linked
1,516767545	0,00155	1,289668251	0,00643	PHF1	PHD finger protein 1
0,720964436	0,03547	0,859756486	0,0056	PHF10	PHD finger protein 10
0,771105413	0,01273	0,909408252	0,03787	PHF13	PHD finger protein 13
0,635515845	0,03066	0,706616822	0,00002	PHF14	PHD finger protein 14
0,7944344	0,006	0,828744904	0,00289	PHF19	PHD finger protein 19
1,221793102	0,04755	1,199971382	0,00207	PHIP	pleckstrin homology domain interacting protein
0,620283649	0,00546	0,865136691	0,01604	PHIP	pleckstrin homology domain interacting protein
0,71400199	0,01695	0,628942486	0,00048	PHLDA2	pleckstrin homology-like domain, family A, member 2

0,645728675	0,00431	0,692554734	0,00367	PHOCN	phocein, Mob-like protein
0,718968266	0,04968	0,71946679	0,00278	PHOCN	phocein, Mob-like protein
1,609932275	0,0006	1,345367209	0,0047	PHTF1	putative homeodomain transcription factor 1
1,342572503	0,00546	1,203303026	0,00538	PHTF1	putative homeodomain transcription factor 1
0,796088099	0,03193	0,808881348	0,00609	PIAS4	protein inhibitor of activated STAT, 4
1,385109468	0,00142	1,231998073	0,00243	PIF1	PIF1 5'-to-3' DNA helicase homolog (S. cerevisiae)
0,791137301	0,00772	0,853226098	0,00382	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C
0,731028724	0,02186	0,858565436	0,01409	PIGF	phosphatidylinositol glycan anchor biosynthesis, class F
0,595841287	0,00155	0,76950361	0,00442	PIGN	phosphatidylinositol glycan anchor biosynthesis, class N
0,609627547	0,01625	0,622868708	0,00001	PIGW	phosphatidylinositol glycan anchor biosynthesis, class W
0,549046407	0,01339	0,678302164	0,00284	PIGY	phosphatidylinositol glycan anchor biosynthesis, class Y
1,599920257	0,00067	1,266634254	0,00209	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1
2,191623533	0,00015	1,522033381	0,00143	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1
0,616426163	0,00192	0,776468875	0,00627	PIK3C3	phosphoinositide-3-kinase, class 3
0,622005827	0,03594	0,755236293	0,00095	PIK3CB	phosphoinositide-3-kinase, catalytic, beta polypeptide
1,319507911	0,00435	1,252664439	0,01169	PIK3CD	phosphoinositide-3-kinase, catalytic, delta polypeptide
1,392811481	0,00993	1,175276328	0,03614	PIK3CG	phosphoinositide-3-kinase, catalytic, gamma polypeptide
1,248330549	0,02342	1,189207115	0,03893	PIK3IP1	phosphoinositide-3-kinase interacting protein 1
1,404444876	0,00825	1,327765158	0,00038	PIK3R3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)
1,257013375	0,01978	1,147902414	0,0451	PIK3R5	phosphoinositide-3-kinase, regulatory subunit 5
1,331451613	0,02353	1,297738767	0,00063	PIK3R6	phosphoinositide-3-kinase, regulatory subunit 6
0,727490342	0,00181	0,767373048	0,00521	PIM1	pim-1 oncogene
2,830388321	0,00008	2,228387302	0,00009	PIM2	pim-2 oncogene
0,716480825	0,00524	0,806082831	0,00004	PIN4	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)
0,668500248	0,01042	0,754190038	0,00012	PIN4	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)
1,315854525	0,03191	1,339783602	0,00118	PIP4K2A	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
0,729004689	0,01697	0,831622098	0,00693	PIP4K2C	phosphatidylinositol-5-phosphate 4-kinase, type II, gamma
3,640155296	0,00005	2,131693472	0,00014	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase, type I, beta
0,426317446	0,00039	0,695440986	0,00005	PIR	pirin (iron-binding nuclear protein)
0,733566672	0,01854	0,793883931	0,00322	PITHD1	PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1
0,648869383	0,00007	0,734075318	0,00002	PITPNA	phosphatidylinositol transfer protein, alpha
0,594603558	0,0111	0,724471077	0,00039	PITPNA	phosphatidylinositol transfer protein, alpha
0,595428425	0,01326	0,830470024	0,00271	PITPNA	phosphatidylinositol transfer protein, alpha
0,652477474	0,01931	0,849096246	0,00052	PITPNB	phosphatidylinositol transfer protein, beta
0,571569168	0,00911	0,647521499	0,00003	PITPNM3	PITPNM family member 3
1,828930179	0,00036	1,356604327	0,00336	PKHD1L1	polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1
1,591072968	0,00573	1,527317498	0,00007	PKIG	protein kinase (cAMP-dependent, catalytic) inhibitor gamma
1,417157397	0,03633	1,348167732	0,01069	PKN1	protein kinase N1
0,379981214	0,00537	0,665264521	0,00159	PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)
0,472701058	0,02922	0,652025368	0,01629	PKP3	plakophilin 3
0,421615555	0,00634	0,66342257	0,00437	PKP3	plakophilin 3
0,658383461	0,03467	0,90312651	0,03762	PKP4	plakophilin 4
1,965641197	0,00021	1,612165663	0,00006	PLA1A	phospholipase A1 member A
0,558643569	0,04175	0,623300597	0,00004	PLA2G12A	phospholipase A2, group XIIA
0,589678296	0,03344	0,744838732	0,00029	PLA2G12A	phospholipase A2, group XIIA
1,549711862	0,01225	1,573524891	0,00006	PLA2G2D	phospholipase A2, group IID
0,659296807	0,00552	0,696888619	0,00005	PLA2G3	phospholipase A2, group III
1,50733491	0,00656	1,564823563	0,00105	PLA2G4C	phospholipase A2, group IVC (cytosolic, calcium-independent)
1,322254605	0,00914	1,143138335	0,04471	PLA2G5	phospholipase A2, group V
1,634670657	0,01228	1,481439798	0,04814	PLA2G7	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)
0,512633619	0,00175	0,525586455	0	PLA2R1	phospholipase A2 receptor 1, 180kDa
0,638164384	0,01096	0,735093668	0,00026	PLAA	phospholipase A2-activating protein
2,848100391	0,00256	2,080600533	0,00163	PLAC8	placenta-specific 8
2,363623094	0,00382	1,86218964	0,00107	PLAT	plasminogen activator, tissue
1,293248932	0,0391	1,285206337	0,00107	PLCB2	phospholipase C, beta 2
2,02791896	0,00004	1,742308384	0,0001	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)
1,383190629	0,03152	1,396678532	0,00384	PLCL2	phospholipase C-like 2
1,196648963	0,04836	1,149494848	0,04912	PLCL2	phospholipase C-like 2
0,664342907	0,01711	0,849096246	0,02466	PLCXD1	phosphatidylinositol-specific phospholipase C, X domain containing 1
0,538493188	0,00139	0,815637493	0,01665	PLD1	phospholipase D1, phosphatidylcholine-specific
0,577943353	0,0006	0,851453708	0,03897	PLD1	phospholipase D1, phosphatidylcholine-specific
0,524494664	0,02601	0,71548826	0,04745	PLD1	phospholipase D1, phosphatidylcholine-specific
0,414947293	0,00319	0,767373048	0,00317	PLD1	phospholipase D1, phosphatidylcholine-specific
1,910565873	0,00002	1,548638056	0,0002	PLEK	pleckstrin
0,76950361	0,03317	0,860949188	0,00349	PLEK2	pleckstrin 2
0,449066186	0,02098	0,685391402	0,00049	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1
0,54638887	0,0173	0,622868708	0,00004	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1
0,734075318	0,0042	0,566049451	0,0001	PLEKHA5	pleckstrin homology domain containing, family A member 5
1,348167732	0,04912	1,325007017	0,00017	PLEKHA6	pleckstrin homology domain containing, family A member 6
0,614719434	0,04953	0,638164384	0,02343	PLEKHF2	pleckstrin homology domain containing, family F (with FYVE domain) member 2
1,384149716	0,02768	1,338855257	0,00024	PLEKHG2	pleckstrin homology domain containing, family G (with RhoGef domain) member 2
0,788946841	0,03919	0,7944344	0,00877	PLEKHG4	pleckstrin homology domain containing, family G (with RhoGef domain) member 4
0,663882579	0,04218	0,735093668	0,00336	PLK2	polo-like kinase 2
1,219255094	0,01908	1,164733586	0,00259	PLK5	polo-like kinase 5
0,709561678	0,00878	0,8362464	0,00226	PLRG1	pleiotropic regulator 1
1,512567997	0,01217	1,512567997	0,00016	PLXDC1	plexin domain containing 1
0,410940094	0,00014	0,591725511	0,00001	PLXDC2	plexin domain containing 2
0,652929894	0,00075	0,774319028	0,00069	PLXNA2	plexin A2
1,854461093	0,0006	1,652900636	0,00045	PLXNC1	plexin C1
1,472226862	0,02846	1,575707772	0,00009	PLXND1	plexin D1
0,71400199	0,01365	0,832198735	0,02945	PMVK	phosphomevalonate kinase
1,401527449	0,0261	1,226884977	0,00821	PNKD	paroxysmal nonkinesigenic dyskinesia
0,565265284	0,01966	0,729004689	0,00018	PNN	pinin, desmosome associated protein
0,589678296	0,02578	0,758383773	0,00242	PNN	pinin, desmosome associated protein
0,71548826	0,01961	0,763658749	0,00567	PNO1	partner of NOB1 homolog (S. cerevisiae)
2,865923301	0,00001	2,303775285	0	PNOC	prepronociceptin
0,835666959	0,03161	0,819036698	0,00534	PNPLA3	patatin-like phospholipase domain containing 3
0,596254436	0,03575	0,750539549	0,04633	PNRC2	proline-rich nuclear receptor coactivator 2
1,30224419	0,00463	1,241427492	0,00259	POC5	POC5 centriolar protein homolog (Chlamydomonas)
0,642157904	0,03249	0,727490342	0,00095	POF1B	premature ovarian failure, 1B
0,228299563	0,00006	0,460093825	0,00782	POF1B	premature ovarian failure, 1B
0,25191344	0,00005	0,428688018	0,00006	POF1B	premature ovarian failure, 1B
0,535886731	0,04611	0,803850991	0,01256	POGK	pogo transposable element with KRAB domain
0,821310701	0,00889	0,841479482	0,0028	POGK	pogo transposable element with KRAB domain
0,616853585	0,03971	0,763658749	0,00022	POGZ	pogo transposable element with ZNF domain
0,677362489	0,0287	0,790041312	0,00754	POLE3	polymerase (DNA directed), epsilon 3 (p17 subunit)
0,720464874	0,00937	0,853226098	0,03896	POLE4	polymerase (DNA-directed), epsilon 4 (p12 subunit)
0,743291492	0,02602	0,795536484	0,02552	POLH	polymerase (DNA directed), eta

0,658839976	0,02806	0,873572896	0,03233	POLR1C	polymerase (RNA) I polypeptide C, 30kDa
0,767905135	0,00515	0,753667455	0,00003	POLR1C	polymerase (RNA) I polypeptide C, 30kDa
0,637722196	0,00136	0,757333158	0,00007	POLR1D	polymerase (RNA) I polypeptide D, 16kDa
0,668037039	0,00497	0,814507563	0,00102	POLR1D	polymerase (RNA) I polypeptide D, 16kDa
0,778624691	0,00534	0,852634892	0,00409	POLR1E	polymerase (RNA) I polypeptide E, 53kDa
1,185914499	0,02424	1,110338834	0,01141	POLR2C	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa
0,604158922	0,03133	0,84323111	0,01648	POLR2I	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa
0,756808396	0,01192	0,823591017	0,00151	POLR3C	polymerase (RNA) III (DNA directed) polypeptide C (62kD)
0,74277646	0,00334	0,733058379	0,00008	POM121	POM121 membrane glycoprotein
1,267512522	0,03741	1,582274602	0	POM121L12	POM121 membrane glycoprotein-like 12
1,356604327	0,01381	1,235418637	0,01532	POM121L12	POM121 membrane glycoprotein-like 12
0,635956503	0,00587	0,793333843	0,00393	PON2	paraoxonase 2
0,78132788	0,00534	0,826450318	0,00299	POP4	processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae)
0,76101669	0,00449	0,832198735	0,00224	POP7	processing of precursor 7, ribonuclease P/MRP subunit (S. cerevisiae)
1,204137381	0,03837	1,141554707	0,02598	POPDC2	popeye domain containing 2
5,045509635	0,00007	3,934008296	0,00001	POU2AF1	POU class 2 associating factor 1
1,693490625	0,00337	2,011121161	0,00141	POU2F2	POU class 2 homeobox 2
1,446934886	0,01047	1,400556321	0,00175	POU2F2	POU class 2 homeobox 2
0,798851916	0,00735	0,866336856	0,03936	POU2F3	POU class 2 homeobox 3
0,652929894	0,01933	0,797192477	0,01005	POU3F1	POU class 3 homeobox 1
0,50243191	0,00526	0,586417475	0,00025	PP13439	hypothetical LOC100128046
0,672683604	0,04796	0,811127156	0,00531	PPA1	pyrophosphatase (inorganic) 1
1,807505454	0,01798	1,715941061	0,00011	PPAPDC1B	phosphatidic acid phosphatase type 2 domain containing 1B
1,964279191	0,00256	1,715941061	0,00005	PPAPDC1B	phosphatidic acid phosphatase type 2 domain containing 1B
2,657371628	0,00006	1,910565873	0,00042	PPAPDC1B	phosphatidic acid phosphatase type 2 domain containing 1B
1,686462221	0,00339	1,634670657	0,00073	PPAPDC1B	phosphatidic acid phosphatase type 2 domain containing 1B
1,557249382	0,00495	1,395710764	0,00002	PPAPDC3	phosphatidic acid phosphatase type 2 domain containing 3
2,300583787	0,01388	1,680627504	0,01124	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
1,623379162	0,00887	1,463071221	0,00091	PPCDC	phosphopantothenoylcysteine decarboxylase
0,768970416	0,00239	0,752623374	0,00019	PPCS	phosphopantothenoylcysteine synthetase
0,592546385	0,03628	0,78132788	0,003	PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)
0,738669032	0,03004	0,865136691	0,00221	PPFIBP2	PTPRF interacting protein, binding protein 2 (liprin beta 2)
0,674083866	0,02479	0,917639882	0,03017	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,66296288	0,01536	0,547905883	0,00002	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,613867842	0,02579	0,656560563	0,00497	PPID	peptidylprolyl isomerase D
0,624598063	0,0269	0,724973416	0,00038	PPID	peptidylprolyl isomerase D
0,677832163	0,02158	0,709561678	0,00512	PPIF	peptidylprolyl isomerase F
0,687770909	0,01145	0,746389192	0,0001	PPIG	peptidylprolyl isomerase G (cyclophilin G)
0,679243142	0,00902	0,910038824	0,04424	PPIH	peptidylprolyl isomerase H (cyclophilin H)
0,780786493	0,04534	0,844986384	0,00979	PPIL1	peptidylprolyl isomerase (cyclophilin)-like 1
0,639492791	0,01583	0,479299719	0,00023	PPM1A	protein phosphatase, Mg2+/Mn2+ dependent, 1A
0,383686524	0,0031	0,452816992	0,00001	PPM1L	protein phosphatase, Mg2+/Mn2+ dependent, 1L
0,583983697	0,00145	0,55171687	0,00001	PPM1L	protein phosphatase, Mg2+/Mn2+ dependent, 1L
0,562139462	0,03237	0,539614118	0,00002	PPM1L	protein phosphatase, Mg2+/Mn2+ dependent, 1L
1,395710764	0,01019	1,436940177	0,00039	PPM1M	protein phosphatase, Mg2+/Mn2+ dependent, 1M
1,960198831	0,00066	1,348167732	0,00125	PPOX	protoporphyrinogen oxidase
0,61429349	0,01415	0,633317127	0,00003	PPP1CB	protein phosphatase 1, catalytic subunit, beta isozyme
1,345367209	0,04237	1,364147835	0,00028	PPP1R14A	protein phosphatase 1, regulatory (inhibitor) subunit 14A
0,39447342	0,00021	0,577142709	0	PPP1R14C	protein phosphatase 1, regulatory (inhibitor) subunit 14C
1,990319444	0,00014	1,547564994	0,00001	PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B
1,692317193	0,00608	1,397646972	0,00082	PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B
1,946658748	0,00003	1,607701981	0,00001	PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B
0,716480825	0,03361	0,756808396	0,00077	PPP1R3D	protein phosphatase 1, regulatory (inhibitor) subunit 3D
0,698823486	0,03237	0,815072332	0,00399	PPP1R3D	protein phosphatase 1, regulatory (inhibitor) subunit 3D
0,653382627	0,02488	0,859160755	0,00787	PPP1R7	protein phosphatase 1, regulatory (inhibitor) subunit 7
0,722966147	0,0298	0,867538687	0,00864	PPP2R2A	protein phosphatase 2, regulatory subunit B, alpha
0,647521499	0,03832	0,730522189	0,0012	PPP2R2B	protein phosphatase 2, regulatory subunit B, beta
0,477641468	0,00027	0,765778999	0,01963	PPP2R2C	protein phosphatase 2, regulatory subunit B, gamma
0,414947293	0,00011	0,651122095	0,00117	PPP2R2C	protein phosphatase 2, regulatory subunit B, gamma
0,639492791	0,00222	0,74277646	0,00846	PPP2R3A	protein phosphatase 2, regulatory subunit B'', alpha
0,657927263	0,03912	0,734584317	0,00139	PPP2R3A	protein phosphatase 2, regulatory subunit B'', alpha
0,503128912	0,00468	0,673150035	0,00009	PPP2R3A	protein phosphatase 2, regulatory subunit B'', alpha
0,743806881	0,03914	0,894404902	0,01109	PPP2R5A	protein phosphatase 2, regulatory subunit B', alpha
0,597495602	0,02336	0,771640088	0,00009	PPP2R5C	protein phosphatase 2, regulatory subunit B', gamma
1,246601194	0,01226	1,088997015	0,03414	PPP3CC	protein phosphatase 3, catalytic subunit, gamma isozyme
1,340712592	0,02749	1,38991822	0,00008	PRAF2	PRA1 domain family, member 2
1,294145654	0,00322	1,335148303	0,00001	PRCP	prolylcarboxypeptidase (angiotensinase C)
0,775393206	0,03751	0,880259014	0,01595	PRDX2	peroxiredoxin 2
1,880348405	0,00005	1,5888688	0,00004	PRDX4	peroxiredoxin 4
0,711531731	0,00439	0,823020345	0,00266	PRDX6	peroxiredoxin 6
0,634635443	0,00012	0,730016005	0,00003	PRDX6	peroxiredoxin 6
1,366987452	0,03234	1,30224419	0,00392	PREB	prolactin regulatory element binding
0,737134609	0,00247	0,87175824	0,04928	PREP	prolyl endopeptidase
1,821339667	0,00657	1,496922987	0,00009	PREX1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
1,510472586	0,00216	1,434949535	0,00021	PREX1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
1,296839555	0,02001	1,276328769	0,00051	PRF1	perforin 1 (pore forming protein)
1,597703833	0,00061	1,257013375	0,00033	PRF1	perforin 1 (pore forming protein)
0,691116103	0,02234	0,723467443	0,00551	PRIMA1	proline rich membrane anchor 1
1,497960934	0,0377	1,22603486	0,03007	PRKACB	protein kinase, cAMP-dependent, catalytic, beta
1,278985581	0,02928	1,25092908	0,00056	PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit
1,326845141	0,00208	1,223488041	0,02666	PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit
1,921189728	0,02804	1,412254404	0,01757	PRKCB	protein kinase C, beta
2,134650676	0,00006	1,662091723	0,00246	PRKCB	protein kinase C, beta
1,570256237	0,00639	1,511519928	0,00007	PRKCQ	protein kinase C, theta
1,450952208	0,01726	1,353786279	0,00057	PRKCQ	protein kinase C, theta
0,661127303	0,00197	0,741747467	0,00031	PRKDC	protein kinase, DNA-activated, catalytic polypeptide
0,671751713	0,01071	0,737134609	0,00227	PRKRA	protein kinase, interferon-inducible double stranded RNA dependent activator
0,508035071	0,00281	0,757858283	0,00094	PRKX	protein kinase, X-linked
1,377450046	0,0246	1,198309021	0,00777	PRND	prion protein 2 (dublet)
2,852051435	0,00733	1,59549048	0,0085	PROK2	prokineticin 2
1,237990291	0,01022	1,20664392	0,01356	PROX1	prospero homeobox 1
1,209994089	0,03412	1,176906737	0,01357	PROZ	protein Z, vitamin K-dependent plasma glycoprotein
0,719965659	0,01207	0,771105413	0,00002	PRPF38A	PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
0,662503509	0,03227	0,808881348	0,01067	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)
1,29056249	0,01148	1,157490217	0,00936	PRR15L	proline rich 15-like
1,181811547	0,04667	1,159095952	0,01574	PRR22	proline rich 22
1,316766922	0,01386	1,419123356	0,00005	PRR5L	proline rich 5 like
0,610473256	0,01764	0,497235084	0,00032	PRRC2C	proline-rich coiled-coil 2C

0,608783009	0,03046	0,665264521	0,00299	PRRG4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)
0,793333843	0,04852	0,812252396	0,03899	PRSS2	protease, serine, 2 (trypsin 2)
0,61301743	0,0197	0,781869643	0,03313	PRSS3	protease, serine, 3
0,735093668	0,01208	0,803293997	0,04832	PRSS3	protease, serine, 3
1,363202607	0,01009	1,104964485	0,04225	PRUNE	prune homolog (Drosophila)
0,669891801	0,03932	0,852634892	0,00211	PSEN1	presenilin 1
0,796640096	0,02487	0,873572896	0,01824	PSMA1	proteasome (prosome, macropain) subunit, alpha type, 1
0,639936207	0,02196	0,806641759	0,00009	PSMA4	proteasome (prosome, macropain) subunit, alpha type, 4
0,679243142	0,04084	0,879649076	0,00505	PSMB1	proteasome (prosome, macropain) subunit, beta type, 1
0,610896551	0,04061	0,89688816	0,04042	PSMB7	proteasome (prosome, macropain) subunit, beta type, 7
0,615999037	0,01463	0,827023368	0,00011	PSMC1	proteasome (prosome, macropain) 26S subunit, ATPase, 1
0,710546022	0,01881	0,829319546	0,00472	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPase, 2
0,61985385	0,00872	0,839149637	0,00241	PSMC5	proteasome (prosome, macropain) 26S subunit, ATPase, 5
0,623300597	0,01519	0,774319028	0,00425	PSMD6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6
0,743291492	0,01638	0,757858283	0,00001	PSMD7	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
0,623732786	0,01846	0,884540435	0,02778	PSME4	proteasome (prosome, macropain) activator subunit 4
0,683020128	0,03078	0,81056512	0,0028	PSMG1	proteasome (prosome, macropain) assembly chaperone 1
0,526315577	0,00015	0,577142709	0,00002	PSMG4	proteasome (prosome, macropain) assembly chaperone 4
0,757333158	0,01751	0,838568184	0,01131	PTCD1	pentatricopeptide repeat domain 1
0,738157203	0,02236	0,784584098	0,00451	PTEN	phosphatase and tensin homolog
0,392020227	0,00453	0,60667678	0,00446	PTGER3	prostaglandin E receptor 3 (subtype EP3)
0,401925495	0,02277	0,663882579	0,00093	PTGR1	prostaglandin reductase 1
0,590496331	0,0052	0,685391402	0,0001	PTGR1	prostaglandin reductase 1
0,43467228	0,01004	0,728499557	0,00019	PTGR1	prostaglandin reductase 1
0,597495602	0,00597	0,727994774	0,00266	PTGR1	prostaglandin reductase 1
1,388955136	0,01221	1,32317144	0,00145	PTK2B	PTK2B protein tyrosine kinase 2 beta
1,350037985	0,00371	1,256142381	0,00451	PTK2B	PTK2B protein tyrosine kinase 2 beta
0,609627547	0,02083	0,648869383	0,00071	PTK6	PTK6 protein tyrosine kinase 6
1,212512819	0,02657	1,183451022	0,00256	PTN	pleiotrophin
0,540737382	0,03257	0,792234811	0,03526	PTN	pleiotrophin
0,555554364	0,00552	0,740206649	0,02418	PTN	pleiotrophin
2,701948169	0,01202	2,550888783	0	PTP4A3	protein tyrosine phosphatase type IVA, member 3
3,396384986	0,00004	2,373473595	0	PTP4A3	protein tyrosine phosphatase type IVA, member 3
1,235418637	0,02869	1,133669413	0,02215	PTPN1	protein tyrosine phosphatase, non-receptor type 1
1,702907415	0,00385	1,443929196	0,00048	PTPN1	protein tyrosine phosphatase, non-receptor type 1
0,50278029	0,03696	0,682073917	0,00031	PTPN13	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)
1,303147149	0,02546	1,31494276	0,00022	PTPN18	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)
0,582770599	0,03559	0,630688704	0,00001	PTPN21	protein tyrosine phosphatase, non-receptor type 21
1,485552921	0,00503	1,442928687	0,00394	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
1,543280175	0,03931	1,292352831	0,00649	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
0,544876056	0,00064	0,663882579	0,00005	PTPN3	protein tyrosine phosphatase, non-receptor type 3
1,998614186	0,0001	1,622254311	0,00012	PTPN7	protein tyrosine phosphatase, non-receptor type 7
1,294145654	0,00283	1,216722359	0,00418	PTPRA	protein tyrosine phosphatase, receptor type, A
1,820077648	0,00481	1,77399261	0,00855	PTPRC	protein tyrosine phosphatase, receptor type, C
2,184041091	0,00181	1,64832417	0,00822	PTPRC	protein tyrosine phosphatase, receptor type, C
1,795020101	0,00059	1,494849249	0,00033	PTPRCAP	protein tyrosine phosphatase, receptor type, C-associated protein
1,216722359	0,04473	1,196648963	0,00607	PTPRE	protein tyrosine phosphatase, receptor type, E
0,580754366	0,02471	0,79774524	0,00633	PTPRF	protein tyrosine phosphatase, receptor type, F
0,614719434	0,0441	0,806082831	0,00907	PTPRF	protein tyrosine phosphatase, receptor type, F
1,572434584	0,00279	1,41519416	0,00037	PTPRJ	protein tyrosine phosphatase, receptor type, J
1,279872414	0,04311	1,234562607	0,00504	PTPRM	protein tyrosine phosphatase, receptor type, M
1,294145654	0,04828	1,293248932	0,00024	PTPRN2	protein tyrosine phosphatase, receptor type, N polypeptide 2
1,492778383	0,00478	1,386069886	0,00001	PTPRU	protein tyrosine phosphatase, receptor type, U
1,175276328	0,0495	1,136816973	0,01373	PTTG1IP	pituitary tumor-transforming 1 interacting protein
0,498270131	0,0042	0,792784137	0,00004	PURB	purine-rich element binding protein B
1,29145735	0,02198	1,219255094	0,0047	PURB	purine-rich element binding protein B
0,480297432	0,00998	0,670821112	0,01067	PVRL4	poliovirus receptor-related 4
0,773782497	0,01514	0,775393206	0,00027	PWP1	PWP1 homolog (S. cerevisiae)
0,659296807	0,00731	0,762600827	0,00004	PWP1	PWP1 homolog (S. cerevisiae)
1,711190051	0,00142	1,73748437	0,00039	PXDN	peroxidasin homolog (Drosophila)
1,667862088	0,00245	1,859609885	0,00002	PXDN	peroxidasin homolog (Drosophila)
1,494849249	0,01431	1,472226862	0,00021	PXN	paxillin
0,705637922	0,01271	0,86934456	0,01056	QARS	glutaminyl-tRNA synthetase
1,901318202	0,00114	1,615521555	0,00007	QPRT	quinolinate phosphoribosyltransferase
1,484523571	0,00217	1,377450046	0,00011	QPRT	quinolinate phosphoribosyltransferase
1,235418637	0,03596	1,130530567	0,01583	QSOX2	quiescin Q6 sulfhydryl oxidase 2
1,265756594	0,01718	1,243149669	0,00039	R3HDM1	R3H domain containing 1
0,774855931	0,03539	0,844986384	0,04403	RAB10	RAB10, member RAS oncogene family
0,706127202	0,0039	0,771640088	0,00071	RAB11A	RAB11A, member RAS oncogene family
0,538493188	0,00706	0,541862983	0	RAB11A	RAB11A, member RAS oncogene family
0,609205132	0,00161	0,727994774	0,00369	RAB18	RAB18, member RAS oncogene family
0,673150035	0,04069	0,737645729	0,04511	RAB18	RAB18, member RAS oncogene family
1,681792831	0,00043	1,33422317	0,00057	RAB20	RAB20, member RAS oncogene family
0,351111219	0,02872	0,763129604	0,00618	RAB25	RAB25, member RAS oncogene family
1,561572985	0,00654	1,73868912	0,00004	RAB26	RAB26, member RAS oncogene family
1,341642225	0,01218	1,502119927	0,00002	RAB26	RAB26, member RAS oncogene family
0,627201102	0,00031	0,739693755	0,01477	RAB27B	RAB27B, member RAS oncogene family
0,591725511	0,00591	0,620713746	0,00345	RAB27B	RAB27B, member RAS oncogene family
1,422077411	0,01542	1,625631204	0,00037	RAB30	RAB30, member RAS oncogene family
1,582274602	0,00015	1,472226862	0,00007	RAB30	RAB30, member RAS oncogene family
2,865923301	0,00001	2,005552872	0,00004	RAB30	RAB30, member RAS oncogene family
1,286989247	0,01772	1,161508732	0,01462	RAB32	RAB32, member RAS oncogene family
1,402499251	0,00537	1,226884977	0,00145	RAB33A	RAB33A, member RAS oncogene family
1,502119927	0,0006	1,355664327	0,00035	RAB37	RAB37, member RAS oncogene family
0,662503509	0,00108	0,716480825	0,00031	RAB38	RAB38, member RAS oncogene family
1,977941833	0,00038	1,231998073	0,00897	RAB39B	RAB39B, member RAS oncogene family
1,221793102	0,0266	1,108800644	0,03972	RAB39B	RAB39B, member RAS oncogene family
1,411275843	0,00588	1,220946513	0,04733	RAB3A	RAB3A, member RAS oncogene family
0,582366793	0,00176	0,709070018	0,00023	RAB3D	RAB3D, member RAS oncogene family
0,669891801	0,00588	0,837987135	0,03	RAB3IP	RAB3A interacting protein (rabin3)
0,610050255	0,00745	0,758383773	0,0006	RAB40C	RAB40C, member RAS oncogene family
0,749499801	0,04972	0,683967652	0	RAB4A	RAB4A, member RAS oncogene family
0,612168196	0,00771	0,787853886	0,00487	RAB5A	RAB5A, member RAS oncogene family
1,341642225	0,02479	1,293248932	0,00173	RAB5C	RAB5C, member RAS oncogene family
1,459020344	0,01508	1,347233577	0,00231	RAB7L1	RAB7, member RAS oncogene family-like 1
1,30224419	0,03493	1,25962998	0,00207	RAB8B	RAB8B, member RAS oncogene family
0,657927263	0,00747	0,783497187	0,01168	RAB9A	RAB9A, member RAS oncogene family
0,71548826	0,00138	0,866937564	0,00843	RABIF	RAB interacting factor

0,732550437	0,03417	0,780786493	0,00855	RABL3	RAB, member of RAS oncogene family-like 3
2,171963713	0,00607	2,093620564	0,00052	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)
2,291035796	0,00001	2,034959384	0,00001	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)
0,695440986	0,01995	0,855002178	0,00796	RAD23B	RAD23 homolog B (S. cerevisiae)
0,667574152	0,00094	0,720964436	0,00001	RAE1	RAE1 RNA export 1 homolog (S. pombe)
0,497924877	0,00179	0,695440986	0,00644	RAET1E	retinoic acid early transcript 1E
0,587638164	0,00061	0,708578698	0,00007	RALA	v-ral simian leukemia viral oncogene homolog A (ras related)
0,671751713	0,02676	0,745872013	0	RALA	v-ral simian leukemia viral oncogene homolog A (ras related)
0,680185426	0,01641	0,85797053	0,01031	RALBP1	ralA binding protein 1
0,491410299	0,01282	0,653835674	0,00007	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)
0,516199268	0,01132	0,660669203	0,00078	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)
0,635075491	0,03979	0,711531731	0,0002	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)
0,618995145	0,00256	0,775930854	0,00103	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)
0,709070018	0,02585	0,802737389	0,01358	RALGAPB	Ral GTPase activating protein, beta subunit (non-catalytic)
0,743291492	0,0412	0,870550563	0,02512	RALGAPB	Ral GTPase activating protein, beta subunit (non-catalytic)
1,28788163	0,02348	1,151887642	0,0095	RALGPS1	Ral GEF with PH domain and SH3 binding motif 1
0,599985691	0,00131	0,721464343	0,00007	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2
1,453972517	0,01413	1,441928871	0,00255	RAMP2	receptor (G protein-coupled) activity modifying protein 2
1,587767862	0,00909	1,736280455	0	RAMP3	receptor (G protein-coupled) activity modifying protein 3
0,527411159	0,03561	0,779704843	0,00702	RAN	RAN, member RAS oncogene family
0,610896551	0,0156	0,746906729	0,00015	RANBP2	RAN binding protein 2
0,583983697	0,0246	0,719965659	0,02474	RANBP9	RAN binding protein 9
0,62981499	0,02299	0,61985385	0,00224	RANBP9	RAN binding protein 9
0,689680461	0,03019	0,833931044	0,04793	RANGAP1	Ran GTPase activating protein 1
0,572758949	0,00933	0,684441907	0,00001	RAPGEF5	Rap guanine nucleotide exchange factor (GEF) 5
0,47237352	0,00057	0,649769531	0,01178	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
0,542614686	0,0458	0,589678296	0,0001	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
0,556710809	0,02383	0,555939579	0,00004	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
1,70408819	0,03095	1,990319444	0,027	RARA	retinoic acid receptor, alpha
2,187070915	0,00183	1,563739286	0	RARB	retinoic acid receptor, beta
1,286097483	0,02616	1,45296505	0,00003	RARB	retinoic acid receptor, beta
1,638073396	0,03705	1,316766922	0,02888	RARRES1	retinoic acid receptor responder (tazarotene induced) 1
1,706452196	0,02763	1,772763398	0,00001	RARRES2	retinoic acid receptor responder (tazarotene induced) 2
0,648419777	0,01363	0,860352631	0,00063	RARS	arginyl-tRNA synthetase
0,774855931	0,03557	0,874784765	0,00189	RARS2	arginyl-tRNA synthetase 2, mitochondrial
1,271031689	0,04973	1,191682575	0,03154	RASA3	RAS p21 protein activator 3
0,50768305	0,00058	0,607939642	0,00002	RASAL2	RAS protein activator like 2
0,639492791	0,01313	0,610050255	0,00115	RASAL2	RAS protein activator like 2
1,447938172	0,00245	1,564823563	0,00063	RASD2	RASD family, member 2
1,296839555	0,01657	1,30224419	0,00345	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)
1,508380077	0,00135	1,249196126	0,02603	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)
1,795020101	0,00005	1,365093718	0,00619	RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)
1,480413298	0,00115	1,43296165	0,00008	RASL12	RAS-like, family 12
1,840375301	0,00005	1,43893358	0,00363	RASSF2	Ras association (RalGDS/AF-6) domain family member 2
1,51887169	0,00026	1,45195828	0,00002	RASSF4	Ras association (RalGDS/AF-6) domain family member 4
1,853176124	0,00981	1,888184838	0,00002	RASSF4	Ras association (RalGDS/AF-6) domain family member 4
1,45195828	0,03308	1,422077411	0,00038	RASSF4	Ras association (RalGDS/AF-6) domain family member 4
2,768299432	0,00119	1,888184838	0,0027	RASSF6	Ras association (RalGDS/AF-6) domain family member 6
2,465704651	0,0004	1,808758755	0,0003	RASSF6	Ras association (RalGDS/AF-6) domain family member 6
1,929196369	0,0028	1,594384953	0,00241	RASSF6	Ras association (RalGDS/AF-6) domain family member 6
1,170398641	0,03601	1,118837101	0,01519	RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
0,71400199	0,00528	0,770571108	0,00955	RBBP9	retinoblastoma binding protein 9
0,726986259	0,02767	0,878430468	0,01339	RBM15B	RNA binding motif protein 15B
0,459775023	0,00661	0,554784736	0,00001	RBM25	RNA binding motif protein 25
0,791137301	0,04646	0,778624691	0,01198	RBM41	RNA binding motif protein 41
0,690158677	0,01094	0,713012859	0,00008	RBM8A	RNA binding motif protein 8A
1,264879542	0,0154	1,234562607	0,00056	RBMS2	RNA binding motif, single stranded interacting protein 2
1,266634254	0,02756	1,221793102	0,00252	RBP5	retinol binding protein 5, cellular
1,720705261	0,00525	1,277213759	0,00053	RBPMS	RNA binding protein with multiple splicing
0,614719434	0,02907	0,632878297	0,00031	RCAN3	RCAN family member 3
0,636397468	0,04599	0,712518807	0,0005	RCOR1	REST corepressor 1
2,441893025	0,00001	1,840375301	0,00003	RCSD1	RCSD domain containing 1
1,557249382	0,00371	1,455989549	0,00088	RDH10	retinol dehydrogenase 10 (all-trans)
0,484980955	0,00087	0,712518807	0,00481	RDH12	retinol dehydrogenase 12 (all-trans/9-cis/11-cis)
0,47963206	0,00067	0,775393206	0,01984	REEP1	receptor accessory protein 1
0,65747138	0,00102	0,819604608	0,00136	REEP4	receptor accessory protein 4
1,36983298	0,01516	1,157490217	0,01668	REM1	RAS (RAD and GEM)-like GTP-binding 1
1,354724977	0,02851	1,218410264	0,00941	RENBP	renin binding protein
1,285206337	0,00198	1,156688184	0,01687	REPIN1	replication initiator 1
0,807201075	0,04571	0,819036698	0,00127	REPS1	RALBP1 associated Eps domain containing 1
0,641268301	0,01328	0,827023368	0,00743	RFC2	replication factor C (activator 1) 2, 40kDa
0,668500248	0,02463	0,837406488	0,00273	RFC2	replication factor C (activator 1) 2, 40kDa
0,725476104	0,03054	0,846158597	0,01104	RFC4	replication factor C (activator 1) 4, 37kDa
1,295042999	0,04369	1,158292806	0,03325	RFTN1	raftlin, lipid raft linker 1
0,637280314	0,03007	0,738669032	0,00003	RG9MTD1	RNA (guanine-9-) methyltransferase domain containing 1
0,687770909	0,009	0,756808396	0,00027	RGNEF	190 kDa guanine nucleotide exchange factor
0,483303049	0,00035	0,728499557	0,0017	RGNEF	190 kDa guanine nucleotide exchange factor
0,614719434	0,00011	0,743806881	0,00103	RGNEF	190 kDa guanine nucleotide exchange factor
0,514413354	0,00009	0,719965659	0,00055	RGNEF	190 kDa guanine nucleotide exchange factor
5,856342784	0,00005	3,1777376	0,00001	RGS1	regulator of G-protein signaling 1
5,637283021	0,00002	2,709449955	0	RGS1	regulator of G-protein signaling 1
0,601234624	0,01827	0,801069878	0,00485	RGS12	regulator of G-protein signaling 12
0,567227742	0,00269	0,738157203	0,00649	RGS12	regulator of G-protein signaling 12
0,833931044	0,03094	0,839731493	0,01065	RGS14	regulator of G-protein signaling 14
1,414213562	0,01178	1,396678532	0,00061	RGS16	regulator of G-protein signaling 16
2,401606855	0,0005	1,399585866	0,00232	RGS18	regulator of G-protein signaling 18
2,416635687	0,00008	1,53900722	0,02384	RGS2	regulator of G-protein signaling 2, 24kDa
0,454074209	0,00274	0,517632462	0	RGS20	regulator of G-protein signaling 20
1,43097652	0,03613	1,366040257	0,00201	RGS3	regulator of G-protein signaling 3
1,21335356	0,04848	1,125058485	0,04974	RGS3	regulator of G-protein signaling 3
2,294214048	0,03664	2,469125214	0,00003	RGS4	regulator of G-protein signaling 4
1,617762697	0,01183	1,516767545	0,00205	RGS5	regulator of G-protein signaling 5
1,300440147	0,00539	1,22603486	0,04433	RHBDD1	rhomboid domain containing 1
1,429984986	0,01974	1,341642225	0,00015	RHBDD1	rhomboid domain containing 1
1,2397077	0,02171	1,180174343	0,00544	RHBDL3	rhomboid, veinlet-like 3 (Drosophila)
1,308578071	0,00535	1,160703914	0,02931	RHD	Rh blood group, D antigen
1,341642225	0,0007	1,257884972	0,0003	RHEBL1	Ras homolog enriched in brain like 1
1,230291345	0,03863	1,183451022	0,01835	RHOBTB2	Rho-related BTB domain containing 2

1,42899414	0,01665	1,519924856	0,00001	RHOF	ras homolog gene family, member F (in filopodia)
1,607701981	0,00102	1,502119927	0,00011	RHOF	ras homolog gene family, member F (in filopodia)
1,759298152	0,00575	1,74956953	0	RHOH	ras homolog gene family, member H
3,950403446	0,00024	2,606294299	0	RHOH	ras homolog gene family, member H
1,387030969	0,03962	1,374588696	0,01633	RHOJ	ras homolog gene family, member J
1,577893682	0,0002	1,242288282	0,00279	RILPL2	Rab interacting lysosomal protein-like 2
1,28788163	0,02488	1,128964405	0,03439	RIMBP2	RIMS binding protein 2
0,483973513	0,00038	0,636838738	0,00001	RIMS3	regulating synaptic membrane exocytosis 3
0,431669779	0,0223	0,692554734	0,00644	RIOK3	RIO kinase 3 (yeast)
0,748461493	0,00922	0,790041312	0,00107	RMND1	required for meiotic nuclear division 1 homolog (S. cerevisiae)
0,689202576	0,02238	0,762072415	0,01493	RMND5A	required for meiotic nuclear division 5 homolog A (S. cerevisiae)
1,257884972	0,00653	1,179356592	0,01557	RNASE2	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)
1,884262548	0,00007	1,971098674	0,00015	RNASE6	ribonuclease, RNase A family, k6
1,51887169	0,03746	1,505246747	0,00004	RNASET2	ribonuclease T2
0,763129604	0,02054	0,786217292	0,01097	RNF103	ring finger protein 103
1,447938172	0,00916	1,144724161	0,03699	RNF121	ring finger protein 121
0,600401714	0,01584	0,814507563	0,03952	RNF126	ring finger protein 126
0,689680461	0,00016	0,771105413	0,02255	RNF141	ring finger protein 141
1,825130977	0,00004	1,5888688	0,00022	RNF166	ring finger protein 166
1,397646972	0,00417	1,325007017	0,00262	RNF181	ring finger protein 181
0,726986259	0,0406	0,790589117	0,00099	RNF20	ring finger protein 20
1,2397077	0,0095	1,158292806	0,01098	RNF216	ring finger protein 216
0,699792933	0,01237	0,823591017	0,00251	RNF7	ring finger protein 7
0,595015848	0,00906	0,792784137	0,00136	RNF8	ring finger protein 8
0,744838732	0,00291	0,868140228	0,00512	ROBO2	roundabout, axon guidance receptor, homolog 2 (Drosophila)
1,249196126	0,03315	1,164733586	0,04866	ROBO4	roundabout homolog 4, magic roundabout (Drosophila)
1,310393404	0,02406	1,209994089	0,03867	ROBO4	roundabout homolog 4, magic roundabout (Drosophila)
0,62981499	0,02366	0,844400887	0,02031	ROCK2	Rho-associated, coiled-coil containing protein kinase 2
0,62676651	0,00617	0,752101876	0,00005	ROD1	ROD1 regulator of differentiation 1 (S. pombe)
0,624598063	0,00875	0,765248385	0,00516	ROD1	ROD1 regulator of differentiation 1 (S. pombe)
0,288971677	0,00015	0,464258426	0,00002	RORA	RAR-related orphan receptor A
0,266646445	0,0001	0,43077308	0,00001	RORA	RAR-related orphan receptor A
0,335178148	0,00353	0,496890547	0,00015	RORA	RAR-related orphan receptor A
0,346037429	0,00489	0,478967609	0,00008	RORA	RAR-related orphan receptor A
0,394746943	0,01158	0,579146403	0,00017	RORA	RAR-related orphan receptor A
0,699792933	0,0355	0,756283999	0,03758	RORA	RAR-related orphan receptor A
0,691595315	0,01727	0,784584098	0,02055	RPA1	replication protein A1, 70kDa
0,698339266	0,00085	0,824733549	0,00176	RPAIN	RPA interacting protein
0,765248385	0,02764	0,864537231	0,04328	RPAP2	RNA polymerase II associated protein 2
0,562139462	0,00022	0,687294348	0,00001	RPF1	ribosome production factor 1 homolog (S. cerevisiae)
0,65747138	0,00466	0,767905135	0,00003	RPF2	ribosome production factor 2 homolog (S. cerevisiae)
0,780786493	0,00257	0,898755127	0,03686	RPL10A	ribosomal protein L10a
0,500693628	0,03498	0,862143545	0,00878	RPL11	ribosomal protein L11
0,817335328	0,01718	0,906261938	0,01892	RPL12	ribosomal protein L12
0,819036698	0,02599	0,883315051	0,01245	RPL15	ribosomal protein L15
1,164733586	0,04014	1,153485605	0,02444	RPL18	ribosomal protein L18
0,730522189	0,01644	0,908148418	0,01557	RPL22	ribosomal protein L22
0,51015233	0,00096	0,828170661	0,00247	RPL22	ribosomal protein L22
0,773246337	0,02152	0,923382311	0,0492	RPL22	ribosomal protein L22
0,651573575	0,00293	0,857376037	0,00789	RPL22	ribosomal protein L22
0,73153561	0,0147	0,901875378	0,01262	RPL22	ribosomal protein L22
0,751059963	0,04187	0,739693755	0,00001	RPL22L1	ribosomal protein L22-like 1
0,680657058	0,02947	0,844986384	0,00045	RPL26L1	ribosomal protein L26-like 1
0,567227742	0,00405	0,681601304	0	RPL35A	ribosomal protein L35a
0,855595026	0,02933	0,87175824	0,00031	RPL37	ribosomal protein L37
0,73153561	0,00214	0,720464874	0,00361	RPL37	ribosomal protein L37
0,501040803	0,01073	0,622437118	0,00026	RPL37	ribosomal protein L37
1,31494276	0,04929	1,154285418	0,02515	RPL39L	ribosomal protein L39-like
0,784040454	0,01896	0,8962667	0,02045	RPL5	ribosomal protein L5
0,727994774	0,02694	0,813943185	0,00033	RPL7L1	ribosomal protein L7-like 1
1,382232207	0,00308	1,424050196	0,00022	RPN2	ribophorin II
1,316766922	0,01279	1,395710764	0,00061	RPN2	ribophorin II
0,774319028	0,01888	0,795536484	0,0001	RPP14	ribonuclease P/MRP 14kDa subunit
0,720464874	0,03936	0,839731493	0,0016	RPP38	ribonuclease P/MRP 38kDa subunit
0,707106781	0,00455	0,729510172	0,00001	RPP40	ribonuclease P/MRP 40kDa subunit
1,318593614	0,01757	1,232852325	0,01045	RPRD2	regulation of nuclear pre-mRNA domain containing 2
0,752101876	0,01416	0,693515485	0,00051	RPS21	ribosomal protein S21
0,717972255	0,00982	0,773782497	0,00569	RPS27A	ribosomal protein S27a
0,751059963	0,01458	0,829319546	0,00325	RPS4Y1	ribosomal protein S4, Y-linked 1
1,255271991	0,04754	1,306765254	0,00005	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2
1,399585866	0,03101	1,392811481	0,00137	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2
0,268873598	0,00119	0,464258426	0,03409	RPTN	repetin
0,840313752	0,03876	0,748461493	0,00046	RPUSD3	RNA pseudouridylate synthase domain containing 3
0,549046407	0,01514	0,786762445	0,00631	RRAGC	Ras-related GTP binding C
0,715984371	0,04127	0,788946841	0,00027	RRAGC	Ras-related GTP binding C
0,47204621	0,003	0,729510172	0,00019	RRAGD	Ras-related GTP binding D
0,594603558	0,0169	0,807201075	0,0042	RRM1	ribonucleotide reductase M1
0,711038705	0,04694	0,686342216	0,00018	RRN3	RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae)
0,762600827	0,03145	0,763129604	0,00025	RRS1	RRS1 ribosome biogenesis regulator homolog (S. cerevisiae)
0,622868708	0,04364	0,790041312	0,00654	RSF1	remodeling and spacing factor 1
0,480630464	0,02911	0,785128119	0,00006	RSL1D1	ribosomal L1 domain containing 1
1,354724977	0,00187	1,147107024	0,01927	RSPO3	R-spondin 3
0,709070018	0,0324	0,775393206	0,00216	RTCD1	RNA terminal phosphate cyclase domain 1
0,753667455	0,04426	0,79774524	0,02451	RUFY2	RUN and FYVE domain containing 2
0,637722196	0,00461	0,72597914	0,00065	RUFY3	RUN and FYVE domain containing 3
0,537002236	0,02238	0,630688704	0,00002	RUFY3	RUN and FYVE domain containing 3
1,512567997	0,00767	1,315854525	0,00062	RUNX1	runt-related transcription factor 1
1,380317353	0,02749	1,469168633	0,00001	RUNX3	runt-related transcription factor 3
0,696888619	0,03309	0,844400887	0,00476	RUSC1	RUN and SH3 domain containing 1
0,710053679	0,01659	0,76630998	0	RWDD1	RWD domain containing 1
1,4063932	0,00343	1,246601194	0,00738	RWDD2A	RWD domain containing 2A
0,672683604	0,00653	0,752623374	0,00369	S100A3	S100 calcium binding protein A3
1,512567997	0,00387	1,315854525	0,00132	S1PR1	sphingosine-1-phosphate receptor 1
1,271031689	0,01513	1,21335356	0,00646	S1PR4	sphingosine-1-phosphate receptor 4
1,584469622	0,01003	1,45296505	0,00004	SAA4	serum amyloid A4, constitutive
0,668037039	0,04256	0,633317127	0,00666	SAMD9	sterile alpha motif domain containing 9
1,500038989	0,02734	1,244011653	0,02993	SAMD9L	sterile alpha motif domain containing 9-like
2,187070915	0,00009	1,491744027	0,01923	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1

2,830388321	0,00089	1,742308384	0,0102	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1
0,517632462	0,00023	0,642157904	0	SAP18	Sin3A-associated protein, 18kDa
0,595428425	0,00363	0,765248385	0,00005	SAP30L	SAP30-like
0,643940815	0,01389	0,798298386	0,00087	SARNP	SAP domain containing ribonucleoprotein
0,655651007	0,02592	0,683020128	0,00195	SASH1	SAM and SH3 domain containing 1
2,122846418	0,00102	2,009727641	0,00002	SASH3	SAM and SH3 domain containing 3
1,348167732	0,01807	1,202469249	0,00227	SAT1	spermidine/spermine N1-acetyltransferase 1
0,579949827	0,04624	0,79774524	0,00314	SAV1	salvador homolog 1 (Drosophila)
0,649769531	0,02633	0,704172113	0,00076	SBF2	SET binding factor 2
0,456599125	0,02642	0,78024548	0,01026	SBSN	suprabasin
0,61985385	0,0308	0,716977624	0,00047	SCAF11	SR-related CTD-associated factor 11
0,776468875	0,03956	0,891310496	0,0256	SCAF11	SR-related CTD-associated factor 11
0,706127202	0,00741	0,808320869	0,00358	SCAF4	SR-related CTD-associated factor 4
0,72597914	0,04947	0,843815796	0,00943	SCAMP1	secretory carrier membrane protein 1
1,851892045	0,00267	1,777685362	0	SCAMP5	secretory carrier membrane protein 5
1,390881972	0,04843	1,502119927	0,00014	SCARB1	scavenger receptor class B, member 1
1,409320755	0,02685	1,52414483	0,00001	SCARB1	scavenger receptor class B, member 1
1,274560627	0,04836	1,271031689	0,00018	SCCPDH	saccharopine dehydrogenase (putative)
0,618566239	0,02462	0,580754366	0	SCD	stearoyl-CoA desaturase (delta-9-desaturase)
0,517273791	0,00749	0,47237352	0	SCD	stearoyl-CoA desaturase (delta-9-desaturase)
1,416175438	0,02173	1,294145654	0,01269	SCD5	stearoyl-CoA desaturase 5
0,579547976	0,02702	0,744322628	0,04205	SCEL	sciellin
1,25092908	0,02233	1,176906737	0,01078	SCG5	secretogranin V (7B2 protein)
0,612168196	0,00842	0,679243142	0,04354	SCIN	scinderin
0,605416542	0,00478	0,775393206	0,00679	SCIN	scinderin
1,314031627	0,01565	1,194163187	0,0195	SCLY	selenocysteine lyase
1,304954948	0,01907	1,209994089	0,02	SCN1B	sodium channel, voltage-gated, type I, beta
1,215036792	0,02133	1,191682575	0,01725	SCN4A	sodium channel, voltage-gated, type IV, alpha subunit
1,376495602	0,00504	1,132098902	0,04164	SCN8A	sodium channel, voltage gated, type VIII, alpha subunit
0,545253866	0,00004	0,773246337	0,03685	SCNN1B	sodium channel, nonvoltage-gated 1, beta
0,709561678	0,00304	0,673616788	0,00061	SCNN1G	sodium channel, nonvoltage-gated 1, gamma
0,652025368	0,03145	0,759435845	0,0132	SCP2	sterol carrier protein 2
1,383190629	0,04258	1,255271991	0,00429	SCPEP1	serine carboxypeptidase 1
0,789493887	0,01741	0,767905135	0,00019	SCRIB	scribbled homolog (Drosophila)
1,374588696	0,03111	1,353786279	0,00008	SCUBE2	signal peptide, CUB domain, EGF-like 2
0,567227742	0,00829	0,7031966	0,00156	SDR16C5	short chain dehydrogenase/reductase family 16C, member 5
0,743806881	0,03479	0,803850991	0,00004	SDR42E1	short chain dehydrogenase/reductase family 42E, member 1
0,334250124	0,00206	0,501388218	0,00874	SDR9C7	short chain dehydrogenase/reductase family 9C, member 7
1,685293659	0,02537	1,775222675	0,00022	SEC11C	SEC11 homolog C (S. cerevisiae)
1,771535038	0,04617	1,215036792	0,04263	SEC14L1	SEC14-like 1 (S. cerevisiae)
2,292624371	0,00003	1,611048582	0,00235	SEC14L1	SEC14-like 1 (S. cerevisiae)
1,72428709	0,0002	1,29056249	0,00234	SEC14L1	SEC14-like 1 (S. cerevisiae)
0,695923196	0,04103	0,661127303	0,00159	SEC22C	SEC22 vesicle trafficking protein homolog C (S. cerevisiae)
1,70408819	0,00978	1,295042999	0,01536	SEC24A	SEC24 family, member A (S. cerevisiae)
1,697015803	0,00033	1,245737416	0,02257	SEC24A	SEC24 family, member A (S. cerevisiae)
1,470187336	0,01321	1,312211255	0,00614	SEC24D	SEC24 family, member D (S. cerevisiae)
1,725482689	0,01629	1,294145654	0,00153	SEC62	SEC62 homolog (S. cerevisiae)
1,413233644	0,02746	1,350974085	0,00013	SECTM1	secreted and transmembrane 1
0,777007269	0,03883	0,732550437	0,01192	SEH1L	SEH1-like (S. cerevisiae)
1,93053405	0,00015	1,688801775	0,00096	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)
1,905275996	0,03887	1,517819253	0,00832	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)
2,314980434	0,00005	1,602139755	0,0014	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)
1,972465409	0,00013	1,695839929	0,00032	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)
2,720741705	0,00073	3,166743463	0,00001	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)
3,224331326	0,00002	3,016760153	0,00008	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)
1,623379162	0,00022	1,388955136	0,00086	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)
2,099433367	0,00051	1,74956953	0,00436	SELE	selectin E
2,785622961	0,00002	2,034959384	0,00074	SELL	selectin L
1,830198336	0,03022	2,077718207	0	SELM	selenoprotein M
1,86735989	0	1,733875127	0	SELP	selectin P (granule membrane protein 140kDa, antigen CD62)
1,855746953	0,00009	1,599920257	0,00003	SELPLG	selectin P ligand
0,803293997	0,03783	0,833353207	0,00355	SELRC1	Sel1 repeat containing 1
0,69495911	0,0196	0,734075318	0,00014	SELRC1	Sel1 repeat containing 1
0,642157904	0,00012	0,843815796	0,01147	SEMA3F	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F
1,365093718	0,02933	1,388955136	0,00022	SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D
1,754427097	0,02358	1,557249382	0,00096	SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D
0,862741345	0,04261	0,84264683	0,00866	SENP3	SUMO1/sentrin/SMT3 specific peptidase 3
0,774319028	0,00902	0,796088099	0,00158	SENP8	SUMO/sentrin specific peptidase family member 8
1,495885758	0,00221	1,270150983	0,00078	SEPX1	selenoprotein X, 1
0,803293997	0,03814	0,832198735	0,00588	SERBP1	SERPINE1 mRNA binding protein 1
0,718470088	0,04391	0,762072415	0,00009	SERBP1	SERPINE1 mRNA binding protein 1
0,667111585	0,04666	0,70514898	0,00912	SERBP1	SERPINE1 mRNA binding protein 1
0,60583633	0,04105	0,668963777	0,00007	SERBP1	SERPINE1 mRNA binding protein 1
1,368883813	0,01501	1,266634254	0,00088	SERP1	stress-associated endoplasmic reticulum protein 1
2,406606052	0,00267	2,381713699	0,00002	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
1,780151467	0,0057	1,707635429	0,00298	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
0,320189965	0,02105	0,504176227	0,00036	SERPINB11	serpin peptidase inhibitor, clade B (ovalbumin), member 11 (gene/pseudogene)
0,520150133	0,00162	0,463294031	0,00011	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13
0,451563255	0,00091	0,692554734	0,0019	SERPINB5	serpin peptidase inhibitor, clade B (ovalbumin), member 5
0,539614118	0,04304	0,505926601	0,01073	SERPINB6	serpin peptidase inhibitor, clade B (ovalbumin), member 6
0,582770599	0,0291	0,824733549	0,04319	SERPINB7	serpin peptidase inhibitor, clade B (ovalbumin), member 7
0,566441943	0,00069	0,672683604	0,00008	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8
1,780151467	0,0003	1,387030969	0,00659	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9
1,956126947	0,00599	1,315854525	0,03441	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9
2,156960863	0,00392	2,059080167	0	SERPINI1	serpin peptidase inhibitor, clade I (neuroserpin), member 1
0,585605091	0,03433	0,816768991	0,00085	SERTAD2	SERTA domain containing 2
0,512989073	0,00832	0,760489377	0,00861	SERTAD4	SERTA domain containing 4
0,598324482	0,01686	0,669891801	0,00017	SERTAD4	SERTA domain containing 4
0,738157203	0,04855	0,815072332	0,00074	SET	SET nuclear oncogene
0,607518396	0,01818	0,845572287	0,01948	SETD2	SET domain containing 2
0,671751713	0,00787	0,772175133	0,02066	SETD2	SET domain containing 2
0,63860688	0,00451	0,740206649	0,00009	SETD6	SET domain containing 6
0,699308041	0,01196	0,667574152	0,00016	SETD6	SET domain containing 6
0,658383461	0,01918	0,837987135	0,00069	SETD7	SET domain containing (lysine methyltransferase) 7
0,551334582	0,01842	0,749499801	0,02046	SETD8	SET domain containing (lysine methyltransferase) 8
0,695440986	0,03155	0,816203046	0,00303	SETD8	SET domain containing (lysine methyltransferase) 8
0,657927263	0,00327	0,789493887	0,00035	SETMAR	SET domain and mariner transposase fusion gene
0,77271055	0,02561	0,793333843	0,0047	SF3B14	splicing factor 3B, 14 kDa subunit

2,339175328	0,00005	1,756860936	0,00047	SFMBT2	Scm-like with four mbt domains 2
0,805524291	0,02539	0,887611337	0,00672	SFN	stratifin
0,76154437	0,00653	0,84323111	0,00063	SFN	stratifin
3,439025945	0,00009	2,545589871	0,00444	SFRP4	secreted frizzled-related protein 4
2,772139771	0,00147	2,158456473	0,00205	SFRP4	secreted frizzled-related protein 4
0,632439771	0,00013	0,680657058	0	SGK223	homolog of rat pragma of Rnd2
0,652477474	0,02668	0,746389192	0,00886	SGMS2	sphingomyelin synthase 2
0,800514811	0,02679	0,784584098	0,00299	SGPP2	sphingosine-1-phosphate phosphatase 2
1,639209215	0,00179	1,409320755	0,00076	SH2B3	SH2B adaptor protein 3
1,227735684	0,03239	1,175276328	0,02119	SH2D1A	SH2 domain containing 1A
1,517819253	0,00101	1,325007017	0,00044	SH2D2A	SH2 domain containing 2A
1,420107359	0,01833	1,53049677	0,0002	SH2D3C	SH2 domain containing 3C
1,172022284	0,0361	1,175276328	0,00385	SH2D3C	SH2 domain containing 3C
1,720705261	0,00009	1,414213562	0,00215	SH2D3C	SH2 domain containing 3C
0,685866644	0,02734	0,827596816	0,00164	SH2D4A	SH2 domain containing 4A
0,635956503	0,02218	0,796088099	0,03869	SH3BGRL2	SH3 domain binding glutamic acid-rich protein like 2
0,654742712	0,03276	0,628942486	0,00013	SH3BP2	SH3-domain binding protein 2
0,59295725	0,02487	0,710546022	0,00212	SH3D19	SH3 domain containing 19
0,293819082	0,00051	0,436786448	0,00038	SH3GL3	SH3-domain GRB2-like 3
0,661127303	0,01702	0,810003474	0,00916	SH3GLB1	SH3-domain GRB2-like endophilin B1
1,705269784	0,00022	1,620006947	0,00044	SH3KBP1	SH3-domain kinase binding protein 1
1,536875181	0,00975	1,427014506	0,00049	SH3KBP1	SH3-domain kinase binding protein 1
1,514666316	0,00668	1,312211255	0,00562	SH3KBP1	SH3-domain kinase binding protein 1
0,602903914	0,00222	0,805524291	0,00539	SH3PXD2A	SH3 and PX domains 2A
1,231998073	0,01968	1,32408891	0,00048	SH3PXD2B	SH3 and PX domains 2B
0,740206649	0,01718	0,857376037	0,01061	SH3RF2	SH3 domain containing ring finger 2
0,523405141	0,00025	0,736113431	0,0103	SH3RF2	SH3 domain containing ring finger 2
0,483638165	0,00982	0,720964436	0,00008	SH3RF2	SH3 domain containing ring finger 2
1,21167266	0,04731	1,092777739	0,03047	SHANK2	SH3 and multiple ankyrin repeat domains 2
1,631274987	0,00025	1,488645255	0,00191	SHANK3	SH3 and multiple ankyrin repeat domains 3
0,71449707	0,03254	0,738669032	0,00016	SHB	Src homology 2 domain containing adaptor protein B
1,368883813	0,00755	1,178539408	0,04356	SHC2	SHC (Src homology 2 domain containing) transforming protein 2
0,59295725	0,00662	0,880869374	0,00981	SHFM1	split hand/foot malformation (ectrodactyly) type 1
1,332374825	0,02778	1,193335743	0,00809	SHMT2	serine hydroxymethyltransferase 2 (mitochondrial)
0,736623843	0,01454	0,857376037	0,00469	SHROOM2	shroom family member 2
1,244011653	0,00943	1,285206337	0,0009	SHROOM4	shroom family member 4
0,723467443	0,02485	0,707106781	0,00079	SIAH1	seven in absentia homolog 1 (Drosophila)
0,686342216	0,00457	0,648419777	0,00009	SIAH1	seven in absentia homolog 1 (Drosophila)
2,0907202	0,00002	1,455989549	0,00233	SIDT1	SID1 transmembrane family, member 1
1,371733289	0,02988	1,400556321	0,00004	SIGLEC1	sialic acid binding Ig-like lectin 1, sialoadhesin
1,285206337	0,04096	1,178539408	0,00789	SIGLEC10	sialic acid binding Ig-like lectin 10
0,541862983	0,00883	0,645281245	0,00001	SIPA1L2	signal-induced proliferation-associated 1 like 2
0,464580337	0,00242	0,615145672	0	SIPA1L2	signal-induced proliferation-associated 1 like 2
1,443929196	0,01069	1,22010051	0,02372	SIRPG	signal-regulatory protein gamma
1,547564994	0,00305	1,473247686	0,00034	SIT1	signaling threshold regulating transmembrane adaptor 1
1,725482689	0,02443	1,243149669	0,0416	SIX1	SIX homeobox 1
1,295940965	0,03617	1,385109468	0,00232	SIX5	SIX homeobox 5
1,444930398	0,00316	1,317679952	0,00161	SKAP1	src kinase associated phosphoprotein 1
1,802500925	0,03019	1,374588696	0,00857	SKAP2	src kinase associated phosphoprotein 2
1,204137381	0,03676	1,197478705	0,01214	SKAP2	src kinase associated phosphoprotein 2
0,648419777	0,00798	0,736113431	0,00108	SKIV2L2	superkiller viralicidic activity 2-like 2 (S. cerevisiae)
0,681129017	0,0165	0,69640574	0,00001	SKIV2L2	superkiller viralicidic activity 2-like 2 (S. cerevisiae)
0,743291492	0,02524	0,811689581	0,001	SKP1	S-phase kinase-associated protein 1
0,620283649	0,00212	0,794985251	0,00748	SKP1	S-phase kinase-associated protein 1
1,975201723	0,00122	1,745935182	0,00001	SLA	Src-like-adaptor
1,413233644	0,04521	1,129747215	0,04412	SLAIN1	SLAIN motif family, member 1
0,643048742	0,04015	0,774855931	0,03557	SLAIN2	SLAIN motif family, member 2
1,375541818	0,00773	1,185092771	0,00089	SLAMF1	signaling lymphocytic activation molecule family member 1
1,669018562	0,0006	1,578987773	0,00006	SLAMF1	signaling lymphocytic activation molecule family member 1
1,332374825	0,01703	1,408344227	0	SLAMF1	signaling lymphocytic activation molecule family member 1
1,646040691	0,00033	1,443929196	0,00001	SLAMF6	SLAM family member 6
2,749177391	0,01232	2,579336501	0,0001	SLAMF7	SLAM family member 7
3,088700532	0,00003	3,269341314	0,00001	SLAMF7	SLAM family member 7
2,267338826	0,00175	2,139094176	0,00008	SLAMF7	SLAM family member 7
1,401527449	0,01119	1,141554707	0,02411	SLAMF8	SLAM family member 8
1,903955817	0,00236	1,372684431	0,00473	SLAMF8	SLAM family member 8
0,750019495	0,01452	0,718968266	0,00065	SLBP	stem-loop binding protein
0,712518807	0,01228	0,813379198	0,00428	SLC10A3	solute carrier family 10 (sodium/bile acid cotransporter family), member 3
1,315854525	0,0371	1,295940965	0,0003	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
1,254402205	0,03294	1,20163605	0,00726	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
1,284315809	0,03433	1,25092908	0,00338	SLC12A7	solute carrier family 12 (potassium/chloride transporters), member 7
2,470837274	0,01465	2,071965527	0,00031	SLC12A8	solute carrier family 12 (potassium/chloride transporters), member 8
0,557096825	0,00332	0,744838732	0,00353	SLC15A1	solute carrier family 15 (oligopeptide transporter), member 1
2,653690281	0,00014	1,767855062	0,00051	SLC15A2	solute carrier family 15 (H+/peptide transporter), member 2
1,307671349	0,01447	1,167158102	0,04983	SLC15A2	solute carrier family 15 (H+/peptide transporter), member 2
2,381713699	0,00135	1,31494276	0,0355	SLC15A2	solute carrier family 15 (H+/peptide transporter), member 2
1,584469622	0,00912	1,437936533	0,00013	SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)
2,588291309	0,00166	1,803750757	0,00008	SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)
1,446934886	0,00097	1,267512522	0,00085	SLC16A3	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)
1,705269784	0,0161	1,20664392	0,01254	SLC16A4	solute carrier family 16, member 4 (monocarboxylic acid transporter 5)
0,698339266	0,00095	0,798298386	0,00841	SLC16A5	solute carrier family 16, member 5 (monocarboxylic acid transporter 6)
0,599569957	0,02746	0,52850902	0,00002	SLC16A6	solute carrier family 16, member 6 (monocarboxylic acid transporter 7)
0,559030925	0,04022	0,552482242	0,00002	SLC16A6	solute carrier family 16, member 6 (monocarboxylic acid transporter 7)
0,396392068	0,00081	0,44319085	0	SLC16A9	solute carrier family 16, member 9 (monocarboxylic acid transporter 9)
1,285206337	0,01052	1,199971382	0,00406	SLC17A7	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7
1,476314406	0,00254	1,190031696	0,01077	SLC17A7	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7
1,444930398	0,02828	1,697015803	0,00002	SLC17A9	solute carrier family 17, member 9
1,396678532	0,01353	1,442928687	0,00362	SLC17A9	solute carrier family 17, member 9
1,301341855	0,03569	1,354724977	0,00355	SLC17A9	solute carrier family 17, member 9
0,450625231	0,01692	0,442270218	0	SLC19A2	solute carrier family 19 (thiamine transporter), member 2
1,356604327	0,0213	1,305859787	0,01982	SLC1A4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4
0,539240216	0,00504	0,689202576	0	SLC22A23	solute carrier family 22, member 23
1,232852325	0,01188	1,163120042	0,02206	SLC25A18	solute carrier family 25 (mitochondrial carrier), member 18
1,220946513	0,02515	1,16634937	0,0104	SLC25A19	solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19
1,282536603	0,02037	1,391846392	0,00006	SLC25A20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
1,246601194	0,03831	1,136816973	0,01938	SLC25A24	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24
1,347233577	0,0067	1,372684431	0,00001	SLC25A35	solute carrier family 25, member 35
1,176906737	0,04332	1,138394029	0,02186	SLC25A35	solute carrier family 25, member 35

1,383190629	0,00743	1,165541198	0,02188	SLC25A38	solute carrier family 25, member 38
0,575544746	0,02414	0,552482242	0,00031	SLC25A43	solute carrier family 25, member 43
1,488645255	0,00776	1,53581027	0,00018	SLC25A45	solute carrier family 25, member 45
0,633317127	0,03849	0,827596816	0,01293	SLC25A5	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5
0,461691155	0,00021	0,42720487	0,00007	SLC27A6	solute carrier family 27 (fatty acid transporter), member 6
1,907919101	0,00879	1,495885758	0,00294	SLC2A10	solute carrier family 2 (facilitated glucose transporter), member 10
1,362258035	0,00903	1,266634254	0,00164	SLC2A11	solute carrier family 2 (facilitated glucose transporter), member 11
0,824162085	0,0195	0,745355193	0,00055	SLC2A13	solute carrier family 2 (facilitated glucose transporter), member 13
1,76418273	0,00028	1,555092072	0,00078	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3
1,426025717	0,01246	1,365093718	0,02593	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3
2,606294299	0,0031	1,943961976	0,00016	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3
0,717474767	0,04992	0,744838732	0,00001	SLC30A9	solute carrier family 30 (zinc transporter), member 9
0,732550437	0,0254	0,828170661	0,02194	SLC31A1	solute carrier family 31 (copper transporters), member 1
0,720964436	0,00415	0,815072332	0,04419	SLC31A2	solute carrier family 31 (copper transporters), member 2
1,277213759	0,0254	1,252664439	0,0008	SLC35B2	solute carrier family 35, member B2
1,268391399	0,0428	1,105730653	0,03173	SLC35D2	solute carrier family 35, member D2
0,697371833	0,00845	0,814507563	0,00244	SLC35F2	solute carrier family 35, member F2
0,636397468	0,04494	0,652025368	0,00041	SLC35F5	solute carrier family 35, member F5
0,791137301	0,00531	0,813379198	0,0239	SLC37A2	solute carrier family 37 (glycerol-3-phosphate transporter), member 2
1,466116757	0,00209	1,262252032	0,00323	SLC38A10	solute carrier family 38, member 10
1,475291457	0,04758	1,227735684	0,01307	SLC38A6	solute carrier family 38, member 6
1,568080908	0,00157	1,356604327	0,00113	SLC39A14	solute carrier family 39 (zinc transporter), member 14
0,50278029	0,00008	0,791685866	0,0422	SLC39A2	solute carrier family 39 (zinc transporter), member 2
0,542238704	0,01294	0,739693755	0,00004	SLC39A6	solute carrier family 39 (zinc transporter), member 6
0,457866843	0,03503	0,654289036	0,00604	SLC39A6	solute carrier family 39 (zinc transporter), member 6
2,602683711	0,00001	1,680627504	0,00035	SLC39A8	solute carrier family 39 (zinc transporter), member 8
2,025109615	0,00072	1,423063461	0,03121	SLC39A8	solute carrier family 39 (zinc transporter), member 8
1,264879542	0,02391	1,180174343	0,03134	SLC39A9	solute carrier family 39 (zinc transporter), member 9
1,782620992	0,00312	1,56265576	0,00015	SLC40A1	solute carrier family 40 (iron-regulated transporter), member 1
1,640345822	0,00059	1,508380077	0,00209	SLC41A2	solute carrier family 41, member 2
1,554014538	0,00021	1,298638603	0,00064	SLC41A2	solute carrier family 41, member 2
1,275444392	0,02791	1,224336392	0,00288	SLC43A1	solute carrier family 43, member 1
0,691595315	0,02718	0,824162085	0,00488	SLC44A1	solute carrier family 44, member 1
0,692554734	0,04757	0,87175824	0,03606	SLC44A2	solute carrier family 44, member 2
0,604577838	0,00322	0,76684133	0,00454	SLC44A5	solute carrier family 44, member 5
1,377450046	0,00157	1,169587664	0,03691	SLC45A3	solute carrier family 45, member 3
1,617762697	0,00506	1,298638603	0,00047	SLC45A4	solute carrier family 45, member 4
1,198309021	0,04718	1,174461971	0,02596	SLC46A1	solute carrier family 46 (folate transporter), member 1
0,683493726	0,0479	0,759962428	0,00043	SLC4A11	solute carrier family 4, sodium borate transporter, member 11
1,427014506	0,03965	1,306765254	0,03586	SLC5A1	solute carrier family 5 (sodium/glucose cotransporter), member 1
0,775930854	0,03653	0,845572287	0,03411	SLC5A10	solute carrier family 5 (sodium/glucose cotransporter), member 10
1,295940965	0,01918	1,184271612	0,00049	SLC5A2	solute carrier family 5 (sodium/glucose cotransporter), member 2
1,249196126	0,03628	1,132098902	0,01542	SLC6A12	solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12
1,547564994	0,00636	1,408344227	0,00019	SLC6A13	solute carrier family 6 (neurotransmitter transporter, GABA), member 13
0,486327474	0,02441	0,608361179	0,01611	SLC6A14	solute carrier family 6 (amino acid transporter), member 14
1,669018562	0,03979	1,337927555	0,00113	SLC6A16	solute carrier family 6, member 16
0,801625329	0,04689	0,780786493	0,00079	SLC6A4	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
1,242288282	0,04747	1,231998073	0,02154	SLC6A6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6
0,669427628	0,03635	0,745355193	0,00019	SLC7A1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1
0,677362489	0,00522	0,770037174	0,00019	SLC7A1	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1
2,032140286	0,00001	1,583371732	0,00005	SLC7A7	solute carrier family 7 (amino acid transporter light chain, y+L system), member 7
0,649769531	0,02138	0,807760778	0,01826	SLC7A8	solute carrier family 7 (amino acid transporter light chain, L system), member 8
1,240567298	0,01373	1,181811547	0,00148	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
1,171210181	0,04181	1,121943481	0,02927	SLC8A3	solute carrier family 8 (sodium/calcium exchanger), member 3
1,257884972	0,04483	1,234562607	0,00286	SLC8A3	solute carrier family 8 (sodium/calcium exchanger), member 3
1,585568273	0,00142	1,305859787	0,00067	SLCO2A1	solute carrier organic anion transporter family, member 2A1
1,312211255	0,04897	1,307671349	0,01743	SLCO2B1	solute carrier organic anion transporter family, member 2B1
1,710004356	0,00133	1,583371732	0,00052	SLFN11	schlafen family member 11
0,654289036	0,00719	0,819604608	0,00743	SLIRP	SRA stem-loop interacting RNA binding protein
0,755759964	0,01488	0,659296807	0,00005	SLIT2	slit homolog 2 (Drosophila)
0,717474767	0,01859	0,555554364	0,00014	SLIT2	slit homolog 2 (Drosophila)
0,651122095	0,02001	0,681129017	0,00037	SLITRK6	SLIT and NTRK-like family, member 6
0,552099424	0,02074	0,720464874	0,00023	SLK	STE20-like kinase
0,538866573	0,02388	0,599985691	0,00005	SLK	STE20-like kinase
0,640823962	0,04734	0,724471077	0,00049	SLMAP	sarcolemma associated protein
0,704172113	0,03966	0,718470088	0,00658	SLMO2	slowmo homolog 2 (Drosophila)
0,654742712	0,02894	0,62981499	0,0035	SLMO2	slowmo homolog 2 (Drosophila)
0,407818747	0,00235	0,622437118	0,01334	SLURP1	secreted LY6/PLAUR domain containing 1
0,639049682	0,01527	0,790041312	0,00129	SMAD2	SMAD family member 2
0,703684188	0,02024	0,820172911	0,02574	SMAGP	small cell adhesion glycoprotein
1,570256237	0,00407	1,599920257	0,0001	SMAP2	small ArfGAP2
0,514770042	0,00608	0,749499801	0,01358	SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1
0,599569957	0,00157	0,741233505	0,00029	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
0,637722196	0,02617	0,829894586	0,04008	SMARCAD1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1
0,651573575	0,03987	0,801625329	0,00556	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1
0,655651007	0,00015	0,755236293	0,00004	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
0,42513708	0,00733	0,480630464	0,00001	SMC3	structural maintenance of chromosomes 3
0,470413054	0,0241	0,531079593	0,00005	SMG1	smg-1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans)
1,520978753	0,03684	1,441928871	0,00437	SMOC2	SPARC related modular calcium binding 2
0,713012859	0,01722	0,777007269	0,00349	SMPD2	sphingomyelin phosphodiesterase 2, neutral membrane (neutral sphingomyelinase)
0,558256481	0,01401	0,666649339	0,00562	SMPDL3A	sphingomyelin phosphodiesterase, acid-like 3A
1,639209215	0,00089	1,592176198	0,00009	SMPDL3B	sphingomyelin phosphodiesterase, acid-like 3B
1,873842894	0,00009	1,601029621	0,00012	SMPDL3B	sphingomyelin phosphodiesterase, acid-like 3B
0,740206649	0,0202	0,79940583	0,03103	SMU1	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)
0,624165274	0,00584	0,798851916	0,01945	SMURF1	SMAD specific E3 ubiquitin protein ligase 1
1,207480591	0,04005	1,209994089	0,0012	SNAI3	snail homolog 3 (Drosophila)
1,654046737	0,0009	1,325007017	0,00073	SNAP25	synaptosomal-associated protein, 25kDa
1,43296165	0,009	1,248330549	0,00061	SNAP25	synaptosomal-associated protein, 25kDa
1,534746096	0,00476	1,269270886	0,00081	SNAP25	synaptosomal-associated protein, 25kDa
0,651573575	0,04651	0,787307977	0,00919	SNAP29	synaptosomal-associated protein, 29kDa
0,727994774	0,02782	0,831045862	0,03586	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)
0,731028724	0,02121	0,735603373	0,00281	SNHG3	small nucleolar RNA host gene 3 (non-protein coding)
0,774855931	0,00651	0,825877665	0,00142	SNHG5	small nucleolar RNA host gene 5 (non-protein coding)
0,646624466	0,00404	0,820741609	0,00209	SNRPA1	small nuclear ribonucleoprotein polypeptide A'
0,590496331	0,0384	0,775393206	0,00001	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa
0,519789718	0,00048	0,720964436	0,00004	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa
0,69399636	0,00359	0,834509281	0,00029	SNRPE	small nuclear ribonucleoprotein polypeptide E
0,601234624	0,00103	0,739181216	0,00085	SNRPF	small nuclear ribonucleoprotein polypeptide F

0,654289036	0,03748	0,790041312	0,03674	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)
0,669427628	0,01785	0,815637493	0,01676	SNX1	sorting nexin 1
0,650670928	0,00159	0,821880187	0,00754	SNX12	sorting nexin 12
1,265756594	0,02533	1,155085785	0,01716	SNX20	sorting nexin 20
1,462057448	0,02251	1,500038989	0,00345	SNX20	sorting nexin 20
0,524494664	0,02882	0,641712949	0,00074	SNX21	sorting nexin family member 21
0,762600827	0,01988	0,85797053	0,01696	SNX21	sorting nexin family member 21
0,71449707	0,00344	0,823591017	0,02596	SNX21	sorting nexin family member 21
0,642603169	0,0419	0,665725807	0,00002	SNX24	sorting nexin 24
1,301341855	0,03113	1,183451022	0,00944	SNX32	sorting nexin 32
1,632406092	0,01373	1,195819797	0,03762	SOAT1	sterol O-acyltransferase 1
1,546492675	0,01844	1,204972315	0,01826	SOCS1	suppressor of cytokine signaling 1
1,280759861	0,00625	1,119612889	0,04101	SOCS1	suppressor of cytokine signaling 1
2,67585511	0,00005	1,611048582	0,02264	SOCS3	suppressor of cytokine signaling 3
0,587638164	0,024	0,546767729	0,00017	SOCS6	suppressor of cytokine signaling 6
0,641712949	0,03927	0,686818117	0,02352	SOCS6	suppressor of cytokine signaling 6
0,569986636	0,0427	0,564873607	0,00008	SOCS6	suppressor of cytokine signaling 6
0,577943353	0,00236	0,813943185	0,00123	SOD1	superoxide dismutase 1, soluble
1,424050196	0,01868	1,403471726	0,01391	SOD2	superoxide dismutase 2, mitochondrial
1,818816504	0,00182	1,42899414	0,00119	SOD2	superoxide dismutase 2, mitochondrial
0,666649339	0,00424	0,735093668	0,01087	SORD	sorbitol dehydrogenase
0,611744021	0,00422	0,719965659	0,00167	SORD	sorbitol dehydrogenase
0,627635996	0,01042	0,787853886	0,00559	SORT1	sortilin 1
1,336074078	0,03577	1,349102534	0,00199	SOX13	SRY (sex determining region Y)-box 13
1,601029621	0,00139	1,351910833	0,00063	SOX17	SRY (sex determining region Y)-box 17
1,572434584	0,03734	1,427014506	0,00084	SOX18	SRY (sex determining region Y)-box 18
0,497579861	0,03268	0,511214265	0,00007	SOX6	SRY (sex determining region Y)-box 6
0,462973011	0,00011	0,639049682	0,00028	SOX6	SRY (sex determining region Y)-box 6
1,38991822	0,01785	1,141554707	0,03457	SP110	SP110 nuclear body protein
1,980685744	0,00109	1,813780658	0,00004	SP140	SP140 nuclear body protein
0,632439771	0,00539	0,650670928	0,00012	SPAG16	sperm associated antigen 16
0,346277367	0,00015	0,415522931	0	SPAG17	sperm associated antigen 17
4,047412804	0,00001	3,986161051	0	SPAG4	sperm associated antigen 4
0,620713746	0,00246	0,671286251	0,00042	SPAG9	sperm associated antigen 9
1,714752073	0,04759	1,423063461	0,0006	SPATS2	spermatogenesis associated, serine-rich 2
1,333298677	0,03688	1,337000495	0,00168	SPATS2	spermatogenesis associated, serine-rich 2
1,501079098	0,00018	1,215879283	0,01082	SPCS1	signal peptidase complex subunit 1 homolog (S. cerevisiae)
1,859609885	0,00339	1,422077411	0,00413	SPCS3	signal peptidase complex subunit 3 homolog (S. cerevisiae)
1,472226862	0,00093	1,373636233	0,00066	SPCS3	signal peptidase complex subunit 3 homolog (S. cerevisiae)
1,915870436	0,00084	1,558329159	0,00008	SPCS3	signal peptidase complex subunit 3 homolog (S. cerevisiae)
1,625631204	0,00094	1,180992661	0,04105	SPIB	Spi-B transcription factor (Spi-1/PU.1 related)
1,295042999	0,01609	1,147107024	0,00388	SPIN3	spindlin family, member 3
0,559030925	0,01528	0,793333843	0,00363	SPINK5	serine peptidase inhibitor, Kazal type 5
1,366040257	0,02284	1,258757174	0,00551	SPN	sialophorin
0,798851916	0,04784	0,739181216	0,00499	SPOPL	speckle-type POZ protein-like
0,703684188	0,00013	0,751580739	0,00128	SPPL3	signal peptide peptidase-like 3
0,703684188	0,00288	0,763129604	0,00168	SPPL3	signal peptide peptidase-like 3
0,674083866	0,00318	0,71946679	0,00006	SPPL3	signal peptide peptidase-like 3
0,771640088	0,01424	0,863938187	0,00783	SPPL3	signal peptide peptidase-like 3
0,797192477	0,01187	0,918276162	0,04093	SPRR1B	small proline-rich protein 1B
1,572434584	0,00997	1,286989247	0,00426	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)
1,297738767	0,02941	1,423063461	0,00008	SPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)
0,644387315	0,0122	0,748461493	0,00052	SPRYD7	SPRY domain containing 7
0,610473256	0,0086	0,817335328	0,04301	SPTLC2	serine palmitoyltransferase, long chain base subunit 2
0,421031477	0,00002	0,633317127	0,00048	SPTLC3	serine palmitoyltransferase, long chain base subunit 3
0,602068691	0,02261	0,677832163	0,00223	SQLE	squalene epoxidase
0,472701058	0,01237	0,628071191	0,01679	SQLE	squalene epoxidase
0,598739352	0,01639	0,712025098	0,00092	SQLE	squalene epoxidase
1,224336392	0,02738	1,196648963	0,02272	SQSTM1	sequestosome 1
0,682073917	0,02229	0,69399636	0,00003	SREK1IP1	SREK1-interacting protein 1
0,476318999	0,01974	0,539240216	0	SREK1IP1	SREK1-interacting protein 1
0,593779833	0,0395	0,616426163	0,00019	SREK1IP1	SREK1-interacting protein 1
0,552099424	0,00421	0,627635996	0,00149	SREK1IP1	SREK1-interacting protein 1
1,346300069	0,02994	1,238848698	0,00182	SRF	serum response factor (c-fos serum response element-binding transcription factor)
1,798756624	0,01618	1,505246747	0,00756	SRGN	serglycin
2,398279828	0,00011	1,973833092	0,00002	SRGN	serglycin
0,780786493	0,00733	0,814507563	0,00151	SRI	sorcin
0,746906729	0,0276	0,807201075	0,00401	SRR	serine racemase
0,690637224	0,01657	0,779704843	0,00026	SRSF1	serine/arginine-rich splicing factor 1
0,71548826	0,04135	0,849096246	0,03008	SRSF2	serine/arginine-rich splicing factor 2
0,711038705	0,03484	0,765778999	0,00449	SRSF2	serine/arginine-rich splicing factor 2
0,809442217	0,04224	0,868140228	0,00392	SRSF3	serine/arginine-rich splicing factor 3
0,737645729	0,04273	0,779704843	0,04051	SRSF3	serine/arginine-rich splicing factor 3
0,734075318	0,02501	0,884540435	0,04604	SRSF5	serine/arginine-rich splicing factor 5
0,698339266	0,02228	0,827596816	0,00188	SRSF7	serine/arginine-rich splicing factor 7
0,78132788	0,00985	0,848507902	0,04831	SRSF8	serine/arginine-rich splicing factor 8
0,815072332	0,01113	0,859756486	0,00934	SRSF8	serine/arginine-rich splicing factor 8
0,61985385	0,00088	0,778624691	0,00004	SRSF8	serine/arginine-rich splicing factor 8
0,647521499	0,00445	0,744322628	0,02245	SS18	synovial sarcoma translocation, chromosome 18
0,574349177	0,02949	0,72597914	0,00001	SSB	Sjogren syndrome antigen B (autoantigen La)
0,595841287	0,01745	0,740206649	0,00037	SSBP1	single-stranded DNA binding protein 1
0,69640574	0,02837	0,712025098	0,00185	SSBP2	single-stranded DNA binding protein 2
0,656560563	0,01501	0,743806881	0,01541	SSBP2	single-stranded DNA binding protein 2
1,770307529	0,00065	1,423063461	0,04199	SSR3	signal sequence receptor, gamma (translocon-associated protein gamma)
1,517819253	0,00983	1,515716567	0,00001	SSR3	signal sequence receptor, gamma (translocon-associated protein gamma)
0,594603558	0,02057	0,787853886	0,00038	SSU72	SSU72 RNA polymerase II CTD phosphatase homolog (S. cerevisiae)
0,685391402	0,00467	0,78024548	0,01086	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein
0,52595089	0,00005	0,66342257	0,00013	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein
0,594603558	0,03099	0,622437118	0,00005	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein
0,700763725	0,01841	0,680657058	0,00015	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein
1,635804117	0,03393	1,754427097	0,00002	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
1,440929749	0,02464	1,285206337	0,00134	ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2
1,279872414	0,04903	1,333298677	0,00142	ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2
1,179356592	0,04385	1,240567298	0,00023	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
1,344434994	0,02342	1,202469249	0,00134	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
1,491744027	0,0005	1,223488041	0,00741	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5
2,997999204	0,00004	2,579336501	0,00003	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltranferase 1
2,834314793	0,00259	2,240778428	0,00547	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltranferase 1

1,511519928	0,00994	1,140763716	0,03288	ST6GALNAC3	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3
0,574747424	0,00285	0,744322628	0,00108	ST7L	suppression of tumorigenicity 7 like
1,255271991	0,01448	1,122721422	0,03384	ST8SIA3	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3
1,492778383	0,0027	1,22858698	0,02079	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4
1,748357241	0,00037	1,376495602	0,00383	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4
2,329467173	0,00034	1,747145792	0,00109	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4
2,222217457	0,00005	1,568080908	0,00417	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4
1,461044379	0,04368	1,846764621	0	STAB1	stabilin 1
1,69466487	0,01381	1,845484985	0	STAB1	stabilin 1
1,421092043	0,01632	1,151089491	0,02748	STAG1	stromal antigen 1
0,755236293	0,02558	0,81056512	0,0009	STAMBP	STAM binding protein
1,673652485	0,00004	1,273677475	0,00088	STAMBPL1	STAM binding protein-like 1
1,816296835	0,00001	1,362258035	0,0023	STAP1	signal transducing adaptor family member 1
3,157975547	0	1,798756624	0,00109	STAP1	signal transducing adaptor family member 1
0,551334582	0,00075	0,775393206	0,00256	STAP2	signal transducing adaptor family member 2
1,444930398	0,01259	1,209155676	0,00678	STARD8	StAR-related lipid transfer (START) domain containing 8
1,303147149	0,03125	1,25962998	0,00146	STAT2	signal transducer and activator of transcription 2, 113kDa
1,509425969	0,02199	1,379360922	0,00109	STAT4	signal transducer and activator of transcription 4
1,4063932	0,00601	1,194991205	0,01671	STAT5A	signal transducer and activator of transcription 5A
1,358486285	0,00555	1,227735684	0,00581	STC2	stanniocalcin 2
1,356604327	0,00146	1,421092043	0,00008	STK10	serine/threonine kinase 10
0,685391402	0,01863	0,770037174	0,00114	STK11	serine/threonine kinase 11
2,139094176	0,00007	1,510472586	0,00463	STK17B	serine/threonine kinase 17b
2,037782393	0,00011	1,542210825	0,00052	STK17B	serine/threonine kinase 17b
1,702907415	0,00568	1,280759861	0,02004	STK17B	serine/threonine kinase 17b
0,582770599	0,01025	0,877821798	0,01638	STK38	serine/threonine kinase 38
0,491751037	0,00851	0,547146851	0	STK39	serine threonine kinase 39
1,204972315	0,02828	1,286989247	0,00037	STMN4	stathmin-like 4
1,504203751	0,00771	1,199971382	0,02473	STOM	stomatin
1,411275843	0,02192	1,257013375	0,00119	STOM	stomatin
1,467133344	0,00269	1,598811661	0,00002	STRA6	stimulated by retinoic acid gene 6 homolog (mouse)
0,779704843	0,02251	0,816768991	0,00622	STRAP	serine/threonine kinase receptor associated protein
0,604997045	0,02102	0,750539549	0,00399	STRN	striatin, calmodulin binding protein
1,269270886	0,02701	1,193335743	0,00702	STS	steroid sulfatase (microsomal), isozyme S
0,724471077	0,04427	0,699792933	0,00137	STX17	syntaxin 17
0,605416542	0,00401	0,579949827	0,00002	STX19	syntaxin 19
1,32317144	0,01032	1,223488041	0,00338	STX2	syntaxin 2
0,655651007	0,00745	0,728499557	0,04065	STX3	syntaxin 3
0,610050255	0,0189	0,532185091	0,00016	STXBP5	syntaxin binding protein 5 (tomosyn)
0,676424116	0,03491	0,636397468	0,0056	STYX	serine/threonine/tyrosine interacting protein
0,596667872	0,04029	0,651122095	0,00161	STYX	serine/threonine/tyrosine interacting protein
0,69399636	0,01127	0,865136691	0,00979	SUCLG1	succinate-CoA ligase, alpha subunit
0,650220073	0,00566	0,757858283	0,00001	SUGT1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)
0,646176415	0,00705	0,774855931	0,00003	SUGT1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)
0,728499557	0,02923	0,854409741	0,00456	SULF2	sulfatase 2
1,294145654	0,0481	1,392811481	0,00243	SULT1E1	sulfotransferase family 1E, estrogen-preferring, member 1
0,752623374	0,00905	0,847332435	0,00336	SUMF1	sulfatase modifying factor 1
0,656560563	0,00501	0,808320869	0,038	SUN1	Sad1 and UNC84 domain containing 1
0,706127202	0,01357	0,767373048	0,00046	SUN1	Sad1 and UNC84 domain containing 1
1,540074348	0,0032	1,396678532	0,00007	SUOX	sulfite oxidase
0,577542892	0,00387	0,773246337	0,00383	SUSD4	sushi domain containing 4
0,501388218	0,00381	0,592135806	0,00038	SUSD4	sushi domain containing 4
0,552865327	0,00188	0,652477474	0,00026	SUSD4	sushi domain containing 4
0,756283999	0,02814	0,750019495	0,00244	SUV420H1	suppressor of variegation 4-20 homolog 1 (Drosophila)
1,299539062	0,01739	1,362258035	0,00016	SYDE1	synapse defective 1, Rho GTPase, homolog 1 (C. elegans)
1,398616083	0,02476	1,30224419	0,00038	SYDE1	synapse defective 1, Rho GTPase, homolog 1 (C. elegans)
0,608783009	0,03091	0,646176415	0	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
0,724471077	0,02574	0,821880187	0,00025	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
1,469168633	0,0295	1,373636233	0,00696	SYNE1	spectrin repeat containing, nuclear envelope 1
0,654742712	0,0055	0,817902059	0,02113	SYNE2	spectrin repeat containing, nuclear envelope 2
1,341642225	0,00649	1,193335743	0,03756	SYNE2	spectrin repeat containing, nuclear envelope 2
1,597703833	0,00649	1,223488041	0,00118	SYNGR3	synaptogyrin 3
1,640345822	0,03434	1,224336392	0,03186	SYNPO2	synaptopodin 2
1,777685362	0,00142	1,568080908	0,00049	SYT11	synaptotagmin XI
1,223488041	0,0449	1,199139914	0,00561	SYTL3	synaptotagmin-like 3
1,872544495	0,0005	1,5888688	0,00015	SYVN1	synovial apoptosis inhibitor 1, synoviolin
1,25962998	0,02795	1,136816973	0,03144	TACC1	transforming, acidic coiled-coil containing protein 1
0,509798841	0,00794	0,574349177	0	TACC2	transforming, acidic coiled-coil containing protein 2
0,475659138	0,00023	0,600818025	0,00004	TACC2	transforming, acidic coiled-coil containing protein 2
1,385109468	0,00485	1,289668251	0,00546	TACR2	tachykinin receptor 2
0,714992493	0,0466	0,683493726	0,00048	TADA1	transcriptional adaptor 1
0,784584098	0,0427	0,739693755	0,00001	TAF1B	TATA box binding protein (TBP)-associated factor, RNA polymerase I, B, 63kDa
0,723467443	0,02827	0,753667455	0,00023	TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa
0,686818117	0,00211	0,714992493	0	TAF5L	TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa
0,74277646	0,02086	0,835087919	0,00317	TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa
0,756283999	0,04178	0,739693755	0,00022	TAF9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa
0,73153561	0,04194	0,847919965	0,00867	TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa
2,486299338	0,00007	1,691144575	0,00043	TAGAP	T-cell activation RhoGTPase activating protein
4,623546826	0	2,365262	0,00008	TAGAP	T-cell activation RhoGTPase activating protein
2,808889751	0,00002	2,051956291	0	TAGAP	T-cell activation RhoGTPase activating protein
4,078390732	0,0001	1,953417058	0,00007	TAGAP	T-cell activation RhoGTPase activating protein
1,361314116	0,01138	1,152686347	0,00629	TAL1	T-cell acute lymphocytic leukemia 1
1,55293775	0,01201	1,587767862	0	TAPBPL	TAP binding protein-like
1,650610817	0,04732	1,56049096	0	TAPBPL	TAP binding protein-like
0,70514898	0,04316	0,823591017	0,00218	TARDBP	TAR DNA binding protein
0,590496331	0,0153	0,76101669	0,01524	TARDBP	TAR DNA binding protein
0,691595315	0,02643	0,70027816	0,00001	TARS	threonyl-tRNA synthetase
0,628942486	0,01866	0,713507253	0,00002	TATDN1	TatD DNase domain containing 1
0,776468875	0,00717	0,844400887	0,00127	TAX1BP3	Tax1 (human T-cell leukemia virus type I) binding protein 3
1,640345822	0,00091	1,422077411	0,00024	TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1
1,282536603	0,0074	1,174461971	0,02598	TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1
1,911890635	0,0002	1,578987773	0,00013	TBC1D10C	TBC1 domain family, member 10C
2,205338326	0,00031	1,393777239	0,0011	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)
1,541142217	0,00535	1,513616793	0,00011	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)
0,717972255	0,01457	0,806082831	0,00156	TBCE	tubulin folding cofactor E
0,727994774	0,0343	0,758383773	0,00006	TBCE	tubulin folding cofactor E
1,286097483	0,0094	1,447938172	0,00417	TBCEL	tubulin folding cofactor E-like
0,655651007	0,02479	0,883927531	0,03283	TBCK	TBC1 domain containing kinase

0,552482242	0,03216	0,62546454	0,00004	TBL1X	transducin (beta)-like 1X-linked
0,740719899	0,01214	0,819604608	0,00399	TBL1X	transducin (beta)-like 1X-linked
1,365093718	0,00239	1,223488041	0,04772	TBX2	T-box 2
1,32592576	0,01622	1,403471726	0,00354	TBX2	T-box 2
1,372684431	0,00664	1,209994089	0,00061	TBXA2R	thromboxane A2 receptor
1,312211255	0,01543	1,180992661	0,0319	TBXA2R	thromboxane A2 receptor
1,22858698	0,04955	1,191682575	0,02012	TCEA1	transcription elongation factor A (SII), 1
0,599569957	0,0026	0,803293997	0,03151	TCEA3	transcription elongation factor A (SII), 3
0,673616788	0,03388	0,895025071	0,04776	TCEAL4	transcription elongation factor A (SII)-like 4
0,791137301	0,03661	0,841479482	0,01886	TCEB1	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
1,659789171	0,00641	1,286989247	0,01268	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
1,516767545	0,00714	1,312211255	0,0009	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
1,489677463	0,00854	1,165541198	0,0447	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
1,398616083	0,02269	1,260503392	0,00415	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
1,574615953	0,03391	1,322254605	0,01103	TCF4	transcription factor 4
1,577893682	0,02442	1,30224419	0,00152	TCF4	transcription factor 4
1,444930398	0,00484	1,41029796	0,00016	TCL1A	T-cell leukemia/lymphoma 1A
2,032140286	0,00467	1,354724977	0,01356	TCN1	transcobalamin I (vitamin B12 binding protein, R binder family)
1,376495602	0,03306	1,4054187	0,00001	TCN2	transcobalamin II
0,654289036	0,00493	0,739181216	0,03808	TCP11L2	t-complex 11 (mouse)-like 2
1,203303026	0,04084	1,244874235	0,00005	TCTN3	tectonic family member 3
3,773753004	0,0001	1,986184991	0,00002	TDO2	tryptophan 2,3-dioxygenase
1,230291345	0,01334	1,285206337	0,00014	TDRD10	tudor domain containing 10
0,720464874	0,00491	0,841479482	0,02232	TDRD3	tudor domain containing 3
0,574349177	0,01198	0,801625329	0,00066	TDRD3	tudor domain containing 3
0,708087719	0,02413	0,860949188	0,01209	TDRD3	tudor domain containing 3
0,664803554	0,03037	0,813943185	0,02889	TEAD3	TEA domain family member 3
1,689972769	0,00765	1,467133344	0,00062	TEK	TEK tyrosine kinase, endothelial
1,32317144	0,04574	1,382232207	0,00022	TEK	TEK tyrosine kinase, endothelial
0,655196702	0,02927	0,812252396	0,00422	TEN1	TEN1 telomerase capping complex subunit homolog (S. cerevisiae)
0,695923196	0,01529	0,716480825	0,00012	TET2	tet oncogene family member 2
0,547146851	0,01825	0,703684188	0,00027	TET2	tet oncogene family member 2
0,533662669	0,00228	0,604577838	0,00005	TET3	tet oncogene family member 3
0,682546859	0,01535	0,819604608	0,0472	TEX101	testis expressed 101
0,758909626	0,0266	0,751580739	0	TEX2	testis expressed 2
0,597081594	0,01428	0,67689314	0,00008	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)
0,482968164	0,02803	0,763129604	0,04349	TFAP2A	transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)
0,584793832	0,00059	0,659753955	0,00005	TFAP2C	transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)
0,659296807	0,02314	0,805524291	0,03364	TFAP2C	transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)
0,784584098	0,04597	0,86934456	0,0161	TFB1M	transcription factor B1, mitochondrial
0,757858283	0,02685	0,668500248	0,00159	TFDP1	transcription factor Dp-1
1,307671349	0,00465	1,248330549	0,02318	TFEB	transcription factor EB
1,849326556	0,00036	1,455989549	0,0006	TFEC	transcription factor EC
1,413233644	0,00876	1,300440147	0,00575	TFEC	transcription factor EC
1,596596773	0,04809	1,655193632	0,00023	TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)
1,313121125	0,01	1,131314463	0,03131	TGFB2	transforming growth factor, beta 2
1,333298677	0,00841	1,094293701	0,04769	TGFB3	transforming growth factor, beta 3
1,509425969	0,03244	1,62788637	0,00002	TGFB3	transforming growth factor, beta 3
0,487002134	0,00399	0,646624466	0,00093	TGFBR3	transforming growth factor, beta receptor III
1,41029796	0,0439	1,413233644	0,02651	TGIF1	TGFB-induced factor homeobox 1
2,022304162	0,00068	1,972465409	0	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
1,242288282	0,01288	1,208317843	0,00049	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
0,423372656	0,00042	0,787307977	0,00498	TGM5	transglutaminase 5
0,455019412	0,00006	0,750539549	0,00549	TGM7	transglutaminase 7
0,573951207	0,02025	0,599569957	0	TGS1	trimethylguanosine synthase 1
0,757333158	0,03245	0,803293997	0,01024	THBD	thrombomodulin
1,294145654	0,01325	1,393777239	0,00004	THEG	Theg homolog (mouse)
1,226884977	0,0332	1,168777249	0,00488	THRSP	thyroid hormone responsive
1,286097483	0,03378	1,312211255	0,00529	THSD7A	thrombospondin, type I, domain containing 7A
0,807201075	0,04034	0,899378312	0,04301	THUMPD3	THUMP domain containing 3
0,659753955	0,0411	0,76630998	0,01664	THUMPD3	THUMP domain containing 3
0,482299092	0,00425	0,745872013	0,00015	TIAM1	T-cell lymphoma invasion and metastasis 1
1,217566019	0,03779	1,204137381	0,00235	TIGIT	T cell immunoreceptor with Ig and ITIM domains
1,367935304	0,03897	1,218410264	0,00418	TIMD4	T-cell immunoglobulin and mucin domain containing 4
0,67689314	0,00251	0,817335328	0,00147	TIMM13	translocase of inner mitochondrial membrane 13 homolog (yeast)
0,820172911	0,04627	0,804408371	0,00526	TIMM8A	translocase of inner mitochondrial membrane 8 homolog A (yeast)
0,785128119	0,00893	0,871154192	0,0127	TIMM8B	translocase of inner mitochondrial membrane 8 homolog B (yeast)
1,706452196	0,00097	1,431968741	0,00005	TIMP4	TIMP metallopeptidase inhibitor 4
1,62788637	0,00014	1,423063461	0,001	TINAGL1	tubulointerstitial nephritis antigen-like 1
0,709561678	0,04501	0,717972255	0,00021	TIPRL	TIP41, TOR signaling pathway regulator-like (S. cerevisiae)
1,192508872	0,04948	1,159095952	0,01943	TJAP1	tight junction associated protein 1 (peripheral)
0,673150035	0,01359	0,763658749	0,00075	TJP2	tight junction protein 2 (zona occludens 2)
0,724471077	0,03824	0,811127156	0,04661	TJP2	tight junction protein 2 (zona occludens 2)
1,462057448	0,00891	1,132098902	0,03431	TK2	thymidine kinase 2, mitochondrial
0,707106781	0,01137	0,780786493	0,00044	TLCD2	TLC domain containing 2
0,773782497	0,02961	0,812815602	0,00266	TLCD2	TLC domain containing 2
1,364147835	0,00184	1,146312186	0,0357	TLR10	toll-like receptor 10
1,892115293	0,00001	1,565908593	0,0009	TLR10	toll-like receptor 10
1,207480591	0,03507	1,365093718	0,00044	TLR4	toll-like receptor 4
1,336074078	0,00184	1,35754498	0,02023	TLR4	toll-like receptor 4
1,421092043	0,00246	1,204137381	0,04248	TLR4	toll-like receptor 4
1,400556321	0,0166	1,169587664	0,03239	TLR4	toll-like receptor 4
1,881652215	0,00149	1,494849249	0,00174	TLR8	toll-like receptor 8
1,425037614	0,01076	1,398616083	0,00027	TLR9	toll-like receptor 9
1,411275843	0,00563	1,43296165	0,00001	TM4SF18	transmembrane 4 L six family member 18
1,297738767	0,02017	1,172022284	0,03442	TM6SF1	transmembrane 6 superfamily member 1
0,697855382	0,01408	0,760489377	0,00068	TM7SF3	transmembrane 7 superfamily member 3
1,505246747	0,03228	1,423063461	0,00098	TMC4	transmembrane channel-like 4
0,692554734	0,00164	0,743291492	0,01843	TMC5	transmembrane channel-like 5
0,634635443	0,00967	0,679714121	0,00574	TMC5	transmembrane channel-like 5
1,230291345	0,03847	1,162314108	0,00754	TMCO5A	transmembrane and coiled-coil domains 5A
0,661127303	0,0334	0,811127156	0,00775	TMED3	transmembrane emp24 protein transport domain containing 3
1,273677475	0,03762	1,544350266	0,00004	TMEM108	transmembrane protein 108
0,575145947	0,03495	0,608783009	0	TMEM117	transmembrane protein 117
0,798298386	0,04859	0,866937564	0,02711	TMEM121	transmembrane protein 121
0,84323111	0,02941	0,811689581	0,00706	TMEM126A	transmembrane protein 126A
0,724471077	0,02463	0,751580739	0,00008	TMEM131	transmembrane protein 131
1,844206236	0	1,589970502	0,00002	TMEM140	transmembrane protein 140

0,53998828	0,00407	0,596667872	0,00004	TMEM14A	transmembrane protein 14A
0,660669203	0,01434	0,685391402	0,00028	TMEM154	transmembrane protein 154
1,778917987	0,00098	1,540074348	0,00015	TMEM156	transmembrane protein 156
1,990319444	0,00135	1,38991822	0,00142	TMEM156	transmembrane protein 156
0,59295725	0,03659	0,743806881	0,04939	TMEM159	transmembrane protein 159
1,244874235	0,04593	1,210833084	0,00131	TMEM161A	transmembrane protein 161A
1,293248932	0,00921	1,320422841	0,00011	TMEM163	transmembrane protein 163
1,487613762	0,00432	1,179356592	0,02014	TMEM163	transmembrane protein 163
0,696888619	0,03967	0,715984371	0,00073	TMEM17	transmembrane protein 17
1,839100092	0,0034	1,840375301	0,00001	TMEM176A	transmembrane protein 176A
2,281527432	0,001	2,418311352	0	TMEM176B	transmembrane protein 176B
0,790041312	0,01432	0,830470024	0,00102	TMEM18	transmembrane protein 18
0,509445598	0,01787	0,608783009	0,00263	TMEM184A	transmembrane protein 184A
1,307671349	0,00771	1,29145735	0,00031	TMEM184B	transmembrane protein 184B
0,783497187	0,0282	0,798298386	0,01327	TMEM185A	transmembrane protein 185A
0,628506687	0,02042	0,822450069	0,00458	TMEM185A	transmembrane protein 185A
1,447938172	0,00227	1,208317843	0,00885	TMEM198	transmembrane protein 198
1,601029621	0,005	1,471206746	0,00012	TMEM200C	transmembrane protein 200C
1,489677463	0,01014	1,371733289	0,00033	TMEM204	transmembrane protein 204
1,396678532	0,02412	1,194991205	0,0085	TMEM22	transmembrane protein 22
0,604158922	0,00099	0,688247801	0,00016	TMEM237	transmembrane protein 237
0,498270131	0,00228	0,597495602	0,00008	TMEM237	transmembrane protein 237
1,33422317	0,02038	1,269270886	0,00746	TMEM25	transmembrane protein 25
1,426025717	0,00283	1,274560627	0,00117	TMEM39A	transmembrane protein 39A
1,442928687	0,00027	1,220946513	0,00211	TMEM39A	transmembrane protein 39A
0,539614118	0,00168	0,693034943	0,00071	TMEM40	transmembrane protein 40
0,557483109	0,00016	0,750539549	0,00771	TMEM40	transmembrane protein 40
0,680657058	0,02147	0,818469182	0,01787	TMEM41A	transmembrane protein 41A
0,623300597	0,01827	0,855595026	0,04926	TMEM43	transmembrane protein 43
0,6341957	0,00487	0,587638164	0	TMEM43	transmembrane protein 43
0,740206649	0,01826	0,806082831	0,03235	TMEM45B	transmembrane protein 45B
0,505926601	0,01379	0,804408371	0,01976	TMEM54	transmembrane protein 54
1,781385801	0,00012	1,429984986	0,0043	TMEM56	transmembrane protein 56
0,751580739	0,01867	0,741747467	0,00169	TMEM64	transmembrane protein 64
1,593280193	0,00733	1,36983298	0,02108	TMEM71	transmembrane protein 71
0,383952567	0,0012	0,61301743	0,00018	TMEM79	transmembrane protein 79
0,657927263	0,03054	0,839149637	0,0144	TMEM87A	transmembrane protein 87A
0,758909626	0,01755	0,810003474	0,00511	TMEM87A	transmembrane protein 87A
1,225185332	0,02825	1,174461971	0,01457	TMEM88	transmembrane protein 88
1,576800348	0,00813	1,312211255	0,00441	TMEM8A	transmembrane protein 8A
1,261377409	0,01324	1,20163605	0,00103	TMEM8A	transmembrane protein 8A
1,230291345	0,01395	1,199139914	0,02556	TMEM91	transmembrane protein 91
0,721464343	0,00337	0,788946841	0,00029	TMEM9B	TMEM9 domain family, member B
0,395842933	0,00276	0,683020128	0,00185	TMPRSS11D	transmembrane protease, serine 11D
0,566441943	0,00437	0,754190038	0,00402	TMPRSS13	transmembrane protease, serine 13
1,702907415	0,03452	1,510472586	0,02925	TMPRSS2	transmembrane protease, serine 2
1,642621402	0,00754	1,464085696	0,00337	TMPRSS2	transmembrane protease, serine 2
1,310393404	0,01833	1,152686347	0,01384	TMPRSS3	transmembrane protease, serine 3
1,41029796	0,02999	1,141554707	0,02892	TMTC1	transmembrane and tetratricopeptide repeat containing 1
1,21167266	0,01605	1,159095952	0,01033	TNAP	TRAFs and NIK-associated protein
0,725476104	0,03764	0,735093668	0,03649	TNC	tenascin C
0,61985385	0,00555	0,635515845	0,00155	TNC	tenascin C
1,215036792	0,04162	1,304050735	0,00069	TNFAIP8L2	tumor necrosis factor, alpha-induced protein 8-like 2
1,620006947	0,01071	1,246601194	0,01248	TNFRSF10C	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
1,692317193	0,00323	1,508380077	0,00295	TNFRSF10C	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
1,350037985	0,02557	1,230291345	0,02482	TNFRSF10C	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
1,394743666	0,03125	1,151887642	0,02837	TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain
1,307671349	0,02565	1,148698355	0,0171	TNFRSF14	tumor necrosis factor receptor superfamily, member 14
5,183763862	0,00003	3,747685787	0,00017	TNFRSF17	tumor necrosis factor receptor superfamily, member 17
0,434973676	0,02232	0,50557604	0,0002	TNFRSF19	tumor necrosis factor receptor superfamily, member 19
1,608816742	0,00447	1,510472586	0,00037	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B
0,837987135	0,0276	0,902500727	0,04391	TNFRSF25	tumor necrosis factor receptor superfamily, member 25
1,477338064	0,01244	1,378405153	0,00005	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13
1,505246747	0,01434	1,537940831	0,00287	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b
1,618884433	0,00056	1,292352831	0,00054	TNIP1	TNFAIP3 interacting protein 1
1,938579634	0,00004	1,456999114	0,00009	TNS3	tensin 3
0,744322628	0,02727	0,727490342	0,00069	TOB2	transducer of ERBB2, 2
0,675487042	0,01846	0,753145233	0,00136	TOLLIP	toll interacting protein
0,768970416	0,01693	0,801625329	0,01723	TOLLIP	toll interacting protein
0,51370072	0,02277	0,564873607	0,00026	TOM1L1	target of myb1 (chicken)-like 1
0,67689314	0,00072	0,78132788	0,00259	TOM1L1	target of myb1 (chicken)-like 1
0,543744195	0,0048	0,708087719	0,00021	TOMM20	translocase of outer mitochondrial membrane 20 homolog (yeast)
0,716480825	0,0367	0,751580739	0,00008	TOMM20	translocase of outer mitochondrial membrane 20 homolog (yeast)
0,775930854	0,04039	0,872362706	0,04168	TOMM70A	translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae)
0,470087101	0,00695	0,522317881	0	TOP1	topoisomerase (DNA) I
0,454389058	0,04273	0,747424624	0,0024	TOP2A	topoisomerase (DNA) II alpha 170kDa
1,261377409	0,01084	1,25962998	0,0003	TOR2A	torsin family 2, member A
1,577893682	0,02857	1,381274448	0,00087	TOR3A	torsin family 3, member A
1,626758396	0,00537	1,193335743	0,02355	TOX2	TOX high mobility group box family member 2
0,723969086	0,04814	0,745355193	0,0004	TOX4	TOX high mobility group box family member 4
0,465870215	0,00046	0,658839976	0,0002	TP53AIP1	tumor protein p53 regulated apoptosis inducing protein 1
0,40332088	0,00006	0,695923196	0,00152	TP53AIP1	tumor protein p53 regulated apoptosis inducing protein 1
1,913216316	0,001	1,689972769	0,00092	TP53INP1	tumor protein p53 inducible nuclear protein 1
1,484523571	0,00328	1,347233577	0,00793	TP53INP1	tumor protein p53 inducible nuclear protein 1
0,488354264	0,01877	0,652477474	0,01444	TP63	tumor protein p63
0,695440986	0,00581	0,774319028	0,00988	TPD52	tumor protein D52
0,81056512	0,02663	0,778085177	0,00052	TPD52L1	tumor protein D52-like 1
1,508380077	0,00936	1,222640278	0,00802	TPK1	thiamin pyrophosphokinase 1
1,254402205	0,02053	1,197478705	0,00091	TPM4	tropomyosin 4
0,691595315	0,03813	0,764718139	0,01635	TPM4	tropomyosin 4
0,492092011	0,00838	0,60332196	0,00002	TPPP	tubulin polymerization promoting protein
0,368311921	0,0006	0,595841287	0,00539	TPPP3	tubulin polymerization-promoting protein family member 3
0,485653748	0,01716	0,552865327	0,0006	TPR	translocated promoter region (to activated MET oncogene)
0,582366793	0,02385	0,888226796	0,02828	TPR	translocated promoter region (to activated MET oncogene)
0,604997045	0,0216	0,770037174	0,02487	TPRG1	tumor protein p63 regulated 1
0,597909898	0,01008	0,702222438	0,00114	TPRKB	TP53RK binding protein
1,691144575	0,0001	1,477338064	0,00034	TPST2	tyrosylprotein sulfotransferase 2
0,779704843	0,0339	0,844986384	0,00008	TRA2B	transformer 2 beta homolog (Drosophila)

1,295940965	0,01731	1,156688184	0,04374	TRAF1	TNF receptor-associated factor 1
0,86934456	0,04945	0,888226796	0,0469	TRAF3IP1	TNF receptor-associated factor 3 interacting protein 1
1,480413298	0,00571	1,203303026	0,02901	TRAF3IP3	TRAF3 interacting protein 3
1,935894054	0,00152	1,473247686	0,01047	TRAF3IP3	TRAF3 interacting protein 3
1,397646972	0,01245	1,280759861	0,00575	TRAF4	TNF receptor-associated factor 4
1,559409685	0,02411	1,250062303	0,00289	TRAM1	translocation associated membrane protein 1
1,275444392	0,03879	1,273677475	0,00198	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1
1,167967395	0,04766	1,273677475	0,00053	TRAPPC2L	trafficking protein particle complex 2-like
0,674551267	0,02527	0,756808396	0,00383	TRAPPC6B	trafficking protein particle complex 6B
1,43296165	0,01623	1,240567298	0,03299	TRAT1	T cell receptor associated transmembrane adaptor 1
1,659789171	0,00133	1,310393404	0,00989	TRDV2	T cell receptor delta variable 2
1,32317144	0,03369	1,189207115	0,01508	TREML2P1	triggering receptor expressed on myeloid cells-like 2 pseudogene 1
0,76418826	0,01791	0,911933166	0,04637	TREX1	three prime repair exonuclease 1
0,770571108	0,01283	0,853226098	0,00202	TRIAP1	TP53 regulated inhibitor of apoptosis 1
1,851892045	0,00079	1,359428242	0,03892	TRIB1	tribbles homolog 1 (Drosophila)
1,413233644	0,03788	1,237990291	0,00503	TRIB3	tribbles homolog 3 (Drosophila)
0,738157203	0,01496	0,799960128	0,00563	TRIM16L	tripartite motif containing 16-like
1,4054187	0,00161	1,257884972	0,00058	TRIM27	tripartite motif containing 27
1,269270886	0,03463	1,190856849	0,00152	TRIM27	tripartite motif containing 27
0,456282744	0,04943	0,833353207	0,01656	TRIM29	tripartite motif containing 29
0,629378587	0,01148	0,655196702	0,00009	TRIM4	tripartite motif containing 4
1,458009379	0,00458	1,25962998	0,01598	TRIM69	tripartite motif containing 69
0,517273791	0,00036	0,594191553	0,00003	TRIM7	tripartite motif containing 7
0,470413054	0,00218	0,671751713	0,00017	TRIM7	tripartite motif containing 7
0,768970416	0,03654	0,90000193	0,0302	TRIP12	thyroid hormone receptor interactor 12
0,730522189	0,03846	0,788400174	0,00261	TRIP4	thyroid hormone receptor interactor 4
0,679714121	0,03895	0,823591017	0,00024	TRIT1	tRNA isopentenyltransferase 1
0,767373048	0,02161	0,795536484	0,00002	TRMT12	tRNA methyltransferase 12 homolog (S. cerevisiae)
1,543280175	0,00315	1,495885758	0,00015	TRMT2B	TRM2 tRNA methyltransferase 2 homolog B (S. cerevisiae)
0,697855382	0,00146	0,812815602	0,00221	TRMT5	TRM5 tRNA methyltransferase 5 homolog (S. cerevisiae)
0,756283999	0,02317	0,690637224	0,00002	TRMT6	tRNA methyltransferase 6 homolog (S. cerevisiae)
0,764718139	0,00795	0,821310701	0,00301	TRNP1	TMF1-regulated nuclear protein 1
1,542210825	0,00862	1,441928871	0,00003	TRPM6	transient receptor potential cation channel, subfamily M, member 6
0,4248425	0,00828	0,557483109	0	TRPS1	trichorhinophalangeal syndrome I
0,421323415	0,00038	0,624165274	0	TRPS1	trichorhinophalangeal syndrome I
0,466193243	0,00828	0,483973513	0,00041	TRPS1	trichorhinophalangeal syndrome I
0,753145233	0,04465	0,746389192	0,00318	TRPS1	trichorhinophalangeal syndrome I
1,244874235	0,03603	1,313121125	0,00153	TRPV5	transient receptor potential cation channel, subfamily V, member 5
1,735077374	0,01882	1,534746096	0,00001	TSC22D3	TSC22 domain family, member 3
1,313121125	0,04147	1,250062303	0,00299	TSGA13	testis specific, 13
1,333298677	0,01292	1,163926534	0,02141	TSHZ3	teashirt zinc finger homeobox 3
1,436940177	0,01564	1,296839555	0,00022	TSPAN1	tetraspanin 1
1,76418273	0,00119	1,528376521	0,00115	TSPAN11	tetraspanin 11
2,086377187	0,00196	1,351910833	0,00388	TSPAN12	tetraspanin 12
1,860899315	0,00006	1,32317144	0,00024	TSPAN13	tetraspanin 13
1,503161478	0,0093	1,472226862	0,0003	TSPAN18	tetraspanin 18
1,293248932	0,00533	1,328685814	0,00002	TSPAN32	tetraspanin 32
1,267512522	0,04978	1,215036792	0,0024	TSPAN32	tetraspanin 32
0,50697974	0,02434	0,656560563	0,00003	TSPAN5	tetraspanin 5
0,638164384	0,00095	0,773782497	0,00085	TSPAN5	tetraspanin 5
1,285206337	0,01602	1,280759861	0,00124	TSPAN7	tetraspanin 7
0,503477775	0,03537	0,788400174	0,00581	TSR1	TSR1, 20S rRNA accumulation, homolog (S. cerevisiae)
0,71449707	0,00562	0,753667455	0,00025	TSR1	TSR1, 20S rRNA accumulation, homolog (S. cerevisiae)
0,543744195	0,00027	0,627635996	0	TSR1	TSR1, 20S rRNA accumulation, homolog (S. cerevisiae)
0,640379931	0,00724	0,821880187	0,00803	TST	thiosulfate sulfurtransferase (rhodanese)
0,642157904	0,02468	0,815072332	0,00009	TTC19	tetratricopeptide repeat domain 19
0,652929894	0,02609	0,747942879	0,00388	TTC22	tetratricopeptide repeat domain 22
0,589678296	0,00755	0,759435845	0,00707	TTC35	tetratricopeptide repeat domain 35
0,527045712	0,00025	0,593779833	0,00015	TTC39A	tetratricopeptide repeat domain 39A
0,587230986	0,00071	0,700763725	0,00106	TTC39C	tetratricopeptide repeat domain 39C
0,559806444	0,00882	0,777546036	0,00181	TTL	tubulin tyrosine ligase
1,237132479	0,04503	1,303147149	0,00017	TUB	tubby homolog (mouse)
0,754712984	0,04688	0,871154192	0,02971	TUBA3C	tubulin, alpha 3c
0,452816992	0,0024	0,70514898	0,00027	TUBA4A	tubulin, alpha 4a
0,76101669	0,04645	0,819604608	0,00157	TUBA4B	tubulin, alpha 4b (pseudogene)
0,532185091	0,00359	0,60583633	0	TUBB2A	tubulin, beta 2A
0,650670928	0,0441	0,754190038	0,00532	TUBB3	tubulin, beta 3
0,668037039	0,01037	0,788400174	0,00482	TUBGCP5	tubulin, gamma complex associated protein 5
0,488692883	0,00986	0,646176415	0,00002	TUFT1	tuftelin 1
1,382232207	0,03442	1,378405153	0,00083	TUSC3	tumor suppressor candidate 3
0,674083866	0,02538	0,713012859	0,00039	TWISTNB	TWIST neighbor
1,344434994	0,00589	1,185092771	0,02172	TXLNB	taxilin beta
0,457232545	0,00009	0,691595315	0,00019	TXN	thioredoxin
1,954771533	0,00752	1,756860936	0,00002	TXNDC11	thioredoxin domain containing 11
1,956126947	0,00052	1,626758396	0,0002	TXNDC15	thioredoxin domain containing 15
1,467133344	0,00059	1,216722359	0,03297	TXNDC15	thioredoxin domain containing 15
1,222640278	0,04942	1,16634937	0,01108	TXNDC3	thioredoxin domain containing 3 (spermatozoa)
0,790589117	0,02141	0,684441907	0,00038	TXNL1	thioredoxin-like 1
0,685391402	0,03582	0,791685866	0,00495	TYRO3	TYRO3 protein tyrosine kinase
0,672683604	0,04714	0,837987135	0,01977	UBAC1	UBA domain containing 1
0,743291492	0,03241	0,813943185	0,00403	UBAP2	ubiquitin associated protein 2
0,798298386	0,02153	0,71449707	0,00004	UBE2E3	ubiquitin-conjugating enzyme E2E 3
0,788400174	0,04359	0,855002178	0,04289	UBE2I	ubiquitin-conjugating enzyme E2I
0,812815602	0,01132	0,8362464	0,01199	UBE2I	ubiquitin-conjugating enzyme E2I
1,413233644	0,01406	1,175276328	0,02625	UBE2J1	ubiquitin-conjugating enzyme E2, J1, U
1,875142193	0,003	1,221793102	0,04622	UBE2J1	ubiquitin-conjugating enzyme E2, J1, U
0,780786493	0,01326	0,784040454	0,0001	UBE2K	ubiquitin-conjugating enzyme E2K
0,62676651	0,0069	0,820741609	0,0005	UBE2K	ubiquitin-conjugating enzyme E2K
0,541112322	0,00323	0,650670928	0,00006	UBE2V2	ubiquitin-conjugating enzyme E2 variant 2
0,594603558	0,0081	0,806082831	0,00012	UBE3C	ubiquitin protein ligase E3C
0,672217497	0,02195	0,820741609	0,00015	UBE4A	ubiquitination factor E4A
0,670356296	0,00554	0,824162085	0,04151	UBE4B	ubiquitination factor E4B
0,829319546	0,03311	0,857376037	0,00298	UBL5	ubiquitin-like 5
0,543367431	0,00048	0,664342907	0,00004	UCHL3	ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase)
1,828930179	0,00586	1,831467373	0,00001	UCP2	uncoupling protein 2 (mitochondrial, proton carrier)
1,983433461	0,01281	1,691144575	0,0032	UCP2	uncoupling protein 2 (mitochondrial, proton carrier)
0,652025368	0,02922	0,865136691	0,00404	UFC1	ubiquitin-fold modifier conjugating enzyme 1
0,729004689	0,02979	0,852044095	0,00275	UFD1L	ubiquitin fusion degradation 1 like (yeast)

0,607939642	0,00468	0,797192477	0,00018	UFSP2	UFM1-specific peptidase 2
1,849326556	0,03374	1,433955248	0,00393	UGT2B17	UDP glucuronosyltransferase 2 family, polypeptide B17
0,581560021	0,00261	0,737134609	0,02209	ULBP2	UL16 binding protein 2
0,583174685	0,00059	0,76630998	0,00675	ULK3	unc-51-like kinase 3 (C. elegans)
0,803293997	0,04148	1,265756594	0,00006	ULK4	unc-51-like kinase 4 (C. elegans)
0,698823486	0,01201	0,815072332	0,00189	UMPS	uridine monophosphate synthetase
0,758383773	0,02477	0,871154192	0,01052	UMPS	uridine monophosphate synthetase
0,571569168	0,00259	0,764718139	0,00016	UNC13B	unc-13 homolog B (C. elegans)
0,678302164	0,00492	0,637280314	0,00001	UNG	uracil-DNA glycosylase
0,754712984	0,04614	0,89688816	0,02551	UQCRB	ubiquinol-cytochrome c reductase binding protein
0,721464343	0,01841	0,882702996	0,02501	UQCRC2	ubiquinol-cytochrome c reductase core protein II
1,350974085	0,01253	1,172022284	0,00385	URB1	URB1 ribosome biogenesis 1 homolog (S. cerevisiae)
0,841479482	0,03752	0,868742185	0,0343	URB2	URB2 ribosome biogenesis 2 homolog (S. cerevisiae)
0,535515412	0,0009	0,794985251	0,00923	USP12	ubiquitin specific peptidase 12
0,581560021	0,00153	0,570381858	0,00011	USP2	ubiquitin specific peptidase 2
0,632878297	0,01273	0,825305409	0,02391	USP2	ubiquitin specific peptidase 2
0,679243142	0,0251	0,731028724	0,00579	USP24	ubiquitin specific peptidase 24
0,614719434	0,00969	0,85027416	0,00939	USP24	ubiquitin specific peptidase 24
0,785672517	0,0244	0,842062954	0,00465	USP3	ubiquitin specific peptidase 3
0,762072415	0,02682	0,793883931	0,00198	USP47	ubiquitin specific peptidase 47
0,704172113	0,02952	0,628071191	0,00063	USP53	ubiquitin specific peptidase 53
0,673150035	0,01901	0,515484159	0,00002	USP53	ubiquitin specific peptidase 53
0,610473256	0,00642	0,730016005	0,00057	USP54	ubiquitin specific peptidase 54
0,648419777	0,021	0,788946841	0,00011	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)
0,563309614	0,0011	0,683020128	0,00001	UTP11L	UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)
0,676424116	0,0061	0,747424624	0,00022	UTP14A	UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast)
0,785128119	0,04903	0,759962428	0,00001	UTP18	UTP18, small subunit (SSU) processome component, homolog (yeast)
1,851892045	0,00596	1,476314406	0,00632	VAMP1	vesicle-associated membrane protein 1 (synaptobrevin 1)
0,642603169	0,04987	0,87539133	0,00148	VAMP3	vesicle-associated membrane protein 3 (cellubrevin)
0,582770599	0,02927	0,860352631	0,01434	VAMP8	vesicle-associated membrane protein 8 (endobrevin)
0,693034943	0,03378	0,808881348	0,0002	VANGL1	vang-like 1 (van gogh, Drosophila)
0,600401714	0,02484	0,789493887	0,04662	VANGL2	vang-like 2 (van gogh, Drosophila)
0,627635996	0,00168	0,729510172	0,00244	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
0,737134609	0,0165	0,77916458	0,0037	VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C
1,557249382	0,01763	1,486582984	0,00003	VAV1	vav 1 guanine nucleotide exchange factor
0,432868283	0,00133	0,66296288	0,02272	VAV3	vav 3 guanine nucleotide exchange factor
0,483303049	0,00502	0,639492791	0,00289	VAV3	vav 3 guanine nucleotide exchange factor
0,3515983	0,01069	0,632001549	0,04774	VAV3	vav 3 guanine nucleotide exchange factor
0,743806881	0,02672	0,723969086	0,00004	VBP1	von Hippel-Lindau binding protein 1
0,683493726	0,03794	0,856781955	0,0039	VDAC2	voltage-dependent anion channel 2
1,22010051	0,0492	1,159095952	0,00529	VEPH1	ventricular zone expressed PH domain homolog 1 (zebrafish)
1,371733289	0,04801	1,131314463	0,04638	VHL	von Hippel-Lindau tumor suppressor
1,226884977	0,02035	1,335148303	0,00045	VIL1	villin 1
1,298638603	0,01269	1,140763716	0,00523	VIPR2	vasoactive intestinal peptide receptor 2
0,596667872	0,01478	0,790589117	0,00552	VKORC1L1	vitamin K epoxide reductase complex, subunit 1-like 1
0,630688704	0,04089	0,728499557	0,00309	VLDLR	very low density lipoprotein receptor
1,64832417	0,0016	1,549711862	0,00013	VMO1	vitelline membrane outer layer 1 homolog (chicken)
2,020902893	0,00003	1,616641738	0,00039	VNN2	vanin 2
2,191623533	0,00011	1,664397469	0,00002	VOPP1	vesicular, overexpressed in cancer, prosurvival protein 1
1,433955248	0,01367	1,317679952	0,00022	VPREB3	pre-B lymphocyte 3
0,65747138	0,04088	0,718968266	0,00106	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)
1,647182035	0,03788	1,380317353	0,00945	VPS13C	vacuolar protein sorting 13 homolog C (S. cerevisiae)
2,023706402	0,00777	1,440929749	0,0087	VPS13C	vacuolar protein sorting 13 homolog C (S. cerevisiae)
0,709561678	0,00326	0,828744904	0,00031	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)
0,549046407	0,00005	0,789493887	0,01514	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)
0,590496331	0,00302	0,780786493	0,00012	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)
0,636838738	0,00112	0,843815796	0,01697	VPS24	vacuolar protein sorting 24 homolog (S. cerevisiae)
0,644834125	0,01528	0,848507902	0,003	VPS24	vacuolar protein sorting 24 homolog (S. cerevisiae)
0,643494624	0,00377	0,76684133	0,00011	VPS26A	vacuolar protein sorting 26 homolog A (S. pombe)
0,812252396	0,03164	0,8362464	0,01886	VPS29	vacuolar protein sorting 29 homolog (S. cerevisiae)
0,584388624	0,03632	0,871154192	0,02037	VPS35	vacuolar protein sorting 35 homolog (S. cerevisiae)
0,691595315	0,04621	0,901875378	0,02294	VPS45	vacuolar protein sorting 45 homolog (S. cerevisiae)
0,70027816	0,02776	0,727490342	0,00011	VPS54	vacuolar protein sorting 54 homolog (S. cerevisiae)
0,551334582	0,00434	0,710546022	0,00037	VSNL1	visinin-like 1
0,352086057	0,00352	0,665264521	0,00348	VSNL1	visinin-like 1
0,673616788	0,02089	0,753667455	0,00011	VTA1	Vps20-associated 1 homolog (S. cerevisiae)
1,387030969	0,00408	1,352848231	0,00526	VWA3A	von Willebrand factor A domain containing 3A
1,33422317	0,04223	1,184271612	0,03031	VWA5B2	von Willebrand factor A domain containing 5B2
1,2397077	0,04477	1,193335743	0,00563	VWF	von Willebrand factor
0,680657058	0,00029	0,833353207	0,03432	WARS2	tryptophanyl tRNA synthetase 2, mitochondrial
1,525201653	0,00145	1,386069886	0,00004	WAS	Wiskott-Aldrich syndrome (eczema-thrombocytopenia)
0,691116103	0,01699	0,831045862	0,02353	WASL	Wiskott-Aldrich syndrome-like
0,706616822	0,03639	0,724471077	0,00006	WBP4	WW domain binding protein 4 (formin binding protein 21)
0,571569168	0,01937	0,683967652	0,00001	WDFY2	WD repeat and FYVE domain containing 2
0,652025368	0,00398	0,796640096	0,00095	WDFY2	WD repeat and FYVE domain containing 2
1,411275843	0,0197	1,358486285	0,00092	WDFY4	WDFY family member 4
0,627635996	0,02939	0,69399636	0,00099	WDR26	WD repeat domain 26
0,560194607	0,007	0,70270935	0,03385	WDR26	WD repeat domain 26
0,611744021	0,02477	0,687770909	0,00001	WDR41	WD repeat domain 41
0,598324482	0,00146	0,774319028	0,00146	WDR41	WD repeat domain 41
0,743291492	0,00452	0,778624691	0,00017	WDR53	WD repeat domain 53
0,645728675	0,03519	0,722966147	0,00007	WDR61	WD repeat domain 61
0,704172113	0,00508	0,756808396	0,00007	WDR61	WD repeat domain 61
0,623300597	0,01051	0,69640574	0	WDR75	WD repeat domain 75
1,349102534	0,01899	1,237132479	0,00253	WDR93	WD repeat domain 93
0,622868708	0,0069	0,713012859	0,01526	WEE1	WEE1 homolog (S. pombe)
0,329648404	0,00044	0,589269704	0,00504	WFDC5	WAP four-disulfide core domain 5
1,71832151	0,00796	1,591072968	0,0001	WFS1	Wolfram syndrome 1 (wolframin)
1,710004356	0,0008	1,617762697	0,00003	WFS1	Wolfram syndrome 1 (wolframin)
1,903955817	0,01148	1,583371732	0,00303	WIPF1	WAS/WASL interacting protein family, member 1
1,695839929	0,00016	1,771535038	0	WIPF1	WAS/WASL interacting protein family, member 1
1,558329159	0,00097	1,264003098	0,00029	WIPF1	WAS/WASL interacting protein family, member 1
0,543367431	0,00815	0,76101669	0,00951	WNK1	WNK lysine deficient protein kinase 1
0,501388218	0,01035	0,708578698	0,0003	WNK1	WNK lysine deficient protein kinase 1
0,418413121	0,00218	0,478967609	0	WNK1	WNK lysine deficient protein kinase 1
0,47963206	0,00243	0,708087719	0,00082	WNK1	WNK lysine deficient protein kinase 1
0,432868283	0,01249	0,61813763	0,00021	WNK1	WNK lysine deficient protein kinase 1
1,52414483	0,00612	1,292352831	0,0085	WNT2	wingless-type MMTV integration site family member 2

0,789493887	0,02055	1,132098902	0,03695	WNT4	wingless-type MMTV integration site family, member 4
1,2397077	0,04628	1,143930973	0,03119	WT1-AS	WT1 antisense RNA (non-protein coding)
0,710546022	0,02069	0,701249625	0,00987	WTAP	Wilms tumor 1 associated protein
0,658383461	0,00268	0,727490342	0,00099	WWC1	WW and C2 domain containing 1
0,737134609	0,02432	0,783497187	0,0107	WWC1	WW and C2 domain containing 1
0,666187413	0,00706	0,733566672	0,00132	WWC1	WW and C2 domain containing 1
0,680185426	0,00193	0,801069878	0,01209	WWTR1	WW domain containing transcription regulator 1
1,347233577	0,04449	1,217566019	0,01188	XAGE-4	XAGE-4 protein
2,542063379	0,00001	2,45206972	0,0001	XBP1	X-box binding protein 1
1,812523877	0,00005	1,399585866	0,00015	XCL1	chemokine (C motif) ligand 1
2,043440165	0,00585	1,968368044	0,00068	XDH	xanthine dehydrogenase
0,490729532	0,00265	0,579146403	0,00005	XG	Xg blood group
0,60667678	0,01149	0,645728675	0,00116	XGPY2	Xg pseudogene, Y-linked 2
0,573553512	0,00036	0,817902059	0,00846	XKRX	XK, Kell blood group complex subunit-related, X-linked
0,643048742	0,01304	0,743291492	0,00006	XPA	xeroderma pigmentosum, complementation group A
0,701249625	0,0071	0,8362464	0,00027	XPO5	exportin 5
0,681129017	0,02628	0,755759964	0,00051	XPOT	exportin, tRNA (nuclear export receptor for tRNAs)
0,681129017	0,04567	0,86154616	0,00415	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)
0,733566672	0,03525	0,860352631	0,02545	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)
0,582366793	0,03002	0,612168196	0,00013	YES1	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
0,68491649	0,01867	0,793333843	0,00495	YME1L1	YME1-like 1 (S. cerevisiae)
0,690637224	0,02817	0,711531731	0,00005	YME1L1	YME1-like 1 (S. cerevisiae)
0,383952567	0,00252	0,517991382	0,00026	YOD1	YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae)
1,216722359	0,02539	1,151089491	0,02546	YPEL1	yippee-like 1 (Drosophila)
0,757858283	0,0403	0,792784137	0,00618	YTHDC1	YTH domain containing 1
0,737645729	0,02348	0,831045862	0,00032	YWHAB	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
0,690158677	0,00236	0,768437591	0,00326	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
0,709561678	0,02544	0,736623843	0,00013	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
0,679714121	0,01181	0,803293997	0,00124	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
0,682073917	0,01998	0,860949188	0,00654	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
0,492092011	0,01693	0,812815602	0,03216	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
0,743291492	0,02072	0,855002178	0,00919	YY1	YY1 transcription factor
0,71400199	0,00656	0,770571108	0,00002	YY1AP1	YY1 associated protein 1
0,733566672	0,00453	0,85797053	0,02683	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
0,611744021	0,0249	0,671286251	0,0001	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
0,647072827	0,00429	0,855002178	0,03424	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
0,487339815	0,00185	0,648869383	0,00053	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
0,558643569	0,00808	0,76950361	0,01075	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
0,753145233	0,02595	0,744838732	0,00012	ZAK	sterile alpha motif and leucine zipper containing kinase AZK
0,623732786	0,04814	0,724973416	0,00734	ZAK	sterile alpha motif and leucine zipper containing kinase AZK
1,427014506	0,02647	1,557249382	0,00004	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa
1,311302014	0,00681	1,217566019	0,02252	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa
1,701727459	0,00174	1,480413298	0,00014	ZBP1	Z-DNA binding protein 1
3,140512475	0,00015	2,482854983	0,00005	ZBP1	Z-DNA binding protein 1
0,647970483	0,04055	0,668500248	0,0005	ZBTB1	zinc finger and BTB domain containing 1
1,756860936	0,0141	1,330529041	0,03332	ZBTB38	zinc finger and BTB domain containing 38
1,257884972	0,00753	1,218410264	0,00309	ZBTB38	zinc finger and BTB domain containing 38
0,656105627	0,01479	0,641268301	0,00001	ZBTB43	zinc finger and BTB domain containing 43
0,734075318	0,00576	0,743806881	0,00008	ZBTB43	zinc finger and BTB domain containing 43
1,319507911	0,0339	1,315854525	0,00021	ZBTB46	zinc finger and BTB domain containing 46
0,735093668	0,00544	0,791137301	0,0002	ZBTB5	zinc finger and BTB domain containing 5
0,613442489	0,00025	0,628071191	0,00053	ZBTB7A	zinc finger and BTB domain containing 7A
0,625898229	0,04164	0,726986259	0,01544	ZBTB7A	zinc finger and BTB domain containing 7A
0,529242197	0,00049	0,752623374	0,00013	ZC3H8	zinc finger CCCH-type containing 8
0,686342216	0,0036	0,788946841	0,00053	ZC3HAV1	zinc finger CCCH-type, antiviral 1
0,784584098	0,00963	0,813943185	0,00393	ZCCHC10	zinc finger, CCHC domain containing 10
1,313121125	0,01968	1,371733289	0,00421	ZCCHC24	zinc finger, CCHC domain containing 24
0,576343173	0,01786	0,71548826	0,00002	ZCCHC6	zinc finger, CCHC domain containing 6
0,743806881	0,01715	0,756283999	0,00116	ZCCHC6	zinc finger, CCHC domain containing 6
0,693034943	0,00367	0,690158677	0,00103	ZCCHC7	zinc finger, CCHC domain containing 7
0,72597914	0,03411	0,764718139	0,00605	ZCCHC9	zinc finger, CCHC domain containing 9
0,586011142	0,00326	0,616853585	0,00048	ZDHHC11	zinc finger, DHHC-type containing 11
0,595428425	0,01308	0,583579051	0,00048	ZDHHC13	zinc finger, DHHC-type containing 13
0,552865327	0,0124	0,632878297	0,00029	ZDHHC13	zinc finger, DHHC-type containing 13
0,745872013	0,03763	0,722465199	0,00017	ZDHHC13	zinc finger, DHHC-type containing 13
1,601029621	0,00007	1,362258035	0,00028	ZDHHC2	zinc finger, DHHC-type containing 2
2,015307521	0,00828	1,243149669	0,04528	ZDHHC2	zinc finger, DHHC-type containing 2
1,368883813	0,04567	1,190856849	0,01671	ZDHHC2	zinc finger, DHHC-type containing 2
1,178539408	0,03321	1,099616149	0,03925	ZDHHC21	zinc finger, DHHC-type containing 21
0,605416542	0,03075	0,655651007	0,02973	ZDHHC21	zinc finger, DHHC-type containing 21
0,729510172	0,02099	0,815072332	0,00988	ZDHHC23	zinc finger, DHHC-type containing 23
0,713012859	0,01445	0,826450318	0,00191	ZDHHC3	zinc finger, DHHC-type containing 3
0,710546022	0,01113	0,859160755	0,00778	ZDHHC3	zinc finger, DHHC-type containing 3
0,708578698	0,01311	0,866937564	0,00741	ZDHHC5	zinc finger, DHHC-type containing 5
1,73748437	0,0338	1,41519416	0,03909	ZEB2	zinc finger E-box binding homeobox 2
1,531557997	0,001	1,490710387	0,00013	ZFAT	zinc finger and AT hook domain containing
0,667574152	0,01496	0,790041312	0,00153	ZFYVE21	zinc finger, FYVE domain containing 21
1,250062303	0,01354	1,131314463	0,01879	ZFYVE27	zinc finger, FYVE domain containing 27
0,452189689	0,04536	0,679243142	0,00137	ZHX1	zinc fingers and homeoboxes 1
1,459020344	0,00333	1,277213759	0,00142	ZHX2	zinc fingers and homeoboxes 2
1,467133344	0,00535	1,282536603	0,00773	ZHX2	zinc fingers and homeoboxes 2
0,792234811	0,02262	0,832775771	0,00452	ZHX3	zinc fingers and homeoboxes 3
1,328685814	0,00108	1,420107359	0	ZKSCAN2	zinc finger with KRAB and SCAN domains 2
1,172022284	0,04033	1,101141598	0,03117	ZKSCAN3	zinc finger with KRAB and SCAN domains 3
0,601234624	0,02976	0,689202576	0,00036	ZMYM5	zinc finger, MYM-type 5
0,760489377	0,01481	0,818469182	0,01767	ZMYND19	zinc finger, MYND-type containing 19
1,196648963	0,03572	1,244011653	0,00613	ZMYND8	zinc finger, MYND-type containing 8
0,784040454	0,01096	0,844986384	0,00383	ZNF101	zinc finger protein 101
0,710546022	0,00573	0,883315051	0,03739	ZNF16	zinc finger protein 16
0,6341957	0,01663	0,573951207	0,00001	ZNF165	zinc finger protein 165
0,69640574	0,03035	0,737645729	0,00034	ZNF185	zinc finger protein 185 (LIM domain)
1,178539408	0,04528	1,209994089	0,0049	ZNF19	zinc finger protein 19
0,582366793	0,04868	0,796640096	0,00408	ZNF207	zinc finger protein 207
2,716972569	0,00006	1,943961976	0,00001	ZNF215	zinc finger protein 215
1,652900636	0,00073	1,365093718	0,00022	ZNF236	zinc finger protein 236
0,724471077	0,04122	0,859160755	0,00662	ZNF250	zinc finger protein 250
0,786217292	0,01642	0,823591017	0,0069	ZNF254	zinc finger protein 254
0,454074209	0,00737	0,564482202	0,00033	ZNF273	zinc finger protein 273

1,929196369	0,00477	1,797510253	0,00003	ZNF275	zinc finger protein 275
2,709449955	0,00008	1,6724928	0,00004	ZNF275	zinc finger protein 275
0,677362489	0,00834	0,629378587	0,00005	ZNF330	zinc finger protein 330
1,184271612	0,02832	1,227735684	0,00684	ZNF333	zinc finger protein 333
1,241427492	0,01518	1,163926534	0,00282	ZNF385D	zinc finger protein 385D
0,722966147	0,00138	0,882702996	0,01065	ZNF398	zinc finger protein 398
0,683020128	0,03888	0,790589117	0,01311	ZNF462	zinc finger protein 462
0,840896415	0,042	0,843815796	0,00307	ZNF485	zinc finger protein 485
1,157490217	0,04043	1,16634937	0,01861	ZNF503-AS1	ZNF503 antisense RNA 1 (non-protein coding)
1,232852325	0,04362	1,147107024	0,00724	ZNF507	zinc finger protein 507
1,20664392	0,04145	1,163120042	0,0238	ZNF518B	zinc finger protein 518B
0,724973416	0,03523	0,811127156	0,01729	ZNF561	zinc finger protein 561
0,624598063	0,00623	0,699792933	0,00001	ZNF562	zinc finger protein 562
0,790041312	0,03187	0,792234811	0,00152	ZNF565	zinc finger protein 565
0,512989073	0,0162	0,55632506	0	ZNF57	zinc finger protein 57
0,717474767	0,01979	0,812815602	0,00582	ZNF585A	zinc finger protein 585A
0,836826243	0,02179	0,817335328	0,01069	ZNF596	zinc finger protein 596
1,393777239	0,01058	1,397646972	0,00007	ZNF609	zinc finger protein 609
1,374588696	0,00543	1,157490217	0,02773	ZNF618	zinc finger protein 618
0,73153561	0,04048	0,909408252	0,03391	ZNF638	zinc finger protein 638
1,634670657	0,01604	1,303147149	0,00486	ZNF652	zinc finger protein 652
0,594191553	0,00329	0,812815602	0,02222	ZNF662	zinc finger protein 662
0,681129017	0,01866	0,803850991	0,00059	ZNF669	zinc finger protein 669
0,69640574	0,02334	0,692554734	0,00016	ZNF675	zinc finger protein 675
1,596596773	0,03545	1,183451022	0,01505	ZNF689	zinc finger protein 689
0,76154437	0,01299	0,841479482	0,00655	ZNF7	zinc finger protein 7
1,225185332	0,03481	1,192508872	0,00088	ZNF702P	zinc finger protein 702, pseudogene
0,653382627	0,02432	0,774319028	0,01768	ZNF704	zinc finger protein 704
0,807201075	0,02484	0,842062954	0,01383	ZNF706	zinc finger protein 706
1,501079098	0,001	1,267512522	0,00988	ZNF709	zinc finger protein 709
0,729510172	0,0294	0,855002178	0,03595	ZNF711	zinc finger protein 711
1,398616083	0,00416	1,341642225	0,00964	ZNF747	zinc finger protein 747
0,499307333	0,00709	0,547146851	0,00001	ZNF750	zinc finger protein 750
1,325007017	0,00283	1,21167266	0,0312	ZNF764	zinc finger protein 764
0,551334582	0,00822	0,708578698	0,00001	ZNF770	zinc finger protein 770
0,675955417	0,04187	0,738157203	0,00519	ZNF785	zinc finger protein 785
0,71449707	0,02963	0,79774524	0,00473	ZNF789	zinc finger protein 789
0,73153561	0,02222	0,672683604	0,00053	ZNF800	zinc finger protein 800
0,543367431	0,02298	0,550570799	0,00011	ZNF823	zinc finger protein 823
1,375541818	0,03936	1,216722359	0,02858	ZNF827	zinc finger protein 827
0,62546454	0,01188	0,780786493	0,00085	ZNF830	zinc finger protein 830
0,700763725	0,01007	0,709561678	0,0005	ZNF846	zinc finger protein 846
0,69399636	0,03769	0,763129604	0,00143	ZNFX1-AS1	ZNFX1 antisense RNA 1 (non-protein coding)
0,784584098	0,02372	0,767905135	0,00069	ZNRF1	zinc and ring finger 1
0,580351957	0,02889	0,618566239	0,00014	ZNRF3	zinc and ring finger 3
0,651122095	0,01349	0,762072415	0,00107	ZSCAN29	zinc finger and SCAN domain containing 29
1,29145735	0,04235	1,336074078	0,00013	ZSCAN30	zinc finger and SCAN domain containing 30
0,627635996	0,0292	0,749499801	0	ZWILCH	Zwilch, kinetochore associated, homolog (Drosophila)
0,657015814	0,0453	0,657927263	0,00004	ZXDC	ZXD family zinc finger C

Panel 2: Genes significantly regulated in aggressive (AP), but not chronic (CP) periodontitis (p<0.05).

FC AP	p AP	FC CP	p CP	Symbol	Name
0,828170661	0,0409	0,968618189	0,53388	AARSD1	alanyl-tRNA synthetase domain containing 1
1,305859787	0,04685	1,189207115	0,05818	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1
1,364147835	0,04202	1,049716684	0,51888	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1
0,791685866	0,04634	0,930449658	0,24489	ABCF1	ATP-binding cassette, sub-family F (GCN20), member 1
1,583371732	0,02042	1,051172909	0,47068	ABHD2	abhydrolase domain containing 2
0,680657058	0,04115	0,953298545	0,68162	ABR	active BCR-related gene
0,632439771	0,01817	0,908148418	0,41178	ACAP3	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3
0,758383773	0,0467	0,922742493	0,23383	ACOT13	acyl-CoA thioesterase 13
0,688247801	0,01233	1,0238469	0,65308	ACOX1	acyl-CoA oxidase 1, palmitoyl
0,711038705	0,03118	0,93109482	0,13051	ACP1	acid phosphatase 1, soluble
1,205807828	0,04722	1,004167543	0,91507	ACSF3	acyl-CoA synthetase family member 3
0,786217292	0,0379	0,863339559	0,11885	ACVR1B	activin A receptor, type IB
1,179356592	0,02454	1,074004472	0,21528	ACY3	aspartoacylase (aminocyclase) 3
1,42899414	0,00123	1,282536603	0,05813	ADAM12	ADAM metallopeptidase domain 12
1,368883813	0,009	1,037419937	0,67907	ADAMTS10	ADAM metallopeptidase with thrombospondin type 1 motif, 10
1,568080908	0,04951	1,113421618	0,39531	ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif, 5
1,242288282	0,02031	1,050444544	0,53549	ADAMTSL1	ADAMTS-like 1
0,811689581	0,04445	0,950659101	0,30813	ADAMTSL3	ADAMTS-like 3
0,701249625	0,00326	0,950000383	0,49181	ADAT1	adenosine deaminase, tRNA-specific 1
1,365093718	0,0271	1,108800644	0,10668	ADCY1	adenylate cyclase 1 (brain)
0,701249625	0,04643	0,938221197	0,51426	AFF4	AF4/FMR2 family, member 4
1,172022284	0,04994	1,055553718	0,30032	AFMID	arylformamidase
0,844400887	0,04191	0,937571096	0,26608	AGAP3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3
0,693034943	0,00947	0,90062598	0,40508	AGPS	alkylglycerone phosphate synthase
1,251796459	0,01097	1,066585781	0,12189	AGTR1	angiotensin II receptor, type 1
1,319507911	0,01607	1,040300267	0,37345	AGTR2	angiotensin II receptor, type 2
0,632878297	0,0082	0,934975198	0,28669	AHNAK	AHNAK nucleoprotein
1,32408891	0,00679	1,072516617	0,13321	AIPL1	aryl hydrocarbon receptor interacting protein-like 1
1,241427492	0,04355	1,036701101	0,36508	AJAP1	adherens junctions associated protein 1
1,218410264	0,03793	0,994470169	0,88372	AK7	adenylate kinase 7
1,279872414	0,01141	1,047536127	0,41712	AKAP12	A kinase (PRKA) anchor protein 12
0,823591017	0,04555	1,011853201	0,81623	AKAP8L	A kinase (PRKA) anchor protein 8-like
0,568014632	0,00057	0,822450069	0,09729	AKR1C1	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
0,509445598	0,0092	0,813943185	0,0943	AKR1C1	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
0,587638164	0,00137	0,857376037	0,19927	AKR1C2	aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)
0,463615273	0,04969	0,829319546	0,16832	AKR1C2	aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)
2,133171562	0,00149	1,22603486	0,12541	ALDH1A3	aldehyde dehydrogenase 1 family, member A3
0,670356296	0,0213	0,925946023	0,18591	ALDH7A1	aldehyde dehydrogenase 7 family, member A1
0,718968266	0,01615	0,938221197	0,37175	ALDOC	aldolase C, fructose-bisphosphate
0,669891801	0,02465	0,745355193	0,0558	ALG13	asparagine-linked glycosylation 13 homolog (S. cerevisiae)
1,258757174	0,02075	1,048989328	0,48474	ALG14	asparagine-linked glycosylation 14 homolog (S. cerevisiae)
0,578344092	0,00127	0,855002178	0,14183	ALOXE3	arachidonate lipoxygenase 3
0,552482242	0,03194	0,852044095	0,07398	ALS2CL	ALS2 C-terminal like
0,815637493	0,03051	0,884540435	0,05479	AMACR	alpha-methylacyl-CoA racemase
0,767905135	0,02927	0,972654947	0,64056	AMN	amnionless homolog (mouse)
1,283425898	0,0256	1,139183377	0,07047	AMPH	amphiphysin
0,787307977	0,0371	0,946713631	0,25344	ANAPC7	anaphase promoting complex subunit 7
1,331451613	0,02985	1,169587664	0,075	ANGPT2	angiopoietin 2
0,820172911	0,04113	1,003471749	0,96202	ANGPTL1	angiopoietin-like 1
1,22603486	0,0454	1,154285418	0,07625	ANK1	ankyrin 1, erythrocytic
1,36983298	0,03027	1,082975046	0,36129	ANKDD1A	ankyrin repeat and death domain containing 1A
0,731028724	0,04399	0,915733686	0,4091	ANKFY1	ankyrin repeat and FYVE domain containing 1
0,682073917	0,04827	0,922742493	0,10344	ANKFY1	ankyrin repeat and FYVE domain containing 1
0,717972255	0,02196	0,840896415	0,12821	ANKRD17	ankyrin repeat domain 17
0,829894586	0,02927	0,962594443	0,39642	ANKRD24	ankyrin repeat domain 24
1,815038311	0,02816	1,165541198	0,20835	ANKRD28	ankyrin repeat domain 28
0,817902059	0,02021	0,874784765	0,06334	ANKRD33B	ankyrin repeat domain 33B
1,20664392	0,01852	0,967947027	0,43689	ANKRD40	ankyrin repeat domain 40
1,285206337	0,01856	1,094293701	0,08305	ANKRD43	ankyrin repeat domain 43
0,701735863	0,00451	0,849096246	0,05624	ANP32B	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B
0,837406488	0,02589	0,914465089	0,09731	ANPEP	alanyl (membrane) aminopeptidase
1,74956953	0,03143	0,965936329	0,90169	ANXA1	annexin A1
0,618566239	0,00498	0,957935218	0,77708	ANXA9	annexin A9
0,569591689	0,02135	0,773246337	0,12182	ANXA9	annexin A9
1,265756594	0,01208	1,059952783	0,53995	AP2A1	adaptor-related protein complex 2, alpha 1 subunit
1,337000495	0,0113	1,149494848	0,0598	APBA2	amyloid beta (A4) precursor protein-binding, family A, member 2
1,278099363	0,01827	1,101141598	0,14794	APLN	apelin
1,367935304	0,00892	1,157490217	0,13028	APLP1	amyloid beta (A4) precursor-like protein 1
1,485552921	0,00599	1,106497353	0,31068	APOL6	apolipoprotein L, 6
0,631563631	0,02319	0,864537231	0,11109	APRT	adenine phosphoribosyltransferase
0,818469182	0,02822	0,93109482	0,16703	APTX	aprataxin
0,76630998	0,04159	0,946057647	0,38336	APTX	aprataxin
1,578987773	0,04235	1,10343374	0,63355	AREG	amphiregulin
0,693515485	0,03329	0,982820599	0,82769	ARFGAP2	ADP-ribosylation factor GTPase activating protein 2
1,475291457	0,00048	1,172022284	0,06512	ARFGAP3	ADP-ribosylation factor GTPase activating protein 3
0,63860688	0,00613	0,822450069	0,16082	ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited)
0,709561678	0,02148	0,895025071	0,34645	ARGLU1	arginine and glutamate rich 1
1,336074078	0,03799	1,074749173	0,23693	ARHGAP27	Rho GTPase activating protein 27
1,155085785	0,0497	1,048262476	0,33823	ARHGAP31	Rho GTPase activating protein 31
0,562139462	0,01081	0,870550563	0,12085	ARHGAP32	Rho GTPase activating protein 32
1,359428242	0,00238	1,121166078	0,08959	ARHGAP44	Rho GTPase activating protein 44
0,77271055	0,04999	0,950000383	0,23514	ARHGEF10	Rho guanine nucleotide exchange factor (GEF) 10
1,492778383	0,01161	1,117287138	0,1417	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2
1,310393404	0,04596	1,122721422	0,10387	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2
0,767373048	0,03632	0,97874165	0,75101	ARL16	ADP-ribosylation factor-like 16
0,807201075	0,04259	0,862741345	0,0958	ARNTL2	aryl hydrocarbon receptor nuclear translocator-like 2
1,321338406	0,02648	1,133669413	0,09533	ARRB1	arrestin, beta 1
1,411275843	0,00026	1,130530567	0,05672	ARSB	arylsulfatase B
1,185092771	0,03847	1,031683179	0,57979	ART4	ADP-ribosyltransferase 4 (Dombrock blood group)
0,645728675	0,00369	0,911301281	0,29047	ASAP3	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3
1,236275261	0,03074	1,060687741	0,36424	ASB2	ankyrin repeat and SOCS box containing 2
1,354724977	0,04264	1,090507733	0,08808	ASB3	ankyrin repeat and SOCS box containing 3
1,212512819	0,04903	1,025978145	0,65474	ASPH	aspartate beta-hydroxylase
1,477338064	0,04937	1,167158102	0,12439	ASPHD2	aspartate beta-hydroxylase domain containing 2
0,370873733	0,00102	0,832775771	0,50387	ASPRV1	aspartic peptidase, retroviral-like 1
1,221793102	0,04137	1,041021598	0,33594	ASTN2	astrotactin 2
0,695440986	0,02794	0,890692901	0,18009	ATG10	ATG10 autophagy related 10 homolog (S. cerevisiae)
1,248330549	0,0339	1,118061851	0,09011	ATG10	ATG10 autophagy related 10 homolog (S. cerevisiae)
0,721464343	0,01032	0,965267025	0,78405	ATG9B	ATG9 autophagy related 9 homolog B (S. cerevisiae)
1,340712592	0,01846	1,245737416	0,06819	ATM	ataxia telangiectasia mutated
1,258757174	0,03652	0,995849753	0,93272	ATP11A	ATPase, class VI, type 11A
0,677832163	0,02058	0,788400174	0,12118	ATP13A4	ATPase type 13A4
1,377450046	0,00106	1,145517898	0,11402	ATP2A3	ATPase, Ca++ transporting, ubiquitous
0,667111585	0,00544	0,928516852	0,22645	ATP2B4	ATPase, Ca++ transporting, plasma membrane 4
0,762072415	0,02525	0,925304428	0,19773	ATP5E	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit
0,824733549	0,01876	0,927230546	0,17267	ATP5G3	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9)
0,760489377	0,00715	0,905633983	0,07336	ATP5J	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit F6
0,728499557	0,03458	1,001387256	0,98667	ATP6V0A1	ATPase, H+ transporting, lysosomal V0 subunit a1
0,749499801	0,02886	0,961927455	0,39688	ATP6V1F	ATPase, H+ transporting, lysosomal 14kDa, V1 subunit F
1,299539062	0,02374	1,137605228	0,05866	ATP7B	ATPase, Cu++ transporting, beta polypeptide
1,43097652	0,01212	1,063632673	0,30135	ATP8B4	ATPase, class I, type 8B, member 4
1,249196126	0,02024	1,07997656	0,23306	ATXN7L1	ataxin 7-like 1
0,829319546	0,03385	0,89688816	0,09611	AURKB	aurora kinase B
1,238848698	0,01603	1,054822317	0,47899	AXL	AXL receptor tyrosine kinase
0,402762146	0,00262	0,995159722	0,97548	AZGP1	alpha-2-glycoprotein 1, zinc-binding
0,686342216	0,0403	0,806082831	0,15097	B3GALNT2	beta-1,3-N-acetylgalactosaminyltransferase 2
1,361314116	0,02086	0,994470169	0,92532	B3GALT6	UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6
0,642603169	0,03237	0,759435845	0,10491	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
0,639492791	0,00777	0,835666959	0,07872	BAIAP2	BAI1-associated protein 2
0,794985251	0,01559	0,925304428	0,09479	BAIAP2L1	BAI1-associated protein 2-like 1
2,184041091	0,00001	1,342572503	0,0698	BANK1	B-cell scaffold protein with ankyrin repeats 1
1,492778383	0,00063	1,237132479	0,09916	BANK1	B-cell scaffold protein with ankyrin repeats 1
1,295940965	0,02619	1,090507733	0,15768	BATF2	basic leucine zipper transcription factor, ATF-like 2
1,372684431	0,00775	1,137605228	0,10423	BCAN	brevican
1,444930398	0,00676	1,092777739	0,23805	BCAR3	breast cancer anti-estrogen resistance 3
2,161450804	0,00038	1,385109468	0,05163	BCL2A1	BCL2-related protein A1
1,638073396	0,00395	1,175276328	0,06799	BCL2L11	BCL2-like 11 (apoptosis facilitator)
0,788400174	0,03264	0,967947027	0,7153	BCL2L13	BCL2-like 13 (apoptosis facilitator)
1,266634254	0,04005	1,136816973	0,10875	BCL7A	B-cell CLL/lymphoma 7A
0,820741609	0,04405	0,980099415	0,72705	BCS1L	BCS1-like (S. cerevisiae)
2,756810306	0,00148	1,269270886	0,11616	BEX5	brain expressed, X-linked 5
1,192508872	0,03931	1,057750964	0,17321	BHLHE41	basic helix-loop-helix family, member e41
1,307671349	0,0246	1,144724161	0,05948	BICD1	bicaudal D homolog 1 (Drosophila)
1,525201653	0,02135	0,888842681	0,10042	BICD1	bicaudal D homolog 1 (Drosophila)
1,536875181	0,01705	1,016070143	0,85063	BID	BH3 interacting domain death agonist
1,515716567	0,01496	1,299539062	0,06397	BIRC3	baculoviral IAP repeat containing 3
1,550786413	0,04212	1,084477409	0,24142	BMI1	BMI1 polycomb ring finger oncogene
0,703684188	0,00415	0,889458994	0,1644	BMP7	bone morphogenetic protein 7
0,592135806	0,03515	1,165541198	0,24665	BMP7	bone morphogenetic protein 7
1,269270886	0,0462	1,142346247	0,07921	BMP8B	bone morphogenetic protein 8b
1,381274448	0,00369	1,079228237	0,3	BNC2	basonuclin 2
0,546010273	0,00594	0,724471077	0,05138	BOC	Boc homolog (mouse)
0,704172113	0,0466	0,851453708	0,1445	BOK	BCL2-related ovarian killer
1,273677475	0,01539	1,097331938	0,13119	BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1
0,785128119	0,03266	0,912565489	0,06481	BRCA1	breast cancer 1, early onset
1,210833084	0,03478	1,028113827	0,59561	BRD4	bromodomain containing 4

0,747942879	0,0067	0,918276162	0,12256	BRK1	BRICK1, SCAR/WAVE actin-nucleating complex subunit
1,459020344	0,00084	1,263127262	0,08609	BRSK1	BR serine/threonine kinase 1
0,747424624	0,00928	0,912565489	0,22486	BRWD3	bromodomain and WD repeat domain containing 3
1,270150983	0,02056	1,101141598	0,09901	BST1	bone marrow stromal cell antigen 1
1,215036792	0,03878	1,069547088	0,22091	BTNL3	butyrophilin-like 3
0,790041312	0,02263	0,930449658	0,2872	BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)
0,669891801	0,01195	0,803293997	0,11847	BZW1	basic leucine zipper and W2 domains 1
0,783497187	0,03312	0,918912883	0,08357	C10orf12	chromosome 10 open reading frame 12
1,169587664	0,04646	1,077733145	0,14504	C10orf122	chromosome 10 open reading frame 122
0,811689581	0,03474	0,922742493	0,18953	C10orf26	chromosome 10 open reading frame 26
1,362258035	0,01266	1,102669163	0,17242	C10orf54	chromosome 10 open reading frame 54
1,237132479	0,03265	0,980779004	0,65886	C10orf81	chromosome 10 open reading frame 81
0,817902059	0,02677	0,933679945	0,1932	C11orf49	chromosome 11 open reading frame 49
0,76101669	0,01598	0,868742185	0,11606	C11orf52	chromosome 11 open reading frame 52
0,81056512	0,02669	0,855002178	0,05804	C11orf63	chromosome 11 open reading frame 63
1,580082624	0,00876	1,202469249	0,07648	C11orf93	chromosome 11 open reading frame 93
1,271031689	0,03541	1,079228237	0,19276	C11orf93	chromosome 11 open reading frame 93
1,199139914	0,03649	1,000693387	0,98822	C13orf15	chromosome 13 open reading frame 15
0,738157203	0,04745	0,959264119	0,30535	C14orf101	chromosome 14 open reading frame 101
0,759962428	0,00912	0,882091365	0,05266	C14orf119	chromosome 14 open reading frame 119
1,215036792	0,03006	1,050444544	0,33398	C14orf166B	chromosome 14 open reading frame 166B
0,816768991	0,01049	0,940826108	0,13689	C14orf2	chromosome 14 open reading frame 2
0,806082831	0,02909	0,894404902	0,07047	C14orf37	chromosome 14 open reading frame 37
0,734075318	0,02131	0,918276162	0,29126	C15orf17	chromosome 15 open reading frame 17
0,76418826	0,04893	0,942131274	0,59126	C15orf17	chromosome 15 open reading frame 17
1,243149669	0,04927	1,099616149	0,19717	C15orf42	chromosome 15 open reading frame 42
1,192508872	0,04667	1,027401439	0,65215	C16orf53	chromosome 16 open reading frame 53
1,216722359	0,01601	1,062159186	0,22709	C16orf86	chromosome 16 open reading frame 86
1,29145735	0,04076	0,879039561	0,08426	C16orf87	chromosome 16 open reading frame 87
1,325007017	0,01148	1,158292806	0,11153	C17orf101	chromosome 17 open reading frame 101
0,69495911	0,02367	0,916368645	0,36457	C17orf104	chromosome 17 open reading frame 104
1,274560627	0,03719	1,129747215	0,0986	C17orf67	chromosome 17 open reading frame 67
0,747424624	0,00582	0,910038824	0,10502	C17orf85	chromosome 17 open reading frame 85
1,215879283	0,04304	1,10343374	0,26331	C19orf29	chromosome 19 open reading frame 29
1,223488041	0,01226	0,967947027	0,56879	C19orf52	chromosome 19 open reading frame 52
0,604577838	0,04588	1,00486382	0,9358	C19orf56	chromosome 19 open reading frame 56
1,197478705	0,03732	1,125838586	0,10139	C19orf59	chromosome 19 open reading frame 59
0,633317127	0,01684	0,90312651	0,14791	C19orf79	chromosome 19 open reading frame 79
1,388955136	0,03613	1,115739322	0,157	C1GALT1C1	C1GALT1-specific chaperone 1
0,657927263	0,01782	0,836826243	0,13662	C1orf116	chromosome 1 open reading frame 116
0,593368399	0,01432	0,775930854	0,07494	C1orf174	chromosome 1 open reading frame 174
0,738669032	0,00655	0,85797053	0,0709	C1orf21	chromosome 1 open reading frame 21
0,857376037	0,03109	0,911933166	0,09887	C1orf50	chromosome 1 open reading frame 50
1,257884972	0,0105	1,121166078	0,11521	C1orf61	chromosome 1 open reading frame 61
0,765248385	0,01093	1,125838586	0,08612	C1orf68	chromosome 1 open reading frame 68
0,708578698	0,01872	0,866336856	0,06188	C20orf108	chromosome 20 open reading frame 108
1,23370717	0,04216	1,099616149	0,07196	C20orf29	chromosome 20 open reading frame 29
1,236275261	0,03718	1,095052471	0,0592	C20orf54	chromosome 20 open reading frame 54
0,81056512	0,04773	0,917004043	0,15033	C20orf7	chromosome 20 open reading frame 7
1,285206337	0,01236	1,102669163	0,0821	C21orf116	chromosome 21 open reading frame 116
1,174461971	0,03108	1,027401439	0,43213	C21orf59	chromosome 21 open reading frame 59
1,307671349	0,01957	0,988970916	0,85449	C21orf7	chromosome 21 open reading frame 7
0,682073917	0,00955	0,955282936	0,6089	C21orf91	chromosome 21 open reading frame 91
1,244874235	0,0423	0,984184022	0,72115	C22orf32	chromosome 22 open reading frame 32
1,214194884	0,01939	1,07549439	0,09461	C22orf43	chromosome 22 open reading frame 43
1,257884972	0,04472	1,100378609	0,14065	C2orf71	chromosome 2 open reading frame 71
0,601234624	0,00428	0,811689581	0,11099	C3orf23	chromosome 3 open reading frame 23
0,747942879	0,02117	0,936921447	0,22925	C3orf54	chromosome 3 open reading frame 54
1,45195828	0,04512	0,969289817	0,56203	C4orf49	chromosome 4 open reading frame 49
1,45296505	0,00026	1,179356592	0,05303	C5orf32	chromosome 5 open reading frame 32
0,511568735	0,00725	0,869947353	0,24539	C5orf46	chromosome 5 open reading frame 46
0,726482525	0,02007	0,944747041	0,52373	C5orf53	chromosome 5 open reading frame 53
1,209994089	0,03839	1,000693387	0,98139	C5orf56	chromosome 5 open reading frame 56
1,245737416	0,01408	1,069547088	0,09781	C5orf63	chromosome 5 open reading frame 63
1,241427492	0,04585	0,997231251	0,97155	C6orf115	chromosome 6 open reading frame 115
1,190856849	0,02425	1,076240125	0,13397	C6orf123	chromosome 6 open reading frame 123
0,498615626	0,00013	0,961260928	0,75143	C6orf15	chromosome 6 open reading frame 15
1,350037985	0,03217	1,124278924	0,06107	C6orf165	chromosome 6 open reading frame 165
0,803293997	0,0461	0,906261938	0,08747	C6orf35	chromosome 6 open reading frame 35
0,85027416	0,03565	0,905633983	0,1611	C6orf64	chromosome 6 open reading frame 64
1,209994089	0,03644	1,093535457	0,09828	C6orf97	chromosome 6 open reading frame 97
1,356604327	0,01328	1,152686347	0,06677	C7orf23	chromosome 7 open reading frame 23
1,265756594	0,02444	1,025267238	0,65675	C7orf44	chromosome 7 open reading frame 44
0,61429349	0,00103	0,767373048	0,05345	C7orf64	chromosome 7 open reading frame 64
1,340712592	0,01359	0,964598185	0,59118	C7orf69	chromosome 7 open reading frame 69
0,718470088	0,01347	0,891928519	0,09115	C7orf73	chromosome 7 open reading frame 73
1,262252032	0,03093	1,002776436	0,97019	C9orf167	chromosome 9 open reading frame 167
1,257013375	0,02536	1,066585781	0,39581	C9orf21	chromosome 9 open reading frame 21
1,20163605	0,0416	1,107264584	0,13181	C9orf4	chromosome 9 open reading frame 4
0,668037039	0,01952	0,952637998	0,41593	C9orf5	chromosome 9 open reading frame 5
1,622254311	0,01524	1,076986376	0,3239	C9orf91	chromosome 9 open reading frame 91
0,734584317	0,00752	0,877213549	0,11813	CA12	carbonic anhydrase XII
0,813943185	0,03651	0,836826243	0,08015	CAB39L	calcium binding protein 39-like
1,256142381	0,00824	1,043188594	0,31567	CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit
1,307671349	0,01199	1,098092814	0,16906	CACNB1	calcium channel, voltage-dependent, beta 1 subunit
0,713012859	0,01054	0,924663278	0,2304	CACNB3	calcium channel, voltage-dependent, beta 3 subunit
0,821310701	0,0455	0,967947027	0,61968	CADM4	cell adhesion molecule 4
1,599920257	0,00106	1,241427492	0,07183	CALCRL	calcitonin receptor-like
0,671751713	0,00769	0,784040454	0,0532	CALM1	calmodulin 1 (phosphorylase kinase, delta)
1,351910833	0,00507	1,104198847	0,12898	CALU	calumenin
1,190856849	0,04353	1,081474763	0,235	CAMK2A	calcium/calmodulin-dependent protein kinase II alpha
0,679714121	0,04271	0,958599438	0,73528	CAMSAP2	calmodulin regulated spectrin-associated protein family, member 2
0,621574834	0,00733	0,854409741	0,14545	CAMSAP3	calmodulin regulated spectrin-associated protein family, member 3
0,737134609	0,03013	0,862143545	0,26372	CAMSAP3	calmodulin regulated spectrin-associated protein family, member 3
1,396678532	0,0334	1,080725402	0,26221	CAND2	cullin-associated and neddylation-dissociated 2 (putative)
1,336074078	0,03288	1,074749173	0,14832	CANT1	calcium activated nucleotidase 1
1,388955136	0,00961	1,092777739	0,0975	CANT1	calcium activated nucleotidase 1
0,529609167	0,04279	0,866336856	0,10275	CAPG	capping protein (actin filament), gelsolin-like
0,672217497	0,01544	0,956608158	0,62491	CAPN3	calpain 3, (p94)
0,666187413	0,0085	1,011853201	0,8959	CAPN3	calpain 3, (p94)
0,804966138	0,02989	0,962594443	0,55528	CARD14	caspase recruitment domain family, member 14
0,701735863	0,03783	0,831622098	0,16284	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)
1,454980684	0,01413	1,044635763	0,6493	CASP8	caspase 8, apoptosis-related cysteine peptidase
0,778085177	0,02723	0,909408252	0,13153	CASZ1	castor zinc finger 1
0,585199321	0,00069	0,816203046	0,05659	CASZ1	castor zinc finger 1
0,667574152	0,00943	0,853817714	0,08488	CAT	catalase
0,675487042	0,00637	0,950000383	0,49656	CAV1	caveolin 1, caveolae protein, 22kDa
0,773782497	0,04453	0,917639882	0,1981	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2
1,216722359	0,0363	1,121166078	0,27589	CBLB	Cas-Br-M (murine) ecotropic retroviral transforming sequence b
0,620283649	0,00926	0,887611337	0,18577	CBLC	Cas-Br-M (murine) ecotropic retroviral transforming sequence c
1,31494276	0,0132	1,085981856	0,09736	CBS	cystathionine-beta-synthase
1,300440147	0,0146	1,078480432	0,46359	CBX4	chromobox homolog 4
1,194163187	0,0194	1,042465761	0,49788	CCDC169	coiled-coil domain containing 169
0,625898229	0,00262	0,860352631	0,12134	CCDC47	coiled-coil domain containing 47
1,224336392	0,02926	1,090507733	0,12898	CCDC50	coiled-coil domain containing 50
1,544350266	0,01789	0,967947027	0,7876	CCDC50	coiled-coil domain containing 50
0,607097442	0,00536	0,889458994	0,15243	CCDC56	coiled-coil domain containing 56
1,271031689	0,02627	1,104198847	0,09841	CCDC63	coiled-coil domain containing 63
1,235418637	0,04213	0,992404375	0,84918	CCDC66	coiled-coil domain containing 66
1,434949535	0,00072	0,994470169	0,94324	CCDC8	coiled-coil domain containing 8
1,151089491	0,04933	0,948684315	0,5999	CCDC85B	coiled-coil domain containing 85B
1,20664392	0,02594	1,047536127	0,50786	CCL16	chemokine (C-C motif) ligand 16
0,770037174	0,01811	0,899378312	0,0525	CCL28	chemokine (C-C motif) ligand 28
2,100889088	0,0002	1,203303026	0,09065	CCL8	chemokine (C-C motif) ligand 8
1,394743666	0,00627	1,001387256	0,98578	CCNJL	cyclin J-like
1,73748437	0,00541	1,159095952	0,20892	CCNYL1	cyclin Y-like 1
1,59549048	0,0062	1,182631	0,25266	CCNYL1	cyclin Y-like 1
1,358486285	0,03289	1,218410264	0,05331	CCR5	chemokine (C-C motif) receptor 5
0,736113431	0,04932	0,91319825	0,15696	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)
1,338855257	0,0089	1,107264584	0,10677	CD160	CD160 molecule
1,262252032	0,01301	1,064370182	0,16177	CD1D	CD1d molecule
1,215036792	0,00639	1,10343374	0,09816	CD40LG	CD40 ligand
0,693515485	0,01246	0,877213549	0,09315	CD44	CD44 molecule (Indian blood group)
0,679714121	0,0261	1,071773463	0,31485	CD47	CD47 molecule
1,479387509	0,00182	1,203303026	0,0795	CD48	CD48 molecule
1,318593614	0,02512	1,110338834	0,22457	CD6	CD6 molecule
1,21167266	0,04436	1,123499903	0,07888	CD70	CD70 molecule
1,278985581	0,00336	1,126619228	0,09533	CD86	CD86 molecule
1,308578071	0,01022	1,240567298	0,07396	CD86	CD86 molecule
1,17772279	0,0393	1,102669163	0,1206	CD8B	CD8b molecule
0,7031966	0,00248	0,821310701	0,07385	CD9	CD9 molecule
0,842062954	0,03977	1,057750964	0,22124	CDC25C	cell division cycle 25 homolog C (S. pombe)
1,366987452	0,00214	1,128182137	0,06086	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)
1,636938363	0,01538	1,256142381	0,08776	CDC42SE2	CDC42 small effector 2
0,615999037	0,0427	0,763129604	0,10526	CDC5L	CDC5 cell division cycle 5-like (S. pombe)
0,70759708	0,02232	0,790589117	0,14037	CDCP1	CUB domain containing protein 1
1,178539408	0,02941	1,094293701	0,15025	CDH11	cadherin 11, type 2, OB-cadherin (osteoblast)
1,17609125	0,032	1,118061851	0,06462	CDH6	cadherin 6, type 2, K-cadherin (fetal kidney)

1,169587664	0,03465	0,972654947	0,58001	CDH8	cadherin 8, type 2
0,814507563	0,03749	0,901250463	0,18596	CDHR1	cadherin-related family member 1
1,374588696	0,02919	1,108800644	0,23536	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
1,223488041	0,04546	1,034547582	0,45304	CDKN2A	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
0,701249625	0,00456	0,727490342	0,06594	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
1,183451022	0,03108	0,948026965	0,24339	CDNF	cerebral dopamine neurotrophic factor
1,221793102	0,03162	1,080725402	0,20004	CDO1	cysteine dioxygenase, type I
1,297738767	0,03401	1,109569472	0,0567	CDRT4	CMT1A duplicated region transcript 4
0,262065619	0,00155	0,671751713	0,11198	CDSN	corneodesmosin
0,765248385	0,04239	0,917639882	0,27338	CDT1	chromatin licensing and DNA replication factor 1
0,581963267	0,01158	0,833931044	0,08723	CEBPA	CCAAT/enhancer binding protein (C/EBP), alpha
1,681792831	0,00212	1,221793102	0,06086	CELF2	CUGBP, Elav-like family member 2
1,309485423	0,02072	1,114966219	0,11861	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)
0,614719434	0,00064	0,891928519	0,06037	CENPF	centromere protein F, 350/400kDa (mitosin)
1,182631	0,03545	1,064370182	0,32816	CEP128	centrosomal protein 128kDa
1,667862088	0,00648	1,062159186	0,40976	CEP128	centrosomal protein 128kDa
1,292352831	0,01796	1,117287138	0,12475	CEP68	centrosomal protein 68kDa
0,600818025	0,00865	0,935623498	0,53564	CERS3	ceramide synthase 3
1,260503392	0,03952	1,083725967	0,206	CFHR4	complement factor H-related 4
1,501079098	0,00342	1,106497353	0,20397	CFLAR	CASP8 and FADD-like apoptosis regulator
1,486582984	0,03794	0,898132373	0,20716	CHAC2	ChaC, cation transport regulator homolog 2 (E. coli)
1,145517898	0,0343	1,038859103	0,43294	CHDH	choline dehydrogenase
1,190031696	0,04555	1,088242442	0,164	CHKA	choline kinase alpha
0,794985251	0,0421	0,890692901	0,07504	CHML	choroideremia-like (Rab escort protein 2)
1,453972517	0,02719	1,143138335	0,11723	CHN2	chimerin (chimaerin) 2
0,607518396	0,00239	0,870550563	0,18585	CHP2	calcineurin B homologous protein 2
1,397646972	0,01372	1,0132569	0,82954	CHPT1	choline phosphotransferase 1
2,122846418	0,02709	1,204137381	0,27229	CHRDL1	chordin-like 1
0,632878297	0,00938	0,876605721	0,18345	CHRNA3	cholinergic receptor, nicotinic, alpha 3
1,223488041	0,03116	1,092020546	0,07714	CHRNA4	cholinergic receptor, nicotinic, alpha 4
1,454980684	0,01119	1,108032348	0,05747	CHST4	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 4
1,345367209	0,01447	1,133669413	0,08434	CHST7	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7
0,756808396	0,03681	0,931740429	0,17595	CINP	cyclin-dependent kinase 2 interacting protein
0,62676651	0,00335	0,886381699	0,26306	CKB	creatine kinase, brain
1,293248932	0,01349	1,209994089	0,07323	CKLF	chemokine-like factor
0,768970416	0,01167	0,921464186	0,22345	CLASP1	cytoplasmic linker associated protein 1
1,401527449	0,03795	1,125838586	0,18762	CLC	Charcot-Leyden crystal protein
0,541487523	0,01915	0,843815796	0,1695	CLCA2	chloride channel accessory 2
1,332374825	0,00334	1,106497353	0,11935	CLCNKB	chloride channel Kb
0,712518807	0,03992	0,668500248	0,09721	CLDN17	claudin 17
1,227735684	0,0223	1,042465761	0,45181	CLDN6	claudin 6
0,801069878	0,03613	1,009051634	0,85733	CLDN6	claudin 6
0,643940815	0,03121	0,804966138	0,22386	CLDND1	claudin domain containing 1
1,279872414	0,03408	1,080725402	0,32026	CLEC2D	C-type lectin domain family 2, member D
1,379360922	0,01397	1,131314463	0,1341	CLEC2D	C-type lectin domain family 2, member D
1,255271991	0,02988	1,097331938	0,15526	CLEC4A	C-type lectin domain family 4, member A
1,53261996	0,04806	1,070288698	0,50558	CLIC5	chloride intracellular channel 5
1,390881972	0,01086	1,057750964	0,39235	CLIP3	CAP-GLY domain containing linker protein 3
0,461371246	0,01663	0,843815796	0,07192	CLTB	clathrin, light chain B
1,787570325	0,003	1,261377409	0,0942	CMAHP	cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene
1,180174343	0,04684	1,047536127	0,38363	CMTM1	CKLF-like MARVEL transmembrane domain containing 1
0,815637493	0,04322	0,938221197	0,4873	CNKSR3	CNKSR family member 3
1,167158102	0,0448	1,040300267	0,4667	CNNM1	cyclin M1
0,770037174	0,02133	0,940174203	0,67737	CNOT1	CCR4-NOT transcription complex, subunit 1
0,715984371	0,03326	0,938871747	0,12558	CNOT1	CCR4-NOT transcription complex, subunit 1
0,684441907	0,00888	0,803850991	0,05656	CNOT7	CCR4-NOT transcription complex, subunit 7
1,605474777	0,02394	1,072516617	0,3956	CNR1	cannabinoid receptor 1 (brain)
0,717972255	0,01475	0,842062954	0,085	CNST	consortin, connexin sorting protein
1,215036792	0,03176	1,101905116	0,27085	CNTLN	centlein, centrosomal protein
1,214194884	0,02936	1,074749173	0,21971	CNTN4	contactin 4
0,814507563	0,02194	0,877821798	0,05914	COG2	component of oligomeric golgi complex 2
0,813379198	0,04456	1,00486382	0,9366	COG4	component of oligomeric golgi complex 4
1,505246747	0,03818	1,184271612	0,07299	COL4A4	collagen, type IV, alpha 4
0,645281245	0,0038	0,922742493	0,29669	COL7A1	collagen, type VII, alpha 1
0,700763725	0,00051	0,881480158	0,05011	COMMD1	copper metabolism (Murr1) domain containing 1
0,78024548	0,02194	0,922103118	0,25638	COMMD5	COMM domain containing 5
0,342933322	0,00693	0,79774524	0,36768	COMP	cartilage oligomeric matrix protein
1,205807828	0,02283	1,047536127	0,46689	COQ10A	coenzyme Q10 homolog A (S. cerevisiae)
0,743806881	0,0407	0,834509281	0,06588	COX16	COX16 cytochrome c oxidase assembly homolog (S. cerevisiae)
1,270150983	0,03422	1,050444544	0,43322	COX18	COX18 cytochrome c oxidase assembly homolog (S. cerevisiae)
0,664342907	0,03229	0,925946023	0,12796	COX6B1	cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)
1,208317843	0,02486	1,119612889	0,09879	CPAMD8	C3 and PZP-like, alpha-2-macroglobulin domain containing 8
1,42800398	0,04518	1,031683179	0,76578	CPEB4	cytoplasmic polyadenylation element binding protein 4
0,7944344	0,01273	0,936921447	0,40906	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa
0,676424116	0,02706	0,865736566	0,09611	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa
1,225185332	0,02208	1,017479692	0,72229	CPSF4	cleavage and polyadenylation specific factor 4, 30kDa
1,196648963	0,02874	1,070288698	0,14584	CPT1A	carnitine palmitoyltransferase 1A (liver)
0,682546859	0,03139	0,84264683	0,20516	CREB1	cAMP responsive element binding protein 1
1,901318202	0,00916	1,016070143	0,90978	CREM	cAMP responsive element modulator
1,217566019	0,01224	0,979420298	0,65137	CRHR1	corticotropin releasing hormone receptor 1
1,316766922	0,03225	1,034547582	0,63529	CRTAM	cytotoxic and regulatory T cell molecule
1,336074078	0,00654	1,079228237	0,33807	CRYBA4	crystallin, beta A4
1,225185332	0,0476	1,046810282	0,4327	CRYGD	crystallin, gamma D
0,645281245	0,00721	0,920825697	0,23689	CSDE1	cold shock domain containing E1, RNA-binding
1,246601194	0,01348	1,084477409	0,31869	CSF2RA	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
0,660211421	0,01523	0,840313752	0,05113	CSNK1G3	casein kinase 1, gamma 3
0,737134609	0,04804	0,890075733	0,12355	CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa
1,513616793	0,04368	0,997231251	0,96982	CTBS	chitobiase, di-N-acetyl-
0,69495911	0,00144	0,931740429	0,27751	CTDSPL	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase-like
0,738157203	0,01158	0,946713631	0,3397	CTPS2	CTP synthase II
0,544121221	0,01602	0,76418826	0,07982	CTTNBP2NL	CTTNBP2 N-terminal like
0,749499801	0,03866	0,929804943	0,41852	CUL2	cullin 2
0,736623843	0,03252	0,96727633	0,74064	CUL4B	cullin 4B
0,628071191	0,01868	0,898132373	0,13567	CUX1	cut-like homeobox 1
1,264003098	0,00694	1,036701101	0,40123	CUX2	cut-like homeobox 2
0,421907898	0,00063	0,76684133	0,22404	CXADR	coxsackie virus and adenovirus receptor
2,703821666	0,00187	1,356604327	0,13501	CXCL2	chemokine (C-X-C motif) ligand 2
1,811267966	0,00976	1,077733145	0,68889	CXCL3	chemokine (C-X-C motif) ligand 3
2,347296357	0,01128	1,197478705	0,14791	CXCL5	chemokine (C-X-C motif) ligand 5
1,234562607	0,02183	1,111879158	0,07472	CXCR6	chemokine (C-X-C motif) receptor 6
1,237990291	0,02152	1,056285625	0,14222	CXCR7	chemokine (C-X-C motif) receptor 7
1,486582984	0,03828	1,174461971	0,08523	CXXC5	CXXC finger protein 5
1,540074348	0,02362	1,119612889	0,18856	CXXC5	CXXC finger protein 5
1,229438867	0,04484	1,066585781	0,37971	CYP27B1	cytochrome P450, family 27, subfamily B, polypeptide 1
1,469168633	0,00376	0,997231251	0,97088	CYP2A13	cytochrome P450, family 2, subfamily A, polypeptide 13
0,670821112	0,0072	0,823020345	0,06967	CYP2C9	cytochrome P450, family 2, subfamily C, polypeptide 9
1,150291893	0,04403	0,972654947	0,75923	CYP2E1	cytochrome P450, family 2, subfamily E, polypeptide 1
0,652929894	0,00006	0,943438251	0,39463	CYP39A1	cytochrome P450, family 39, subfamily A, polypeptide 1
1,53581027	0,02313	1,20664392	0,19994	CYSLTR1	cysteinyl leukotriene receptor 1
1,2397077	0,03303	1,090507733	0,07195	CYSLTR2	cysteinyl leukotriene receptor 2
1,358486285	0,0256	1,215036792	0,1251	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
1,242288282	0,01362	1,091263877	0,16219	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
1,254402205	0,03203	1,040300267	0,37918	DACH1	dachshund homolog 1 (Drosophila)
1,246601194	0,00396	1,096571589	0,19802	DACT3	dapper, antagonist of beta-catenin, homolog 3 (Xenopus laevis)
0,794985251	0,01621	0,971980988	0,66119	DAGLB	diacylglycerol lipase, beta
0,756283999	0,04398	0,906890329	0,17033	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides
0,731028724	0,04918	0,939522749	0,22734	DAZAP1	DAZ associated protein 1
1,450952208	0,03519	1,099616149	0,07001	DAZL	deleted in azoospermia-like
0,564482202	0,00945	0,76684133	0,07715	DBT	dihydrolipoamide branched chain transacylase E2
0,775393206	0,0476	0,880869374	0,07214	DCAF10	DDB1 and CUL4 associated factor 10
0,772175133	0,01776	0,951318276	0,42587	DCAF5	DDB1 and CUL4 associated factor 5
1,348167732	0,02315	1,090507733	0,28734	DCAF8	DDB1 and CUL4 associated factor 8
0,763129604	0,02476	0,909408252	0,12871	DCLRE1C	DNA cross-link repair 1C
0,284795844	0,01289	0,584388624	0,05082	DCT	dopachrome tautomerase (dopachrome delta-isomerase, tyrosine-related protein 2)
0,289974914	0,00119	0,771105413	0,16723	DCT	dopachrome tautomerase (dopachrome delta-isomerase, tyrosine-related protein 2)
0,419574819	0,00342	0,885153765	0,17463	DCT	dopachrome tautomerase (dopachrome delta-isomerase, tyrosine-related protein 2)
0,666187413	0,01944	0,883927531	0,13048	DDAH2	dimethylarginine dimethylaminohydrolase 2
0,578344092	0,03757	0,919550046	0,3122	DDAH2	dimethylarginine dimethylaminohydrolase 2
1,586667686	0,0356	1,125838586	0,19596	DDHD1	DDHD domain containing 1
0,590087172	0,01813	0,85797053	0,0702	DDR1	discoidin domain receptor tyrosine kinase 1
0,60332196	0,01571	0,920187651	0,25201	DDR1	discoidin domain receptor tyrosine kinase 1
0,62546454	0,02615	0,8962667	0,15208	DDR1	discoidin domain receptor tyrosine kinase 1
0,79774524	0,03712	0,901250463	0,21006	DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11
0,697371833	0,02739	0,878430468	0,05215	DDX27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27
0,795536484	0,0491	0,855595026	0,08848	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
0,807201075	0,04802	0,932386486	0,22704	DDX6	DEAD (Asp-Glu-Ala-Asp) box polypeptide 6
1,21167266	0,04933	1,096571589	0,0942	DENND5B	DENN/MADD domain containing 5B
0,804408371	0,03038	0,890075733	0,11837	DGCR2	DiGeorge syndrome critical region gene 2
0,821880187	0,03332	0,986232704	0,82414	DHRS7B	dehydrogenase/reductase (SDR family) member 7B
0,731028724	0,02915	0,931740429	0,29726	DHX57	DEAH (Asp-Glu-Ala-Asp/His) box polypeptide 57
0,733058379	0,02398	0,920825697	0,34771	DIDO1	death inducer-obliterator 1
0,749499801	0,01663	0,829894586	0,13454	DIO2	deiodinase, iodothyronine, type II
0,691116103	0,01631	0,87175824	0,12579	DIS3	DIS3 mitotic control homolog (S. cerevisiae)
0,710546022	0,00334	0,906261938	0,11159	DIS3L2	DIS3 mitotic control homolog (S. cerevisiae)-like 2
1,202469249	0,02042	0,995159722	0,9259	DKFZp451A21	DKFZp451A211 protein
0,754712984	0,01737	0,920187651	0,11049	DLG2	discs, large homolog 2 (Drosophila)
0,637722196	0,00162	0,831622098	0,07184	DLX5	distal-less homeobox 5
1,136816973	0,04758	1,047536127	0,22877	DMRT2	doublesex and mab-3 related transcription factor 2

1,240567298	0,02315	1,055553718	0,27931	DNAH1	dynein, axonemal, heavy chain 1
1,182631	0,04752	1,043911927	0,30389	DNAH5	dynein, axonemal, heavy chain 5
1,277213759	0,00292	1,057018041	0,50433	DNAJB5	DnaJ (Hsp40) homolog, subfamily B, member 5
1,20664392	0,0285	1,018891197	0,72563	DNAJC14	DnaJ (Hsp40) homolog, subfamily C, member 14
1,322254605	0,01988	1,016070143	0,82282	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3
1,251796459	0,01424	1,083725967	0,17579	DNAJC5B	DnaJ (Hsp40) homolog, subfamily C, member 5 beta
1,264003098	0,0327	1,00765376	0,91573	DNALI1	dynein, axonemal, light intermediate chain 1
0,829894586	0,04589	0,947370071	0,27705	DNASE1	deoxyribonuclease I
0,844400887	0,02579	0,982139595	0,84501	DOCK1	dedicator of cytokinesis 1
0,810003474	0,02563	1,041021598	0,54137	DOCK6	dedicator of cytokinesis 6
1,281647924	0,02116	1,084477409	0,05703	DOCK8	dedicator of cytokinesis 8
1,719512972	0,01015	1,22010051	0,10362	DOCK8	dedicator of cytokinesis 8
1,281647924	0,02731	1,142346247	0,15933	DOCK9	dedicator of cytokinesis 9
1,143138335	0,04376	1,018891197	0,65573	DOHH	deoxyhypusine hydroxylase/monooxygenase
1,286989247	0,03084	1,009051634	0,92708	DOK1	docking protein 1, 62kDa (downstream of tyrosine kinase 1)
1,231998073	0,01683	1,033114388	0,61572	DPP7	dipeptidyl-peptidase 7
1,344434994	0,0361	0,922103118	0,11635	DPY19L4	dpy-19-like 4 (C. elegans)
1,220946513	0,04927	1,021012126	0,72296	DSCAM	Down syndrome cell adhesion molecule
1,194163187	0,04268	1,017479692	0,66573	DSCR6	Down syndrome critical region gene 6
0,764718139	0,02183	1,172834949	0,09975	DST	dystonin
0,643048742	0,0122	0,955945318	0,55856	DST	dystonin
0,436181353	0,00109	0,786217292	0,12123	DST	dystonin
1,286989247	0,02111	1,068805991	0,3772	DTNBP1	dystrobrevin binding protein 1
1,626758396	0,04653	1,325007017	0,05677	DUOX2	dual oxidase 2
1,625631204	0,0024	1,085229372	0,5768	DUSP1	dual specificity phosphatase 1
1,783857039	0,00198	1,204972315	0,14862	DUSP6	dual specificity phosphatase 6
1,823866331	0,00116	1,226884977	0,11394	DUSP6	dual specificity phosphatase 6
1,589970502	0,0083	1,074004472	0,51778	DUSP6	dual specificity phosphatase 6
1,229438867	0,03936	1,038139271	0,58553	DUSP9	dual specificity phosphatase 9
0,736623843	0,02454	0,938871747	0,24412	DYNLRB1	dynein, light chain, roadblock-type 1
1,212512819	0,01736	1,022428531	0,77207	DYRK3	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3
1,225185332	0,04992	1,001387256	0,98146	E2F5	E2F transcription factor 5, p130-binding
1,341642225	0,04644	0,986916546	0,83737	ECHDC3	enoyl CoA hydratase domain containing 3
0,808320869	0,03903	1,00695555	0,84824	EEF1A1	eukaryotic translation elongation factor 1 alpha 1
0,84323111	0,03211	1,054822317	0,32048	EFCAB6	EF-hand calcium binding domain 6
1,375541818	0,04321	1,165541198	0,11387	EFHD1	EF-hand domain family, member D1
1,478362431	0,024	1,326845141	0,06389	EGFR	epidermal growth factor receptor
2,061936638	0,01124	1,447938172	0,17309	EGR1	early growth response 1
1,464085696	0,00576	1,316766922	0,06291	EGR1	early growth response 1
1,658639092	0,04049	1,036701101	0,80802	EGR2	early growth response 2
1,245737416	0,03819	1,038859103	0,67249	EHD3	EH-domain containing 3
1,285206337	0,02171	1,057750964	0,21615	EID2B	EP300 interacting inhibitor of differentiation 2B
1,706452196	0,00939	1,160703914	0,15475	EIF2AK3	eukaryotic translation initiation factor 2-alpha kinase 3
0,816768991	0,04461	0,935623498	0,09975	EIF2B3	eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa
0,793333843	0,02316	0,965936329	0,56364	EIF2B4	eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa
0,79774524	0,02082	0,948026965	0,28329	EIF3L	eukaryotic translation initiation factor 3, subunit L
0,758383773	0,00156	1,033114388	0,56268	EIF4E2	eukaryotic translation initiation factor 4E family member 2
0,679714121	0,03356	0,942784536	0,42352	EIF4E2	eukaryotic translation initiation factor 4E family member 2
0,735603373	0,01335	0,893785162	0,17335	EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2
0,577542892	0,03672	0,831622098	0,05678	EIF4G1	eukaryotic translation initiation factor 4 gamma, 1
0,582366793	0,04874	0,891928519	0,16313	EIF6	eukaryotic translation initiation factor 6
2,146520573	0,00099	1,320422841	0,05517	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)
0,535515412	0,00505	0,787307977	0,2039	ELF5	E74-like factor 5 (ets domain transcription factor)
1,251796459	0,03573	1,137605228	0,05466	ELL	elongation factor RNA polymerase II
1,221793102	0,02941	0,948684315	0,33683	ELOVL5	ELOVL fatty acid elongase 5
0,81056512	0,00459	0,902500727	0,20155	ELP4	elongation protein 4 homolog (S. cerevisiae)
1,188383105	0,03738	1,035982764	0,54225	ELSPBP1	epididymal sperm binding protein 1
1,238848698	0,01513	1,141554707	0,05265	EMID1	EMI domain containing 1
0,70514898	0,01586	0,951977908	0,69814	EMILIN3	elastin microfibril interfacer 3
0,558256481	0,01106	0,838568184	0,24128	EML4	echinoderm microtubule associated protein like 4
0,674551267	0,02933	0,945402117	0,4164	EMP2	epithelial membrane protein 2
1,33422317	0,01465	1,121943481	0,07688	EMR3	egf-like module containing, mucin-like, hormone receptor-like 3
1,199971382	0,04406	1,025978145	0,54832	EN2	engrailed homeobox 2
1,256142381	0,02596	1,053361036	0,46327	ENAM	enamelin
1,21167266	0,03755	1,106497353	0,23155	ENC1	ectodermal-neural cortex 1 (with BTB-like domain)
0,79774524	0,00797	0,890692901	0,15231	ENDOV	endonuclease V
1,570256237	0,00577	1,462057448	0,07942	ENPEP	glutamyl aminopeptidase (aminopeptidase A)
1,440929749	0,00408	1,074004472	0,17137	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative)
0,768970416	0,02392	0,938871747	0,22475	ENY2	enhancer of yellow 2 homolog (Drosophila)
1,215036792	0,02004	1,035982764	0,5011	EPAS1	endothelial PAS domain protein 1
0,782954296	0,04873	1,014662547	0,86538	EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked)
0,749499801	0,00164	0,930449658	0,26182	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B
1,212512819	0,03774	1,0453601	0,54668	EPHA10	EPH receptor A10
0,541487523	0,01418	0,89564567	0,13488	EPHA4	EPH receptor A4
1,30224419	0,04044	1,140763716	0,24542	EPHA7	EPH receptor A7
1,780151467	0,02477	1,371733289	0,08668	EPHA7	EPH receptor A7
1,701727459	0,01654	1,20163605	0,35248	EPHA7	EPH receptor A7
0,521594297	0,01222	0,860352631	0,18341	EPHB6	EPH receptor B6
0,658839976	0,00709	0,886996305	0,14367	EPN2	epsin 2
1,350037985	0,00232	1,057750964	0,27443	EPO	erythropoietin
1,420107359	0,00971	1,190856849	0,15995	ERAP1	endoplasmic reticulum aminopeptidase 1
1,200803427	0,03295	1,033114388	0,61998	ERAP2	endoplasmic reticulum aminopeptidase 2
1,607701981	0,00086	1,147902414	0,12045	ERGIC1	endoplasmic reticulum-golgi intermediate compartment (ERGiC) 1
1,551861709	0,00658	1,198309021	0,11407	ERN1	endoplasmic reticulum to nucleus signaling 1
1,284315809	0,02182	1,025267238	0,58106	ESR2	estrogen receptor 2 (ER beta)
1,197478705	0,0398	0,957271458	0,24679	ESRRG	estrogen-related receptor gamma
0,686342216	0,0477	0,903752727	0,50098	ETS2	v-ets erythroblastosis virus E26 oncogene homolog 2 (avian)
1,232852325	0,03116	0,997231251	0,96399	ETV1	ets variant 1
0,747424624	0,02304	1,00765376	0,87525	EXOC4	exocyst complex component 4
0,436483796	0,00253	0,851453708	0,28422	EXOC6B	exocyst complex component 6B
1,327765158	0,00423	1,152686347	0,0883	EXOG	endo/exonuclease (5'-3'), endonuclease G-like
1,223488041	0,02017	1,065108203	0,36664	EZH1	enhancer of zeste homolog 1 (Drosophila)
0,532923368	0,03267	0,807201075	0,05041	EZR	ezrin
1,214194884	0,03705	1,032398535	0,44553	F2RL2	coagulation factor II (thrombin) receptor-like 2
1,376495602	0,00445	1,102669163	0,10544	F5	coagulation factor V (proaccelerin, labile factor)
1,634670657	0,01671	1,108800644	0,32944	FAM101B	family with sequence similarity 101, member B
0,683020128	0,03193	0,839149637	0,27858	FAM108B1	family with sequence similarity 108, member B1
0,733566672	0,02767	0,891928519	0,28082	FAM115C	family with sequence similarity 115, member C
1,257013375	0,02621	1,086734863	0,15768	FAM118A	family with sequence similarity 118, member A
1,20163605	0,03815	1,123499903	0,07598	FAM120AOS	family with sequence similarity 120A opposite strand
1,316766922	0,03597	1,140763716	0,05912	FAM123A	family with sequence similarity 123A
1,268391399	0,01791	1,136029265	0,05228	FAM123A	family with sequence similarity 123A
1,196648963	0,04317	1,051172909	0,48196	FAM123B	family with sequence similarity 123B
1,314031627	0,02298	1,134455485	0,05671	FAM129C	family with sequence similarity 129, member C
0,671286251	0,00032	0,911933166	0,15752	FAM134B	family with sequence similarity 134, member B
1,247465572	0,01197	1,105730653	0,10656	FAM149A	family with sequence similarity 149, member A
1,28788163	0,01604	1,131314463	0,09198	FAM149A	family with sequence similarity 149, member A
1,303147149	0,02753	1,121166078	0,05837	FAM176A	family with sequence similarity 176, member A
0,825877665	0,04999	1,042465761	0,33452	FAM192A	family with sequence similarity 192, member A
1,20664392	0,04459	1,132883885	0,07781	FAM199X	family with sequence similarity 199, X-linked
1,284315809	0,01315	1,029540083	0,74964	FAM19A2	family with sequence similarity 19 (chemokine (C-C motif)-like), member A2
1,719512972	0,02278	1,116512962	0,20338	FAM20A	family with sequence similarity 20, member A
1,22010051	0,04332	1,092777739	0,06486	FAM22B	family with sequence similarity 22, member B
1,212512819	0,04851	1,083725967	0,30338	FAM22F	family with sequence similarity 22, member F
1,159095952	0,02814	1,038139271	0,48185	FAM26E	family with sequence similarity 26, member E
1,815038311	0,01801	1,058484395	0,59332	FAM26F	family with sequence similarity 26, member F
1,633537982	0,01153	1,108032348	0,32821	FAM26F	family with sequence similarity 26, member F
1,689972769	0,0132	1,000693387	0,99282	FAM26F	family with sequence similarity 26, member F
1,268391399	0,03383	0,995849753	0,93906	FAM49B	family with sequence similarity 49, member B
1,346300069	0,03117	1,061423209	0,24779	FAM50B	family with sequence similarity 50, member B
2,337554497	0,00038	1,229438867	0,07441	FAM55C	family with sequence similarity 55, member C
1,416175438	0,01416	1,202469249	0,06831	FAM69B	family with sequence similarity 69, member B
1,219255094	0,03048	1,100378609	0,18679	FAM69C	family with sequence similarity 69, member C
1,226884977	0,04785	1,028826708	0,51846	FAM75D1	family with sequence similarity 75, member D1
1,30224419	0,01654	0,980779004	0,75339	FAM82A1	family with sequence similarity 82, member A1
0,732042848	0,01565	0,832775771	0,06187	FAM83F	family with sequence similarity 83, member F
0,756808396	0,03186	0,910038824	0,45763	FAM84A	family with sequence similarity 84, member A
1,383190629	0,02937	1,021720083	0,74899	FAM96A	family with sequence similarity 96, member A
1,179356592	0,04131	0,961260928	0,35047	FANCC	Fanconi anemia, complementation group C
0,833931044	0,04166	0,948684315	0,23135	FANCI	Fanconi anemia, complementation group I
1,427014506	0,02119	1,149494848	0,13026	FAR2	fatty acyl CoA reductase 2
0,690158677	0,03889	0,931740429	0,20158	FARSB	phenylalanyl-tRNA synthetase, beta subunit
0,819036698	0,03843	0,89564567	0,0747	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed
1,22010051	0,02	1,048989328	0,40197	FBN3	fibrillin 3
0,825877665	0,02439	0,91383145	0,10212	FBXO22	F-box protein 22
0,665725807	0,02431	0,86934456	0,28211	FBXO28	F-box protein 28
1,215036792	0,01101	1,022428531	0,65697	FBXO40	F-box protein 40
1,172022284	0,04992	1,068065408	0,13909	FBXO41	F-box protein 41
0,806082831	0,01385	0,933679945	0,13204	FBXO42	F-box protein 42
0,824162085	0,04833	1,002776436	0,95865	FBXO42	F-box protein 42
1,463071221	0,00178	1,068805991	0,2501	FBXO6	F-box protein 6
0,76630998	0,02307	0,918912883	0,20644	FBXW12	F-box and WD repeat domain containing 12
1,225185332	0,02943	1,039579435	0,2724	FCAR	Fc fragment of IgA, receptor for
0,67877249	0,00797	0,934975198	0,52286	FCGBP	Fc fragment of IgG binding protein
0,616853585	0,0128	0,939522749	0,4746	FCHSD1	FCH and double SH3 domains 1
1,229438867	0,01006	1,132098902	0,11512	FCRL1	Fc receptor-like 1
1,313121125	0,0217	1,101905116	0,1211	FCRL1	Fc receptor-like 1
1,208317843	0,03527	1,092777739	0,06103	FCRL2	Fc receptor-like 2

1,191682575	0,04931	1,082975046	0,08258	FCRL2	Fc receptor-like 2
0,735093668	0,01732	0,905633983	0,18117	FDXR	ferredoxin reductase
0,831622098	0,04475	0,888226796	0,08	FEM1A	fem-1 homolog a (C. elegans)
0,635515845	0,01689	0,950659101	0,59943	FER	fer (fps/fes related) tyrosine kinase
0,790041312	0,02041	0,916368645	0,24318	FERMT1	fermitin family member 1
1,699369998	0,01084	1,070288698	0,38653	FGD2	FYVE, RhoGEF and PH domain containing 2
0,627201102	0,04044	0,925304428	0,58633	FGD6	FYVE, RhoGEF and PH domain containing 6
1,264879542	0,00745	0,999307093	0,98583	FGF14	fibroblast growth factor 14
0,684441907	0,01365	0,880259014	0,38893	FGFR2	fibroblast growth factor receptor 2
0,739181216	0,0069	0,915099168	0,13468	FHL2	four and a half LIM domains 2
0,770037174	0,01341	0,963261894	0,4891	FIG4	FIG4 homolog, SAC1 lipid phosphatase domain containing (S. cerevisiae)
0,622437118	0,04341	0,936272247	0,63764	FKBP5	FK506 binding protein 5
1,192508872	0,04269	1,010451446	0,83744	FKRP	fukutin related protein
0,298747801	0,01083	0,551334582	0,05571	FLG	filaggrin
1,172834949	0,04028	1,044635763	0,35546	FLJ35390	hypothetical LOC255031
1,193335743	0,02393	1,002081605	0,96484	FLJ41350	hypothetical LOC399806
0,658383461	0,04939	0,903752727	0,05072	FLNB	filamin B, beta
1,443929196	0,00734	1,240567298	0,08709	FLT1	fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
0,772175133	0,02269	0,905633983	0,19809	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2
0,817335328	0,02669	0,954621014	0,67796	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2
1,492778383	0,00344	1,215036792	0,11604	FMO3	flavin containing monooxygenase 3
1,748357241	0,02918	1,252664439	0,17866	FMO3	flavin containing monooxygenase 3
1,50733491	0,01929	1,083725967	0,15583	FNDC3B	fibronectin type III domain containing 3B
0,788400174	0,02325	0,955282936	0,61214	FNIP2	folliculin interacting protein 2
0,66342257	0,00883	0,865736566	0,1363	FNTB	farnesyltransferase, CAAX box, beta
4,293041146	0,00022	1,56049096	0,11185	FOS	FBJ murine osteosarcoma viral oncogene homolog
2,040609318	0,03332	1,170398641	0,62293	FOSB	FBJ murine osteosarcoma viral oncogene homolog B
1,370782805	0,0209	1,172022284	0,05731	FOXC2	forkhead box C2 (MFH-1, mesenchyme forkhead 1)
1,753211443	0,00645	1,210833084	0,09568	FOXF1	forkhead box F1
0,879039561	0,04656	0,980779004	0,68787	FOXP2	forkhead box P2
0,743806881	0,04178	1,079228237	0,30287	FRMPD1	FERM and PDZ domain containing 1
1,501079098	0,01233	1,157490217	0,1404	FRZB	frizzled-related protein
1,373636233	0,00216	1,050444544	0,22725	FTX	FTX transcript, XIST regulator (non-protein coding)
0,716977624	0,02999	0,8362464	0,06564	FUT2	fucosyltransferase 2 (secretor status included)
1,395710764	0,01605	1,031683179	0,57203	FUT4	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)
1,224336392	0,03376	1,102669163	0,06928	FXR2	fragile X mental retardation, autosomal homolog 2
0,753145233	0,0424	0,991029563	0,8751	FXYD3	FXYD domain containing ion transport regulator 3
0,71449707	0,0241	1,043188594	0,58231	FXYD3	FXYD domain containing ion transport regulator 3
1,265756594	0,0305	1,074004472	0,23794	FXYD7	FXYD domain containing ion transport regulator 7
1,417157397	0,00622	1,127400412	0,17867	FYB	FYN binding protein
1,578987773	0,04051	1,249196126	0,07189	FYN	FYN oncogene related to SRC, FGR, YES
1,185914499	0,02449	1,111108729	0,09944	FZD4	frizzled family receptor 4
0,709561678	0,04081	0,839149637	0,18303	GAB1	GRB2-associated binding protein 1
1,20163605	0,03509	1,030253954	0,75128	GABPB1	GA binding protein transcription factor, beta subunit 1
0,758383773	0,04885	1,018891197	0,76869	GABPB2	GA binding protein transcription factor, beta subunit 2
1,256142381	0,03855	1,016774673	0,72302	GABRR2	gamma-aminobutyric acid (GABA) receptor, rho 2
1,383190629	0,01573	1,232852325	0,15783	GADD45B	growth arrest and DNA-damage-inducible, beta
0,746389192	0,00552	0,915733686	0,21741	GAPVD1	GTPase activating protein and VPS9 domains 1
0,792234811	0,01202	0,965936329	0,54464	GARNL3	GTPase activating Rap/RanGAP domain-like 3
0,692074858	0,02638	1,008352455	0,85859	GAS5	growth arrest-specific 5 (non-protein coding)
0,696888619	0,03	0,994470169	0,90094	GAS5	growth arrest-specific 5 (non-protein coding)
1,640345822	0,00821	1,221793102	0,05544	GATA3	GATA binding protein 3
1,625631204	0,01209	1,135242102	0,05185	GBP5	guanylate binding protein 5
1,787570325	0,04462	1,126619228	0,11176	GBP5	guanylate binding protein 5
1,775222675	0,00601	1,068065408	0,54843	GCLM	glutamate-cysteine ligase, modifier subunit
1,894740141	0,04715	1,133669413	0,34464	GCLM	glutamate-cysteine ligase, modifier subunit
1,185914499	0,02641	1,001387256	0,97745	GCNT1	glucosaminyl (N-acetyl) transferase 1, core 2
0,630688704	0,00088	0,987600861	0,87058	GDA	guanine deaminase
1,382232207	0,01569	1,083725967	0,10998	GDF11	growth differentiation factor 11
0,666649339	0,01393	0,920825697	0,27806	GDPD2	glycerophosphodiester phosphodiesterase domain containing 2
0,68491649	0,01035	0,84264683	0,07268	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3
1,923854909	0,00185	1,071030823	0,65361	GEM	GTP binding protein overexpressed in skeletal muscle
0,715984371	0,00873	0,991716731	0,87066	GEMIN8	gem (nuclear organelle) associated protein 8
0,795536484	0,00503	0,933679945	0,24083	GFOD1	glucose-fructose oxidoreductase domain containing 1
0,752623374	0,02003	0,828170661	0,05237	GFOD2	glucose-fructose oxidoreductase domain containing 2
1,401527449	0,04047	1,172834949	0,05924	GIMAP1	GTPase, IMAP family member 1
2,093620564	0,00071	1,340712592	0,05936	GIMAP2	GTPase, IMAP family member 2
0,803850991	0,04303	0,934327347	0,35836	GINS2	GINS complex subunit 2 (Psf2 homolog)
0,775393206	0,04219	0,863938187	0,05418	GINS3	GINS complex subunit 3 (Psf3 homolog)
0,580754366	0,04511	0,854409741	0,08254	GJB5	gap junction protein, beta 5, 31.1kDa
1,418140036	0,01063	1,035264924	0,60053	GJD3	gap junction protein, delta 3, 31.9kDa
1,487613762	0,00312	1,236275261	0,1963	GLIPR1	GLI pathogenesis-related 1
1,356604327	0,03241	1,130530567	0,24757	GLIPR1	GLI pathogenesis-related 1
1,436940177	0,03108	1,079228237	0,57672	GLIPR1	GLI pathogenesis-related 1
1,566994374	0,03658	1,32592576	0,05737	GLIPR2	GLI pathogenesis-related 2
1,55293775	0,0036	1,064370182	0,41145	GLIS3	GLIS family zinc finger 3
0,763658749	0,01144	0,849096246	0,14343	GLOD4	glyoxalase domain containing 4
1,303147149	0,01298	1,106497353	0,10973	GLT1D1	glycosyltransferase 1 domain containing 1
0,777546036	0,02671	0,827596816	0,11005	GLUD1	glutamate dehydrogenase 1
0,661127303	0,01367	0,89564567	0,28469	GLUD1	glutamate dehydrogenase 1
0,804966138	0,03906	0,946057647	0,34923	GM2A	GM2 ganglioside activator
1,216722359	0,02909	1,113421618	0,06665	GNB1L	guanine nucleotide binding protein (G protein), beta polypeptide 1-like
0,710546022	0,03921	0,921464186	0,29998	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1
0,511214265	0,00841	0,740719899	0,05591	GNG12	guanine nucleotide binding protein (G protein), gamma 12
0,601651513	0,00281	0,863938187	0,07627	GNG12	guanine nucleotide binding protein (G protein), gamma 12
1,681792831	0,02547	1,241427492	0,10175	GNG2	guanine nucleotide binding protein (G protein), gamma 2
1,373636233	0,00659	0,993781093	0,96484	GNS	glucosamine (N-acetyl)-6-sulfatase
1,221793102	0,0453	1,0132569	0,7676	GORASP2	golgi reassembly stacking protein 2, 55kDa
1,385109468	0,04034	1,067325338	0,30877	GORASP2	golgi reassembly stacking protein 2, 55kDa
0,770037174	0,04036	0,860949188	0,05032	GPATCH1	G patch domain containing 1
0,578344092	0,00135	0,885153765	0,09293	GPNMB	glycoprotein (transmembrane) nmb
1,404444876	0,04093	1,07549439	0,32606	GPR110	G protein-coupled receptor 110
1,62788637	0,01365	1,251796459	0,10203	GPR171	G protein-coupled receptor 171
1,479387509	0,01322	1,030253954	0,7982	GPR18	G protein-coupled receptor 18
1,183451022	0,02315	1,076986376	0,17394	GPR32	G protein-coupled receptor 32
2,042024251	0,00982	1,400556321	0,05056	GPR34	G protein-coupled receptor 34
1,209994089	0,04265	1,051901779	0,21083	GPR45	G protein-coupled receptor 45
1,387030969	0,0194	1,055553718	0,32075	GPR64	G protein-coupled receptor 64
1,261377409	0,03912	1,076986376	0,30971	GPR68	G protein-coupled receptor 68
0,802737389	0,0367	0,984866443	0,78552	GPR78	G protein-coupled receptor 78
1,331451613	0,01506	1,060687741	0,20045	GPR84	G protein-coupled receptor 84
1,348167732	0,00972	1,033114388	0,58296	GPRIN3	GPRIN family member 3
0,50382688	0,00103	0,883315051	0,40303	GPX2	glutathione peroxidase 2 (gastrointestinal)
0,705637922	0,01438	0,868140228	0,07067	GRAMD3	GRAM domain containing 3
0,731028724	0,01583	0,946057647	0,41586	GRB7	growth factor receptor-bound protein 7
1,29056249	0,03125	1,010451446	0,8968	GRK5	G protein-coupled receptor kinase 5
1,219255094	0,01945	1,107264584	0,17957	GSDMB	gasdermin B
1,236275261	0,03345	1,053361036	0,39752	GSK3A	glycogen synthase kinase 3 alpha
1,188383105	0,03566	1,064370182	0,23176	GSK3B	glycogen synthase kinase 3 beta
0,673616788	0,01215	0,859160755	0,12819	GSPT1	G1 to S phase transition 1
1,304954948	0,0199	1,025978145	0,70742	GSR	glutathione reductase
0,801625329	0,03411	0,954621014	0,55109	GSTM3	glutathione S-transferase mu 3 (brain)
0,703684188	0,00626	0,910669834	0,06426	GTF3C1	general transcription factor IIIC, polypeptide 1, alpha 220kDa
1,187559666	0,03782	1,054822317	0,32514	GTPBP3	GTP binding protein 3 (mitochondrial)
1,227735684	0,01232	1,048262476	0,5862	GTPBP5	GTP binding protein 5 (putative)
0,405563578	0,02685	1,041021598	0,90077	H19	H19, imprinted maternally expressed transcript (non-protein coding)
0,455966583	0,00715	0,934327347	0,78768	H19	H19, imprinted maternally expressed transcript (non-protein coding)
0,784584098	0,04571	0,963261894	0,41126	HARS2	histidyl-tRNA synthetase 2, mitochondrial (putative)
1,818816504	0,04882	1,350974085	0,07656	HAS2	hyaluronan synthase 2
1,305859787	0,0029	1,050444544	0,31575	HAUS5	HAUS augmin-like complex, subunit 5
0,833931044	0,04266	0,924663278	0,10882	HBXIP	hepatitis B virus x interacting protein
0,752623374	0,01927	0,937571096	0,3158	HBXIP	hepatitis B virus x interacting protein
1,186736798	0,04537	1,048989328	0,39228	HCG9	HLA complex group 9 (non-protein coding)
0,815072332	0,02842	0,995159722	0,94981	HDAC10	histone deacetylase 10
0,775930854	0,01227	0,93109482	0,29246	HDAC8	histone deacetylase 8
0,811127156	0,0456	1,087488391	0,18705	HDAC8	histone deacetylase 8
0,785128119	0,04362	0,878430468	0,07138	HEATR2	HEAT repeat containing 2
1,348167732	0,02865	1,083725967	0,25834	HEG1	HEG homolog 1 (zebrafish)
1,247465572	0,0144	1,00695555	0,90038	HERC2P7	hect domain and RLD 2 pseudogene 7
0,68491649	0,04916	0,821880187	0,09606	HERC4	hect domain and RLD 4
1,511519928	0,01745	1,039579435	0,66253	HERC5	hect domain and RLD 5
1,340712592	0,00904	1,034547582	0,60803	HEXIM2	hexamethylene bis-acetamide inducible 2
1,604362333	0,04552	1,101141598	0,4794	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)
1,263127262	0,02893	1,182631	0,0668	HHLA3	HERV-H LTR-associating 3
0,793333843	0,02809	0,923382311	0,27518	HIP1R	huntingtin interacting protein 1 related
0,690158677	0,0085	0,918276162	0,38097	HIST2H2BE	histone cluster 2, H2be
1,17772279	0,03079	1,067325338	0,21652	HLA-DPB2	major histocompatibility complex, class II, DP beta 2 (pseudogene)
1,342572503	0,03367	0,999307093	0,99339	HMG20A	high mobility group 20A
0,822450069	0,04651	0,950659101	0,31813	HMGA2	high mobility group AT-hook 2
1,286097483	0,02407	1,081474763	0,06365	HNF4A	hepatocyte nuclear factor 4, alpha
0,734075318	0,01728	0,904379378	0,1743	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1
0,755759964	0,01936	0,972654947	0,57644	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
0,81056512	0,04576	0,89564567	0,16398	HNRNPUL2	heterogeneous nuclear ribonucleoprotein U-like 2
1,354724977	0,03406	1,118837101	0,07043	HOXA1	homeobox A1
1,4063932	0,0039	1,155886707	0,08159	HOXB4	homeobox B4
1,386069886	0,02094	1,085229372	0,2201	HOXD1	homeobox D1
1,271913007	0,03332	0,961927455	0,46864	HPS1	Hermansky-Pudlak syndrome 1
0,729004689	0,03096	0,886996305	0,29617	HR	hairless homolog (mouse)

1,266634254	0,03445	1,104198847	0,11155	HRASLS2	HRAS-like suppressor 2
1,205807828	0,02554	1,107264584	0,11796	HRC	histidine rich calcium binding protein
1,173648178	0,04281	1,090507733	0,16109	HRH3	histamine receptor H3
1,467133344	0,04738	0,809442217	0,24779	HS3ST1	heparan sulfate (glucosamine) 3-O-sulfotransferase 1
0,758909626	0,00085	0,816203046	0,05564	HSBP1	heat shock factor binding protein 1
0,743291492	0,03575	0,910669834	0,13768	HSD17B7	hydroxysteroid (17-beta) dehydrogenase 7
1,271913007	0,00463	1,085229372	0,252	HSPA1L	heat shock 70kDa protein 1-like
0,570777354	0,04387	0,841479482	0,09223	HSPA9	heat shock 70kDa protein 9 (mortalin)
1,204137381	0,035	1,064370182	0,2885	HSPC081	hypothetical LOC100286989
0,463936738	0,00007	0,807201075	0,26583	HTR3A	5-hydroxytryptamine (serotonin) receptor 3A
0,516199268	0,00256	0,880869374	0,44682	HTR3A	5-hydroxytryptamine (serotonin) receptor 3A
0,673616788	0,03858	0,929160674	0,2988	HYAL1	hyaluronoglucosaminidase 1
0,666187413	0,01352	0,907519155	0,36367	IDE	insulin-degrading enzyme
0,635956503	0,01592	0,844986384	0,10278	IDE	insulin-degrading enzyme
1,608816742	0,03066	1,113421618	0,29647	IDO1	indoleamine 2,3-dioxygenase 1
0,803293997	0,02803	0,886381699	0,05859	IFITM10	interferon induced transmembrane protein 10
1,346300069	0,00563	1,111879158	0,3272	IFNAR2	interferon (alpha, beta and omega) receptor 2
1,337000495	0,00614	1,014662547	0,77502	IFNG	interferon, gamma
1,540074348	0,02225	1,152686347	0,30674	IGF1	insulin-like growth factor 1 (somatomedin C)
0,527411159	0,00025	0,828744904	0,07664	IGFBP3	insulin-like growth factor binding protein 3
1,204972315	0,04949	1,061423209	0,13144	IGH@	immunoglobulin heavy locus
1,212512819	0,01764	1,071030823	0,20861	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
1,295042999	0,03415	1,252664439	0,06392	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
1,167158102	0,0339	1,030253954	0,448	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
1,203303026	0,02024	1,083725967	0,27913	IGK@	immunoglobulin kappa locus
0,649769531	0,01088	0,792234811	0,07407	IL13RA1	interleukin 13 receptor, alpha 1
1,48246701	0,03416	1,108032348	0,20045	IL15	interleukin 15
1,483494934	0,0015	1,152686347	0,05657	IL15RA	interleukin 15 receptor, alpha
1,295042999	0,02077	1,020304659	0,66836	IL17A	interleukin 17A
0,718470088	0,0043	0,961927455	0,4807	IL17B	interleukin 17B
1,952063522	0,00989	1,38991822	0,14716	IL1A	interleukin 1, alpha
0,738669032	0,01121	1,004167543	0,9542	IL1F10	interleukin 1 family, member 10 (theta)
1,541142217	0,02062	1,055553718	0,65511	IL33	interleukin 33
1,292352831	0,02928	1,178539408	0,06351	IL3RA	interleukin 3 receptor, alpha (low affinity)
1,689972769	0,00121	1,104198847	0,16791	IL5RA	interleukin 5 receptor, alpha
2,756810306	0,00525	1,677136369	0,05461	IL8	interleukin 8
0,62546454	0,01904	0,871154192	0,08472	IMP3	IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast)
0,844986384	0,0371	1,024556823	0,684	ING2	inhibitor of growth family, member 2
1,20163605	0,0374	0,971307496	0,63561	INHA	inhibin, alpha
1,262252032	0,03764	1,159899655	0,0607	INPP5D	inositol polyphosphate-5-phosphatase, 145kDa
0,652477474	0,04123	0,868742185	0,16196	INPP5F	inositol polyphosphate-5-phosphatase F
1,271913007	0,04659	1,025978145	0,72589	INSIG1	insulin induced gene 1
1,442928687	0,02731	0,862143545	0,1311	INSIG1	insulin induced gene 1
1,494849249	0,00535	1,212512819	0,10263	INSR	insulin receptor
0,531447837	0,00186	0,980099415	0,76108	IP6K2	inositol hexakisphosphate kinase 2
1,329607108	0,03396	1,055553718	0,46651	IQCB1	IQ motif containing B1
1,376495602	0,04244	1,051172909	0,51608	IQCB1	IQ motif containing B1
1,481439798	0,01245	1,00695555	0,95661	IQGAP2	IQ motif containing GTPase activating protein 2
0,740719899	0,0438	0,985549337	0,7267	IRF6	interferon regulatory factor 6
1,172022284	0,03539	0,988970916	0,86631	IRS4	insulin receptor substrate 4
1,844206236	0,00284	1,312211255	0,06802	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
1,308578071	0,01782	1,048262476	0,23734	ITGA8	integrin, alpha 8
0,819604608	0,03128	0,988970916	0,79876	ITGB5	integrin, beta 5
1,665551542	0,00578	1,204972315	0,16258	ITK	IL2-inducible T-cell kinase
1,244011653	0,02183	0,961927455	0,6663	ITPK1-AS1	ITPK1 antisense RNA 1 (non-protein coding)
0,713507253	0,02147	0,925946023	0,35946	ITPR3	inositol 1,4,5-trisphosphate receptor, type 3
0,727490342	0,04647	0,922103118	0,10695	ITPR3	inositol 1,4,5-trisphosphate receptor, type 3
0,796640096	0,01975	0,915099168	0,12974	ITPRIPL1	inositol 1,4,5-trisphosphate receptor interacting protein-like 1
1,441928871	0,01344	1,116512962	0,42467	JUN	jun proto-oncogene
1,540074348	0,03896	0,881480158	0,45613	JUN	jun proto-oncogene
0,677832163	0,01831	1,001387256	0,97244	KAT6A	K(lysine) acetyltransferase 6A
0,726482525	0,03038	0,936272247	0,27494	KAT7	K(lysine) acetyltransferase 7
1,209155676	0,04341	1,092020546	0,09352	KCNAB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1
1,212512819	0,04748	1,082224645	0,21457	KCNC2	potassium voltage-gated channel, Shaw-related subfamily, member 2
1,264003098	0,02727	1,043911927	0,57226	KCNC3	potassium voltage-gated channel, Shaw-related subfamily, member 3
1,212512819	0,04069	1,040300267	0,29388	KCNC4	potassium voltage-gated channel, Shaw-related subfamily, member 4
1,215036792	0,02088	1,108032348	0,221	KCND1	potassium voltage-gated channel, Shal-related subfamily, member 1
1,203303026	0,0159	1,101905116	0,0692	KCNE3	potassium voltage-gated channel, Isk-related family, member 3
1,586667686	0,01767	1,168777249	0,05744	KCNE4	potassium voltage-gated channel, Isk-related family, member 4
1,229438867	0,02968	1,07997656	0,14271	KCNG1	potassium voltage-gated channel, subfamily G, member 1
0,816203046	0,04172	0,891310496	0,14666	KCNG1	potassium voltage-gated channel, subfamily G, member 1
1,199971382	0,04122	0,982139595	0,6023	KCNIP4	Kv channel interacting protein 4
1,264879542	0,00708	1,040300267	0,31392	KCNJ10	potassium inwardly-rectifying channel, subfamily J, member 10
0,812252396	0,01142	0,898755127	0,0521	KCNJ12	potassium inwardly-rectifying channel, subfamily J, member 12
0,724973416	0,0464	0,901875378	0,1827	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15
1,275444392	0,04152	1,134455485	0,05453	KCNQ3	potassium voltage-gated channel, KQT-like subfamily, member 3
0,823591017	0,04572	0,86154616	0,17188	KCTD4	potassium channel tetramerisation domain containing 4
0,803293997	0,01814	0,959264119	0,45213	KDM5A	lysine (K)-specific demethylase 5A
0,683020128	0,01501	0,90312651	0,05485	KDM5B	lysine (K)-specific demethylase 5B
0,608783009	0,03935	0,796640096	0,09823	KDM6A	lysine (K)-specific demethylase 6A
1,250062303	0,01292	1,110338834	0,34913	KHSRP	KH-type splicing regulatory protein
1,310393404	0,01332	1,171210181	0,09436	KIAA0226L	KIAA0226-like
1,708819482	0,02717	1,285206337	0,0643	KIAA0226L	KIAA0226-like
0,792784137	0,02039	0,924022572	0,1917	KIAA0430	KIAA0430
1,203303026	0,04976	1,062895674	0,199	KIAA0748	KIAA0748
0,637280314	0,00216	0,866937564	0,09465	KIAA0754	KIAA0754
1,187559666	0,03497	1,068065408	0,25107	KIAA1024	KIAA1024
1,200803427	0,03928	1,063632673	0,12674	KIAA1045	KIAA1045
1,286097483	0,02986	0,968618189	0,50383	KIAA1324	KIAA1324
1,368883813	0,03154	0,944747041	0,64061	KIAA1370	KIAA1370
1,181811547	0,04528	1,033830736	0,4974	KIAA1456	KIAA1456
1,20664392	0,04379	1,028113827	0,59245	KIAA1456	KIAA1456
0,661127303	0,04509	0,902500727	0,33445	KIAA2018	KIAA2018
0,697855382	0,04698	0,852044095	0,11107	KIF1B	kinesin family member 1B
0,648869383	0,01738	0,843815796	0,09158	KIF1C	kinesin family member 1C
1,219255094	0,01655	1,037419937	0,56079	KIF25-AS1	KIF25 antisense RNA 1 (non-protein coding)
1,220946513	0,04295	1,071030823	0,24047	KIF5A	kinesin family member 5A
0,640823962	0,004	0,775393206	0,09321	KIF5B	kinesin family member 5B
1,163926534	0,03983	0,973329374	0,63004	KIF5C	kinesin family member 5C
0,717972255	0,0182	0,89688816	0,10581	KIFAP3	kinesin-associated protein 3
0,496202187	0,0202	1,002081605	0,98443	KIFC2	kinesin family member C2
0,639492791	0,00621	0,89688816	0,12352	KIFC2	kinesin family member C2
1,298638603	0,02168	1,101905116	0,09393	KLF12	Kruppel-like factor 12
1,367935304	0,01749	1,132098902	0,1453	KLF15	Kruppel-like factor 15
0,660669203	0,02865	0,999307093	0,99509	KLF3	Kruppel-like factor 3 (basic)
0,534032704	0,01389	0,669427628	0,08084	KLF3	Kruppel-like factor 3 (basic)
1,200803427	0,04393	1,0181852	0,81578	KLF9	Kruppel-like factor 9
1,484523571	0,0482	1,063632673	0,587	KLHDC1	kelch domain containing 1
0,702222438	0,0258	0,939522749	0,47294	KLHDC5	kelch domain containing 5
1,376495602	0,00782	0,988285652	0,89846	KLHDC8A	kelch domain containing 8A
0,79774524	0,02437	1,056285625	0,51847	KLHL12	kelch-like 12 (Drosophila)
0,576742803	0,00096	0,790041312	0,06907	KLHL18	kelch-like 18 (Drosophila)
1,232852325	0,04617	0,998614666	0,97435	KLHL26	kelch-like 26 (Drosophila)
1,660940048	0,00001	1,220946513	0,05951	KLHL6	kelch-like 6 (Drosophila)
0,558256481	0,01043	0,891928519	0,38765	KLK12	kallikrein-related peptidase 12
0,633317127	0,00955	0,822450069	0,14662	KLK12	kallikrein-related peptidase 12
0,573951207	0,02155	0,868140228	0,30558	KLK12	kallikrein-related peptidase 12
0,555554364	0,00346	0,886996305	0,45083	KLK14	kallikrein-related peptidase 14
0,494828328	0,00995	0,753145233	0,07085	KLK5	kallikrein-related peptidase 5
0,346517471	0,00028	0,734075318	0,12377	KLK7	kallikrein-related peptidase 7
0,564482202	0,00304	0,8362464	0,14308	KLK8	kallikrein-related peptidase 8
0,598324482	0,00898	0,833931044	0,15439	KLK8	kallikrein-related peptidase 8
1,21335356	0,01618	1,020304659	0,6805	KLLN	killin, p53-regulated DNA replication inhibitor
1,244874235	0,01002	1,066585781	0,17067	KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)
0,716977624	0,02269	1,00695555	0,90263	KPNB1	karyopherin (importin) beta 1
1,265756594	0,02958	1,163926534	0,05017	KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
0,683967652	0,00135	0,865136691	0,1088	KRBOX1	KRAB box domain containing 1
0,186338798	0,00553	0,740206649	0,23238	KRT1	keratin 1
0,454074209	0,03813	0,820741609	0,19701	KRT17	keratin 17
0,21793956	0,0015	0,582366793	0,06568	KRT2	keratin 2
0,369590608	0,00002	0,696888619	0,05962	KRT23	keratin 23 (histone deacetylase inducible)
0,599154511	0,01283	0,984184022	0,92922	KRT24	keratin 24
0,79774524	0,03825	0,974004269	0,53059	KRT32	keratin 32
0,660211421	0,0167	0,866336856	0,1434	KRT33A	keratin 33A
1,293248932	0,01748	1,092020546	0,28805	KRT33B	keratin 33B
0,698339266	0,01858	0,924663278	0,33886	KRT75	keratin 75
0,694477568	0,02743	0,885767519	0,45842	KRT78	keratin 78
0,823020345	0,02323	0,886381699	0,22033	KRT8P12	keratin 8 pseudogene 12
0,844986384	0,0464	1,083725967	0,24972	KRT9	keratin 9
1,243149669	0,02454	1,048989328	0,2377	KSR2	kinase suppressor of ras 2
0,859160755	0,02918	0,971980988	0,65515	L3MBTL1	l(3)mbt-like 1 (Drosophila)
0,51015233	0,03323	0,849096246	0,10121	LAD1	ladinin 1
0,646624466	0,02688	0,860352631	0,40623	LAMA3	laminin, alpha 3
0,395842933	0,0004	0,687770909	0,12217	LAMB4	laminin, beta 4
0,775930854	0,00742	0,912565489	0,13026	LAMP1	lysosomal-associated membrane protein 1
1,624504793	0,00832	1,181811547	0,12148	LAMP3	lysosomal-associated membrane protein 3
0,684441907	0,04016	0,920187651	0,0867	LAMTOR2	late endosomal/lysosomal adaptor, MAPK and MTOR activator 2
0,697855382	0,03089	0,868140228	0,2484	LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial)

1,390881972	0,03699	0,959929261	0,5933	LARP1B	La ribonucleoprotein domain family, member 1B
1,182631	0,04416	1,07997656	0,14087	LARP1B	La ribonucleoprotein domain family, member 1B
0,682073917	0,04969	0,877821798	0,05999	LARS	leucyl-tRNA synthetase
0,469110598	0,00206	0,941478465	0,69111	LCE1B	late cornified envelope 1B
0,37138823	0,00018	0,787853886	0,24659	LCE2B	late cornified envelope 2B
1,337000495	0,01891	1,118061851	0,07995	LCN8	lipocalin 8
1,353786279	0,01119	1,092777739	0,18129	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
0,753667455	0,00957	0,888226796	0,12507	LDB1	LIM domain binding 1
0,675487042	0,01401	0,90000193	0,16561	LGALS8	lectin, galactoside-binding, soluble, 8
0,552099424	0,00203	0,806641759	0,16084	LGALS8	lectin, galactoside-binding, soluble, 8
1,17772279	0,04516	1,144724161	0,1121	LGALS8-AS1	LGALS8 antisense RNA 1 (non-protein coding)
1,204972315	0,04477	1,038859103	0,65524	LGMN	legumain
1,821339667	0,01008	1,254402205	0,06533	LGR5	leucine-rich repeat containing G protein-coupled receptor 5
1,267512522	0,02958	0,936921447	0,21013	LIFR	leukemia inhibitory factor receptor alpha
1,224336392	0,02543	0,986916546	0,73414	LILRA1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1
1,328685814	0,0154	1,147902414	0,07737	LILRB4	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4
0,571173123	0,00282	0,838568184	0,08466	LIMK2	LIM domain kinase 2
0,751580739	0,01688	0,865736566	0,0642	LIN7B	lin-7 homolog B (C. elegans)
0,605416542	0,01527	0,744322628	0,09099	LIN7C	lin-7 homolog C (C. elegans)
0,573553512	0,01293	0,72597914	0,09415	LINC00302	long intergenic non-protein coding RNA 302
1,257884972	0,01941	1,042465761	0,57661	LINC00470	long intergenic non-protein coding RNA 470
1,316766922	0,00585	1,121943481	0,0806	LINGO1	leucine rich repeat and lg domain containing 1
1,214194884	0,04568	1,108800644	0,08829	LMAN1L	lectin, mannose-binding, 1 like
0,806641759	0,04305	0,883315051	0,13604	LMBR1	limb region 1 homolog (mouse)
1,178539408	0,03813	1,065108203	0,23229	LMCD1	LIM and cysteine-rich domains 1
0,741233505	0,02477	0,85027416	0,16608	LMNA	lamin A/C
1,266634254	0,04721	1,163120042	0,06136	LMO3	LIM domain only 3 (rhombotin-like 2)
1,280759861	0,0412	1,122721422	0,05584	LOC100129380	hypothetical protein LOC100129380
1,183451022	0,04595	1,048262476	0,22336	LOC100129597	hypothetical LOC100129597
1,159095952	0,04794	0,983502074	0,69781	LOC100129794	hypothetical LOC100129794
0,652477474	0,01748	0,971307496	0,7516	LOC100131541	hypothetical LOC100131541
1,20163605	0,02791	1,064370182	0,29145	LOC100131662	hypothetical LOC100131662
1,284315809	0,01163	1,064370182	0,1334	LOC100131733	hypothetical LOC100131733
1,171210181	0,04027	1,053361036	0,25957	LOC100132319	hypothetical LOC100132319
1,367935304	0,00935	1,155085785	0,05326	LOC100233209	hypothetical LOC100233209
1,399585866	0,0189	1,082975046	0,20351	LOC100287628	hypothetical LOC100287628
0,624165274	0,02453	0,936921447	0,48524	LOC100288152	hypothetical LOC100288152
0,756808396	0,04049	0,924022572	0,12673	LOC100498859	hypothetical LOC100498859
1,631274987	0,00863	1,068065408	0,38748	LOC100505501	hypothetical LOC100505501
1,210833084	0,02371	0,971307496	0,54835	LOC100505564	hypothetical LOC100505564
1,217566019	0,0301	1,07997656	0,14561	LOC100507637	hypothetical LOC100507637
0,578745108	0,02438	0,839149637	0,09364	LOC100506168	hypothetical LOC100506168
1,191682575	0,04624	1,099616149	0,09439	LOC100506174	hypothetical LOC100506174
1,232852325	0,01356	1,016774673	0,71089	LOC100506387	hypothetical LOC100506387
0,665264521	0,00535	0,815072332	0,09535	LOC100506653	hypothetical LOC100506653
1,205807828	0,04797	0,967947027	0,45623	LOC100506767	hypothetical LOC100506767
1,463071221	0,0105	1,124278924	0,10183	LOC100506779	hypothetical LOC100506779
1,226884977	0,0434	1,016070143	0,7678	LOC100507007	hypothetical LOC100507007
1,258757174	0,01725	1,138394029	0,07695	LOC100507637	hypothetical LOC100507637
1,257884972	0,01239	1,068805991	0,35896	LOC144571	hypothetical LOC144571
1,200803427	0,01858	1,101905116	0,07205	LOC147791	hypothetical protein LOC147791
1,160703914	0,03866	0,976031761	0,5726	LOC148824	hypothetical LOC148824
1,194991205	0,04473	1,078480432	0,34722	LOC153682	hypothetical protein LOC153682
0,744838732	0,04062	0,859756486	0,14649	LOC202181	hypothetical LOC202181
1,215036792	0,0286	1,043911927	0,32338	LOC283435	hypothetical LOC283435
1,244011653	0,03895	1,037419937	0,45453	LOC283486	hypothetical LOC283486
0,783497187	0,00972	0,920825697	0,28808	LOC284014	hypothetical protein LOC284014
1,244011653	0,03718	1,140763716	0,14437	LOC284112	hypothetical protein LOC284112
1,218410264	0,03662	1,131314463	0,07491	LOC284440	hypothetical LOC284440
1,220946513	0,02154	1,068065408	0,17446	LOC284630	hypothetical protein LOC284630
1,273677475	0,02769	1,082224645	0,19228	LOC284669	hypothetical protein LOC284669
1,172834949	0,03051	1,022428531	0,57954	LOC285370	hypothetical LOC285370
1,195819797	0,0278	1,052631155	0,28015	LOC285740	hypothetical LOC285740
1,286989247	0,03181	1,053361036	0,36124	LOC285835	hypothetical protein LOC285835
1,194163187	0,01767	1,030968319	0,37064	LOC286154	hypothetical protein LOC286154
1,303147149	0,03163	1,07549439	0,24897	LOC375295	hypothetical LOC375295
1,22603486	0,02051	0,984184022	0,74734	LOC387647	patched domain containing 3 pseudogene
1,196648963	0,01538	0,950000383	0,60603	LOC389641	hypothetical LOC389641
1,174461971	0,03033	0,939522749	0,2257	LOC389834	ankyrin repeat domain 57 pseudogene
0,765778999	0,04174	1,035264924	0,5133	LOC389906	hypothetical LOC389906
0,725476104	0,00192	0,999307093	0,98535	LOC390940	hypothetical protein LOC390940
1,329607108	0,04352	1,051172909	0,40704	LOC400794	hypothetical LOC400794
1,379360922	0,01333	1,109569472	0,05434	LOC401522	hypothetical LOC401522
1,270150983	0,01753	1,019597683	0,65477	LOC641467	hypothetical LOC641467
0,498961359	0,0014	0,856188285	0,10239	LOC642587	NPC-A-5
0,413798408	0,00771	0,851453708	0,12248	LOC642587	NPC-A-5
1,338855257	0,02925	1,16634937	0,05944	LOC642852	hypothetical LOC642852
1,210833084	0,04469	1,016774673	0,72042	LOC643711	platelet-activating factor acetylhydrolase, isoform Ib, beta subunit 30kDa pseudogene
1,375541818	0,01991	1,062895674	0,33911	LOC643837	hypothetical LOC643837
1,224336392	0,03695	0,949342121	0,32901	LOC644246	hypothetical LOC644246
0,675487042	0,01252	0,843815796	0,17983	LOC645638	WDNM1-like pseudogene
1,151089491	0,03073	1,001387256	0,96943	LOC646168	hypothetical LOC646168
1,32408891	0,00377	1,051172909	0,33499	LOC646576	hypothetical LOC646576
0,775393206	0,04267	0,879649076	0,05309	LOC728431	hypothetical LOC728431
1,230291345	0,03226	0,970634477	0,60948	LOC729970	hCG2028352-like
1,286989247	0,01275	1,21167266	0,08131	LOC730101	hypothetical LOC730101
1,28788163	0,00259	1,072516617	0,16196	LOC84989	hypothetical LOC84989
0,248101094	0,00097	0,554016174	0,06205	LOR	loricrin
0,618995145	0,0193	0,759962428	0,11595	LOX	lysyl oxidase
1,199139914	0,02163	1,027401439	0,61043	LOXL2	lysyl oxidase-like 2
0,70514898	0,02193	0,834509281	0,1456	LPAR3	lysophosphatidic acid receptor 3
0,76630998	0,02333	0,898755127	0,14302	LPGAT1	lysophosphatidylglycerol acyltransferase 1
1,223488041	0,04375	1,108032348	0,11565	LRCH2	leucine-rich repeats and calponin homology (CH) domain containing 2
1,511519928	0,01103	1,293248932	0,05361	LRG1	leucine-rich alpha-2-glycoprotein 1
1,477338064	0,04497	0,963261894	0,77512	LRIF1	ligand dependent nuclear receptor interacting factor 1
1,32592576	0,03459	1,098092814	0,23754	LRPAP1	low density lipoprotein receptor-related protein associated protein 1
0,611744021	0,00225	0,873572896	0,17588	LRRC1	leucine rich repeat containing 1
1,191682575	0,03501	0,938221197	0,31836	LRRC37A3	leucine rich repeat containing 37, member A3
1,292352831	0,00519	1,089752112	0,17455	LRRK1	leucine-rich repeat kinase 1
1,292352831	0,00603	1,024556823	0,61835	LRRTM2	leucine rich repeat transmembrane neuronal 2
1,32408891	0,0062	1	0,99885	LRWD1	leucine-rich repeats and WD repeat domain containing 1
0,61985385	0,01402	0,893165852	0,35461	LTB4R	leukotriene B4 receptor
1,408344227	0,02247	1,193335743	0,06336	LTK	leukocyte receptor tyrosine kinase
0,437999158	0,01611	0,824733549	0,20472	LYNX1	Ly6/neurotoxin 1
0,50557604	0,00064	0,85027416	0,20082	LYPD5	LY6/PLAUR domain containing 5
0,581157054	0,00065	0,923382311	0,35482	LYPD6B	LY6/PLAUR domain containing 6B
0,621574834	0,0213	0,838568184	0,07731	MACF1	microtubule-actin crosslinking factor 1
1,367935304	0,0488	1,083725967	0,25647	MAGEL2	MAGE-like 2
0,655651007	0,02001	0,794985251	0,05831	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1
0,553632292	0,0196	0,835666959	0,11944	MAGOH	mago-nashi homolog, proliferation-associated (Drosophila)
1,849326556	0,02143	1,459020344	0,06361	MAN1A1	mannosidase, alpha, class 1A, member 1
1,48246701	0,0395	1,187559666	0,25509	MANEA	mannosidase, endo-alpha
1,742308384	0,00339	1,097331938	0,53051	MANEA	mannosidase, endo-alpha
0,677832163	0,04332	0,914465089	0,28889	MAP1LC3A	microtubule-associated protein 1 light chain 3 alpha
0,682073917	0,03191	0,920187651	0,34808	MAP1LC3A	microtubule-associated protein 1 light chain 3 alpha
1,28788163	0,02784	0,975355462	0,72135	MAP2K1	mitogen-activated protein kinase kinase 1
1,294145654	0,0146	1,125058485	0,12644	MAP3K13	mitogen-activated protein kinase kinase kinase 13
1,263127262	0,0315	1,089752112	0,18202	MAP3K13	mitogen-activated protein kinase kinase kinase 13
0,662044455	0,03816	0,90062598	0,12422	MAP3K4	mitogen-activated protein kinase kinase kinase 4
0,721964598	0,01302	0,938221197	0,39775	MAP3K9	mitogen-activated protein kinase kinase kinase 9
0,654742712	0,00813	0,903752727	0,32654	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4
0,700763725	0,03309	0,830470024	0,14789	MAPK1	mitogen-activated protein kinase 1
0,668500248	0,00262	0,886381699	0,19797	MAPK1	mitogen-activated protein kinase 1
0,649769531	0,0335	0,895025071	0,43264	MAPK14	mitogen-activated protein kinase 14
0,677362489	0,02432	0,872362706	0,22066	MAPK14	mitogen-activated protein kinase 14
0,597495602	0,01659	0,883927531	0,29279	MAPK14	mitogen-activated protein kinase 14
1,187559666	0,04487	1,111879158	0,14867	MAPK15	mitogen-activated protein kinase 15
0,691116103	0,0418	0,936921447	0,36204	MAPRE2	microtubule-associated protein, RP/EB family, member 2
0,645281245	0,02213	0,890075733	0,24882	MAPT	microtubule-associated protein tau
0,636838738	0,00713	0,806082831	0,06488	MAPT	microtubule-associated protein tau
0,67689314	0,00826	0,939522749	0,49163	MAPT	microtubule-associated protein tau
1,577893682	0,04367	0,983502074	0,91019	MARCH1	membrane-associated ring finger (C3HC4) 1
1,342572503	0,03081	1,086734863	0,44925	MARCH1	membrane-associated ring finger (C3HC4) 1
1,250062303	0,01892	1,0238469	0,71284	MARCH6	membrane-associated ring finger (C3HC4) 6
0,822450069	0,04307	0,933032992	0,15856	MARCH7	membrane-associated ring finger (C3HC4) 7
1,232852325	0,03839	0,992404375	0,90224	MARCKS	myristoylated alanine-rich protein kinase C substrate
1,223488041	0,02243	1,063632673	0,11216	MB21D1	Mab-21 domain containing 1
0,642603169	0,01138	0,868742185	0,09657	MBD1	methyl-CpG binding domain protein 1
1,225185332	0,0431	1,090507733	0,34118	MC1R	melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)
1,220946513	0,02515	1,080725402	0,12373	MC3R	melanocortin 3 receptor
1,41029796	0,00346	1,111879158	0,18628	MCHR1	melanin-concentrating hormone receptor 1
0,730016005	0,0028	0,929804943	0,3122	MCM3AP-AS1	MCM3AP antisense RNA 1 (non-protein coding)
0,636397468	0,04798	0,842062954	0,12987	MCM4	minichromosome maintenance complex component 4
0,725476104	0,04952	0,963261894	0,70086	MCM4	minichromosome maintenance complex component 4
1,165541198	0,0222	1,036701101	0,43013	MDM2	Mdm2 p53 binding protein homolog (mouse)
1,193335743	0,04405	0,982820599	0,63763	MECOM	MDS1 and EVI1 complex locus
0,665264521	0,03	0,809442217	0,09029	MED21	mediator complex subunit 21
1,310393404	0,0464	1,022428531	0,73431	MED26	mediator complex subunit 26

1,311302014	0,00727	1,056285625	0,36947	MEF2D	myocyte enhancer factor 2D
1,566994374	0,01034	0,982820599	0,77301	MESDC1	mesoderm development candidate 1
1,242288282	0,03658	1,062895674	0,31891	MESDC2	mesoderm development candidate 2
0,743291492	0,04216	0,885767519	0,23271	METTL16	methyltransferase like 16
1,534746096	0,01192	1,132883885	0,0703	METTL21A	methyltransferase like 21A
1,235418637	0,02788	1,090507733	0,11661	METTL23	methyltransferase like 23
1,260503392	0,02348	1,039579435	0,52121	MFI2-AS1	MFI2 antisense RNA 1 (non-protein coding)
0,581963267	0,01906	0,763658749	0,06655	MFN1	mitofusin 1
1,237132479	0,03061	1,004167543	0,9177	MFSD4	major facilitator superfamily domain containing 4
1,365093718	0,01141	1,030253954	0,52607	MFSD7	major facilitator superfamily domain containing 7
1,622254311	0,02682	1,188383105	0,08874	MGAT2	mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
1,692317193	0,00697	1,153485605	0,15024	MGAT2	mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
1,479387509	0,00061	1,085981856	0,22711	MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A
1,191682575	0,04888	1,133669413	0,076	MGC34800	hypothetical protein MGC34800
0,742261785	0,01904	1,046810282	0,65309	MGEA5	meningioma expressed antigen 5 (hyaluronidase)
0,690158677	0,02216	0,883927531	0,10656	MGEA5	meningioma expressed antigen 5 (hyaluronidase)
1,886876502	0,00084	1,181811547	0,14474	MGP	matrix Gla protein
0,693515485	0,00709	0,893785162	0,1029	MGST2	microsomal glutathione S-transferase 2
1,333298677	0,02539	1,024556823	0,72118	MIAT	myocardial infarction associated transcript (non-protein coding)
0,550189305	0,01135	0,824733549	0,06228	MIB2	mindbomb homolog 2 (Drosophila)
1,17609125	0,02344	1,126619228	0,05336	MILR1	mast cell immunoglobulin-like receptor 1
1,335148303	0,03096	1,00556058	0,93342	MIR143HG	MIR143 host gene (non-protein coding)
2,276788058	0,00191	1,143930973	0,12807	MIR155HG	MIR155 host gene (non-protein coding)
0,622868708	0,01086	0,894404902	0,31206	MIR210HG	MIR210 host gene (non-protein coding)
1,232852325	0,02651	1,159095952	0,15147	MIR214	microRNA 214
0,67877249	0,01422	0,927873476	0,20093	MIS18A	MIS18 kinetochore protein homolog A (S. pombe)
0,687770909	0,00252	1,020304659	0,79405	MKI67	antigen identified by monoclonal antibody Ki-67
0,718968266	0,02389	0,934975198	0,41557	MKLN1	muskelin 1, intracellular mediator containing kelch motifs
0,632878297	0,00385	0,865136691	0,10017	MKNK2	MAP kinase interacting serine/threonine kinase 2
0,745355193	0,04805	0,879649076	0,14718	MLANA	melan-A
0,421615555	0,00919	0,705637922	0,0833	MLANA	melan-A
1,485552921	0,03929	1,071773463	0,35007	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
0,609627547	0,02708	0,851453708	0,22529	MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
0,66342257	0,01552	0,854409741	0,17393	MLLT4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
1,17609125	0,0448	1,102669163	0,07964	MLYCD	malonyl-CoA decarboxylase
1,195819797	0,04105	1,061423209	0,14996	MMP24	matrix metallopeptidase 24 (membrane-inserted)
3,101572825	0,00493	1,25092908	0,40996	MMP3	matrix metallopeptidase 3 (stromelysin 1, progelatinase)
1,258757174	0,01936	1,107264584	0,10924	MOBP	myelin-associated oligodendrocyte basic protein
1,257013375	0,0269	1,125058485	0,12277	MOCS1	molybdenum cofactor synthesis 1
0,833353207	0,03952	0,961927455	0,66091	MOCS3	molybdenum cofactor synthesis 3
1,387992719	0,00486	1,063632673	0,40379	MOSC2	MOCO sulphurase C-terminal domain containing 2
0,596667872	0,01142	0,728499557	0,06752	MPZL2	myelin protein zero-like 2
0,548665969	0,02343	0,87417862	0,11909	MRPL27	mitochondrial ribosomal protein L27
0,647072827	0,02954	0,815072332	0,11435	MRPL42	mitochondrial ribosomal protein L42
0,793883931	0,03487	0,942784536	0,19662	MRPL48	mitochondrial ribosomal protein L48
1,272794935	0,03847	1,130530567	0,1114	MRPS31	mitochondrial ribosomal protein S31
2,745368863	0,00042	1,455989549	0,06333	MS4A1	membrane-spanning 4-domains, subfamily A, member 1
3,050403307	0,00289	1,788809804	0,05019	MS4A1	membrane-spanning 4-domains, subfamily A, member 1
1,837825767	0,01275	1,195819797	0,15884	MS4A1	membrane-spanning 4-domains, subfamily A, member 1
1,29056249	0,01162	1,031683179	0,51409	MSI2	musashi homolog 2 (Drosophila)
1,310393404	0,02686	1,118061851	0,06669	MSI2	musashi homolog 2 (Drosophila)
1,602139755	0,02466	1,074004472	0,499	MSR1	macrophage scavenger receptor 1
0,773782497	0,02433	0,991029563	0,87929	MST1P9	macrophage stimulating 1 (hepatocyte growth factor-like) pseudogene 9
0,65747138	0,01364	0,918276162	0,26634	MST1R	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
0,52123288	0,01772	0,837406488	0,31858	MST4	serine/threonine protein kinase MST4
0,751580739	0,02696	1,082224645	0,32574	MSX2	msh homeobox 2
0,739693755	0,02419	1,071030823	0,3477	MT1F	metallothionein 1F
0,79940583	0,02665	1,061423209	0,35034	MT1G	metallothionein 1G
0,819036698	0,01013	1,016070143	0,79488	MT1H	metallothionein 1H
0,62546454	0,02972	0,938221197	0,63638	MT1X	metallothionein 1X
0,625031151	0,00621	0,951977908	0,66794	MT1X	metallothionein 1X
0,721964598	0,03856	0,945402117	0,59049	MTAP	methylthioadenosine phosphorylase
0,684441907	0,02641	0,910669834	0,17647	MTERFD3	MTERF domain containing 3
1,730273381	0,00851	1,143138335	0,1429	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase
0,785672517	0,04545	0,948684315	0,36484	MTMR11	myotubularin related protein 11
0,679243142	0,01134	0,90000193	0,21458	MTMR11	myotubularin related protein 11
0,803850991	0,01143	0,873572896	0,11352	MTMR2	myotubularin related protein 2
1,198309021	0,04286	1,002081605	0,95441	MTMR7	myotubularin related protein 7
1,214194884	0,0135	1,064370182	0,3356	MTOR	mechanistic target of rapamycin (serine/threonine kinase)
0,608783009	0,02193	0,872362706	0,13659	MTUS1	microtubule associated tumor suppressor 1
0,716480825	0,00564	0,827596816	0,08696	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)
1,402499251	0,00301	1,083725967	0,26516	MYEOV	myeloma overexpressed (in a subset of t(11;14) positive multiple myelomas)
1,22603486	0,04372	1,038859103	0,53503	MYH11	myosin, heavy chain 11, smooth muscle
0,707106781	0,03902	0,842062954	0,14668	MYH14	myosin, heavy chain 14, non-muscle
0,752623374	0,03739	0,957271458	0,42433	MYL6	myosin, light chain 6, alkali, smooth muscle and non-muscle
0,628942486	0,01214	0,854409741	0,06342	MYO5A	myosin VA (heavy chain 12, myoxin)
0,682546859	0,03835	0,87417862	0,2161	MYO6	myosin VI
0,830470024	0,01004	0,974004269	0,65071	MYO9A	myosin IXA
0,641268301	0,01685	0,801625329	0,10016	MYO9A	myosin IXA
0,66296288	0,01556	0,874784765	0,06108	MYOF	myoferlin
1,32408891	0,0033	1,051172909	0,52396	MYPOP	Myb-related transcription factor, partner of profilin
0,765248385	0,04973	0,946713631	0,35162	MZT2B	mitotic spindle organizing protein 2B
0,561360711	0,0168	0,776468875	0,10017	N4BP2L2	NEDD4 binding protein 2-like 2
1,247465572	0,01487	1,148698355	0,09355	NA	NA
0,620283649	0,04569	0,987600861	0,88597	NA	NA
1,223488041	0,04897	1,100378609	0,12693	NA	NA
1,241427492	0,02857	1,011853201	0,86509	NA	NA
1,2397077	0,02253	1,047536127	0,34108	NA	NA
0,718470088	0,0139	0,917639882	0,39142	NA	NA
1,251796459	0,04466	1,095052471	0,06199	NA	NA
1,159899655	0,028	1,003471749	0,94231	NA	NA
1,441928871	0,0316	1,019597683	0,78071	NA	NA
0,628942486	0,01829	0,831045862	0,06186	NA	NA
1,519924856	0,00886	1,277213759	0,06494	NA	NA
0,694477568	0,02179	1,064370182	0,39509	NA	NA
0,76684133	0,02911	0,876605721	0,05551	NA	NA
1,25092908	0,0383	1,067325338	0,25031	NA	NA
1,377450046	0,00311	1,133669413	0,07481	NA	NA
0,673616788	0,02429	1,028113827	0,74775	NA	NA
0,713012859	0,0449	0,883315051	0,20434	NA	NA
0,756808396	0,03579	0,838568184	0,06315	NA	NA
1,157490217	0,03795	1,067325338	0,18553	NA	NA
1,262252032	0,02233	1,108032348	0,14977	NA	NA
1,250062303	0,04191	1,009751298	0,82303	NA	NA
0,608783009	0,00765	0,824733549	0,10706	NA	NA
0,668963777	0,04411	0,918912883	0,34143	NA	NA
1,185914499	0,03828	1,072516617	0,10156	NA	NA
1,306765254	0,0086	1,0453601	0,53974	NA	NA
0,644834125	0,01576	0,893785162	0,09063	NA	NA
0,61429349	0,00031	1,037419937	0,61932	NA	NA
1,43893358	0,01329	1,025978145	0,71976	NA	NA
1,279872414	0,01094	1,111879158	0,09908	NA	NA
1,163926534	0,04017	1,040300267	0,41752	NA	NA
0,788400174	0,03334	0,921464186	0,23584	NA	NA
0,749499801	0,00454	0,921464186	0,25443	NA	NA
1,353786279	0,03648	1,197478705	0,0879	NA	NA
1,232852325	0,04757	1,021012126	0,616	NA	NA
1,195819797	0,03631	1,184271612	0,07202	NA	NA
0,599154511	0,02936	1,098092814	0,40702	NA	NA
1,190031696	0,04296	1,00486382	0,91241	NA	NA
1,494849249	0,02202	1,105730653	0,29523	NA	NA
1,170398641	0,02959	1,015366101	0,76048	NA	NA
1,29056249	0,04711	1,090507733	0,07406	NA	NA
0,755236293	0,01855	0,91383145	0,2013	NA	NA
1,164733586	0,0396	1,057018041	0,22252	NA	NA
1,236275261	0,04685	1,099616149	0,10169	NA	NA
1,215036792	0,00971	1,119612889	0,08141	NA	NA
1,185092771	0,03766	1,143930973	0,14761	NA	NA
0,622868708	0,01473	0,890075733	0,35734	NA	NA
0,480297432	0,00704	0,808320869	0,13188	NA	NA
1,198309021	0,0341	1,035982764	0,41513	NA	NA
1,181811547	0,04662	1,095811766	0,06382	NA	NA
1,313121125	0,01542	1,143930973	0,07089	NA	NA
1,255271991	0,02868	1,04608494	0,4627	NA	NA
0,499307333	0,00539	0,790041312	0,05234	NA	NA
1,32408891	0,02295	1,111108729	0,10372	NA	NA
0,750539549	0,01523	0,899378312	0,24413	NA	NA
0,610050255	0,00038	0,824162085	0,07749	NA	NA
0,795536484	0,02296	1,003471749	0,95254	NA	NA
1,758079122	0,00313	1,101141598	0,11645	NA	NA
0,784584098	0,02273	0,950000383	0,35874	NA	NA
1,183451022	0,04247	1,068805991	0,23399	NA	NA
1,220946513	0,04928	1,021720083	0,67766	NA	NA
0,751580739	0,00775	0,863938187	0,0924	NA	NA
1,245737416	0,03818	1,068065408	0,14008	NA	NA
0,738157203	0,04735	0,893785162	0,14425	NA	NA
0,745355193	0,01543	0,885153765	0,22118	NA	NA
1,260503392	0,04321	1,125058485	0,05936	NA	NA

0,622868708	0,02187	0,795536484	0,22749	NA	NA
1,192508872	0,02847	1,081474763	0,201	NA	NA
1,208317843	0,02445	0,90062598	0,08126	NA	NA
1,254402205	0,01881	1,100378609	0,06638	NA	NA
0,600818025	0,04813	0,868742185	0,26296	NA	NA
1,347233577	0,00524	1,041021598	0,6406	NA	NA
1,331451613	0,00911	1,076986376	0,34136	NA	NA
0,76950361	0,0301	0,882702996	0,06004	NA	NA
0,802181166	0,00595	0,906261938	0,144	NA	NA
0,801069878	0,02702	0,925304428	0,20419	NA	NA
0,826450318	0,02497	1,009051634	0,8243	NA	NA
1,191682575	0,04484	1,088997015	0,2664	NA	NA
0,765248385	0,00878	0,976031761	0,65733	NA	NA
1,243149669	0,03387	1,028113827	0,70182	NA	NA
1,155886707	0,03657	1,033830736	0,45101	NA	NA
0,792234811	0,03416	0,951977908	0,50829	NA	NA
0,507331273	0,0469	0,890075733	0,26866	NA	NA
0,731028724	0,0279	0,893165852	0,08039	NA	NA
0,643940815	0,0371	0,952637998	0,37057	NA	NA
0,738669032	0,02695	0,905633983	0,17552	NA	NA
1,987562187	0,00282	1,198309021	0,14579	NA	NA
0,709561678	0,02737	0,875998315	0,12378	NA	NA
1,487613762	0,04139	1,020304659	0,80738	NA	NA
0,759435845	0,04481	0,920187651	0,23438	NA	NA
0,73153561	0,02288	0,86934456	0,06443	NA	NA
1,195819797	0,04024	1,077733145	0,15034	NA	NA
1,238848698	0,04523	1,081474763	0,2065	NA	NA
1,255271991	0,03923	1,062895674	0,36834	NA	NA
0,806641759	0,03262	1,034547582	0,6231	NA	NA
0,713012859	0,00525	0,940826108	0,43936	NA	NA
0,647072827	0,01174	0,835666959	0,16964	NA	NA
1,184271612	0,0268	1,079228237	0,28278	NA	NA
0,661127303	0,00295	0,90062598	0,05327	NA	NA
1,340712592	0,00264	1,119612889	0,08867	NA	NA
0,748980467	0,04609	0,884540435	0,05543	NA	NA
0,862741345	0,04098	0,938221197	0,12505	NA	NA
0,77916458	0,02197	0,986232704	0,84203	NA	NA
1,286097483	0,02603	1,019597683	0,59486	NA	NA
1,780151467	0,00051	1,28877463	0,05677	NA	NA
0,755236293	0,04329	0,936921447	0,22333	NA	NA
1,350037985	0,0282	1,088242442	0,16819	NA	NA
1,341642225	0,03291	0,976708529	0,71869	NA	NA
0,779704843	0,04745	0,908778116	0,28623	NA	NA
1,795020101	0,03339	1,167967395	0,15819	NA	NA
0,747942879	0,02428	1,070288698	0,22165	NA	NA
0,740206649	0,00331	0,890075733	0,21622	NA	NA
0,747424624	0,04671	0,874784765	0,07773	NA	NA
1,230291345	0,03519	1,068805991	0,13669	NA	NA
0,634635443	0,00141	0,882702996	0,12652	NA	NA
1,2397077	0,0088	1,101141598	0,14198	NA	NA
1,304050735	0,01402	1,125838586	0,0546	NA	NA
1,353786279	0,02531	1,125838586	0,08374	NA	NA
1,17772279	0,03608	0,988285652	0,80672	NA	NA
1,194163187	0,04475	1,069547088	0,15096	NA	NA
1,245737416	0,03716	1,121943481	0,11299	NA	NA
1,422077411	0,00566	1,17609125	0,0662	NA	NA
0,840896415	0,02336	0,917004043	0,11724	NA	NA
0,697371833	0,04349	0,948026965	0,30035	NA	NA
0,739181216	0,01205	0,985549337	0,80454	NA	NA
0,811689581	0,03525	0,868742185	0,06658	NA	NA
0,789493887	0,04063	0,905006463	0,08429	NA	NA
0,754712984	0,00157	0,888226796	0,33052	NA	NA
1,186736798	0,0405	0,996540263	0,96356	NA	NA
0,795536484	0,01708	0,991716731	0,89064	NA	NA
1,502119927	0,00182	1,223488041	0,07599	NA	NA
1,491744027	0,0067	1,158292806	0,29724	NA	NA
1,53368266	0,00226	1,226884977	0,08012	NA	NA
1,231144413	0,03962	1,111108729	0,0869	NA	NA
1,2397077	0,01333	0,976031761	0,70224	NA	NA
1,195819797	0,04535	1,061423209	0,31022	NA	NA
1,20163605	0,03536	1,061423209	0,4072	NA	NA
1,240567298	0,0498	1,088997015	0,20676	NA	NA
0,735093668	0,04255	0,859160755	0,154	NA	NA
0,617281303	0,01893	0,863339559	0,07025	NA	NA
0,613442489	0,00225	0,908148418	0,08773	NA	NA
0,587638164	0,0184	0,901250463	0,16897	NA	NA
1,171210181	0,03098	1,044635763	0,30347	NA	NA
0,862741345	0,03158	0,993092495	0,89161	NA	NA
1,197478705	0,03327	0,995849753	0,93957	NA	NA
1,161508732	0,04529	1,098854218	0,15718	NA	NA
1,332374825	0,01638	0,995159722	0,92581	NA	NA
0,753667455	0,04894	0,910038824	0,18925	NA	NA
1,25962998	0,0327	0,961260928	0,5451	NA	NA
2,019502595	0,00486	1,188383105	0,10672	NA	NA
0,689202576	0,02715	0,84264683	0,06629	NA	NA
0,483303049	0,02514	0,826450318	0,12092	NA	NA
0,662503509	0,02058	0,90000193	0,16307	NA	NA
0,741233505	0,03258	0,903752727	0,06636	NA	NA
0,687770909	0,00606	0,804966138	0,19768	NA	NA
0,753145233	0,04566	0,958599438	0,57441	NA	NA
1,408344227	0,03027	1,204972315	0,25957	NA	NA
1,279872414	0,03394	1,079228237	0,21725	NA	NA
1,48246701	0,00369	1,172022284	0,07956	NA	NA
0,808320869	0,0177	0,96727633	0,65321	NA	NA
0,692074858	0,00943	0,944747041	0,47641	NA	NA
1,269270886	0,03477	1,076240125	0,35476	NA	NA
0,760489377	0,01173	0,829894586	0,05666	NA	NA
1,858321349	0,00731	1,179356592	0,10825	NA	NA
0,681129017	0,0131	0,84323111	0,06704	NA	NA
2	0,00031	1,190856849	0,0958	NA	NA
1,416175438	0,02104	1,110338834	0,10081	NA	NA
1,309485423	0,01048	1,090507733	0,07923	NA	NA
1,203303026	0,03717	1,040300267	0,39129	NA	NA
1,227735684	0,01508	1,090507733	0,22858	NA	NA
0,809442217	0,02256	0,938871747	0,43079	NA	NA
0,782411782	0,03416	0,898755127	0,05817	NA	NA
0,763658749	0,04124	0,845572287	0,05034	NA	NA
1,218410264	0,04134	1,105730653	0,1398	NA	NA
1,289668251	0,01214	1,111108729	0,0809	NA	NA
1,409320755	0,04447	1,050444544	0,48196	NA	NA
1,311302014	0,04584	0,963261894	0,37068	NA	NA
1,356604327	0,02038	0,961927455	0,56141	NA	NA
1,41519416	0,01987	1,021720083	0,64421	NA	NA
1,297738767	0,03896	1,204972315	0,05917	NA	NA
1,502119927	0,03863	1,172834949	0,13932	NA	NA
0,657927263	0,00076	0,828744904	0,06789	NA	NA
1,361314116	0,04341	1,034547582	0,57657	NA	NA
1,589970502	0,03722	0,986232704	0,82249	NA	NA
1,466116757	0,02789	1,003471749	0,94966	NA	NA
0,695923196	0,0223	1,048262476	0,67484	NA	NA
1,194991205	0,01916	1,062159186	0,21659	NA	NA
0,702222438	0,02035	0,863938187	0,06614	NA	NA
1,296839555	0,00421	1,128182137	0,20426	NA	NA
1,190856849	0,04747	1,07997656	0,14574	NA	NA
1,958840595	0,00676	1,081474763	0,50568	NA	NA
1,250062303	0,04461	1,043911927	0,53899	NA	NA
1,546492675	0,0004	1,338855257	0,06617	NA	NA
0,675487042	0,03828	0,951318276	0,46678	NA	NA
0,732042848	0,02864	0,980099415	0,84235	NA	NA
1,186736798	0,04938	1,035264924	0,74394	NA	NA
1,398616083	0,00541	1,125838586	0,12509	NA	NA
1,2397077	0,01802	1,085229372	0,08115	NA	NA
0,684441907	0,03115	0,917004043	0,16374	NA	NA
1,282536603	0,04813	0,998614666	0,98137	NA	NA
0,793333843	0,0288	0,932386486	0,24729	NA	NA
1,25962998	0,01768	1,016774673	0,79505	NA	NA
1,176906737	0,04197	0,998614666	0,98104	NA	NA
1,295940965	0,02693	1,131314463	0,09136	NA	NA
0,736113431	0,03203	0,990342872	0,93315	NA	NA
1,230291345	0,03684	1,089752112	0,05254	NA	NA
0,815637493	0,02487	0,929804943	0,20829	NA	NA
1,23370717	0,02153	1,105730653	0,08079	NA	NA
1,236275261	0,02341	1,07997656	0,19513	NA	NA
1,261377409	0,00793	1,116512962	0,08123	NA	NA
1,25353302	0,0491	1,154285418	0,09762	NA	NA
1,38991822	0,0132	1,110338834	0,13501	NA	NA
0,782954296	0,00183	0,957271458	0,58114	NA	NA
1,271913007	0,01227	1,009051634	0,81072	NA	NA

1,194991205	0,02396	1,077733145	0,17347	NA	NA
1,188383105	0,03978	1,110338834	0,0802	NA	NA
1,248330549	0,01956	1,040300267	0,58777	NA	NA
0,772175133	0,02915	0,934327347	0,2977	NA	NA
0,649769531	0,04026	0,869947353	0,15042	NA	NA
0,830470024	0,03434	0,968618189	0,44729	NA	NA
0,675955417	0,01793	0,868742185	0,10078	NA	NA
0,659296807	0,00861	0,853817714	0,11205	NA	NA
1,493813457	0,03738	0,920825697	0,43576	NA	NA
1,192508872	0,022	1,0181852	0,70013	NA	NA
0,584388624	0,01647	0,807201075	0,09948	NA	NA
0,754190038	0,04027	0,880869374	0,12209	NA	NA
1,273677475	0,048	1,065108203	0,52848	NA	NA
0,591725511	0,04277	0,938871747	0,40792	NA	NA
1,160703914	0,04717	1,061423209	0,23307	NA	NA
1,267512522	0,02566	1,147902414	0,0729	NA	NA
0,545631939	0,03659	0,938221197	0,63058	NA	NA
1,187559666	0,04534	1,038139271	0,33502	NA	NA
1,176906737	0,01927	1,030253954	0,56427	NA	NA
1,244874235	0,00768	1,129747215	0,07392	NA	NA
0,695923196	0,01053	0,879039561	0,09458	NA	NA
1,609932275	0,04527	1,270150983	0,15067	NA	NA
1,474269217	0,00715	0,974679631	0,646	NA	NA
0,749499801	0,00682	0,858565436	0,06349	NA	NA
1,21335356	0,02297	1	0,99976	NA	NA
1,20664392	0,03523	1,098854218	0,27741	NA	NA
1,265756594	0,03165	1,098092814	0,05523	NA	NA
0,67689314	0,00029	0,804966138	0,07114	NA	NA
1,332374825	0,00688	1,170398641	0,07616	NA	NA
2,142061646	0,00126	1,433955248	0,11411	NA	NA
1,491744027	0,0029	1,185092771	0,05376	NA	NA
1,420107359	0,0463	1,349102534	0,05148	NA	NA
1,836552325	0,02045	1,254402205	0,12063	NA	NA
1,266634254	0,01151	1,039579435	0,42121	NA	NA
0,741747467	0,00682	0,874784765	0,11781	NA	NA
1,223488041	0,00975	1,121166078	0,05423	NA	NA
0,687770909	0,02362	0,930449658	0,21912	NA	NA
1,188383105	0,04343	0,981459064	0,78774	NA	NA
1,204972315	0,04521	1,092777739	0,19991	NA	NA
0,816768991	0,03814	0,957271458	0,51963	NA	NA
1,286989247	0,01532	1,098854218	0,09591	NA	NA
0,777007269	0,02042	0,966606097	0,761	NA	NA
1,257013375	0,01131	1,028826708	0,55278	NA	NA
1,43296165	0,00679	1,112650121	0,06854	NA	NA
0,786217292	0,03858	0,955945318	0,4182	NA	NA
0,65747138	0,01837	0,852044095	0,23581	NA	NA
1,858321349	0,0058	1,197478705	0,10423	NA	NA
1,23370717	0,02893	0,990342872	0,89076	NA	NA
1,234562607	0,01227	1,016070143	0,77415	NA	NA
0,817335328	0,03082	0,963261894	0,58489	NA	NA
1,425037614	0,04927	1,049716684	0,65376	NA	NA
1,343503426	0,01035	1,143138335	0,12109	NA	NA
1,570256237	0,00262	1,181811547	0,10848	NA	NA
0,763129604	0,04323	0,881480158	0,15569	NA	NA
1,226884977	0,03324	0,979420298	0,67282	NA	NA
1,25353302	0,01071	1,00695555	0,89621	NA	NA
1,263127262	0,01633	0,957271458	0,44767	NA	NA
0,830470024	0,02279	0,910669834	0,19847	NA	NA
1,292352831	0,01009	1,044635763	0,2775	NA	NA
1,257013375	0,03559	1,107264584	0,07936	NA	NA
1,449946833	0,00454	1,170398641	0,22046	NA	NA
1,35754498	0,00657	1,091263877	0,11267	NA	NA
1,53049677	0,00018	1,142346247	0,14236	NA	NA
0,480297432	0,00825	0,745872013	0,05034	NA	NA
1,304050735	0,01195	1,017479692	0,83344	NA	NA
1,200803427	0,02886	1,091263877	0,10969	NA	NA
1,311302014	0,00098	1,082975046	0,22348	NA	NA
1,17772279	0,03298	1,025267238	0,67146	NA	NA
1,220946513	0,04024	1,058484395	0,32318	NA	NA
1,21167266	0,04049	1,141554707	0,05112	NA	NA
1,297738767	0,00932	1,108032348	0,07337	NA	NA
1,599920257	0,04769	1,070288698	0,32791	NA	NA
1,217566019	0,04358	1,00765376	0,89461	NA	NA
1,243149669	0,04221	1,022428531	0,64946	NA	NA
1,286097483	0,03176	1,076240125	0,13412	NA	NA
1,592176198	0,02422	0,990342872	0,91583	NA	NA
0,805524291	0,02234	0,925946023	0,21251	NA	NA
1,494849249	0,00474	1,142346247	0,08984	NA	NA
1,278985581	0,04921	1,111108729	0,06959	NA	NA
1,298638603	0,0068	1,114193651	0,10176	NA	NA
1,352848231	0,00662	1,0132569	0,83834	NA	NA
1,281647924	0,04078	1,004167543	0,94702	NA	NA
1,723092319	0,02233	1,060687741	0,42532	NA	NA
0,69640574	0,01028	0,892546971	0,06874	NA	NA
1,246601194	0,03016	1,041021598	0,50075	NA	NA
0,615572207	0,0374	0,955945318	0,72515	NA	NA
1,479387509	0,01915	1,118061851	0,21316	NA	NA
1,77399261	0,00186	1,178539408	0,06402	NA	NA
1,607701981	0,02307	1,065108203	0,39341	NA	NA
1,582274602	0,01563	1,098092814	0,39321	NA	NA
1,450952208	0,01019	1,101141598	0,12722	NA	NA
0,777546036	0,02208	0,880259014	0,05212	NA	NA
1,155886707	0,03897	1,024556823	0,67129	NA	NA
1,347233577	0,03364	1,07549439	0,38545	NA	NA
2,164449289	0,04697	1,267512522	0,15571	NA	NA
1,277213759	0,00468	0,934327347	0,30136	NA	NA
1,377450046	0,03306	1,169587664	0,0602	NA	NA
1,631274987	0,00011	1,178539408	0,09263	NA	NA
1,29145735	0,03559	1,036701101	0,60717	NA	NA
1,216722359	0,04466	1,021720083	0,60828	NA	NA
1,219255094	0,01261	1,02313747	0,55723	NA	NA
1,675974269	0,00163	1,094293701	0,27921	NA	NA
0,753145233	0,01063	0,962594443	0,63249	NA	NA
1,194991205	0,04575	0,988970916	0,77128	NA	NA
0,785128119	0,03045	0,853817714	0,07877	NA	NA
1,244011653	0,02694	1,006257823	0,88124	NA	NA
0,788946841	0,01481	0,852044095	0,05494	NA	NA
1,214194884	0,02852	1,093535457	0,07303	NA	NA
1,596596773	0,00841	1,114193651	0,37197	NA	NA
1,17609125	0,04935	1,068805991	0,1199	NA	NA
1,232852325	0,04792	1,070288698	0,26526	NA	NA
1,309485423	0,02184	1,051901779	0,28037	NA	NA
1,321338406	0,02497	1,07549439	0,21614	NA	NA
1,242288282	0,03248	1,076240125	0,15722	NA	NA
1,205807828	0,01929	1,076240125	0,1536	NA	NA
1,332374825	0,0422	1,132098902	0,10868	NA	NA
1,392811481	0,00697	1,189207115	0,14464	NA	NA
1,208317843	0,0149	1,098092814	0,05847	NA	NA
1,308578071	0,03908	1,071030823	0,3121	NA	NA
1,191682575	0,04114	1,040300267	0,5087	NA	NA
1,266634254	0,00239	1,192508872	0,05024	NA	NA
1,332374825	0,02589	1,0132569	0,80707	NA	NA
1,257884972	0,02945	1,069547088	0,10503	NA	NA
1,150291893	0,04071	1,077733145	0,09422	NA	NA
1,265756594	0,02678	1,043911927	0,34526	NA	NA
1,207480591	0,03707	1,02313747	0,61455	NA	NA
1,340712592	0,0074	1,021012126	0,7278	NA	NA
1,257013375	0,0159	0,991029563	0,89541	NA	NA
0,754190038	0,03048	0,90312651	0,18413	NA	NA
0,745355193	0,02742	0,90000193	0,15322	NA	NA
1,56265576	0,00623	1,117287138	0,06879	NA	NA
1,186736798	0,04004	1,059218335	0,29467	NA	NA
1,691144575	0,0377	1,209994089	0,14109	NA	NA
0,451563255	0,00351	0,90312651	0,33088	NA	NA
1,322254605	0,00639	1,0453601	0,54458	NA	NA
1,397646972	0,0292	1,194991205	0,06361	NA	NA
1,174461971	0,03968	1,104964485	0,11937	NA	NA
0,866937564	0,04666	0,899378312	0,06208	NA	NA
1,276328769	0,027	1,092777739	0,09936	NA	NA
1,237132479	0,03492	1,054822317	0,32464	NA	NA
0,701735863	0,00022	0,912565489	0,31749	NA	NA
1,526259209	0,00959	1,066585781	0,4979	NA	NA
1,199139914	0,04642	1,07549439	0,15966	NA	NA
0,804966138	0,04841	0,945402117	0,24546	NA	NA
1,22858698	0,02945	1,111879158	0,12639	NA	NA
0,76154437	0,01043	0,923382311	0,234	NA	NA
0,704172113	0,00843	0,863938187	0,05148	NA	NA
0,787307977	0,02681	0,930449658	0,27261	NA	NA

1,268391399	0,02104	1,067325338	0,33581	NA	NA
1,822602561	0,00942	1,114966219	0,25543	NA	NA
0,778624691	0,04476	0,85027416	0,07919	NA	NA
1,156688184	0,03709	1,040300267	0,4603	NA	NA
0,714992493	0,03452	0,910038824	0,24448	NA	NA
1,204137381	0,0272	1,012554807	0,68999	NA	NA
1,780151467	0,04948	1,054822317	0,65495	NA	NA
1,225185332	0,00865	1,014662547	0,77703	NA	NA
0,722465199	0,03757	0,934975198	0,45717	NA	NA
1,344434994	0,00552	1,110338834	0,06409	NA	NA
1,208317843	0,02714	1,101905116	0,08117	NA	NA
1,154285418	0,04789	1,070288698	0,16472	NA	NA
1,188383105	0,03733	1,050444544	0,33087	NA	NA
1,234562607	0,04695	1,122721422	0,06606	NA	NA
1,442928687	0,03857	1,255271991	0,05275	NA	NA
1,199971382	0,04612	0,893785162	0,06004	NA	NA
0,724471077	0,00146	0,880869374	0,06187	NA	NA
0,646624466	0,00754	0,818469182	0,08957	NA	NA
2,474264957	0,00272	1,207480591	0,34881	NA	NA
0,693034943	0,00113	0,862143545	0,10023	NA	NA
1,378405153	0,01256	1,051172909	0,47766	NA	NA
1,370782805	0,02216	1,024556823	0,63906	NA	NA
0,802181166	0,03263	0,906261938	0,23425	NA	NA
1,308578071	0,0203	0,990342872	0,87501	NA	NA
1,209994089	0,03936	0,957271458	0,4946	NA	NA
1,297738767	0,00802	1,048262476	0,5029	NA	NA
0,859160755	0,03376	0,939522749	0,20224	NA	NA
1,297738767	0,0395	0,959264119	0,52138	NA	NA
1,223488041	0,03807	1,067325338	0,21441	NA	NA
1,351910833	0,01609	1,046810282	0,51129	NA	NA
0,726986259	0,04679	0,909408252	0,13203	NA	NA
1,407368375	0,02488	1,114966219	0,12156	NA	NA
1,243149669	0,02224	0,957935218	0,60513	NA	NA
1,42800398	0,0215	0,961260928	0,44313	NA	NA
1,153485605	0,03362	1,025978145	0,70591	NA	NA
1,193335743	0,04167	1,018891197	0,72761	NA	NA
1,750782659	0,00511	1,202469249	0,05222	NA	NA
1,153485605	0,04641	1,073260286	0,10529	NA	NA
1,623379162	0,00222	1,041021598	0,70876	NA	NA
1,32317144	0,01263	1,076240125	0,32584	NA	NA
1,183451022	0,04347	1,092777739	0,21656	NA	NA
1,222640278	0,02804	1,02313747	0,67741	NA	NA
1,304954948	0,04227	1,183451022	0,18143	NA	NA
1,175276328	0,04251	1,07549439	0,21768	NA	NA
1,240567298	0,02749	1,067325338	0,37448	NA	NA
1,592176198	0,00173	1,104198847	0,1919	NA	NA
1,505246747	0,00366	1,185914499	0,10106	NA	NA
0,731028724	0,0168	0,953298545	0,58407	NA	NA
0,750019495	0,02121	0,881480158	0,29329	NAB1	NGFI-A binding protein 1 (EGR1 binding protein 1)
2,559744828	0,03345	1,413233644	0,07341	NAMPT	nicotinamide phosphoribosyltransferase
1,234562607	0,03178	1,038139271	0,40951	NANOS2	nanos homolog 2 (Drosophila)
0,747424624	0,03848	0,910669834	0,09549	NAP1L1	nucleosome assembly protein 1-like 1
0,785128119	0,04353	0,972654947	0,70096	NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D
1,470187336	0,0146	1,122721422	0,15864	NAPSB	napsin B aspartic peptidase pseudogene
0,575544746	0,03544	0,871154192	0,32012	NBEAL2	neurobeachin-like 2
1,356604327	0,00614	1,132098902	0,15984	NCAM1	neural cell adhesion molecule 1
1,186736798	0,04869	0,983502074	0,8312	NCAN	neurocan
0,706616822	0,04092	0,920825697	0,2434	NCOA1	nuclear receptor coactivator 1
0,710053679	0,02022	0,911933166	0,32486	NCOR1	nuclear receptor corepressor 1
1,29145735	0,00841	1,017479692	0,76872	NDFIP1	Nedd4 family interacting protein 1
1,209155676	0,03934	1,008352455	0,89787	NDP	Norrie disease (pseudoglioma)
1,178539408	0,03096	1,041021598	0,5643	NDST1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1
0,514770042	0,01162	0,7944344	0,10608	NDUFA4L2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2
0,788946841	0,04276	0,974004269	0,5618	NDUFS2	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
0,808320869	0,0293	1,056285625	0,30212	NEK6	NIMA (never in mitosis gene a)-related kinase 6
1,200803427	0,02989	1,111879158	0,11639	NENF	neudesin neurotrophic factor
0,692074858	0,00463	0,925304428	0,22841	NEO1	neogenin 1
1,237132479	0,02134	1,110338834	0,11124	NEU3	sialidase 3 (membrane sialidase)
1,199971382	0,04745	1,021720083	0,62915	NFIB	nuclear factor I/B
0,747424624	0,04867	0,830470024	0,06882	NFIC	nuclear factor I/C (CCAAT-binding transcription factor)
0,646624466	0,02911	0,813379198	0,06222	NFIX	nuclear factor I/X (CCAAT-binding transcription factor)
0,771105413	0,04886	0,949342121	0,47505	NFX1	nuclear transcription factor, X-box binding 1
0,748461493	0,03027	0,899378312	0,17377	NFYA	nuclear transcription factor Y, alpha
1,798756624	0,01735	1,311302014	0,05874	NID2	nidogen 2 (osteonidogen)
0,760489377	0,03206	0,852634892	0,14804	NIPAL2	NIPA-like domain containing 2
0,66342257	0,04411	0,90000193	0,16213	NIPAL3	NIPA-like domain containing 3
0,773782497	0,04016	0,898755127	0,16925	NLN	neurolysin (metallopeptidase M3 family)
0,695440986	0,01812	0,925946023	0,23104	NLRP1	NLR family, pyrin domain containing 1
1,379360922	0,01726	1,086734863	0,28682	NLRP3	NLR family, pyrin domain containing 3
0,638164384	0,00352	0,889458994	0,10094	NLRX1	NLR family member X1
0,786762445	0,03855	0,887611337	0,36718	NMD3	NMD3 homolog (S. cerevisiae)
0,712518807	0,00249	0,929160674	0,24854	NOL3	nucleolar protein 3 (apoptosis repressor with CARD domain)
0,754190038	0,03196	0,867538687	0,16972	NOLC1	nucleolar and coiled-body phosphoprotein 1
0,791685866	0,04176	0,972654947	0,62548	NOS1	nitric oxide synthase 1 (neuronal)
1,151089491	0,04784	0,973329374	0,44183	NPHP1	nephronophthisis 1 (juvenile)
0,541862983	0,00841	0,910669834	0,30449	NPHP3	nephronophthisis 3 (adolescent)
1,366040257	0,02643	1,179356592	0,09115	NPL	N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)
0,652025368	0,00118	0,814507563	0,07787	NPR3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
1,544350266	0,019	1,109569472	0,09263	NPTX2	neuronal pentraxin II
1,172022284	0,0357	0,991716731	0,84018	NR1H4	nuclear receptor subfamily 1, group H, member 4
0,782954296	0,01623	0,965267025	0,46907	NR2C2AP	nuclear receptor 2C2-associated protein
1,338855257	0,03437	1,313121125	0,08546	NR2F2	nuclear receptor subfamily 2, group F, member 2
1,635804117	0,00888	1,293248932	0,08666	NR2F2	nuclear receptor subfamily 2, group F, member 2
1,575707772	0,04764	1,046810282	0,50259	NR2F2	nuclear receptor subfamily 2, group F, member 2
1,80000386	0,0488	1,358486285	0,25238	NR4A2	nuclear receptor subfamily 4, group A, member 2
1,393777239	0,00395	1,121166078	0,08773	NR6A1	nuclear receptor subfamily 6, group A, member 1
1,178539408	0,03004	1,071030823	0,24378	NRG1	neuregulin 1
1,236275261	0,04093	1,073260286	0,1322	NRP2	neuropilin 2
1,381274448	0,00178	1,011152081	0,87945	NSD1	nuclear receptor binding SET domain protein 1
1,193335743	0,04001	1,020304659	0,71752	NSL1	NSL1, MIND kinetochore complex component, homolog (S. cerevisiae)
1,380317353	0,01838	1,038139271	0,69015	NT5C2	5'-nucleotidase, cytosolic II
1,399585866	0,02557	0,942784536	0,31868	NT5E	5'-nucleotidase, ecto (CD73)
1,32408891	0,00985	1,056285625	0,44464	NT5E	5'-nucleotidase, ecto (CD73)
1,268391399	0,04766	0,972654947	0,7874	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
1,304954948	0,0249	1,154285418	0,07829	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
1,286989247	0,04119	1,095811766	0,1881	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
1,207480591	0,04334	1,106497353	0,30415	NUDT18	nudix (nucleoside diphosphate linked moiety X)-type motif 18
0,605416542	0,00586	0,825305409	0,33769	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21
1,373636233	0,02504	1,128964405	0,10159	NUDT4	nudix (nucleoside diphosphate linked moiety X)-type motif 4
1,343503426	0,04861	1,132098902	0,1652	NUDT4	nudix (nucleoside diphosphate linked moiety X)-type motif 4
0,717474767	0,0153	0,944092419	0,22968	NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5
1,271913007	0,03231	0,963261894	0,64635	NUDT6	nudix (nucleoside diphosphate linked moiety X)-type motif 6
1,384149716	0,00918	1,079228237	0,15246	NUP210	nucleoporin 210kDa
0,750539549	0,01633	0,90000193	0,05013	NUP85	nucleoporin 85kDa
0,524858342	0,02033	0,918276162	0,23033	NUSAP1	nucleolar and spindle associated protein 1
1,195819797	0,02986	1,068805991	0,29625	NXPH2	neurexophilin 2
1,333298677	0,04135	1,199139914	0,05543	OASL	2'-5'-oligoadenylate synthetase-like
0,833931044	0,03498	0,959929261	0,49864	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF
1,236275261	0,03222	1,151089491	0,05913	OBSL1	obscurin-like 1
0,802737389	0,04237	0,943438251	0,40901	OCA2	oculocutaneous albinism II
0,798298386	0,04159	0,963261894	0,57671	OCIAD1	OCIA domain containing 1
1,205807828	0,04478	1,084477409	0,13452	ODF3B	outer dense fiber of sperm tails 3B
0,683493726	0,01462	0,927873476	0,28886	OGDH	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)
1,28877463	0,04011	1,062159186	0,27099	OGFOD1	2-oxoglutarate and iron-dependent oxygenase domain containing 1
1,197478705	0,04051	1,101905116	0,08649	OLR1	oxidized low density lipoprotein (lectin-like) receptor 1
1,278985581	0,01648	1,134455485	0,06381	OMG	oligodendrocyte myelin glycoprotein
1,258757174	0,03141	1,111879158	0,11264	OPCML	opioid binding protein/cell adhesion molecule-like
0,750539549	0,03683	0,864537231	0,05247	OPLAH	5-oxoprolinase (ATP-hydrolysing)
1,212512819	0,02795	1,078480432	0,26427	OR7E47P	olfactory receptor, family 7, subfamily E, member 47 pseudogene
1,277213759	0,03878	1,054091423	0,25782	ORM1	orosomucoid 1
1,27367475	0,01855	1,101905116	0,16719	OSBPL10	oxysterol binding protein-like 10
0,704172113	0,00509	0,912565489	0,10208	OSBPL2	oxysterol binding protein-like 2
0,68491649	0,0027	0,888842681	0,09264	OVOL2	ovo-like 2 (Drosophila)
1,293248932	0,00989	1,091263877	0,07506	OVOL3	ovo-like 3 (Drosophila)
0,711531731	0,00935	0,89564567	0,09381	P2RX7	purinergic receptor P2X, ligand-gated ion channel, 7
1,561572985	0,0036	1,246601194	0,06926	P2RY10	purinergic receptor P2Y, G-protein coupled, 10
1,269270886	0,0491	1,076986376	0,34138	PACSIN1	protein kinase C and casein kinase substrate in neurons 1
0,765248385	0,02878	0,886996305	0,11747	PAF1	Paf1, RNA polymerase II associated factor, homolog (S. cerevisiae)
0,666187413	0,03679	0,767373048	0,14463	PAFAH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa)
1,643760375	0,0068	1,25353302	0,09499	PAG1	phosphoprotein associated with glycosphingolipid microdomains 1
0,821880187	0,01905	0,849684999	0,08669	PAN3-AS1	PAN3 antisense RNA 1 (non-protein coding)
1,264003098	0,03895	1,017479692	0,82383	PAOX	polyamine oxidase (exo-N4-amino)
1,350037985	0,02498	1,105730653	0,19494	PAOX	polyamine oxidase (exo-N4-amino)
1,776453592	0,01561	1,181811547	0,32695	PAPPA	pregnancy-associated plasma protein A, pappalysin 1
1,80125196	0,04327	1,283425898	0,10767	PAPPA	pregnancy-associated plasma protein A, pappalysin 1
0,768437591	0,03392	0,868140228	0,10644	PAQR7	progestin and adipoQ receptor family member VII
1,20664392	0,02942	1,139183377	0,05013	PAQR8	progestin and adipoQ receptor family member VIII
1,286989247	0,04943	1,119612889	0,15716	PARP15	poly (ADP-ribose) polymerase family, member 15

1,56049096	0,00372	1,085229372	0,23604	PASK	PAS domain containing serine/threonine kinase
1,2397077	0,00521	1,051901779	0,32823	PAX2	paired box 2
1,154285418	0,03969	1,061423209	0,18204	PAX3	paired box 3
1,783857039	0,0008	1,257884972	0,05994	PAX5	paired box 5
0,714992493	0,01641	1,105730653	0,36632	PBRM1	polybromo 1
1,308578071	0,03188	1,148698355	0,05396	PBX2	pre-B-cell leukemia homeobox 2
1,231998073	0,02925	1,092020546	0,07539	PCBP1-AS1	PCBP1 antisense RNA 1 (non-protein coding)
1,398616083	0,03751	0,980099415	0,76051	PCDHB4	protocadherin beta 4
0,838568184	0,03867	0,918276162	0,08517	PCGF1	polycomb group ring finger 1
1,366040257	0,00619	1,105730653	0,10295	PCGF5	polycomb group ring finger 5
0,802181166	0,04622	0,91319825	0,18517	PCID2	PCI domain containing 2
1,257884972	0,03913	0,980099415	0,6206	PCIF1	PDX1 C-terminal inhibiting factor 1
1,407368375	0,02693	1,068065408	0,35634	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1
1,337927555	0,00546	1,125838586	0,27084	PCTP	phosphatidylcholine transfer protein
1,297738767	0,02687	1,083725967	0,31121	PCYT2	phosphate cytidylyltransferase 2, ethanolamine
0,595015848	0,0247	0,817902059	0,24215	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)
0,466193243	0,01547	0,715984371	0,12739	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)
0,631126016	0,0135	0,84323111	0,05173	PDCD6IP	programmed cell death 6 interacting protein
1,277213759	0,00353	1,07997656	0,10522	PDE4D	phosphodiesterase 4D, cAMP-specific
0,579547976	0,02557	0,840896415	0,34667	PDGFC	platelet derived growth factor C
1,743516479	0,01054	1,231144413	0,06419	PDK4	pyruvate dehydrogenase kinase, isozyme 4
0,613442489	0,03925	0,826450318	0,33101	PDLIM5	PDZ and LIM domain 5
0,52268005	0,00397	0,784584098	0,0551	PDLIM5	PDZ and LIM domain 5
1,35754498	0,04204	1,047536127	0,46722	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase
1,268391399	0,04161	1,089752112	0,08973	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase
0,636397468	0,03441	0,844986384	0,09617	PEBP1	phosphatidylethanolamine binding protein 1
0,675487042	0,02309	0,866336856	0,11086	PFDN2	prefoldin subunit 2
0,750019495	0,0151	1,021012126	0,7184	PGAP2	post-GPI attachment to proteins 2
1,341642225	0,00925	1,043911927	0,41424	PGLS	6-phosphogluconolactonase
1,306765254	0,01203	1,123499903	0,08594	PGR	progesterone receptor
0,701735863	0,04465	0,903752727	0,19285	PHACTR2	phosphatase and actin regulator 2
1,204972315	0,02125	1,026689546	0,50161	PHEX	phosphate regulating endopeptidase homolog, X-linked
0,770571108	0,04546	1,006257823	0,90391	PHKA2	phosphorylase kinase, alpha 2 (liver)
0,588045625	0,04252	0,885767519	0,09747	PHKB	phosphorylase kinase, beta
2,087823855	0,00205	1,205807828	0,21809	PHLDA1	pleckstrin homology-like domain, family A, member 1
1,634670657	0,04072	1,182631	0,22557	PHLDA1	pleckstrin homology-like domain, family A, member 1
1,346300069	0,04195	1,172834949	0,12948	PHLDA1	pleckstrin homology-like domain, family A, member 1
0,634635443	0,0486	0,852044095	0,05343	PHLDB3	pleckstrin homology-like domain, family B, member 3
1,171210181	0,03523	0,961927455	0,42099	PHOX2B	paired-like homeobox 2b
0,698823486	0,04832	0,918912883	0,29285	PHYHD1	phytanoyl-CoA dioxygenase domain containing 1
2,181015465	0,00514	1,409320755	0,06477	PI15	peptidase inhibitor 15
0,418993567	0,0485	0,902500727	0,64873	PI3	peptidase inhibitor 3, skin-derived
1,257013375	0,04607	1,097331938	0,07698	PIEZO2	piezo-type mechanosensitive ion channel component 2
1,382232207	0,0174	1,114193651	0,24078	PIEZO2	piezo-type mechanosensitive ion channel component 2
1,584469622	0,04012	1,174461971	0,05454	PIGK	phosphatidylinositol glycan anchor biosynthesis, class K
1,270150983	0,00306	1,063632673	0,214	PIGP	phosphatidylinositol glycan anchor biosynthesis, class P
1,22603486	0,02811	1,113421618	0,2398	PIK3CG	phosphoinositide-3-kinase, catalytic, gamma polypeptide
1,210833084	0,02701	1,003471749	0,94014	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase, type I, beta
0,613442489	0,02597	0,783497187	0,11085	PITHD1	PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1
1,363202607	0,02203	0,987600861	0,84109	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1
1,244011653	0,01099	1,071030823	0,22918	PITPNM2	phosphatidylinositol transfer protein, membrane-associated 2
1,277213759	0,01733	1,114193651	0,27005	PKDCC	protein kinase domain containing, cytoplasmic homolog (mouse)
0,530343871	0,02848	0,776468875	0,09613	PKP1	plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)
0,776468875	0,04874	0,976031761	0,72884	PLA2G12A	phospholipase A2, group XIIA
1,2397077	0,0138	1,092020546	0,37605	PLA2G2A	phospholipase A2, group IIA (platelets, synovial fluid)
0,585605091	0,01362	0,880259014	0,15176	PLAC2	placenta-specific 2 (non-protein coding)
1,425037614	0,04259	1,271913007	0,0695	PLAUR	plasminogen activator, urokinase receptor
1,269270886	0,03843	1,095052471	0,1521	PLAUR	plasminogen activator, urokinase receptor
0,581157054	0,02641	0,856188285	0,13181	PLBD1	phospholipase B domain containing 1
0,69640574	0,04108	0,884540435	0,13304	PLCD1	phospholipase C, delta 1
0,832775771	0,02625	1,100378609	0,16314	PLCD3	phospholipase C, delta 3
0,796088099	0,01939	1,076240125	0,45983	PLCD4	phospholipase C, delta 4
1,205807828	0,03665	1,076986376	0,12232	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific)
1,196648963	0,04022	1,073260286	0,0657	PLCH1	phospholipase C, eta 1
1,314031627	0,04029	1,100378609	0,0964	PLCL2	phospholipase C-like 2
1,286989247	0,00514	1,161508732	0,05297	PLCXD2	phosphatidylinositol-specific phospholipase C, X domain containing 2
1,32408891	0,01289	1,082224645	0,27562	PLD4	phospholipase D family, member 4
1,232852325	0,02239	1,125838586	0,0862	PLEKHB1	pleckstrin homology domain containing, family B (evectins) member 1
0,759435845	0,04917	0,951318276	0,51132	PLEKHG6	pleckstrin homology domain containing, family G (with RhoGef domain) member 6
0,712518807	0,03918	0,917004043	0,21548	PLEKHM2	pleckstrin homology domain containing, family M (with RUN domain) member 2
1,454980684	0,00234	1,170398641	0,0517	PLIN2	perilipin 2
0,842062954	0,04945	0,992404375	0,90048	PLK4	polo-like kinase 4
0,709070018	0,04587	0,915733686	0,11628	PLP2	proteolipid protein 2 (colonic epithelium-enriched)
1,29145735	0,00689	1,097331938	0,41603	PLSCR1	phospholipid scramblase 1
0,831622098	0,02698	0,956608158	0,33572	PLSCR3	phospholipid scramblase 3
0,585605091	0,0359	0,890692901	0,17607	PLXNB1	plexin B1
0,575943821	0,0013	0,81056512	0,13599	PMEL	premelanosome protein
1,354724977	0,01808	1,096571589	0,09854	PML	promyelocytic leukemia
0,627201102	0,03784	1,006257823	0,92845	PMM1	phosphomannomutase 1
0,713507253	0,0121	1,095811766	0,29088	PNISR	PNN-interacting serine/arginine-rich protein
1,208317843	0,02244	1,015366101	0,77977	PODN	podocan
0,706127202	0,00466	0,927230546	0,15005	POGLUT1	protein O-glucosyltransferase 1
0,872362706	0,04446	0,985549337	0,78208	POLR2G	polymerase (RNA) II (DNA directed) polypeptide G
0,711531731	0,03117	0,890692901	0,14255	POLR3K	polymerase (RNA) III (DNA directed) polypeptide K, 12.3 kDa
0,780786493	0,04663	0,923382311	0,08149	POMP	proteasome maturation protein
1,260503392	0,01607	1,111108729	0,07975	POU2F1	POU class 2 homeobox 1
1,449946833	0,01376	1,118837101	0,18629	POU6F1	POU class 6 homeobox 1
0,647521499	0,01726	0,917004043	0,30306	PPAP2C	phosphatidic acid phosphatase type 2C
0,645728675	0,02656	0,928516852	0,08244	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,679714121	0,0224	0,920187651	0,05125	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,65747138	0,03473	0,922742493	0,06455	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,667111585	0,03832	0,925304428	0,05737	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,649319301	0,03086	0,833931044	0,07579	PPIC	peptidylprolyl isomerase C (cyclophilin C)
0,681129017	0,01246	0,922742493	0,25048	PPID	peptidylprolyl isomerase D
1,278099363	0,03574	1,164733586	0,11823	PPM1F	protein phosphatase, Mg2+/Mn2+ dependent, 1F
0,613867842	0,0124	0,959929261	0,67739	PPP1R16A	protein phosphatase 1, regulatory (inhibitor) subunit 16A
0,725476104	0,01505	0,851453708	0,05186	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isozyme
0,622437118	0,00161	0,895025071	0,17601	PPP2R2C	protein phosphatase 2, regulatory subunit B, gamma
1,367935304	0,03013	1,033114388	0,60043	PPP2R5C	protein phosphatase 2, regulatory subunit B', gamma
1,159095952	0,04858	1,036701101	0,36531	PPP4R1L	protein phosphatase 4, regulatory subunit 1-like
1,257013375	0,01265	1,172834949	0,06364	PPY	pancreatic polypeptide
1,347233577	0,03827	1,144724161	0,05317	PQLC3	PQ loop repeat containing 3
0,705637922	0,0264	0,976031761	0,71619	PRC1	protein regulator of cytokinesis 1
1,633537982	0,00394	1,130530567	0,26128	PRDM1	PR domain containing 1, with ZNF domain
0,62546454	0,04351	1,016070143	0,8394	PRDX1	peroxiredoxin 1
1,342572503	0,02028	1,094293701	0,171	PRH1	proline-rich protein HaeIII subfamily 1
0,693515485	0,00391	0,910669834	0,14831	PRICKLE2	prickle homolog 2 (Drosophila)
1,380317353	0,0261	1,217566019	0,08847	PRKACA	protein kinase, cAMP-dependent, catalytic, alpha
1,238848698	0,01697	1,051901779	0,26759	PRKACA	protein kinase, cAMP-dependent, catalytic, alpha
1,871246996	0,01798	1,157490217	0,2097	PRKAR2B	protein kinase, cAMP-dependent, regulatory, type II, beta
1,17772279	0,04959	1,057018041	0,35188	PRKCB	protein kinase C, beta
0,78132788	0,00624	0,920187651	0,08493	PRLR	prolactin receptor
0,670821112	0,03281	0,90062598	0,07882	PRMT2	protein arginine methyltransferase 2
0,76101669	0,04337	0,874784765	0,09874	PRPF38A	PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
1,196648963	0,01718	1,082975046	0,15454	PRPH2	peripherin 2 (retinal degeneration, slow)
1,444930398	0,01799	1,049716684	0,4072	PRSS16	protease, serine, 16 (thymus)
0,574747424	0,01842	0,955945318	0,65209	PRSS8	protease, serine, 8
1,28788163	0,0109	1,158292806	0,06008	PRX	periaxin
1,274560627	0,01514	0,974679631	0,64176	PSEN2	presenilin 2 (Alzheimer disease 4)
0,815637493	0,03235	0,90000193	0,05659	PSMA1	proteasome (prosome, macropain) subunit, alpha type, 1
0,513344773	0,00721	0,90000193	0,444	PSORS1C2	psoriasis susceptibility 1 candidate 2
1,240567298	0,04347	1,085229372	0,17867	PSPC1	paraspeckle component 1
0,804408371	0,00823	1,039579435	0,60744	PTGER3	prostaglandin E receptor 3 (subtype EP3)
0,753667455	0,0126	0,878430468	0,12221	PTGER3	prostaglandin E receptor 3 (subtype EP3)
0,697371833	0,01722	0,885153765	0,05678	PTGFRN	prostaglandin F2 receptor negative regulator
1,695839929	0,00623	1,336074078	0,05634	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
2,386671486	0,00281	1,193335743	0,42447	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
0,76154437	0,02764	0,878430468	0,09366	PTK6	PTK6 protein tyrosine kinase 6
0,724471077	0,02829	0,851453708	0,11051	PTP4A1	protein tyrosine phosphatase type IVA, member 1
1,303147149	0,02276	1,057018041	0,41729	PTPDC1	protein tyrosine phosphatase domain containing 1
0,785672517	0,00245	0,899378312	0,11569	PTPN21	protein tyrosine phosphatase, non-receptor type 21
0,608783009	0,00408	0,793333843	0,07513	PTPN3	protein tyrosine phosphatase, non-receptor type 3
1,502119927	0,03364	1,004167543	0,96245	PTPRD	protein tyrosine phosphatase, receptor type, D
0,778085177	0,03413	1,040300267	0,48039	PTTG1	pituitary tumor-transforming 1
1,411275843	0,01053	1,21167266	0,06155	PYHIN1	pyrin and HIN domain family, member 1
0,678302164	0,02452	0,812815602	0,08762	QSER1	glutamine and serine rich 1
1,179356592	0,04967	1,062895674	0,27074	RAB11FIP4	RAB11 family interacting protein 4 (class II)
1,22010051	0,01414	1,084477409	0,14577	RAB15	RAB15, member RAS onocogene family
0,688247801	0,01121	0,886996305	0,08609	RAB24	RAB24, member RAS oncogene family
1,249196126	0,00655	1,138394029	0,12694	RAB27A	RAB27A, member RAS oncogene family
1,225185332	0,04998	1,088242442	0,13275	RAB3B	RAB3B, member RAS oncogene family
0,643048742	0,01725	0,803850991	0,07575	RAB3GAP1	RAB3 GTPase activating protein subunit 1 (catalytic)
1,204972315	0,01862	1,060687741	0,3918	RAB43	RAB43, member RAS oncogene family
0,463615273	0,04697	0,672683604	0,08651	RAB5A	RAB5A, member RAS oncogene family
0,511214265	0,00186	0,732550437	0,11369	RAB6A	RAB6A, member RAS oncogene family
0,803293997	0,00924	1,011152081	0,85608	RAB7B	RAB7B, member RAS oncogene family
0,624598063	0,02036	0,840896415	0,07376	RABEP2	rabaptin, RAB GTPase binding effector protein 2
0,676424116	0,00575	0,774855931	0,06652	RABL3	RAB, member of RAS oncogene family-like 3

0,699792933	0,0035	0,753667455	0,09328	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2
0,741747467	0,02834	0,905006463	0,21706	RANBP10	RAN binding protein 10
0,453130969	0,01495	0,815072332	0,09305	RAPGEFL1	Rap guanine nucleotide exchange factor (GEF)-like 1
1,269270886	0,04072	1,071773463	0,26403	RARRES1	retinoic acid receptor responder (tazarotene induced) 1
1,349102534	0,0087	1,141554707	0,12824	RARRES1	retinoic acid receptor responder (tazarotene induced) 1
0,76418826	0,01803	0,895025071	0,08854	RASAL1	RAS protein activator like 1 (GAP1 like)
0,843815796	0,04126	1,014662547	0,78931	RBL1	retinoblastoma-like 1 (p107)
1,381274448	0,04407	1,108800644	0,09757	RBM33	RNA binding motif protein 33
0,839149637	0,03009	0,93109482	0,09004	RBMX	RNA binding motif protein, X-linked
0,765778999	0,03763	0,930449658	0,22937	RBMX2	RNA binding motif protein, X-linked 2
1,459020344	0,01457	1,035982764	0,55169	RBPMS	RNA binding protein with multiple splicing
1,229438867	0,03565	1,102669163	0,09475	RBPMS2	RNA binding protein with multiple splicing 2
0,71400199	0,00203	0,84323111	0,05966	RBX1	ring-box 1, E3 ubiquitin protein ligase
1,679462986	0,00521	1,267512522	0,12607	RDH10	retinol dehydrogenase 10 (all-trans)
0,703684188	0,0463	1,050444544	0,50064	RDH11	retinol dehydrogenase 11 (all-trans/9-cis/11-cis)
0,777546036	0,00884	0,845572287	0,05105	RDH13	retinol dehydrogenase 13 (all-trans/9-cis)
0,764718139	0,04331	1,020304659	0,76769	REEP1	receptor accessory protein 1
0,668500248	0,02795	0,822450069	0,05295	REPS1	RALBP1 associated Eps domain containing 1
1,325007017	0,03031	1,127400412	0,11888	RERG	RAS-like, estrogen-regulated, growth inhibitor
0,792234811	0,02499	0,922103118	0,29972	RFC1	replication factor C (activator 1) 1, 145kDa
1,22010051	0,03566	0,984184022	0,78571	RFFL	ring finger and FYVE-like domain containing 1
1,310393404	0,0119	1,125058485	0,0726	RGL3	ral guanine nucleotide dissociation stimulator-like 3
1,163926534	0,03855	0,941478465	0,27419	RGS13	regulator of G-protein signaling 13
0,679243142	0,03074	0,963261894	0,65822	RGS14	regulator of G-protein signaling 14
1,397646972	0,00291	1,110338834	0,20036	RGS19	regulator of G-protein signaling 19
1,268391399	0,01904	1,059218335	0,22747	RGS6	regulator of G-protein signaling 6
0,707106781	0,0112	0,919550046	0,5142	RHBDL2	rhomboid, veinlet-like 2 (Drosophila)
0,613867842	0,0218	0,77271055	0,10033	RHBDL2	rhomboid, veinlet-like 2 (Drosophila)
1,4054187	0,01462	1,072516617	0,4833	RHOB	ras homolog gene family, member B
1,391846392	0,01514	1,104964485	0,12745	RHOF	ras homolog gene family, member F (in filopodia)
1,448942155	0,02455	1,135242102	0,05703	RHPN2	rhophilin, Rho GTPase binding protein 2
0,827596816	0,03001	0,930449658	0,25181	RIMS3	regulating synaptic membrane exocytosis 3
0,668037039	0,03513	0,851453708	0,12358	RIT1	Ras-like without CAAX 1
1,17772279	0,04008	1,009051634	0,91081	RMST	rhabdomyosarcoma 2 associated transcript (non-protein coding)
0,685391402	0,01323	0,69640574	0,11893	RNASE7	ribonuclease, RNase A family, 7
0,544498508	0,00226	0,744322628	0,23568	RNASE7	ribonuclease, RNase A family, 7
0,521594297	0,02015	0,727490342	0,35817	RNASE7	ribonuclease, RNase A family, 7
1,289668251	0,02844	1,121943481	0,10757	RNF130	ring finger protein 130
1,138394029	0,04794	0,939522749	0,24993	RNF17	ring finger protein 17
1,392811481	0,02805	1,235418637	0,09238	RNF19B	ring finger protein 19B
1,261377409	0,03808	1,057750964	0,44184	RNF207	ring finger protein 207
1,38991822	0,02158	1,215036792	0,09881	RNF208	ring finger protein 208
1,376495602	0,00686	1,108800644	0,09957	RNF213	ring finger protein 213
0,685866644	0,00844	0,8362464	0,0799	RNF39	ring finger protein 39
1,476314406	0,00315	1,121166078	0,077	RNF5	ring finger protein 5
0,621574834	0,00782	0,825877665	0,29744	RNF6	ring finger protein (C3H2C3 type) 6
0,643494624	0,03573	0,893785162	0,16011	RNF7	ring finger protein 7
0,665725807	0,02164	0,925304428	0,19186	RNF7	ring finger protein 7
0,623300597	0,02045	0,891310496	0,0715	ROMO1	reactive oxygen species modulator 1
0,694477568	0,00275	0,908778116	0,35324	ROR1	receptor tyrosine kinase-like orphan receptor 1
0,790589117	0,01654	0,936272247	0,36314	ROR1	receptor tyrosine kinase-like orphan receptor 1
0,679714121	0,01254	0,849684999	0,14508	RPAP3	RNA polymerase II associated protein 3
1,32317144	0,02138	1,00556058	0,95861	RPH3AL	rabphilin 3A-like (without C2 domains)
0,832775771	0,02372	0,933679945	0,05298	RPL12	ribosomal protein L12
0,805524291	0,02593	0,927873476	0,09923	RPL15	ribosomal protein L15
0,61301743	0,02294	0,976031761	0,77991	RPL23	ribosomal protein L23
0,852634892	0,04526	0,998614666	0,96508	RPL23A	ribosomal protein L23a
0,74277646	0,03853	0,967947027	0,54106	RPL26	ribosomal protein L26
0,737645729	0,02001	0,939522749	0,0564	RPL31	ribosomal protein L31
0,87417862	0,0458	0,951318276	0,15472	RPL32	ribosomal protein L32
0,679243142	0,03217	0,87539133	0,17055	RPL32P3	ribosomal protein L32 pseudogene 3
0,704172113	0,02766	0,923382311	0,14515	RPL35A	ribosomal protein L35a
0,687770909	0,03835	0,949342121	0,24951	RPL36A	ribosomal protein L36a
0,628506687	0,04715	0,964598185	0,50524	RPLP2	ribosomal protein, large, P2
0,716480825	0,01097	0,86934456	0,05483	RPP14	ribonuclease P/MRP 14kDa subunit
0,659296807	0,03579	0,840313752	0,05771	RPS23	ribosomal protein S23
0,595015848	0,04789	0,955282936	0,27129	RPS24	ribosomal protein S24
0,653835674	0,02142	0,950000383	0,1832	RPS25	ribosomal protein S25
1,373636233	0,0483	0,981459064	0,73975	RPS27L	ribosomal protein S27-like
0,728499557	0,03746	0,929804943	0,05177	RPS4X	ribosomal protein S4, X-linked
1,31494276	0,02454	1,169587664	0,06921	RPS6KA1	ribosomal protein S6 kinase, 90kDa, polypeptide 1
0,622005827	0,04419	0,89688816	0,11728	RPS7	ribosomal protein S7
0,842062954	0,04156	0,923382311	0,05021	RPS7	ribosomal protein S7
0,670356296	0,04761	0,961260928	0,40407	RPS8	ribosomal protein S8
0,856188285	0,04421	0,933679945	0,13931	RPSA	ribosomal protein SA
0,749499801	0,03382	0,894404902	0,12012	RRAGA	Ras-related GTP binding A
0,779704843	0,04678	0,820172911	0,06384	RSPH10B2	radial spoke head 10 homolog B2 (Chlamydomonas)
0,779704843	0,0098	0,864537231	0,11155	RUFY2	RUN and FYVE domain containing 2
1,282536603	0,03226	1,110338834	0,13907	RUNX1	runt-related transcription factor 1
0,67877249	0,04106	0,921464186	0,39974	RYK	RYK receptor-like tyrosine kinase
0,720464874	0,02979	1,006257823	0,95417	S100A12	S100 calcium binding protein A12
0,763658749	0,03445	0,803293997	0,11395	SAC3D1	SAC3 domain containing 1
1,25353302	0,0347	1,105730653	0,09861	SALL2	sal-like 2 (Drosophila)
1,216722359	0,0203	1,066585781	0,3743	SAMD4A	sterile alpha motif domain containing 4A
1,474269217	0,04509	1,177722279	0,1935	SAMHD1	SAM domain and HD domain 1
1,35754498	0,02086	1,095811766	0,08642	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1
0,558256481	0,02226	0,679714121	0,09318	SCAMP1	secretory carrier membrane protein 1
1,295940965	0,04666	1,071773463	0,26014	SCG2	secretogranin II
0,828170661	0,02896	1,002081605	0,95853	SCIN	scinderin
1,431968741	0,0139	1,207480591	0,13959	SCML4	sex comb on midleg-like 4 (Drosophila)
0,802181166	0,02364	0,943438251	0,23828	SCRN3	secernin 3
1,570256237	0,01997	1,229438867	0,12088	SDC2	syndecan 2
1,249196126	0,03156	1,068065408	0,25705	SDHD	succinate dehydrogenase complex, subunit D, integral membrane protein
1,229438867	0,02147	1,053361036	0,4065	SDK2	sidekick homolog 2 (chicken)
1,723092319	0,01863	1,143138335	0,13519	SDPR	serum deprivation response
1,255271991	0,0373	1,074749173	0,2623	SEC14L3	SEC14-like 3 (S. cerevisiae)
1,782620992	0,02078	1,143138335	0,15096	SEC24A	SEC24 family, member A (S. cerevisiae)
1,812523877	0,00618	1,188383105	0,06823	SEC24D	SEC24 family, member D (S. cerevisiae)
1,237990291	0,04913	1,074749173	0,156	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans)
1,246601194	0,01365	1,099616149	0,13859	SELK	selenoprotein K
0,683493726	0,03242	0,943438251	0,55827	SEMA3F	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F
0,474342158	0,03026	0,604997045	0,0843	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13
0,778085177	0,03804	0,89688816	0,14928	SETD8	SET domain containing (lysine methyltransferase) 8
0,840896415	0,04528	0,876605721	0,06757	SETDB2	SET domain, bifurcated 2
1,224336392	0,02269	1,107264584	0,0769	SEZ6	seizure related 6 homolog (mouse)
1,286097483	0,0274	1,118061851	0,37158	SEZ6L2	seizure related 6 homolog (mouse)-like 2
1,356604327	0,02141	1,057750964	0,28022	SFT2D1	SFT2 domain containing 1
1,155886707	0,04657	1,065108203	0,18663	SFTPB	surfactant protein B
0,677832163	0,00843	0,908778116	0,12596	SFTPD	surfactant protein D
0,746389192	0,04809	0,855595026	0,11642	SGMS2	sphingomyelin synthase 2
1,29056249	0,02268	1,099616149	0,07687	SGSM1	small G protein signaling modulator 1
0,791685866	0,04143	1,011152081	0,80232	SGSM2	small G protein signaling modulator 2
1,373636233	0,0138	1,117287138	0,27763	SH2D1A	SH2 domain containing 1A
1,761738748	0,02159	1,134455485	0,16859	SH2D1B	SH2 domain containing 1B
0,593779833	0,02378	0,863339559	0,11081	SH3BGRL	SH3 domain binding glutamic acid-rich protein like
1,264879542	0,04233	1,068805991	0,22077	SH3TC2	SH3 domain and tetratricopeptide repeats 2
1,204137381	0,01464	1,067325338	0,11281	SHISA8	shisa homolog 8 (Xenopus laevis)
1,298638603	0,0129	1,195819797	0,06243	SHROOM1	shroom family member 1
1,209994089	0,02632	1,049716684	0,17481	SIGLEC8	sialic acid binding Ig-like lectin 8
1,314031627	0,00734	1,108800644	0,0853	SIRPD	signal-regulatory protein delta
1,368883813	0,01339	1,044635763	0,368	SIRT4	sirtuin 4
1,312211255	0,01004	1,096571589	0,26621	SIX1	SIX homeobox 1
1,411275843	0,00055	1,077733145	0,1625	SKAP2	src kinase associated phosphoprotein 2
0,718470088	0,01047	0,879039561	0,08062	SLAIN2	SLAIN motif family, member 2
0,537747195	0,02598	0,788946841	0,09156	SLAIN2	SLAIN motif family, member 2
0,511214265	0,01015	0,757333158	0,13701	SLAIN2	SLAIN motif family, member 2
1,258757174	0,04132	1,108800644	0,06598	SLC17A3	solute carrier family 17 (sodium phosphate), member 3
1,388955136	0,04118	1,194163187	0,05693	SLC17A5	solute carrier family 17 (anion/sugar transporter), member 5
1,268391399	0,02757	1,036701101	0,47431	SLC19A1	solute carrier family 19 (folate transporter), member 1
1,442928687	0,04675	1,21335356	0,15823	SLC1A1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1
1,566994374	0,0075	1,167158102	0,19583	SLC1A4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4
1,17772279	0,02696	1,062159186	0,23132	SLC1A7	solute carrier family 1 (glutamate transporter), member 7
2,056227653	0,03114	1,132883885	0,40587	SLC20A1	solute carrier family 20 (phosphate transporter), member 1
1,220946513	0,04437	1,066585781	0,2176	SLC24A2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2
1,342572503	0,0208	1,108032348	0,08195	SLC24A4	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4
1,296839555	0,02713	1,092777739	0,26119	SLC25A23	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23
0,792784137	0,01538	0,946057647	0,29489	SLC25A27	solute carrier family 25, member 27
0,741233505	0,04137	0,987600861	0,8631	SLC28A3	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3
1,320422841	0,03072	1,118061851	0,11913	SLC2A5	solute carrier family 2 (facilitated glucose/fructose transporter), member 5
1,417157397	0,00682	1,200803427	0,06675	SLC2A6	solute carrier family 2 (facilitated glucose transporter), member 6
0,759962428	0,04413	0,918276162	0,25234	SLC31A1	solute carrier family 31 (copper transporters), member 1
1,445932295	0,0383	0,923382311	0,42618	SLC33A1	solute carrier family 33 (acetyl-CoA transporter), member 1
1,275444392	0,00807	1,112650121	0,12963	SLC35D1	solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1
1,212512819	0,04726	1,114193651	0,06124	SLC39A3	solute carrier family 39 (zinc transporter), member 3
1,199139914	0,02957	1,117287138	0,12421	SLC39A3	solute carrier family 39 (zinc transporter), member 3
0,390934822	0,0159	0,76630998	0,1238	SLC39A6	solute carrier family 39 (zinc transporter), member 6
0,45565064	0,04372	0,822450069	0,27533	SLC39A6	solute carrier family 39 (zinc transporter), member 6
1,374588696	0,03467	1,073260286	0,3006	SLC39A8	solute carrier family 39 (zinc transporter), member 8

1,504203751	0,01286	1,062895674	0,3285	SLC41A2	solute carrier family 41, member 2
1,207480591	0,03818	1,071773463	0,23407	SLC43A2	solute carrier family 43, member 2
0,431969094	0,00027	0,84323111	0,11015	SLC44A1	solute carrier family 44, member 1
1,45195828	0,01528	1,126619228	0,26152	SLC44A1	solute carrier family 44, member 1
0,689202576	0,0013	0,886996305	0,15072	SLC44A5	solute carrier family 44, member 5
0,643048742	0,01326	0,76630998	0,05007	SLC44A5	solute carrier family 44, member 5
1,300440147	0,04284	1,224336392	0,06602	SLC45A4	solute carrier family 45, member 4
1,396678532	0,01344	1,066585781	0,38729	SLC47A1	solute carrier family 47, member 1
0,494142826	0,00226	0,85086373	0,13687	SLC47A2	solute carrier family 47, member 2
1,366987452	0,01945	1,082975046	0,13896	SLC4A8	solute carrier family 4, sodium bicarbonate cotransporter, member 8
1,22858698	0,02567	1,081474763	0,05264	SLC6A1	solute carrier family 6 (neurotransmitter transporter, GABA), member 1
1,17772279	0,04094	1,018891197	0,77188	SLC6A2	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2
1,492778383	0,00619	1,163926534	0,1767	SLC7A11	solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11
0,643048742	0,01142	0,903752727	0,2634	SLC7A8	solute carrier family 7 (amino acid transporter light chain, L system), member 8
1,181811547	0,03827	0,977385766	0,61468	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
1,31494276	0,03487	1,108032348	0,07972	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
1,25092908	0,04382	1,009051634	0,88108	SLC8A2	solute carrier family 8 (sodium/calcium exchanger), member 2
0,773782497	0,04862	1,021012126	0,86249	SLC9A9	solute carrier family 9 (sodium/hydrogen exchanger), member 9
0,7031966	0,01146	0,938221197	0,4394	SLPI	secretory leukocyte peptidase inhibitor
0,720464874	0,03613	0,842062954	0,08342	SMAD4	SMAD family member 4
1,495885758	0,00927	1,151887642	0,08569	SMAD6	SMAD family member 6
1,304050735	0,019	0,997231251	0,96594	SMAD7	SMAD family member 7
0,754712984	0,03125	0,90312651	0,40239	SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)
0,704660378	0,02519	0,844400887	0,14949	SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)
0,743806881	0,00685	0,885153765	0,26356	SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)
1,216722359	0,04774	1,065108203	0,23627	SNAI1	snail homolog 1 (Drosophila)
1,592176198	0,04631	0,874784765	0,10482	SNCA	synuclein, alpha (non A4 component of amyloid precursor)
1,316766922	0,02951	1,079228237	0,49447	SNCAIP	synuclein, alpha interacting protein
0,672683604	0,03844	0,867538687	0,05071	SNHG1	small nucleolar RNA host gene 1 (non-protein coding)
1,182631	0,04614	0,996540263	0,92197	SNHG4	small nucleolar RNA host gene 4 (non-protein coding)
0,774319028	0,03488	0,889458994	0,08101	SNHG7	small nucleolar RNA host gene 7 (non-protein coding)
0,604997045	0,01157	0,888226796	0,11087	SNHG8	small nucleolar RNA host gene 8 (non-protein coding)
1,350974085	0,00928	1,056285625	0,50656	SNORA71B	small nucleolar RNA, H/ACA box 71B
0,718968266	0,01604	0,971980988	0,72927	SNORD104	small nucleolar RNA, C/D box 104
0,489710149	0,02592	0,853817714	0,08793	SNW1	SNW domain containing 1
1,914542916	0,00413	1,22603486	0,11102	SNX10	sorting nexin 10
1,203303026	0,01109	1,064370182	0,2231	SNX13	sorting nexin 13
1,231144413	0,03743	1,024556823	0,68364	SNX18	sorting nexin 18
1,644900137	0,01383	1,167967395	0,09452	SNX31	sorting nexin 31
1,311302014	0,02998	1,054091423	0,45551	SNX5	sorting nexin 5
0,858565436	0,04874	0,925946023	0,35548	SNX5	sorting nexin 5
1,525201653	0,03536	1,120389214	0,21022	SOD2	superoxide dismutase 2, mitochondrial
1,456999114	0,03114	1,268391399	0,0589	SOD3	superoxide dismutase 3, extracellular
1,589970502	0,036	1,01395948	0,86491	SOST	sclerostin
1,21335356	0,03469	1,060687741	0,10997	SOX11	SRY (sex determining region Y)-box 11
1,51887169	0,01529	1,179356592	0,08838	SOX17	SRY (sex determining region Y)-box 17
0,549808075	0,00092	0,856188285	0,21063	SOX2	SRY (sex determining region Y)-box 2
1,273677475	0,00764	1,074004472	0,15169	SP110	SP110 nuclear body protein
1,388955136	0,00273	1,071030823	0,23142	SP110	SP110 nuclear body protein
1,338855257	0,01974	1,080725402	0,18466	SP110	SP110 nuclear body protein
1,257013375	0,02996	1,108800644	0,1398	SP3	Sp3 transcription factor
1,249196126	0,01966	1,059218335	0,17449	SPAG5-AS1	SPAG5 antisense RNA 1 (non-protein coding)
1,572434584	0,03203	0,917639882	0,55107	SPCS2	signal peptidase complex subunit 2 homolog (S. cerevisiae)
1,265756594	0,01998	0,998614666	0,99004	SPIN3	spindlin family, member 3
0,66296288	0,00282	0,780786493	0,06985	SPINK7	serine peptidase inhibitor, Kazal type 7 (putative)
0,706616822	0,01343	0,933679945	0,57958	SPIRE1	spire homolog 1 (Drosophila)
0,78132788	0,03675	0,947370071	0,64621	SPIRE1	spire homolog 1 (Drosophila)
0,762600827	0,00581	0,90000193	0,06745	SPIRE2	spire homolog 2 (Drosophila)
0,401090583	0,01023	0,848507902	0,53035	SPRR2G	small proline-rich protein 2G
0,846158597	0,04928	0,991716731	0,90009	SRD5A3	steroid 5 alpha-reductase 3
0,562529242	0,03654	0,886381699	0,2857	SREK1	splicing regulatory glutamine/lysine-rich protein 1
0,775393206	0,01964	0,971307496	0,60956	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2
1,167158102	0,03478	1,111108729	0,07237	SRL	sarcalumenin
0,763129604	0,04291	0,905006463	0,07857	SRP14	signal recognition particle 14kDa (homologous Alu RNA binding protein)
0,616426163	0,01913	0,952637998	0,46205	SRP72	signal recognition particle 72kDa
0,682073917	0,04135	0,824733549	0,25629	SRPK2	SRSF protein kinase 2
0,720464874	0,00868	0,969289817	0,66196	SRPK2	SRSF protein kinase 2
1,205807828	0,00997	1,076240125	0,26623	SRPRB	signal recognition particle receptor, B subunit
0,635515845	0,00798	0,8362464	0,05217	SRSF10	serine/arginine-rich splicing factor 10
0,682073917	0,04332	0,922103118	0,56084	SSFA2	sperm specific antigen 2
1,305859787	0,01474	1,068805991	0,15853	SSX1	synovial sarcoma, X breakpoint 1
0,682073917	0,03592	0,915733686	0,07969	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
1,187559666	0,04778	1,029540083	0,53442	ST6GALNAC5	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5
1,214194884	0,04217	1,140763716	0,0565	ST6GALNAC6	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6
1,358486285	0,03092	1,055553718	0,4702	STAC	SH3 and cysteine rich domain
1,471206746	0,03566	1,184271612	0,07343	STAMBPL1	STAM binding protein-like 1
0,530343871	0,01214	0,787307977	0,07188	STARD10	StAR-related lipid transfer (START) domain containing 10
1,788809804	0,01301	1,167158102	0,05372	STARD3NL	STARD3 N-terminal like
1,266634254	0,02947	1,058484395	0,22824	STAT5B	signal transducer and activator of transcription 5B
1,394743666	0,00613	1,104964485	0,17695	STK17B	serine/threonine kinase 17b
1,237990291	0,00415	1,039579435	0,3264	STK32B	serine/threonine kinase 32B
2,077718207	0,02978	1,283425898	0,05601	STK4	serine/threonine kinase 4
0,663882579	0,00971	0,922103118	0,34764	STOX2	storkhead box 2
1,350974085	0,01772	1,081474763	0,10231	STRADB	STE20-related kinase adaptor beta
0,723467443	0,00788	0,868742185	0,06081	STX17	syntaxin 17
0,709561678	0,01757	0,968618189	0,58829	STX4	syntaxin 4
0,717474767	0,00741	0,957271458	0,55787	STX6	syntaxin 6
0,812815602	0,01918	0,911301281	0,09573	STX8	syntaxin 8
1,187559666	0,03252	0,955945318	0,40135	STXBP6	syntaxin binding protein 6 (amisyn)
0,807201075	0,02055	0,949342121	0,33633	SUGP2	SURP and G patch domain containing 2
1,392811481	0,00984	1,132883885	0,08157	SULT1E1	sulfotransferase family 1E, estrogen-preferring, member 1
0,708578698	0,01991	0,902500727	0,05247	SUPT16H	suppressor of Ty 16 homolog (S. cerevisiae)
0,778085177	0,00861	0,953298545	0,45157	SUPV3L1	suppressor of var1, 3-like 1 (S. cerevisiae)
1,379360922	0,00484	1,160703914	0,13979	SUSD2	sushi domain containing 2
1,53581027	0,00331	1,099616149	0,12308	SVIP	small VCP/p97-interacting protein
1,306765254	0,03879	1,062895674	0,33145	SYMPK	symplekin
1,242288282	0,01159	1,114193651	0,08908	SYNPO2	synaptopodin 2
0,635515845	0,03603	0,816768991	0,20964	SYPL1	synaptophysin-like 1
0,783497187	0,01717	0,988285652	0,82826	SYT8	synaptotagmin VIII
1,331451613	0,00236	1,133669413	0,0633	TACC1	transforming, acidic coiled-coil containing protein 1
0,485653748	0,04429	0,828744904	0,4687	TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa
0,732042848	0,04066	0,918912883	0,14369	TAOK3	TAO kinase 3
0,772175133	0,03706	0,927873476	0,21581	TBC1D14	TBC1 domain family, member 14
1,180174343	0,02831	1,019597683	0,70544	TBC1D2B	TBC1 domain family, member 2B
1,25353302	0,0316	1,138394029	0,10263	TBKBP1	TBK1 binding protein 1
1,217566019	0,04608	1,00486382	0,94379	TBX21	T-box 21
1,252664439	0,03868	1,146312186	0,07803	TBXA2R	thromboxane A2 receptor
0,822450069	0,03805	0,940174203	0,20875	TCEB3	transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)
1,260503392	0,04791	1,012554807	0,84119	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
1,620006947	0,02062	0,944747041	0,53172	TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)
0,762600827	0,02036	0,918912883	0,28787	TCHP	trichoplein, keratin filament binding
1,199971382	0,04522	1,068065408	0,17567	TDRKH	tudor and KH domain containing
1,273677475	0,02147	1,035264924	0,51298	TDRKH	tudor and KH domain containing
0,817902059	0,02008	0,954621014	0,42867	TECPR2	tectonin beta-propeller repeat containing 2
1,237990291	0,02947	1,034547582	0,61574	TEX11	testis expressed 11
0,815072332	0,04062	0,898132373	0,11553	TFDP2	transcription factor Dp-2 (E2F dimerization partner 2)
0,788946841	0,04852	0,985549337	0,85506	TFDP2	transcription factor Dp-2 (E2F dimerization partner 2)
1,381274448	0,0279	1,115739322	0,41743	TGFB1I1	transforming growth factor beta 1 induced transcript 1
0,76101669	0,02409	0,962594443	0,51041	THADA	thyroid adenoma associated
0,734584317	0,00163	0,920825697	0,25706	THG1L	tRNA-histidine guanylyltransferase 1-like (S. cerevisiae)
0,682546859	0,04699	1,020304659	0,71395	THYN1	thymocyte nuclear protein 1
0,794985251	0,00823	0,805524291	0,0599	TIA1	TIA1 cytotoxic granule-associated RNA binding protein
0,52123288	0,0071	0,892546971	0,51978	TIAM1	T-cell lymphoma invasion and metastasis 1
1,441928871	0,00265	1,018891197	0,85032	TIFA	TRAF-interacting protein with forkhead-associated domain
0,792234811	0,04355	0,943438251	0,28113	TIMM23	translocase of inner mitochondrial membrane 23 homolog (yeast)
0,520150133	0,00246	0,796640096	0,09833	TJP1	tight junction protein 1 (zona occludens 1)
0,690158677	0,00253	0,922742493	0,3361	TLCD1	TLC domain containing 1
1,59549048	0,00068	1,260503392	0,112	TLR1	toll-like receptor 1
1,28788163	0,00507	1,140763716	0,10479	TLR2	toll-like receptor 2
0,689202576	0,00082	0,885153765	0,0816	TLR5	toll-like receptor 5
1,543280175	0,02516	1,076986376	0,41577	TLR7	toll-like receptor 7
0,549808075	0,02615	0,813943185	0,06171	TMTSF2	transmembrane 7 superfamily member 2
1,208317843	0,04923	1,041021598	0,46455	TMC6	transmembrane channel-like 6
1,272794935	0,01653	1,083725967	0,2529	TMED10	transmembrane emp24-like trafficking protein 10 (yeast)
1,168777249	0,0301	1,054091423	0,18789	TMED5	transmembrane emp24 protein transport domain containing 5
1,379360922	0,02224	1,065108203	0,50918	TMED5	transmembrane emp24 protein transport domain containing 5
1,278985581	0,04406	1,062895674	0,11059	TMEM106A	transmembrane protein 106A
1,317679952	0,02989	1,079228237	0,26109	TMEM108	transmembrane protein 108
0,742261785	0,01405	0,961260928	0,52413	TMEM11	transmembrane protein 11
0,792234811	0,04379	0,847919965	0,0546	TMEM125	transmembrane protein 125
0,668500248	0,00752	0,893785162	0,15015	TMEM134	transmembrane protein 134
1,154285418	0,03647	1,028826708	0,63443	TMEM150A	transmembrane protein 150A
0,645281245	0,00959	0,845572287	0,15701	TMEM168	transmembrane protein 168
1,531557997	0,03366	1,010451446	0,85376	TMEM170B	transmembrane protein 170B
1,28788163	0,0206	1,092777739	0,15858	TMEM174	transmembrane protein 174
1,550786413	0,04039	0,941478465	0,34009	TMEM38B	transmembrane protein 38B
0,601234624	0,03715	0,832198735	0,19007	TMEM45A	transmembrane protein 45A
0,815637493	0,04357	0,909408252	0,1046	TMEM50A	transmembrane protein 50A

1,194163187	0,04094	1,085229372	0,2507	TMEM53	transmembrane protein 53
1,267512522	0,04659	1,055553718	0,18528	TMEM56	transmembrane protein 56
0,792784137	0,0322	0,894404902	0,12457	TMEM60	transmembrane protein 60
0,720964436	0,00741	0,902500727	0,20999	TMF1	TATA element modulatory factor 1
0,735603373	0,03126	0,866937564	0,05064	TMLHE	trimethyllysine hydroxylase, epsilon
0,644834125	0,03091	0,724973416	0,16577	TMOD3	tropomodulin 3 (ubiquitous)
0,566834706	0,00063	0,724973416	0,10658	TMOD3	tropomodulin 3 (ubiquitous)
1,267512522	0,00395	0,97874165	0,70214	TNF	tumor necrosis factor
1,721898377	0,04566	1,248330549	0,11951	TNFAIP6	tumor necrosis factor, alpha-induced protein 6
1,280759861	0,02256	1,205807828	0,05038	TNFRSF18	tumor necrosis factor receptor superfamily, member 18
0,519069635	0,00123	0,862143545	0,40525	TNFRSF19	tumor necrosis factor receptor superfamily, member 19
0,552099424	0,03064	0,879039561	0,26623	TNFRSF25	tumor necrosis factor receptor superfamily, member 25
1,29145735	0,03129	1,128964405	0,06281	TNFRSF9	tumor necrosis factor receptor superfamily, member 9
1,196648963	0,04056	1,071030823	0,20874	TNFSF11	tumor necrosis factor (ligand) superfamily, member 11
1,310393404	0,02263	1,134455485	0,22311	TNFSF12	tumor necrosis factor (ligand) superfamily, member 12
1,271031689	0,03599	0,925946023	0,39082	TNFSF9	tumor necrosis factor (ligand) superfamily, member 9
1,270150983	0,01514	1,069547088	0,23023	TNIK	TRAF2 and NCK interacting kinase
0,71946679	0,01256	0,988285652	0,90129	TNNT1	troponin T type 1 (skeletal, slow)
1,348167732	0,03708	1,098092814	0,43416	TNS1	tensin 1
1,308578071	0,04805	0,992404375	0,90349	TNS3	tensin 3
0,698823486	0,00438	0,920187651	0,20626	TOP1MT	topoisomerase (DNA) I, mitochondrial
0,670356296	0,02805	0,775393206	0,08007	TOR1AIP1	torsin A interacting protein 1
0,746389192	0,02552	0,935623498	0,27717	TOX4	TOX high mobility group box family member 4
0,577943353	0,01001	0,792784137	0,05275	TOX4	TOX high mobility group box family member 4
0,504176227	0,00013	0,87539133	0,18498	TP53AIP1	tumor protein p53 regulated apoptosis inducing protein 1
0,580754366	0,00142	0,903752727	0,2515	TP53AIP1	tumor protein p53 regulated apoptosis inducing protein 1
1,257013375	0,0269	1,030253954	0,67351	TP53I11	tumor protein p53 inducible protein 11
0,735093668	0,00555	0,911301281	0,05952	TP53TG1	TP53 target 1 (non-protein coding)
0,758909626	0,01857	0,950659101	0,31058	TP53TG1	TP53 target 1 (non-protein coding)
0,564873607	0,02758	0,81056512	0,23981	TP63	tumor protein p63
1,204972315	0,02057	1,175276328	0,07475	TPK1	thiamin pyrophosphokinase 1
1,300440147	0,00956	1,111108729	0,27344	TRABD	TraB domain containing
1,25353302	0,02667	1,065846736	0,19852	TRABD	TraB domain containing
1,252664439	0,03949	1,043188594	0,44558	TRAF3	TNF receptor-associated factor 3
1,270150983	0,019	1,070288698	0,13856	TRAF4	TNF receptor-associated factor 4
0,655196702	0,00148	0,848507902	0,19571	TREX2	three prime repair exonuclease 2
1,545421099	0,04952	1,172834949	0,05136	TRHDE	thyrotropin-releasing hormone degrading enzyme
1,180174343	0,04832	1,027401439	0,62427	TRIM15	tripartite motif containing 15
0,456915725	0,00586	0,726986259	0,07629	TRIM16	tripartite motif containing 16
1,304050735	0,01382	0,972654947	0,63876	TRIM32	tripartite motif containing 32
1,250062303	0,02906	1,121943481	0,0558	TRIM48	tripartite motif containing 48
1,256142381	0,00527	1,04608494	0,26002	TRIM55	tripartite motif containing 55
0,671286251	0,0056	0,859756486	0,11309	TRIM7	tripartite motif containing 7
1,464085696	0,0139	1,163926534	0,1111	TRPA1	transient receptor potential cation channel, subfamily A, member 1
1,266634254	0,04252	0,998614666	0,97769	TRPC6	transient receptor potential cation channel, subfamily C, member 6
0,819604608	0,01324	0,951977908	0,4036	TRPM1	transient receptor potential cation channel, subfamily M, member 1
0,854409741	0,04121	1,001387256	0,97205	TRPM1	transient receptor potential cation channel, subfamily M, member 1
1,296839555	0,03924	1,105730653	0,12722	TRPM6	transient receptor potential cation channel, subfamily M, member 6
0,76154437	0,0129	0,920187651	0,28457	TSC22D2	TSC22 domain family, member 2
0,710546022	0,01123	0,883927531	0,06173	TSEN2	tRNA splicing endonuclease 2 homolog (S. cerevisiae)
0,681129017	0,02087	0,846745312	0,25968	TSN	translin
1,216722359	0,02348	0,997231251	0,93834	TSPAN3	tetraspanin 3
0,818469182	0,0118	0,995849753	0,94894	TSPAN9	tetraspanin 9
0,847324435	0,04706	0,916368645	0,11523	TSTD1	thiosulfate sulfurtransferase (rhodanese)-like domain containing 1
0,720464874	0,00576	0,787853886	0,12233	TTC22	tetratricopeptide repeat domain 22
1,248330549	0,04015	1,041743429	0,57498	TTC28	tetratricopeptide repeat domain 28
1,391846392	0,01323	1,043911927	0,54006	TTC28	tetratricopeptide repeat domain 28
1,274560627	0,01023	1,085229372	0,13351	TTC39C	tetratricopeptide repeat domain 39C
1,447938172	0,0208	1,094293701	0,17627	TTC7B	tetratricopeptide repeat domain 7B
1,489677463	0,02058	1,142346247	0,17993	TTYH2	tweety homolog 2 (Drosophila)
0,711531731	0,01121	0,921464186	0,22597	TUBA3D	tubulin, alpha 3d
0,599985691	0,03015	0,746906729	0,1363	TXN	thioredoxin
1,693490625	0,00008	1,163120042	0,11121	TXNRD1	thioredoxin reductase 1
0,570381858	0,00459	0,936921447	0,40027	TYR	tyrosinase (oculocutaneous albinism IA)
0,655651007	0,02381	0,955282936	0,69701	TYR	tyrosinase (oculocutaneous albinism IA)
0,25191344	0,01832	0,545631939	0,1067	TYRP1	tyrosinase-related protein 1
0,595015848	0,03092	0,783497187	0,30529	UBA6	ubiquitin-like modifier activating enzyme 6
0,800514811	0,03737	0,887611337	0,10177	UBAP2	ubiquitin associated protein 2
1,376495602	0,02192	1,057018041	0,31867	UBASH3A	ubiquitin associated and SH3 domain containing A
0,785128119	0,02792	0,997922719	0,97044	UBE2DNL	ubiquitin-conjugating enzyme E2D N-terminal like (pseudogene)
1,543280175	0,0211	1,167967395	0,06213	UBE2J1	ubiquitin-conjugating enzyme E2, J1, U
1,644900137	0,01329	1,051901779	0,39019	UBE2QL1	ubiquitin-conjugating enzyme E2Q family-like 1
0,735093668	0,02539	0,942784536	0,31328	UBE4B	ubiquitination factor E4B
0,746906729	0,02289	0,924663278	0,46557	UBE4B	ubiquitination factor E4B
1,169587664	0,04328	1,058484395	0,27096	UBOX5	U-box domain containing 5
0,61985385	0,00157	0,882702996	0,05344	UBR4	ubiquitin protein ligase E3 component n-recognin 4
0,66342257	0,01283	0,8962667	0,24223	UBR5	ubiquitin protein ligase E3 component n-recognin 5
1,200803427	0,01331	0,996540263	0,94435	UBXN10	UBX domain protein 10
0,713012859	0,0373	0,891310496	0,15647	UCK2	uridine-cytidine kinase 2
1,207480591	0,045	1,112650121	0,10462	UCKL1	uridine-cytidine kinase 1-like 1
1,220946513	0,03186	1,078480432	0,36176	UNC13A	unc-13 homolog A (C. elegans)
1,255271991	0,03931	1,038139271	0,57811	UNKL	unkempt homolog (Drosophila)-like
1,222640278	0,03407	1,070288698	0,1455	USP29	ubiquitin specific peptidase 29
0,730522189	0,00424	0,93109482	0,18074	USP32	ubiquitin specific peptidase 32
0,800514811	0,04605	0,960594864	0,43695	UXT	ubiquitously-expressed transcript
1,975201723	0,01	1,146312186	0,43599	VIM	vimentin
1,691144575	0,01442	1,262252032	0,09612	VNN1	vanin 1
2,089271526	0,01602	1,463071221	0,08412	VNN1	vanin 1
1,190856849	0,02807	1,00765376	0,8482	VPREB1	pre-B lymphocyte 1
0,740719899	0,01145	0,875998315	0,14474	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)
0,660211421	0,01116	0,852634892	0,06622	VPS24	vacuolar protein sorting 24 homolog (S. cerevisiae)
0,793883931	0,02719	0,893785162	0,09185	VPS29	vacuolar protein sorting 29 homolog (S. cerevisiae)
0,616853585	0,02854	0,927873476	0,09298	VPS35	vacuolar protein sorting 35 homolog (S. cerevisiae)
0,758909626	0,03606	0,917004043	0,22338	VPS41	vacuolar protein sorting 41 homolog (S. cerevisiae)
0,694477568	0,02745	0,930449658	0,16551	VPS8	vacuolar protein sorting 8 homolog (S. cerevisiae)
1,5888688	0,0016	1,082975046	0,19984	WAS	Wiskott-Aldrich syndrome (eczema-thrombocytopenia)
0,732550437	0,00352	0,90312651	0,26659	WDFY3	WD repeat and FYVE domain containing 3
0,649769531	0,00483	0,862741345	0,0861	WDFY3	WD repeat and FYVE domain containing 3
0,822450069	0,02496	0,86154616	0,06016	WDR61	WD repeat domain 61
1,338855257	0,01735	1,124278924	0,05862	WDR91	WD repeat domain 91
0,583579051	0,00745	0,982139595	0,90172	WFDC12	WAP four-disulfide core domain 12
1,568080908	0,0005	1,183451022	0,22494	WIPF1	WAS/WASL interacting protein family, member 1
0,768970416	0,0152	0,880869374	0,06248	WIPI2	WD repeat domain, phosphoinositide interacting 2
0,615999037	0,00147	0,805524291	0,10271	XIST	X (inactive)-specific transcript (non-protein coding)
1,32317144	0,00196	1,080725402	0,38806	XKR6	XK, Kell blood group complex subunit-related family, member 6
0,735093668	0,02646	0,920187651	0,19712	XPO5	exportin 5
0,825305409	0,00944	0,940826108	0,28375	XPO6	exportin 6
0,741747467	0,0448	0,941478465	0,38093	XPO7	exportin 7
0,782954296	0,03406	0,916368645	0,09709	YBEY	ybeY metallopeptidase (putative)
1,249196126	0,02531	1,087488391	0,22657	YPEL2	yippee-like 2 (Drosophila)
0,695440986	0,03416	0,76101669	0,06833	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
0,660669203	0,04016	0,97063447	0,61286	YY1	YY1 transcription factor
1,326845141	0,0337	1,099616149	0,28969	ZBTB38	zinc finger and BTB domain containing 38
1,231998073	0,01807	1,016774673	0,75643	ZBTB44	zinc finger and BTB domain containing 44
1,185914499	0,01942	1,077733145	0,13065	ZC4H2	zinc finger, C4H2 domain containing
1,297738767	0,00682	1,028826708	0,61784	ZCCHC3	zinc finger, CCHC domain containing 3
0,636397468	0,03006	0,81056512	0,17627	ZCCHC6	zinc finger, CCHC domain containing 6
1,208317843	0,02957	1,089752112	0,10195	ZCWPW1	zinc finger, CW type with PWWP domain 1
0,775393206	0,03957	0,930449658	0,14497	ZDHHC3	zinc finger, DHHC-type containing 3
1,386069886	0,01559	1,171210181	0,08668	ZEB2	zinc finger E-box binding homeobox 2
1,179356592	0,02213	1,059952783	0,2021	ZKSCAN3	zinc finger with KRAB and SCAN domains 3
1,70054832	0,01388	1,125058485	0,25599	ZMAT1	zinc finger, matrin-type 1
0,731028724	0,00642	0,931740429	0,42026	ZMYM4	zinc finger, MYM-type 4
0,814507563	0,0472	0,948026965	0,27541	ZNF133	zinc finger protein 133
0,762072415	0,03932	0,894404902	0,23106	ZNF140	zinc finger protein 140
1,281647924	0,03947	1,066585781	0,5001	ZNF148	zinc finger protein 148
1,636938363	0,03404	1,109569472	0,23458	ZNF167	zinc finger protein 167
0,746906729	0,04037	0,910669834	0,15125	ZNF248	zinc finger protein 248
0,622005827	0,01347	0,865736566	0,1989	ZNF323	zinc finger protein 323
1,181811547	0,04596	1,074004472	0,13177	ZNF341	zinc finger protein 341
0,842062954	0,04623	0,920825697	0,24317	ZNF350	zinc finger protein 350
1,194991205	0,01222	1,030968319	0,39681	ZNF382	zinc finger protein 382
0,85027416	0,04594	0,971307496	0,48251	ZNF396	zinc finger protein 396
0,848507902	0,01744	0,911301281	0,26982	ZNF41	zinc finger protein 41
0,830470024	0,04153	0,874784765	0,11933	ZNF45	zinc finger protein 45
1,408344227	0,03434	1,235418637	0,0649	ZNF580	zinc finger protein 580
0,797192477	0,01543	1,001387256	0,97914	ZNF607	zinc finger protein 607
1,337927555	0,03614	1,172834949	0,15581	ZNF618	zinc finger protein 618
0,517991382	0,03564	0,675018993	0,06231	ZNF655	zinc finger protein 655
0,715984371	0,04612	1,021012126	0,788	ZNF677	zinc finger protein 677
1,28877463	0,00539	1,077733145	0,29589	ZNF683	zinc finger protein 683
1,456999114	0,0022	1,07549439	0,23741	ZNF689	zinc finger protein 689
1,592176198	0,01525	1,081474763	0,30629	ZNF70	zinc finger protein 70
1,345367209	0,00543	1,128182137	0,05192	ZNF71	zinc finger protein 71
1,367935304	0,02205	1,163120042	0,08032	ZNF764	zinc finger protein 764
1,325007017	0,03255	1,116512962	0,06714	ZNF844	zinc finger protein 844
1,151089491	0,04236	1,041021598	0,46996	ZNF853	zinc finger protein 853
0,712518807	0,00658	0,944747041	0,41689	ZNF862	zinc finger protein 862

0,713012859	0,00754	0,934975198	0,22961	ZNF883	zinc finger protein 883
0,659753955	0,0035	0,916368645	0,13154	ZNFX1-AS1	ZNFX1 antisense RNA 1 (non-protein coding)
0,645728675	0,00342	0,918276162	0,15307	ZNFX1-AS1	ZNFX1 antisense RNA 1 (non-protein coding)
0,599154511	0,00789	0,895025071	0,08544	ZNFX1-AS1	ZNFX1 antisense RNA 1 (non-protein coding)
0,803850991	0,0459	0,949342121	0,323	ZNRD1-AS1	ZNRD1 antisense RNA 1 (non-protein coding)
1,203303026	0,04333	1,044635763	0,36788	ZSCAN12	zinc finger and SCAN domain containing 12
1,244011653	0,01812	1,133669413	0,06278	ZSWIM3	zinc finger, SWIM-type containing 3
0,73153561	0,00074	0,891928519	0,12306	ZW10	ZW10, kinetochore associated, homolog (Drosophila)

Panel 3: Genes significantly regulated in chronic (CP), but not aggressive (AP) periodontitis (p<0.05).

FC AP	p AP	FC CP	p CP	Symbol	Name
1,163120042	0,08638	1,084477409	0,03747	A1CF	APOBEC1 complementation factor
1,074749173	0,5299	1,088242442	0,03597	A2M	alpha-2-macroglobulin
1,053361036	0,72888	0,84323111	0,0414	AAGAB	alpha- and gamma-adaptin binding protein
0,993781093	0,96942	1,17609125	0,02748	AAK1	AP2 associated kinase 1
1,163120042	0,14681	1,132098902	0,04534	AAK1	AP2 associated kinase 1
1,106497353	0,22547	1,081474763	0,0346	AAK1	AP2 associated kinase 1
0,818469182	0,12368	1,097331938	0,04874	AAK1	AP2 associated kinase 1
1,150291893	0,5211	1,29145735	0,00006	AARS	alanyl-tRNA synthetase
0,683020128	0,09925	0,740206649	0,0005	AASDH	aminoadipate-semialdehyde dehydrogenase
0,903752727	0,53546	0,794985251	0,00621	AASDHPPT	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
0,872362706	0,43959	0,803850991	0,00114	AASDHPPT	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase
1,098092814	0,21538	1,178539408	0,00212	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1
1,148698355	0,38912	1,148698355	0,0296	ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1
0,686342216	0,09496	0,748461493	0,00069	ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5
0,737645729	0,41625	0,629378587	0,0116	ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5
1,068065408	0,518	1,230291345	0,03594	ABCA7	ATP-binding cassette, sub-family A (ABC1), member 7
0,953959551	0,56294	0,918276162	0,04513	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8
1,035264924	0,64342	1,095052471	0,04544	ABCA8	ATP-binding cassette, sub-family A (ABC1), member 8
0,803850991	0,39995	0,639936207	0,00043	ABCB10	ATP-binding cassette, sub-family B (MDR/TAP), member 10
0,786762445	0,06313	0,883927531	0,04238	ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1
1,096571589	0,19765	1,168777249	0,03789	ABCC11	ATP-binding cassette, sub-family C (CFTR/MRP), member 11
0,997922719	0,97592	0,929804943	0,04195	ABCC13	ATP-binding cassette, sub-family C (CFTR/MRP), member 13, pseudogene
1,262252032	0,13606	1,256142381	0,01778	ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3
1,101141598	0,34842	1,231144413	0,00182	ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3
0,838568184	0,42826	1,238848698	0,00675	ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5
1,127400412	0,19675	1,374588696	0,00026	ABCD1	ATP-binding cassette, sub-family D (ALD), member 1
0,681601304	0,10473	0,759962428	0,00293	ABCD3	ATP-binding cassette, sub-family D (ALD), member 3
1,172022284	0,05193	1,151887642	0,01583	ABCD4	ATP-binding cassette, sub-family D (ALD), member 4
0,701735863	0,06812	0,739693755	0,00104	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1
0,796088099	0,05569	0,86154616	0,02029	ABCF2	ATP-binding cassette, sub-family F (GCN20), member 2
0,993092495	0,95069	1,22010051	0,00837	ABCG2	ATP-binding cassette, sub-family G (WHITE), member 2
1,077733145	0,42587	1,173648178	0,01294	ABCG8	ATP-binding cassette, sub-family G (WHITE), member 8
1,17772279	0,18468	1,243149669	0,00039	ABHD1	abhydrolase domain containing 1
1,167967395	0,18041	1,332374825	0,00003	ABHD11	abhydrolase domain containing 11
1,035982764	0,8336	1,147107024	0,03344	ABHD12	abhydrolase domain containing 12
0,735093668	0,06228	0,649769531	0,00002	ABHD12	abhydrolase domain containing 12
1,048989328	0,79228	0,784584098	0,04349	ABHD13	abhydrolase domain containing 13
1,035982764	0,84512	0,794985251	0,0111	ABHD13	abhydrolase domain containing 13
1,027401439	0,90844	1,361314116	0,02243	ABHD14B	abhydrolase domain containing 14B
0,961260928	0,73138	0,885153765	0,04316	ABHD16A	abhydrolase domain containing 16A
1,271031689	0,10939	1,251796459	0,00064	ABHD2	abhydrolase domain containing 2
0,924022572	0,64582	0,854409741	0,04997	ABHD2	abhydrolase domain containing 2
1,254402205	0,08927	1,158292806	0,00742	ABHD2	abhydrolase domain containing 2
1,204137381	0,10721	1,209155676	0,00059	ABHD6	abhydrolase domain containing 6
0,883315051	0,47038	0,775930854	0,00038	ABHD6	abhydrolase domain containing 6
1,178539408	0,16015	1,164733586	0,01318	ABHD8	abhydrolase domain containing 8
0,669891801	0,06447	0,723969086	0,00016	ABI1	abl-interactor 1
1,106497353	0,17614	1,17772279	0,00494	ABI2	abl-interactor 2
1,108800644	0,31553	1,17609125	0,00529	ABI2	abl-interactor 2
0,618995145	0,18295	0,729510172	0,02867	ABI3BP	ABI family, member 3 (NESH) binding protein
0,886381699	0,15598	0,924663278	0,04625	ABL2	v-abl Abelson murine leukemia viral oncogene homolog 2
0,995159722	0,9517	0,865136691	0,04589	ABO	ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase)
1,237132479	0,05757	1,153485605	0,00285	ABP1	amiloride binding protein 1 (amine oxidase (copper-containing))
1,190031696	0,07472	1,244874235	0,02706	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1
0,996540263	0,97235	1,171210181	0,00239	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1
1,265756594	0,08151	1,364147835	0,00069	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1
0,873572896	0,22141	0,870550563	0,02976	ACAA1	acetyl-CoA acyltransferase 1
1,168777249	0,19051	1,281647924	0,00045	ACACB	acetyl-CoA carboxylase beta
0,993781093	0,94431	1,17609125	0,0043	ACACB	acetyl-CoA carboxylase beta
0,992404375	0,94659	1,143930973	0,0264	ACAD10	acyl-CoA dehydrogenase family, member 10
0,880869374	0,28185	0,841479482	0,0219	ACADL	acyl-CoA dehydrogenase, long chain
0,809442217	0,10064	0,803850991	0,01571	ACADSB	acyl-CoA dehydrogenase, short/branched chain
0,917004043	0,71353	0,795536484	0,04122	ACADSB	acyl-CoA dehydrogenase, short/branched chain
1,153485605	0,09641	1,209155676	0,01214	ACAN	aggrecan
0,824733549	0,40483	0,717474767	0,00277	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2
1,067325338	0,64516	0,824162085	0,00301	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2
0,762072415	0,07931	0,855595026	0,02323	ACAT1	acetyl-CoA acetyltransferase 1
0,575145947	0,12248	0,702222438	0,00009	ACBD3	acyl-CoA binding domain containing 3
0,898755127	0,59182	0,866336856	0,0022	ACBD3	acyl-CoA binding domain containing 3
0,757858283	0,2312	0,701735863	0,00102	ACBD5	acyl-CoA binding domain containing 5
1,151887642	0,09865	1,080725402	0,03558	ACCN1	amiloride-sensitive cation channel 1, neuronal
1,123499903	0,16243	1,197478705	0,00237	ACCN2	amiloride-sensitive cation channel 2, neuronal
1,139183377	0,20087	1,152686347	0,01285	ACCN4	amiloride-sensitive cation channel 4, pituitary
1,030968319	0,82636	0,790589117	0,00639	ACN9	ACN9 homolog (S. cerevisiae)
1,093535457	0,30203	1,159095952	0,0048	ACO2	aconitase 2, mitochondrial
1,065108203	0,52809	1,155886707	0,02431	ACOT11	acyl-CoA thioesterase 11
0,787307977	0,13746	0,828170661	0,00582	ACOT7	acyl-CoA thioesterase 7
0,967947027	0,73267	1,101141598	0,04769	ACOT8	acyl-CoA thioesterase 8
0,870550563	0,27843	0,866336856	0,02959	ACOT8	acyl-CoA thioesterase 8
0,737645729	0,0928	0,831622098	0,01129	ACOX3	acyl-CoA oxidase 3, pristanoyl
0,831622098	0,15363	0,859756486	0,02112	ACP1	acid phosphatase 1, soluble
1,400556321	0,0754	1,390881972	0,00003	ACP2	acid phosphatase 2, lysosomal
0,822450069	0,09977	0,793883931	0,01195	ACPP	acid phosphatase, prostate
0,967947027	0,81822	0,791137301	0,00091	ACRC	acidic repeat containing
1,094293701	0,359	1,114193651	0,03733	ACRV1	acrosomal vesicle protein 1
1,173648178	0,11082	1,121166078	0,01364	ACRV1	acrosomal vesicle protein 1
1,156688184	0,24483	1,17772279	0,01867	ACSF3	acyl-CoA synthetase family member 3
0,735093668	0,29096	0,767905135	0,01679	ACSL1	acyl-CoA synthetase long-chain family member 1
0,820172911	0,46033	0,819036698	0,03783	ACSL3	acyl-CoA synthetase long-chain family member 3
0,644834125	0,07963	0,744322628	0,00234	ACSL3	acyl-CoA synthetase long-chain family member 3
1,144724161	0,47272	1,354724977	0,01404	ACSL4	acyl-CoA synthetase long-chain family member 4
1,116512962	0,14199	1,083725967	0,03804	ACSL6	acyl-CoA synthetase long-chain family member 6
0,964598185	0,7247	1,139973273	0,02382	ACSL6	acyl-CoA synthetase long-chain family member 6
1,268391399	0,09405	1,209994089	0,00395	ACSS1	acyl-CoA synthetase short-chain family member 1
1,127400412	0,26594	1,144724161	0,01145	ACTC1	actin, alpha, cardiac muscle 1
1,29145735	0,08755	1,17772279	0,00699	ACTG2	actin, gamma 2, smooth muscle, enteric
0,826450318	0,32045	0,795536484	0,00265	ACTL6A	actin-like 6A
1,081474763	0,36407	1,157490217	0,01178	ACTL6B	actin-like 6B
1,065108203	0,50921	1,156688184	0,01668	ACTN1	actinin, alpha 1
1,095811766	0,30059	1,137605228	0,04828	ACTN2	actinin, alpha 2
0,897510051	0,77688	0,87417862	0,02664	ACTR2	ARP2 actin-related protein 2 homolog (yeast)
0,688247801	0,09477	0,828170661	0,02595	ACTR2	ARP2 actin-related protein 2 homolog (yeast)

0,860949188	0,30476	0,821880187	0,00049	ACTR3	ARP3 actin-related protein 3 homolog (yeast)
0,91319825	0,72746	0,648869383	0,00001	ACTR3	ARP3 actin-related protein 3 homolog (yeast)
0,889458994	0,41566	0,69399636	0,00006	ACTR3B	ARP3 actin-related protein 3 homolog B (yeast)
1,057018041	0,62813	1,156688184	0,04361	ACTR3BP2	ARP3 actin-related protein 3 homolog B (yeast) pseudogene 2
0,951977908	0,79408	0,759962428	0,00284	ACTR6	ARP6 actin-related protein 6 homolog (yeast)
0,975355462	0,87753	0,777007269	0,00295	ACTR8	ARP8 actin-related protein 8 homolog (yeast)
1,102669163	0,24757	1,092020546	0,04891	ACTR8	ARP8 actin-related protein 8 homolog (yeast)
1,062895674	0,56613	1,121943481	0,00915	ACTRT2	actin-related protein T2
0,946713631	0,66321	1,219255094	0,04947	ACVR1B	activin A receptor, type IB
0,885153765	0,41524	0,839731493	0,02039	ACVR2A	activin A receptor, type IIA
1,140763716	0,36696	1,167967395	0,01243	ACVR2B	activin A receptor, type IIB
0,811127156	0,10242	0,846158597	0,00959	ACYP1	acylphosphatase 1, erythrocyte (common) type
0,934975198	0,39608	1,147107024	0,0115	ADAD1	adenosine deaminase domain containing 1 (testis-specific)
0,863938187	0,60936	0,691116103	0,00986	ADAM1	ADAM metallopeptidase domain 1, pseudogene
1,272794935	0,06284	1,313121125	0,03986	ADAM10	ADAM metallopeptidase domain 10
1,255271991	0,13801	1,455989549	0,01782	ADAM12	ADAM metallopeptidase domain 12
0,908778116	0,57635	1,237132479	0,00805	ADAM15	ADAM metallopeptidase domain 15
1,012554807	0,86622	1,10343374	0,04724	ADAM19	ADAM metallopeptidase domain 19
1,185092771	0,05899	1,168777249	0,00151	ADAM22	ADAM metallopeptidase domain 22
0,739181216	0,34464	0,692074858	0,00256	ADAM23	ADAM metallopeptidase domain 23
0,872967591	0,51496	0,654289036	0,00039	ADAM23	ADAM metallopeptidase domain 23
1,010451446	0,89424	1,133669413	0,00603	ADAM29	ADAM metallopeptidase domain 29
1,127400412	0,315	1,121943481	0,02894	ADAM8	ADAM metallopeptidase domain 8
1,093535457	0,46932	1,271031689	0,00845	ADAM8	ADAM metallopeptidase domain 8
0,891310496	0,58393	0,809442217	0,02107	ADAM9	ADAM metallopeptidase domain 9
1,36983298	0,09856	1,466116757	0,0097	ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif, 1
1,185092771	0,18175	1,224336392	0,03612	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif, 12
1,188383105	0,16486	1,242288282	0,01824	ADAMTS15	ADAM metallopeptidase with thrombospondin type 1 motif, 15
0,813943185	0,17236	0,767905135	0,00071	ADAMTS17	ADAM metallopeptidase with thrombospondin type 1 motif, 17
1,680627504	0,05821	1,25092908	0,00694	ADAMTS18	ADAM metallopeptidase with thrombospondin type 1 motif, 18
1,189207115	0,30797	1,277213759	0,01116	ADAMTS2	ADAM metallopeptidase with thrombospondin type 1 motif, 2
1,044635763	0,65203	1,126619228	0,0348	ADAMTS2	ADAM metallopeptidase with thrombospondin type 1 motif, 2
1,174461971	0,39348	1,326845141	0,03788	ADAMTS2	ADAM metallopeptidase with thrombospondin type 1 motif, 2
1,25353302	0,0591	1,226884977	0,01273	ADAMTS20	ADAM metallopeptidase with thrombospondin type 1 motif, 20
1,32317144	0,1417	1,281647924	0,00142	ADAMTS6	ADAM metallopeptidase with thrombospondin type 1 motif, 6
1,134455485	0,13827	1,225185332	0,01036	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9
1,185914499	0,19924	1,636938363	0,00007	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9
1,063632673	0,54178	1,105730653	0,04643	ADAMTS9-AS2	ADAMTS9 antisense RNA 2 (non-protein coding)
0,977385766	0,74375	1,136029265	0,02101	ADAMTSL1	ADAMTS-like 1
1,478362431	0,12398	1,476314406	0,00273	ADAMTSL4	ADAMTS-like 4
1,150291893	0,26485	1,30224419	0,00019	ADAP1	ArfGAP with dual PH domains 1
1,172022284	0,24599	1,125838586	0,02366	ADARB1	adenosine deaminase, RNA-specific, B1
1,133669413	0,28434	1,171210181	0,00568	ADC	arginine decarboxylase
1,172834949	0,06693	1,129747215	0,03745	ADCK1	aarF domain containing kinase 1
0,893785162	0,33456	0,847332435	0,02553	ADCK2	aarF domain containing kinase 2
1,25962998	0,07793	1,169587664	0,00857	ADCK2	aarF domain containing kinase 2
0,815637493	0,09507	0,853226098	0,00897	ADCK2	aarF domain containing kinase 2
1,172834949	0,13245	1,144724161	0,01111	ADCK3	aarF domain containing kinase 3
0,950659101	0,43937	0,901875378	0,02131	ADCK4	aarF domain containing kinase 4
1,151887642	0,23503	1,2397077	0,0003	ADCK4	aarF domain containing kinase 4
1,088242442	0,35979	1,115739322	0,03017	ADCY1	adenylate cyclase 1 (brain)
1,037419937	0,7013	1,181811547	0,00328	ADCY2	adenylate cyclase 2 (brain)
1,125058485	0,25864	1,196648963	0,03235	ADCY3	adenylate cyclase 3
1,282536603	0,0726	1,443929196	0,00035	ADCY4	adenylate cyclase 4
1,132883885	0,17412	1,151887642	0,01849	ADCY5	adenylate cyclase 5
1,021720083	0,84987	1,22858698	0,00549	ADCY6	adenylate cyclase 6
0,917004043	0,69416	0,876605721	0,02522	ADCY7	adenylate cyclase 7
0,872967591	0,13287	0,785128119	0,00082	ADCY9	adenylate cyclase 9
1,0181852	0,84039	1,114966219	0,0165	ADCYAP1R1	adenylate cyclase activating polypeptide 1 (pituitary) receptor type I
1,130530567	0,28226	1,237990291	0,01535	ADCYAP1R1	adenylate cyclase activating polypeptide 1 (pituitary) receptor type I
1,172022284	0,11509	1,243149669	0,00915	ADD2	adducin 2 (beta)
1,139183377	0,12359	1,191682575	0,0065	ADD2	adducin 2 (beta)
1,116512962	0,1654	1,155886707	0,00659	ADD2	adducin 2 (beta)
1,076986376	0,36941	1,183451022	0,00755	ADD3	adducin 3 (gamma)
0,922103118	0,38795	0,91319825	0,00884	ADH4	alcohol dehydrogenase 4 (class II), pi polypeptide
1,113421618	0,34319	1,22010051	0,00192	ADHFE1	alcohol dehydrogenase, iron containing, 1
0,795536484	0,46083	0,666187413	0,00435	ADK	adenosine kinase
1,118837101	0,22493	1,152686347	0,03519	ADM2	adrenomedullin 2
0,856188285	0,29425	0,764718139	0,01257	ADNP	activity-dependent neuroprotector homeobox
0,746906729	0,10228	0,743291492	0,00059	ADNP2	ADNP homeobox 2
0,833931044	0,25561	0,788400174	0,00506	ADNP2	ADNP homeobox 2
0,927230546	0,74889	0,815072332	0,01118	ADO	2-aminoethanethiol (cysteamine) dioxygenase
0,886996305	0,31072	0,87539133	0,02549	ADO	2-aminoethanethiol (cysteamine) dioxygenase
1,114966219	0,20318	1,141554707	0,03648	ADORA1	adenosine A1 receptor
1,173648178	0,16692	1,149494848	0,04872	ADORA3	adenosine A3 receptor
1,113421618	0,28392	1,151887642	0,01383	ADPGK	ADP-dependent glucokinase
1,169587664	0,12154	1,209994089	0,0143	ADPRH	ADP-ribosylarginine hydrolase
0,774319028	0,09713	0,816768991	0,00083	ADPRHL2	ADP-ribosylhydrolase like 2
0,773782497	0,06334	0,784040454	0,00321	ADRB2	adrenergic, beta-2-, receptor, surface
1,057750964	0,57339	1,199139914	0,00535	ADRB3	adrenergic, beta-3-, receptor
1,162314108	0,14815	1,281647924	0,00026	ADRBK1	adrenergic, beta, receptor kinase 1
1,194991205	0,16215	1,199139914	0,01139	ADRBK2	adrenergic, beta, receptor kinase 2
0,852634892	0,4539	0,90000193	0,04163	ADSL	adenylosuccinate lyase
1,00765376	0,97639	1,45296505	0,00656	AEBP1	AE binding protein 1
0,796640096	0,40286	0,714992493	0,00333	AEBP2	AE binding protein 2
1,094293701	0,44172	1,159899655	0,02573	AFAP1-AS1	AFAP1 antisense RNA 1 (non-protein coding)
0,748980467	0,0534	0,79774524	0,00068	AFF1	AF4/FMR2 family, member 1
0,740206649	0,08866	0,784040454	0,00572	AFF4	AF4/FMR2 family, member 4
0,843815796	0,0997	0,824733549	0,00736	AFG3L2	AFG3 ATPase family gene 3-like 2 (S. cerevisiae)
0,806082831	0,34167	0,770037174	0,00003	AFTPH	aftiphilin
0,842062954	0,08376	0,849096246	0,01985	AGA	aspartylglucosaminidase
0,822450069	0,32499	0,716977624	0,00599	AGA	aspartylglucosaminidase
0,819604608	0,13161	0,770037174	0,00538	AGAP1	ArfGAP with GTPase domain, ankyrin repeat and PH domain 1
0,78024548	0,14755	0,722966147	0,00109	AGAP4	ArfGAP with GTPase domain, ankyrin repeat and PH domain 4
0,983502074	0,91897	1,132883885	0,01087	AGBL5	ATP/GTP binding protein-like 5
1,060687741	0,4502	0,859160755	0,00106	AGBL5	ATP/GTP binding protein-like 5
1,048262476	0,67765	1,109569472	0,02203	AGER	advanced glycosylation end product-specific receptor
1,034547582	0,62317	1,136029265	0,04395	AGFG2	ArfGAP with FG repeats 2
1,062895674	0,42024	1,128182137	0,02762	AGFG2	ArfGAP with FG repeats 2
0,738669032	0,15955	0,816768991	0,04024	AGGF1	angiogenic factor with G patch and FHA domains 1
0,782954296	0,18352	0,793333843	0,00165	AGGF1	angiogenic factor with G patch and FHA domains 1
1,082224645	0,73287	0,84323111	0,00666	AGK	acylglycerol kinase
0,844986384	0,34157	0,778624691	0,00286	AGL	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase
1,255271991	0,14968	1,372684431	0,01097	AGPAT1	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)

1,101905116	0,52264	1,368883813	0,0002	AGPAT1	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltransferase, alpha)
0,796088099	0,14472	0,811127156	0,0108	AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)
0,731028724	0,05153	0,849684999	0,01239	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3
0,816203046	0,07144	0,79774524	0,00049	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3
0,799960128	0,23605	0,713012859	0,00008	AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)
0,787307977	0,07759	0,787853886	0,00029	AGPAT5	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon)
0,685866644	0,09243	0,652477474	0,00126	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9
0,834509281	0,3381	0,859756486	0,01165	AGPS	alkylglycerone phosphate synthase
0,988285652	0,9634	0,710053679	0,00729	AGPS	alkylglycerone phosphate synthase
1,181811547	0,18731	1,229438867	0,00512	AGR2	anterior gradient homolog 2 (Xenopus laevis)
1,280759861	0,18856	1,380317353	0,01706	AGRN	agrin
1,325007017	0,23031	1,414213562	0,00297	AGRN	agrin
1,210833084	0,12414	1,305859787	0,00932	AGT	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
1,035264924	0,8976	1,375541818	0,00088	AGTRAP	angiotensin II receptor-associated protein
1,038139271	0,70728	1,265756594	0,00069	AGTRAP	angiotensin II receptor-associated protein
1,086734863	0,24305	1,142346247	0,02299	AGXT	alanine-glyoxylate aminotransferase
1,121166078	0,39947	1,204972315	0,0285	AGXT	alanine-glyoxylate aminotransferase
0,968618189	0,86981	0,745872013	0,0003	AHCTF1	AT hook containing transcription factor 1
0,953959551	0,81419	0,854409741	0,02736	AHCYL1	adenosylhomocysteinase-like 1
1,167967395	0,07804	1,186736798	0,00312	AHNAK	AHNAK nucleoprotein
1,041743429	0,72209	0,852634892	0,02407	AHSA2	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)
1,151887642	0,06956	1,155085785	0,03428	AHSP	alpha hemoglobin stabilizing protein
1,095052471	0,34433	1,138394029	0,00548	AICDA	activation-induced cytidine deaminase
0,81056512	0,17672	0,906890329	0,01641	AIDA	axin interactor, dorsalization associated
1,306765254	0,2335	1,578987773	0,00019	AIF1	allograft inflammatory factor 1
1,378405153	0,07815	1,481439798	0,00039	AIF1	allograft inflammatory factor 1
1,072516617	0,62985	1,271031689	0,00055	AIFM2	apoptosis-inducing factor, mitochondrion-associated, 2
0,644834125	0,05546	0,777546036	0,00728	AIM1	absent in melanoma 1
0,694477568	0,10632	0,643048742	0,00038	AIMP1	aminoacyl tRNA synthetase complex-interacting multifunctional protein 1
1,385109468	0,16896	1,422077411	0	AIP	aryl hydrocarbon receptor interacting protein
1,333298677	0,05939	1,278099363	0,00146	AIP	aryl hydrocarbon receptor interacting protein
0,991716731	0,91988	1,175276328	0,03509	AIRE	autoimmune regulator
1,143138335	0,23828	1,182631	0,02422	AK1	adenylate kinase 1
0,777007269	0,15797	0,765778999	0,01104	AK2	adenylate kinase 2
0,732042848	0,12745	0,69399636	0,00753	AK3	adenylate kinase 3
0,594191553	0,06309	0,689202576	0,00013	AK4	adenylate kinase 4
1,126619228	0,2152	1,149494848	0,0066	AK7	adenylate kinase 7
1,035264924	0,76189	1,130530567	0,01706	AK8	adenylate kinase 8
0,768437591	0,22212	0,795536484	0,01945	AKAP1	A kinase (PRKA) anchor protein 1
1,001387256	0,98514	0,91383145	0,0117	AKAP14	A kinase (PRKA) anchor protein 14
1,156688184	0,09807	1,144724161	0,00996	AKAP5	A kinase (PRKA) anchor protein 5
0,870550563	0,41476	0,882091365	0,01425	AKAP8	A kinase (PRKA) anchor protein 8
0,874784765	0,19939	0,709561678	0	AKAP8L	A kinase (PRKA) anchor protein 8-like
0,717474767	0,06059	0,780786493	0,00148	AKAP9	A kinase (PRKA) anchor protein (yotiao) 9
1,091263877	0,36559	1,230291345	0,0109	AKIP1	A kinase (PRKA) interacting protein 1
0,914465089	0,81202	0,903752727	0,04469	AKIRIN1	akirin 1
1,020304659	0,79907	0,917639882	0,01575	AKNAD1	AKNA domain containing 1
1,261377409	0,22899	1,277213759	0,0001	AKR1A1	aldo-keto reductase family 1, member A1 (aldehyde reductase)
0,942784536	0,7411	0,807201075	0,00561	AKR1C1	aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
0,855595026	0,38396	0,854409741	0,01717	AKR7A2	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)
0,929160674	0,42951	1,127400412	0,03422	AKR7A3	aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)
1,109569472	0,33417	1,190031696	0,02114	AKT2	v-akt murine thymoma viral oncogene homolog 2
1,298638603	0,06294	1,223488041	0,03014	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
1,00695555	0,93162	1,141554707	0,02263	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
1,049716684	0,59284	1,279872414	0,00352	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
0,880869374	0,23863	0,838568184	0,01307	AKTIP	AKT interacting protein
0,996540263	0,97395	1,163926534	0,02211	ALCAM	activated leukocyte cell adhesion molecule
1,121166078	0,44986	1,214194884	0,03064	ALCAM	activated leukocyte cell adhesion molecule
1,151089491	0,28698	1,306765254	0,00124	ALDH1L1	aldehyde dehydrogenase 1 family, member L1
0,980099415	0,83917	1,190031696	0,00149	ALDH1L2	aldehyde dehydrogenase 1 family, member L2
1,000693387	0,9947	1,180992661	0,01971	ALDH3B1	aldehyde dehydrogenase 3 family, member B1
1,085229372	0,52965	1,234562607	0,00276	ALDH3B1	aldehyde dehydrogenase 3 family, member B1
1,026689546	0,8208	0,87175824	0,01485	ALDH7A1	aldehyde dehydrogenase 7 family, member A1
1,204137381	0,09091	1,231998073	0,03211	ALDOB	aldolase B, fructose-bisphosphate
1,110338834	0,25489	1,193335743	0,00073	ALDOB	aldolase B, fructose-bisphosphate
1,171210181	0,07497	1,146312186	0,01443	ALDOB	aldolase B, fructose-bisphosphate
1,194991205	0,52231	0,782411782	0,03021	ALG10B	asparagine-linked glycosylation 10, alpha-1,2-glucosyltransferase homolog B (yeast)
1,041021598	0,74126	0,806641759	0,02391	ALG10B	asparagine-linked glycosylation 10, alpha-1,2-glucosyltransferase homolog B (yeast)
0,986232704	0,94201	0,838568184	0,02858	ALG13	asparagine-linked glycosylation 13 homolog (S. cerevisiae)
0,905633983	0,59365	0,744322628	0,00019	ALG13	asparagine-linked glycosylation 13 homolog (S. cerevisiae)
0,911933166	0,61522	0,91383145	0,03817	ALG6	asparagine-linked glycosylation 6, alpha-1,3-glucosyltransferase homolog (S. cerevisiae)
1,044635763	0,74485	1,128182137	0,01447	ALG8	asparagine-linked glycosylation 8, alpha-1,3-glucosyltransferase homolog (S. cerevisiae)
1,041021598	0,58512	1,140763716	0,02015	ALK	anaplastic lymphoma receptor tyrosine kinase
0,87175824	0,18091	0,846158597	0,01703	ALKBH2	alkB, alkylation repair homolog 2 (E. coli)
0,97063447	0,78098	1,128182137	0,01262	ALKBH5	alkB, alkylation repair homolog 5 (E. coli)
0,947370071	0,62612	0,886381699	0,00359	ALKBH6	alkB, alkylation repair homolog 6 (E. coli)
1,066585781	0,63734	0,720464874	0,00005	ALKBH8	alkB, alkylation repair homolog 8 (E. coli)
1,086734863	0,32145	1,149494848	0,00387	ALLC	allantoicase
1,186736798	0,50886	0,837406488	0,03006	ALMS1	Alstrom syndrome 1
1,098092814	0,4935	1,186736798	0,005	ALOX12P2	arachidonate 12-lipoxygenase pseudogene 2
1,331451613	0,09341	1,436940177	0,00462	ALOX5AP	arachidonate 5-lipoxygenase-activating protein
1,001387256	0,98926	0,84323111	0,02329	ALPK1	alpha-kinase 1
1,189207115	0,37069	1,45195828	0,00202	ALPK2	alpha-kinase 2
0,790041312	0,20372	0,879649076	0,00976	ALS2	amyotrophic lateral sclerosis 2 (juvenile)
1,203303026	0,31202	0,837987135	0,00208	ALS2	amyotrophic lateral sclerosis 2 (juvenile)
1,0132569	0,8757	1,10343374	0,02703	ALS2CR12	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 12
0,859160755	0,36087	0,81056512	0,00187	AMD1	adenosylmethionine decarboxylase 1
1,136816973	0,11613	1,101905116	0,03914	AMDHD1	amidohydrolase domain containing 1
1,091263877	0,38252	1,181811547	0,01048	AMDHD2	amidohydrolase domain containing 2
1,121943481	0,32002	1,242288282	0,00203	AMHR2	anti-Mullerian hormone receptor, type II
0,652929894	0,12956	0,724973416	0,00035	AMMECR1	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region gene 1
0,891310496	0,50969	0,791685866	0,00359	AMMECR1L	AMME chromosomal region gene 1-like
0,879649076	0,27986	0,899378312	0,00863	AMOTL1	angiomotin like 1
0,818469182	0,08706	0,806641759	0,01807	AMOTL2	angiomotin like 2
0,971307496	0,77684	1,226884977	0,00183	AMT	aminomethyltransferase
1,04608494	0,52585	1,091263877	0,03918	AMZ1	archaelysin family metallopeptidase 1
1,141554707	0,40913	0,778624691	0,0176	ANAPC10	anaphase promoting complex subunit 10
0,968618189	0,7944	0,902500727	0,02204	ANAPC16	anaphase promoting complex subunit 16
0,775930854	0,2205	0,775393206	0,00204	ANAPC4	anaphase promoting complex subunit 4
0,681129017	0,08724	0,874784765	0,01553	ANAPC4	anaphase promoting complex subunit 4
0,637280314	0,19793	0,744322628	0,03046	ANAPC5	anaphase promoting complex subunit 5
0,751580739	0,16112	0,775930854	0,00322	ANAPC7	anaphase promoting complex subunit 7
0,907519155	0,61746	0,847332435	0,03156	ANGEL2	angel homolog 2 (Drosophila)
0,968618189	0,83849	1,318593614	0,02496	ANGPTL2	angiopoietin-like 2

1,155886707	0,15317	1,42899414	0,00044	ANGPTL7	angiopoietin-like 7
1,140763716	0,13842	1,121943481	0,01599	ANK1	ankyrin 1, erythrocytic
1,124278924	0,2812	1,184271612	0,00288	ANK1	ankyrin 1, erythrocytic
1,128964405	0,23197	1,22010051	0,01102	ANK1	ankyrin 1, erythrocytic
0,844986384	0,19007	0,843815796	0,03337	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
0,986916546	0,94494	0,824162085	0,00232	ANK3	ankyrin 3, node of Ranvier (ankyrin G)
1,188383105	0,06435	1,195819797	0,01767	ANKH	ankylosis, progressive homolog (mouse)
1,188383105	0,06534	1,198309021	0,0035	ANKH	ankylosis, progressive homolog (mouse)
0,768437591	0,17693	0,732042848	0,00072	ANKH	ankylosis, progressive homolog (mouse)
0,785672517	0,05679	0,640823962	0,00114	ANKH	ankylosis, progressive homolog (mouse)
0,901250463	0,51616	0,859160755	0,03368	ANKIB1	ankyrin repeat and IBR domain containing 1
0,833931044	0,50468	0,775930854	0,00092	ANKIB1	ankyrin repeat and IBR domain containing 1
0,711531731	0,06006	0,852044095	0,02842	ANKLE2	ankyrin repeat and LEM domain containing 2
0,875998315	0,06751	1,120389214	0,03485	ANKMY1	ankyrin repeat and MYND domain containing 1
1,130530567	0,44907	1,25962998	0,01108	ANKRD10	ankyrin repeat domain 10
0,699308041	0,08714	0,758909626	0,00185	ANKRD11	ankyrin repeat domain 11
1,051901779	0,62267	1,158292806	0,03584	ANKRD11	ankyrin repeat domain 11
0,729510172	0,0862	0,79774524	0,00322	ANKRD11	ankyrin repeat domain 11
0,817335328	0,0644	0,860949188	0,00704	ANKRD11	ankyrin repeat domain 11
0,735093668	0,09446	0,686342216	0,00035	ANKRD12	ankyrin repeat domain 12
0,828744904	0,43768	0,716977624	0,00001	ANKRD12	ankyrin repeat domain 12
0,932386486	0,75365	0,714992493	0,00218	ANKRD13A	ankyrin repeat domain 13A
0,890692901	0,57604	0,78024548	0,02691	ANKRD13C	ankyrin repeat domain 13C
0,839731493	0,24277	0,773782497	0,02011	ANKRD13C	ankyrin repeat domain 13C
1,070288698	0,61073	0,867538687	0,04944	ANKRD13C	ankyrin repeat domain 13C
0,70027816	0,28036	0,804966138	0,00021	ANKRD17	ankyrin repeat domain 17
0,979420298	0,81397	0,893785162	0,02967	ANKRD31	ankyrin repeat domain 31
1,155886707	0,12866	1,272794935	0,00042	ANKRD34A	ankyrin repeat domain 34A
1,186736798	0,42491	0,793883931	0,01375	ANKRD46	ankyrin repeat domain 46
0,791685866	0,25742	0,782954296	0,00806	ANKRD50	ankyrin repeat domain 50
0,844986384	0,57159	0,805524291	0,0092	ANKRD50	ankyrin repeat domain 50
0,971980988	0,7515	1,136029265	0,01926	ANKRD50	ankyrin repeat domain 50
1,181811547	0,12264	1,227735684	0,00355	ANKRD55	ankyrin repeat domain 55
0,501735874	0,07043	0,632439771	0,00004	ANKRD57	ankyrin repeat domain 57
1,062895674	0,44839	1,147107024	0,00193	ANKRD60	ankyrin repeat domain 60
0,869947353	0,20634	0,819036698	0,00172	ANKRD9	ankyrin repeat domain 9
1,050444544	0,62365	1,111879158	0,04439	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B
0,791137301	0,07613	0,849096246	0,0049	ANKS6	ankyrin repeat and sterile alpha motif domain containing 6
0,949342121	0,63805	1,162314108	0,01302	ANKZF1	ankyrin repeat and zinc finger domain containing 1
1,155886707	0,08622	1,111879158	0,02022	ANO4	anoctamin 4
1,125058485	0,20018	1,105730653	0,02554	ANO5	anoctamin 5
1,048989328	0,70221	1,155085785	0,01844	ANO6	anoctamin 6
1,002081605	0,98915	1,332374825	0,04201	ANP32A	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A
1,157490217	0,39378	1,270150983	0,02798	ANPEP	alanyl (membrane) aminopeptidase
1,077733145	0,465	1,127400412	0,01272	ANTXR1	anthrax toxin receptor 1
1,106497353	0,36807	1,151089491	0,03712	ANTXR1	anthrax toxin receptor 1
1,121166078	0,45704	1,246601194	0,01418	ANTXR2	anthrax toxin receptor 2
1,055553718	0,84969	1,232852325	0,00447	ANXA11	annexin A11
1,258757174	0,0797	1,205807828	0,00072	ANXA11	annexin A11
1,109569472	0,31903	1,127400412	0,01145	ANXA13	annexin A13
0,693515485	0,05403	0,762072415	0,00061	ANXA4	annexin A4
0,733058379	0,08265	0,687770909	0	ANXA7	annexin A7
1,124278924	0,26565	1,22603486	0,00552	AOAH	acyloxyacyl hydrolase (neutrophil)
0,759435845	0,18958	0,61301743	0,00069	AP1AR	adaptor-related protein complex 1 associated regulatory protein
0,795536484	0,1394	0,906890329	0,01978	AP1G1	adaptor-related protein complex 1, gamma 1 subunit
1,248330549	0,38083	1,347233577	0,00503	AP1M1	adaptor-related protein complex 1, mu 1 subunit
0,920187651	0,70105	0,855002178	0,01446	AP1S2	adaptor-related protein complex 1, sigma 2 subunit
0,946713631	0,35686	0,879649076	0,01146	AP1S3	adaptor-related protein complex 1, sigma 3 subunit
0,741747467	0,17784	0,70759708	0,03339	AP1S3	adaptor-related protein complex 1, sigma 3 subunit
0,856188285	0,14255	0,803850991	0,04637	AP1S3	adaptor-related protein complex 1, sigma 3 subunit
0,782954296	0,15565	0,859756486	0,03724	AP2A1	adaptor-related protein complex 2, alpha 1 subunit
0,992404375	0,97117	1,220946513	0,0109	AP2A2	adaptor-related protein complex 2, alpha 2 subunit
0,974679631	0,91186	1,194991205	0,01619	AP2A2	adaptor-related protein complex 2, alpha 2 subunit
1,149494848	0,27558	1,304050735	0,00003	AP2B1	adaptor-related protein complex 2, beta 1 subunit
0,921464186	0,59743	1,330529041	0,00989	AP2B1	adaptor-related protein complex 2, beta 1 subunit
0,802737389	0,05423	0,857376037	0,04408	AP3B1	adaptor-related protein complex 3, beta 1 subunit
0,785128119	0,24508	0,872967591	0,04295	AP3D1	adaptor-related protein complex 3, delta 1 subunit
1,153485605	0,10704	1,139183377	0,00647	AP3S2	adaptor-related protein complex 3, sigma 2 subunit
1,135242102	0,16065	1,195819797	0,01661	AP3S2	adaptor-related protein complex 3, sigma 2 subunit
0,955945318	0,67284	1,229438867	0,00249	AP4B1	adaptor-related protein complex 4, beta 1 subunit
0,688247801	0,10611	0,738669032	0,00028	AP4E1	adaptor-related protein complex 4, epsilon 1 subunit
1,190856849	0,05286	1,154285418	0,0067	AP4E1	adaptor-related protein complex 4, epsilon 1 subunit
0,86934456	0,13216	0,862741345	0,00454	AP4S1	adaptor-related protein complex 4, sigma 1 subunit
0,942784536	0,40661	1,102669163	0,01535	AP4S1	adaptor-related protein complex 4, sigma 1 subunit
1,114966219	0,19271	1,150291893	0,00881	APBA1	amyloid beta (A4) precursor protein-binding, family A, member 1
1,231144413	0,13354	1,194991205	0,0253	APBA2	amyloid beta (A4) precursor protein-binding, family A, member 2
1,114966219	0,26577	1,217566019	0,00613	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2
0,965267025	0,66728	1,172834949	0,04181	APBB2	amyloid beta (A4) precursor protein-binding, family B, member 2
1,220946513	0,08061	1,350974085	0,00055	APBB3	amyloid beta (A4) precursor protein-binding, family B, member 3
0,69640574	0,13574	0,662044455	0,00214	APC	adenomatous polyposis coli
1,020304659	0,90465	1,125838586	0,04391	APEH	N-acylaminoacyl-peptide hydrolase
0,910669834	0,51541	0,884540435	0,04759	APEX2	APEX nuclease (apurinic/apyrimidinic endonuclease) 2
1,00765376	0,93069	0,907519155	0,0299	APH1A	anterior pharynx defective 1 homolog A (C. elegans)
0,790041312	0,1453	0,832198735	0,00016	API5	apoptosis inhibitor 5
1,018891197	0,8976	0,805524291	0,02186	APIP	APAF1 interacting protein
0,811689581	0,38674	0,682073917	0,00047	APLF	aprataxin and PNKP like factor
1,030968319	0,77908	1,173648178	0,01474	APLP2	amyloid beta (A4) precursor-like protein 2
0,936921447	0,74797	1,200803427	0,02217	APLP2	amyloid beta (A4) precursor-like protein 2
0,940826108	0,81514	1,085981856	0,04609	APOA1BP	apolipoprotein A-I binding protein
1,093535457	0,21918	1,192508872	0,01852	APOBEC2	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2
1,059952783	0,58489	1,210833084	0,0034	APOBR	apolipoprotein B receptor
1,301341855	0,15745	1,316766922	0,00118	APOC1	apolipoprotein C-I
0,964598185	0,72015	1,198309021	0,00179	APOC2	apolipoprotein C-II
1,45296505	0,12237	1,629015126	0,00006	APOE	apolipoprotein E
1,25092908	0,07307	1,422077411	0,00046	APOE	apolipoprotein E
1,095811766	0,32493	1,136029265	0,02478	APOH	apolipoprotein H (beta-2-glycoprotein I)
1,264879542	0,12278	1,364147835	0,00135	APOL1	apolipoprotein L, 1
0,86154616	0,18361	1,175276328	0,01075	APOL5	apolipoprotein L, 5
1,188383105	0,09605	1,162314108	0,0274	APOL6	apolipoprotein L, 6
0,908778116	0,34619	1,135242102	0,02038	APOM	apolipoprotein M
0,811689581	0,34457	0,711038705	0,00085	APOOL	apolipoprotein O-like
0,773246337	0,23931	0,676424116	0,02079	APOOL	apolipoprotein O-like
0,796640096	0,1063	0,866937564	0,00543	APOPT1	apoptogenic 1
1,035982764	0,82381	1,174461971	0,00249	APP	amyloid beta (A4) precursor protein

0,89564567	0,67978	0,876605721	0,04885	APPBP2	amyloid beta precursor protein (cytoplasmic tail) binding protein 2
0,532554102	0,0581	0,570777354	0,00116	APPL1	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1
0,986916546	0,96944	1,294145654	0,02858	AQP1	aquaporin 1 (Colton blood group)
1,204972315	0,53427	1,498999602	0,00009	AQP1	aquaporin 1 (Colton blood group)
1,035982764	0,66056	1,172022284	0,00578	AQP2	aquaporin 2 (collecting duct)
0,745872013	0,52983	0,820172911	0,03792	AQP3	aquaporin 3 (Gill blood group)
0,847919965	0,1613	0,799960128	0,00019	AQR	aquarius homolog (mouse)
0,934327347	0,67077	0,713507253	0,00054	AQR	aquarius homolog (mouse)
1,026689546	0,85213	1,151089491	0,00962	AR	androgen receptor
1,070288698	0,75265	1,269270886	0,00322	ARAF	v-raf murine sarcoma 3611 viral oncogene homolog
1,060687741	0,72804	0,774855931	0,00847	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2
1,191682575	0,23738	1,260503392	0,01303	ARAP3	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3
1,001387256	0,99212	1,257013375	0,00534	ARF3	ADP-ribosylation factor 3
0,918912883	0,49883	0,84264683	0,00804	ARF6	ADP-ribosylation factor 6
1,07549439	0,58974	1,268391399	0,03138	ARFGAP1	ADP-ribosylation factor GTPase activating protein 1
0,972654947	0,85459	0,802737389	0,00803	ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)
1,024556823	0,93444	0,882091365	0,03425	ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited)
0,802181166	0,16376	0,787307977	0,03257	ARG2	arginase, type II
0,72597914	0,07408	0,713507253	0,00485	ARGLU1	arginine and glutamate rich 1
0,963261894	0,68369	0,829894586	0,00103	ARHGAP11A	Rho GTPase activating protein 11A
0,756808396	0,18455	0,78024548	0,02377	ARHGAP12	Rho GTPase activating protein 12
1,065108203	0,41608	1,155886707	0,03531	ARHGAP20	Rho GTPase activating protein 20
0,716977624	0,17175	0,744838732	0,0198	ARHGAP21	Rho GTPase activating protein 21
1,246601194	0,06037	1,190856849	0,00032	ARHGAP23	Rho GTPase activating protein 23
0,814507563	0,1115	0,807760778	0,00771	ARHGAP24	Rho GTPase activating protein 24
0,91319825	0,22072	1,125838586	0,04372	ARHGAP26	Rho GTPase activating protein 26
1,152686347	0,12362	1,145517898	0,02935	ARHGAP28	Rho GTPase activating protein 28
1,185914499	0,40432	1,172834949	0,04135	ARHGAP30	Rho GTPase activating protein 30
1,112650121	0,52543	1,167967395	0,02567	ARHGAP31	Rho GTPase activating protein 31
0,630688704	0,0617	0,734075318	0,00751	ARHGAP32	Rho GTPase activating protein 32
1,111879158	0,1714	1,261377409	0,00539	ARHGAP33	Rho GTPase activating protein 33
0,762072415	0,17534	0,747424624	0,00006	ARHGAP35	Rho GTPase activating protein 35
0,895025071	0,61857	0,758383773	0,02255	ARHGAP35	Rho GTPase activating protein 35
1,050444544	0,42039	1,083725967	0,01774	ARHGAP42	Rho GTPase activating protein 42
1,116512962	0,18267	1,158292806	0,00176	ARHGAP44	Rho GTPase activating protein 44
0,720964436	0,14171	0,665264521	0,0144	ARHGAP5	Rho GTPase activating protein 5
0,777546036	0,31874	0,747424624	0,01558	ARHGAP5	Rho GTPase activating protein 5
0,890075733	0,69669	0,806082831	0,01469	ARHGAP5	Rho GTPase activating protein 5
1,708819482	0,06196	1,250062303	0,02754	ARHGAP6	Rho GTPase activating protein 6
0,990342872	0,92361	1,129747215	0,02164	ARHGAP6	Rho GTPase activating protein 6
1,214194884	0,07648	1,185092771	0,00206	ARHGAP8	Rho GTPase activating protein 8
1,182631	0,09266	1,194163187	0,00132	ARHGDIB	Rho GDP dissociation inhibitor (GDI) beta
1,465100875	0,2532	1,527317498	0,00058	ARHGDIB	Rho GDP dissociation inhibitor (GDI) beta
0,71548826	0,06127	0,794985251	0,01389	ARHGEF10	Rho guanine nucleotide exchange factor (GEF) 10
0,90312651	0,4565	0,713507253	0,00422	ARHGEF10L	Rho guanine nucleotide exchange factor (GEF) 10-like
1,198309021	0,0688	1,216722359	0,01012	ARHGEF11	Rho guanine nucleotide exchange factor (GEF) 11
0,827596816	0,38747	0,730016005	0,00019	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12
0,940826108	0,50066	0,848507902	0,0021	ARHGEF12	Rho guanine nucleotide exchange factor (GEF) 12
1,171210181	0,2668	1,361314116	0,00277	ARHGEF15	Rho guanine nucleotide exchange factor (GEF) 15
1,072516617	0,5092	1,242288282	0,00548	ARHGEF16	Rho guanine nucleotide exchange factor (GEF) 16
1,247465572	0,09351	1,299539062	0,00069	ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17
1,208317843	0,13287	1,121166078	0,04507	ARHGEF25	Rho guanine nucleotide exchange factor (GEF) 25
0,872362706	0,06099	0,793883931	0,00062	ARHGEF26	Rho guanine nucleotide exchange factor (GEF) 26
0,656105627	0,0553	0,549046407	0,00002	ARHGEF26	Rho guanine nucleotide exchange factor (GEF) 26
0,901875378	0,29725	0,777007269	0,01706	ARHGEF26	Rho guanine nucleotide exchange factor (GEF) 26
1,167158102	0,23452	1,176906737	0,00388	ARHGEF38	Rho guanine nucleotide exchange factor (GEF) 38
0,956608158	0,6568	0,860352631	0,03574	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40
0,984866443	0,90202	1,161508732	0,03066	ARID1B	AT rich interactive domain 1B (SWI1-like)
0,879649076	0,63342	0,778085177	0,01461	ARID1B	AT rich interactive domain 1B (SWI1-like)
1,019597683	0,85653	1,260503392	0,00323	ARID1B	AT rich interactive domain 1B (SWI1-like)
0,746389192	0,21997	0,726482525	0,00138	ARID1B	AT rich interactive domain 1B (SWI1-like)
0,961927455	0,85779	0,812815602	0,00728	ARID2	AT rich interactive domain 2 (ARID, RFX-like)
0,835087919	0,44224	0,885153765	0,03503	ARID2	AT rich interactive domain 2 (ARID, RFX-like)
0,866937564	0,38211	0,865736566	0,02377	ARIH1	ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)
0,898132373	0,53563	0,738669032	0,00779	ARL1	ADP-ribosylation factor-like 1
0,685391402	0,10459	0,833931044	0,01067	ARL10	ADP-ribosylation factor-like 10
0,914465089	0,64957	0,757333158	0,00139	ARL13B	ADP-ribosylation factor-like 13B
0,830470024	0,0565	0,880259014	0,01991	ARL17A	ADP-ribosylation factor-like 17A
0,971980988	0,81042	1,158292806	0,0289	ARL17A	ADP-ribosylation factor-like 17A
0,748980467	0,33431	0,826450318	0,03435	ARL4C	ADP-ribosylation factor-like 4C
0,787853886	0,39483	0,778085177	0,00237	ARL5A	ADP-ribosylation factor-like 5A
0,730016005	0,25699	0,637722196	0,00007	ARL5A	ADP-ribosylation factor-like 5A
0,898132373	0,64713	0,737134609	0,01553	ARL5B	ADP-ribosylation factor-like 5B
0,942784536	0,61056	0,848507902	0,00552	ARL6	ADP-ribosylation factor-like 6
0,902500727	0,57616	0,718968266	0,00094	ARL6IP6	ADP-ribosylation-like factor 6 interacting protein 6
0,920825697	0,75239	0,726986259	0,00025	ARL6IP6	ADP-ribosylation-like factor 6 interacting protein 6
0,949342121	0,82913	0,805524291	0,01407	ARMC1	armadillo repeat containing 1
0,771105413	0,26442	0,751580739	0,00398	ARMC8	armadillo repeat containing 8
1,276328769	0,0941	0,855002178	0,04533	ARMC8	armadillo repeat containing 8
0,791137301	0,28716	0,787307977	0,02781	ARMCX1	armadillo repeat containing, X-linked 1
1,068065408	0,50501	1,236275261	0,00071	ARMCX4	armadillo repeat containing, X-linked 4
0,810003474	0,38661	0,728499557	0,01104	ARMCX4	armadillo repeat containing, X-linked 4
1,01395948	0,94987	0,801069878	0,00261	ARMCX5	armadillo repeat containing, X-linked 5
1,158292806	0,2655	1,159899655	0,04839	ARMCX6	armadillo repeat containing, X-linked 6
1,214194884	0,30665	1,364147835	0,00205	ARPC1B	actin related protein 2/3 complex, subunit 1B, 41kDa
0,7031966	0,48383	0,888226796	0,03653	ARPC2	actin related protein 2/3 complex, subunit 2, 34kDa
0,827596816	0,06463	0,857376037	0,00981	ARPC2	actin related protein 2/3 complex, subunit 2, 34kDa
0,554400322	0,08354	0,889458994	0,02587	ARPC3	actin related protein 2/3 complex, subunit 3, 21kDa
1,304050735	0,05046	1,171210181	0,01001	ARPC5	actin related protein 2/3 complex, subunit 5, 16kDa
0,753145233	0,06065	0,91319825	0,01753	ARPC5L	actin related protein 2/3 complex, subunit 5-like
0,890692901	0,58779	0,838568184	0,02026	ARPC5L	actin related protein 2/3 complex, subunit 5-like
0,87175824	0,30684	0,753145233	0,00002	ARPC5L	actin related protein 2/3 complex, subunit 5-like
0,816203046	0,2849	0,870550563	0,01544	ARPP19	cAMP-regulated phosphoprotein, 19kDa
1,092020546	0,55934	1,256142381	0,00145	ARRB1	arrestin, beta 1
1,123499903	0,2623	1,123499903	0,02028	ARRB1	arrestin, beta 1
1,102669163	0,33231	1,180174343	0,03026	ARRB1	arrestin, beta 1
1,086734863	0,47619	1,117287138	0,02671	ARRB1	arrestin, beta 1
0,950000383	0,53829	0,85027416	0,01395	ARRDC1	arrestin domain containing 1
1,142346247	0,24394	1,163926534	0,01153	ARRDC2	arrestin domain containing 2
0,779704843	0,29938	0,731028724	0,01146	ARRDC3	arrestin domain containing 3
0,963261894	0,72873	1,164733586	0,00845	ARSA	arylsulfatase A
0,902500727	0,45091	1,273677475	0,01821	ARSD	arylsulfatase D
0,962594443	0,87205	1,260503392	0,00449	ARSI	arylsulfatase family, member I
1,027401439	0,7422	1,138394029	0,03479	ART1	ADP-ribosyltransferase 1

1,020304659	0,81029	1,271913007	0,00118	ART1	ADP-ribosyltransferase 1
1,22010051	0,06431	1,156688184	0,02197	ART5	ADP-ribosyltransferase 5
1,054822317	0,70659	1,147902414	0,02926	ARTN	artemin
1,043188594	0,6944	1,157490217	0,04454	ARVCF	armadillo repeat gene deleted in velocardiofacial syndrome
1,136816973	0,16001	1,147902414	0,02838	ARVCF	armadillo repeat gene deleted in velocardiofacial syndrome
1,018891197	0,86573	1,199971382	0,00729	ARVCF	armadillo repeat gene deleted in velocardiofacial syndrome
0,84323111	0,29797	0,862143545	0,03298	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1
0,870550563	0,13383	0,833353207	0,00307	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1
0,740719899	0,22999	0,807760778	0,00628	ASAP2	ArfGAP with SH3 domain, ankyrin repeat and PH domain 2
1,062159186	0,60103	1,107264584	0,03108	ASB1	ankyrin repeat and SOCS box containing 1
1,067325338	0,54355	1,191682575	0,00375	ASB1	ankyrin repeat and SOCS box containing 1
1,256142381	0,05171	1,335148303	0,00209	ASB10	ankyrin repeat and SOCS box containing 10
1,298638603	0,06323	1,326845141	0,00559	ASB12	ankyrin repeat and SOCS box containing 12
1,071773463	0,44914	1,122721422	0,04192	ASB14	ankyrin repeat and SOCS box containing 14
1,125058485	0,2329	1,097331938	0,03521	ASB14	ankyrin repeat and SOCS box containing 14
0,997922719	0,98392	1,242288282	0,00081	ASB7	ankyrin repeat and SOCS box containing 7
1,016070143	0,94044	0,835087919	0,02288	ASB7	ankyrin repeat and SOCS box containing 7
1,076986376	0,35214	1,104198847	0,02718	ASB9	ankyrin repeat and SOCS box containing 9
0,709561678	0,06816	0,74277646	0,00668	ASCC3	activating signal cointegrator 1 complex subunit 3
1,07997656	0,60347	1,117287138	0,0226	ASCL1	achaete-scute complex homolog 1 (Drosophila)
1,058484395	0,5227	1,179356592	0,02478	ASCL3	achaete-scute complex homolog 3 (Drosophila)
0,670821112	0,08945	0,659753955	0,00008	ASF1A	ASF1 anti-silencing function 1 homolog A (S. cerevisiae)
0,748980467	0,08895	0,76684133	0,02976	ASF1A	ASF1 anti-silencing function 1 homolog A (S. cerevisiae)
0,825305409	0,66545	0,764718139	0,00059	ASH1L	ash1 (absent, small, or homeotic)-like (Drosophila)
0,790041312	0,23357	0,866937564	0,02797	ASH1L	ash1 (absent, small, or homeotic)-like (Drosophila)
1,198309021	0,26955	1,327765158	0,00019	ASMTL-AS1	ASMTL antisense RNA 1 (non-protein coding)
1,143138335	0,17327	1,169587664	0,00837	ASMTL-AS1	ASMTL antisense RNA 1 (non-protein coding)
1,020304659	0,89711	1,142346247	0,02806	ASMTL-AS1	ASMTL antisense RNA 1 (non-protein coding)
0,743291492	0,07994	0,84323111	0,00078	ASNSD1	asparagine synthetase domain containing 1
1,057018041	0,44942	1,21167266	0,01448	ASPA	aspartoacylase
1,008352455	0,93222	1,113421618	0,03536	ASPG	asparaginase homolog (S. cerevisiae)
1,031683179	0,70587	1,277213759	0,0003	ASPG	asparaginase homolog (S. cerevisiae)
0,91319825	0,66938	0,78024548	0,0024	ASPH	aspartate beta-hydroxylase
0,942784536	0,82095	0,739181216	0,0241	ASPH	aspartate beta-hydroxylase
1,157490217	0,3438	1,298638603	0,00005	ASPHD1	aspartate beta-hydroxylase domain containing 1
0,765778999	0,07377	0,814507563	0,00188	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)
0,872967591	0,34494	0,872362706	0,04729	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)
1,118837101	0,71592	1,545421099	0	ASS1	argininosuccinate synthase 1
0,858565436	0,13885	1,105730653	0,03405	ASXL1	additional sex combs like 1 (Drosophila)
1,155085785	0,23219	1,351910833	0,00831	ASXL2	additional sex combs like 2 (Drosophila)
1,171210181	0,53757	0,903752727	0,0473	ASXL2	additional sex combs like 2 (Drosophila)
0,87417862	0,55205	0,737645729	0,0005	ASXL2	additional sex combs like 2 (Drosophila)
0,995849753	0,96965	1,155886707	0,00326	ASXL2	additional sex combs like 2 (Drosophila)
1,056285625	0,76289	0,77271055	0,02424	ASXL2	additional sex combs like 2 (Drosophila)
0,818469182	0,28617	0,780786493	0,00117	ATAD1	ATPase family, AAA domain containing 1
0,865736566	0,47981	0,778624691	0,00768	ATAD2	ATPase family, AAA domain containing 2
0,995849753	0,98432	0,740719899	0,00023	ATAD2	ATPase family, AAA domain containing 2
0,794985251	0,23406	0,806641759	0,02212	ATAD2B	ATPase family, AAA domain containing 2B
0,984866443	0,90725	1,282536603	0,00589	ATAD3B	ATPase family, AAA domain containing 3B
1,109569472	0,3968	1,198309021	0,0092	ATCAY	ataxia, cerebellar, Cayman type
0,890075733	0,61914	0,771105413	0,01649	ATE1	arginyltransferase 1
0,944747041	0,80586	0,735093668	0,00314	ATF1	activating transcription factor 1
0,965936329	0,88819	0,792234811	0,00949	ATF1	activating transcription factor 1
1,174461971	0,16725	1,860899315	0,00526	ATF3	activating transcription factor 3
1,50733491	0,05404	1,361314116	0,00681	ATF5	activating transcription factor 5
1,110338834	0,25508	1,21167266	0,00045	ATF6	activating transcription factor 6
0,960594864	0,71587	1,155886707	0,0251	ATF6B	activating transcription factor 6 beta
0,923382311	0,5862	0,76418826	0,00105	ATF7	activating transcription factor 7
0,961927455	0,71856	0,863339559	0,00472	ATF7IP	activating transcription factor 7 interacting protein
0,918912883	0,51263	0,827596816	0,00983	ATG10	ATG10 autophagy related 10 homolog (S. cerevisiae)
0,991716731	0,95842	1,138394029	0,03918	ATG13	ATG13 autophagy related 13 homolog (S. cerevisiae)
1,014662547	0,93565	1,137605228	0,0171	ATG13	ATG13 autophagy related 13 homolog (S. cerevisiae)
0,783497187	0,09952	0,821880187	0,0035	ATG14	ATG14 autophagy related 14 homolog (S. cerevisiae)
0,736623843	0,10534	0,714992493	0,00002	ATG16L1	ATG16 autophagy related 16-like 1 (S. cerevisiae)
0,873572896	0,15937	0,883315051	0,01524	ATG16L1	ATG16 autophagy related 16-like 1 (S. cerevisiae)
0,730522189	0,05179	0,798298386	0,00028	ATG2B	ATG2 autophagy related 2 homolog B (S. cerevisiae)
1,009751298	0,95085	0,837987135	0,00263	ATG3	ATG3 autophagy related 3 homolog (S. cerevisiae)
0,994470169	0,97648	1,226884977	0,00052	ATG7	ATG7 autophagy related 7 homolog (S. cerevisiae)
0,685866644	0,0852	0,782954296	0,00607	ATL1	atlastin GTPase 1
0,893785162	0,3732	0,796640096	0,00276	ATL3	atlastin GTPase 3
0,76950361	0,06604	0,859756486	0,00736	ATL3	atlastin GTPase 3
1,164733586	0,15341	1,318593614	0,0027	ATM	ataxia telangiectasia mutated
1,060687741	0,77504	1,237132479	0,01692	ATM	ataxia telangiectasia mutated
1,337000495	0,06493	1,274560627	0,00066	ATMIN	ATM interactor
1,031683179	0,80135	1,207480591	0,02804	ATN1	atrophin 1
1,068805991	0,44818	1,217566019	0,00068	ATOH1	atonal homolog 1 (Drosophila)
1,159095952	0,12826	1,20163605	0,00307	ATOH8	atonal homolog 8 (Drosophila)
1,002776436	0,98073	1,294145654	0,00611	ATP10A	ATPase, class V, type 10A
0,86934456	0,14617	0,863938187	0,02689	ATP11A	ATPase, class VI, type 11A
0,758383773	0,28131	0,70514898	0,00044	ATP11A	ATPase, class VI, type 11A
0,953298545	0,58227	1,094293701	0,03877	ATP11A	ATPase, class VI, type 11A
0,674083866	0,2081	0,690637224	0,00183	ATP11B	ATPase, class VI, type 11B
0,627635996	0,10773	0,670356296	0,00039	ATP11B	ATPase, class VI, type 11B
1,035982764	0,7462	1,140763716	0,04794	ATP13A5	ATPase type 13A5
0,917004043	0,29816	0,877213549	0,02593	ATP13A5	ATPase type 13A5
0,871154192	0,6019	1,274560627	0,00034	ATP1A1	ATPase, Na+/K+ transporting, alpha 1 polypeptide
1,046810282	0,57455	1,207480591	0,00229	ATP1A1OS	ATP1A1 opposite strand
1,078480432	0,80273	0,78132788	0,00667	ATP1B1	ATPase, Na+/K+ transporting, beta 1 polypeptide
1,203303026	0,07884	1,140763716	0,03609	ATP1B2	ATPase, Na+/K+ transporting, beta 2 polypeptide
0,73153561	0,27447	0,737645729	0,00148	ATP2B1	ATPase, Ca++ transporting, plasma membrane 1
0,884540435	0,65459	0,79774524	0,01211	ATP2B1	ATPase, Ca++ transporting, plasma membrane 1
0,798298386	0,37204	0,735603373	0,00109	ATP2B1	ATPase, Ca++ transporting, plasma membrane 1
1,151887642	0,1896	1,146312186	0,03388	ATP2B3	ATPase, Ca++ transporting, plasma membrane 3
0,992404375	0,93743	0,855002178	0,03883	ATP2B3	ATPase, Ca++ transporting, plasma membrane 3
0,842062954	0,46052	0,76950361	0,00562	ATP2C1	ATPase, Ca++ transporting, type 2C, member 1
0,628506687	0,13367	0,587230986	0,00002	ATP2C1	ATPase, Ca++ transporting, type 2C, member 1
0,675955417	0,07794	0,795536484	0,00547	ATP2C1	ATPase, Ca++ transporting, type 2C, member 1
0,784584098	0,06683	0,806641759	0,00361	ATP2C2	ATPase, Ca++ transporting, type 2C, member 2
1,123499903	0,2047	1,167967395	0,01116	ATP2C2	ATPase, Ca++ transporting, type 2C, member 2
1,048262476	0,6761	1,114966219	0,02746	ATP4A	ATPase, H+/K+ exchanging, alpha polypeptide
1,084477409	0,34856	1,294145654	0,00001	ATP4B	ATPase, H+/K+ exchanging, beta polypeptide
0,714992493	0,11251	0,893785162	0,03129	ATP5A1	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle
0,84323111	0,26365	0,876605721	0,02921	ATP5C1	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1
0,84264683	0,2213	0,87417862	0,03981	ATP5C1	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1

0,839149637	0,22763	0,885767519	0,02464	ATP5C1	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1
0,998614666	0,99285	0,875998315	0,01567	ATP5F1	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1
0,808320869	0,06706	0,871154192	0,01221	ATP5I	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit E
0,824162085	0,22418	0,777546036	0,00102	ATP5L	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit G
0,875998315	0,08536	0,79940583	0,00119	ATP5S	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)
0,880259014	0,5667	0,67877249	0,00002	ATP5S	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)
0,997922719	0,98323	0,793883931	0,00001	ATP5S	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit s (factor B)
0,890692901	0,178	0,853226098	0,02148	ATP5SL	ATP5S-like
1,071773463	0,4917	1,216722359	0,01073	ATP6AP1L	ATPase, H+ transporting, lysosomal accessory protein 1-like
0,768437591	0,06411	0,881480158	0,0079	ATP6AP2	ATPase, H+ transporting, lysosomal accessory protein 2
1,185092771	0,05085	1,195819797	0,01052	ATP6V0A2	ATPase, H+ transporting, lysosomal V0 subunit a2
0,901250463	0,43971	0,825877665	0,00383	ATP6V0A2	ATPase, H+ transporting, lysosomal V0 subunit a2
1,121166078	0,51333	1,141554707	0,01991	ATP6V0B	ATPase, H+ transporting, lysosomal 21kDa, V0 subunit b
0,724471077	0,21014	0,678302164	0,03134	ATP6V0E1	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1
0,901875378	0,50168	0,883315051	0,03043	ATP6V1A	ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A
0,87175824	0,37914	0,876605721	0,01964	ATP6V1C1	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1
0,668500248	0,05726	0,759435845	0,00039	ATP6V1D	ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D
0,62546454	0,09155	0,789493887	0,00847	ATP6V1D	ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D
0,859756486	0,30608	0,859756486	0,02882	ATP6V1G1	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1
1,009751298	0,96187	0,871154192	0,02498	ATP6V1G1	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1
1,083725967	0,23521	1,143138335	0,04652	ATP6V1G3	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G3
0,721464343	0,24894	0,674551267	0,00046	ATP7A	ATPase, Cu++ transporting, alpha polypeptide
0,868140228	0,62877	0,798298386	0,01028	ATP7A	ATPase, Cu++ transporting, alpha polypeptide
1,106497353	0,27803	1,148698355	0,0282	ATP8A1	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1
0,879039561	0,6271	0,723467443	0,00768	ATP8B1	ATPase, aminophospholipid transporter, class I, type 8B, member 1
1,089752112	0,40028	1,138394029	0,02611	ATP8B2	ATPase, class I, type 8B, member 2
1,311302014	0,17267	1,450952208	0,00457	ATP8B2	ATPase, class I, type 8B, member 2
0,938871747	0,77205	0,835666959	0,00353	ATP9A	ATPase, class II, type 9A
0,892546971	0,48382	0,813943185	0,00141	ATP9B	ATPase, class II, type 9B
0,878430468	0,35327	1,139973273	0,04661	ATP9B	ATPase, class II, type 9B
1,037419937	0,70566	1,176906737	0,0038	ATPAF1-AS1	ATPAF1 antisense RNA 1 (non-protein coding)
0,809442217	0,21859	0,768437591	0,00335	ATPBD4	ATP binding domain 4
0,800514811	0,05097	0,873572896	0,01197	ATPIF1	ATPase inhibitory factor 1
0,946713631	0,56541	0,845572287	0,03704	ATPIF1	ATPase inhibitory factor 1
0,747424624	0,12398	0,84264683	0,01493	ATPIF1	ATPase inhibitory factor 1
0,73153561	0,06396	0,78024548	0,0006	ATR	ataxia telangiectasia and Rad3 related
0,873572896	0,55972	0,808881348	0,00695	ATR	ataxia telangiectasia and Rad3 related
0,549427109	0,06609	0,581560021	0,0003	ATRX	alpha thalassemia/mental retardation syndrome X-linked
0,950000383	0,7465	0,81056512	0,01176	ATXN1	ataxin 1
1,0181852	0,95631	0,804408371	0,0016	ATXN1	ataxin 1
0,779704843	0,12734	0,795536484	0,00064	ATXN1	ataxin 1
0,955282936	0,8282	0,715984371	0,00309	ATXN1L	ataxin 1-like
1,048989328	0,63514	1,096571589	0,04452	ATXN2	ataxin 2
0,794985251	0,21991	0,835666959	0,01654	ATXN3	ataxin 3
0,822450069	0,295	0,798298386	0,04461	ATXN3	ataxin 3
0,831622098	0,4524	0,763658749	0,0012	ATXN7	ataxin 7
0,923382311	0,41471	0,79940583	0,01353	ATXN7	ataxin 7
0,973329374	0,78784	1,145517898	0,01149	ATXN8OS	ATXN8 opposite strand (non-protein coding)
0,944092419	0,58701	1,142346247	0,01128	AURKA	aurora kinase A
0,880869374	0,13841	0,856188285	0,01777	AURKAIP1	aurora kinase A interacting protein 1
0,798851916	0,07221	0,807201075	0,01826	AUTS2	autism susceptibility candidate 2
0,903752727	0,33275	0,782954296	0	AVEN	apoptosis, caspase activation inhibitor
1,076240125	0,54831	0,929160674	0,04948	AVL9	AVL9 homolog (S. cerevisiase)
0,844400887	0,41356	0,786762445	0,00027	AVL9	AVL9 homolog (S. cerevisiase)
0,870550563	0,35057	1,21167266	0,02278	AVPI1	arginine vasopressin-induced 1
1,053361036	0,41959	1,098092814	0,03397	AVPR1A	arginine vasopressin receptor 1A
1,131314463	0,2683	1,172834949	0,03395	AVPR1B	arginine vasopressin receptor 1B
1,082975046	0,49483	1,149494848	0,00603	AVPR2	arginine vasopressin receptor 2
1,018891197	0,80902	1,171210181	0,00429	AWAT1	acyl-CoA wax alcohol acyltransferase 1
1,093535457	0,34769	1,127400412	0,01528	AXIN2	axin 2
1,063632673	0,58243	1,179356592	0,00191	AXIN2	axin 2
0,90000193	0,51101	0,84323111	0,02166	AZI2	5-azacytidine induced 2
0,902500727	0,3893	0,856188285	0,00973	AZI2	5-azacytidine induced 2
1,056285625	0,50474	1,269270886	0,00008	B3GALT1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1
1,180174343	0,15826	1,120389214	0,023	B3GALT1	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 1
1,154285418	0,16075	1,194163187	0,01063	B3GALTL	beta 1,3-galactosyltransferase-like
1,180174343	0,2099	1,263127262	0,04088	B3GAT3	beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I)
1,098854218	0,44675	1,149494848	0,01344	B3GNT1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1
1,155085785	0,27832	1,124278924	0,03096	B3GNT3	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3
1,118837101	0,18028	1,156688184	0,00193	B3GNT4	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 4
1,215036792	0,07651	1,120389214	0,03935	B4GALNT1	beta-1,4-N-acetyl-galactosaminyl transferase 1
0,706127202	0,09418	0,804966138	0,00641	B4GALNT3	beta-1,4-N-acetyl-galactosaminyl transferase 3
1,409320755	0,13685	1,371733289	0,00853	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
1,363202607	0,20342	1,21335356	0,01745	B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5
1,041743429	0,85744	0,765778999	0,00121	B4GALT6	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6
1,219255094	0,27755	1,208317843	0,00581	BACE2	beta-site APP-cleaving enzyme 2
1,212512819	0,1994	1,241427492	0,00105	BACE2	beta-site APP-cleaving enzyme 2
0,894404902	0,50993	0,743806881	0,01558	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1
1,032398535	0,79489	1,163926534	0,03426	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1
0,635075491	0,12143	0,835666959	0,0059	BAG1	BCL2-associated athanogene
0,582366793	0,05144	0,69399636	0,00004	BAG1	BCL2-associated athanogene
1,074004472	0,52471	1,214194884	0,0059	BAG2	BCL2-associated athanogene 2
0,732550437	0,08421	0,74277646	0,00543	BAG4	BCL2-associated athanogene 4
0,846158597	0,41231	0,856188285	0,01769	BAG4	BCL2-associated athanogene 4
0,558256481	0,11932	0,512278412	0	BAG5	BCL2-associated athanogene 5
0,859160755	0,30131	0,816203046	0,00685	BAIAP2	BAI1-associated protein 2
1,219255094	0,12594	1,236275261	0,00532	BAIAP3	BAI1-associated protein 3
1,139183377	0,25948	1,230291345	0,00041	BAIAP3	BAI1-associated protein 3
1,203303026	0,0676	1,190856849	0,02733	BAK1	BCL2-antagonist/killer 1
0,940174203	0,53323	1,139183377	0,02848	BANP	BTG3 associated nuclear protein
0,885153765	0,48833	0,744838732	0,00002	BARD1	BRCA1 associated RING domain 1
0,84264683	0,51285	0,747424624	0,00143	BARD1	BRCA1 associated RING domain 1
1,120389214	0,41734	0,881480158	0,02601	BARD1	BRCA1 associated RING domain 1
1,0238469	0,8072	1,121943481	0,01897	BARHL1	BarH-like homeobox 1
1,182631	0,28399	1,244874235	0,02375	BARX1	BARX homeobox 1
1,234562607	0,07959	1,172834949	0,00686	BATF3	basic leucine zipper transcription factor, ATF-like 3
1,235418637	0,21331	1,346300069	0,00469	BAX	BCL2-associated X protein
0,712025098	0,37256	0,728499557	0,00002	BAZ1A	bromodomain adjacent to zinc finger domain, 1A
0,810003474	0,35113	0,791685866	0,00494	BAZ1A	bromodomain adjacent to zinc finger domain, 1A
0,966606097	0,69951	0,829894586	0,02015	BBIP1	BBSome interacting protein 1
0,933679945	0,65344	0,820172911	0,02477	BBIP1	BBSome interacting protein 1
0,905633983	0,29758	0,872967591	0,03712	BBS5	Bardet-Biedl syndrome 5
0,76630998	0,19768	0,66342257	0,00018	BBS7	Bardet-Biedl syndrome 7
0,760489377	0,28551	0,692074858	0,00176	BBS7	Bardet-Biedl syndrome 7

0,8962667	0,36363	0,902500727	0,0463	BBS9	Bardet-Biedl syndrome 9
1,396678532	0,12479	1,200803427	0,0445	BBX	bobby sox homolog (Drosophila)
0,857376037	0,46095	1,145517898	0,02557	BBX	bobby sox homolog (Drosophila)
1,111108729	0,15228	1,153485605	0,01844	BCAN	brevican
1,106497353	0,43932	1,132883885	0,00724	BCAN	brevican
1,082224645	0,29421	1,231144413	0,00007	BCAN	brevican
0,814507563	0,21787	0,740719899	0,02175	BCAP29	B-cell receptor-associated protein 29
0,949342121	0,79298	0,78132788	0,00559	BCAP29	B-cell receptor-associated protein 29
0,771105413	0,10374	0,855002178	0,04967	BCAP29	B-cell receptor-associated protein 29
0,765248385	0,05094	0,702222438	0,00005	BCAP29	B-cell receptor-associated protein 29
1,107264584	0,40871	1,356604327	0,00053	BCAP29	B-cell receptor-associated protein 29
0,903752727	0,39112	0,876605721	0,04984	BCCIP	BRCA2 and CDKN1A interacting protein
0,961260928	0,6553	0,872362706	0,01245	BCDIN3D	BCDIN3 domain containing
1,02313747	0,80029	1,098092814	0,03078	BCKDHA	branched chain keto acid dehydrogenase E1, alpha polypeptide
0,839731493	0,20365	0,796640096	0,01371	BCKDHB	branched chain keto acid dehydrogenase E1, beta polypeptide
1,107264584	0,49805	1,172022284	0,01692	BCKDK	branched chain ketoacid dehydrogenase kinase
1,143930973	0,35827	1,275444392	0,00438	BCL10	B-cell CLL/lymphoma 10
0,714992493	0,31783	0,787307977	0,0383	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)
0,620713746	0,16904	0,711531731	0,00163	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein)
1,101141598	0,17067	1,209155676	0,02532	BCL2	B-cell CLL/lymphoma 2
1,128964405	0,65299	1,263127262	0,00217	BCL2L1	BCL2-like 1
1,020304659	0,85869	1,174461971	0,01347	BCL2L11	BCL2-like 11 (apoptosis facilitator)
1,031683179	0,81489	1,21167266	0,01313	BCL2L11	BCL2-like 11 (apoptosis facilitator)
1,491744027	0,05996	1,380317353	0,01585	BCL2L11	BCL2-like 11 (apoptosis facilitator)
1,096571589	0,31525	1,168777249	0,00115	BCL2L11	BCL2-like 11 (apoptosis facilitator)
1,124278924	0,09725	1,140763716	0,01485	BCL2L14	BCL2-like 14 (apoptosis facilitator)
1,076986376	0,43866	1,175276328	0,01177	BCL2L15	BCL2-like 15
1,156688184	0,29326	1,4054187	0,00358	BCL6	B-cell CLL/lymphoma 6
1,184271612	0,05297	1,282536603	0,00131	BCL6	B-cell CLL/lymphoma 6
1,108032348	0,32381	1,236275261	0,00068	BCL6B	B-cell CLL/lymphoma 6, member B
1,155886707	0,26705	1,248330549	0,00261	BCL6B	B-cell CLL/lymphoma 6, member B
0,743806881	0,25961	0,765248385	0,02232	BCLAF1	BCL2-associated transcription factor 1
0,788400174	0,186	0,768970416	0,01526	BCMO1	beta-carotene 15,15'-monooxygenase 1
1,111879158	0,37777	1,184271612	0,03364	BCO2	beta-carotene oxygenase 2
1,018891197	0,90725	0,814507563	0,02341	BCOR	BCL6 corepressor
1,110338834	0,61189	0,865136691	0,02266	BCOR	BCL6 corepressor
1,056285625	0,54874	1,167158102	0,00212	BCORL1	BCL6 corepressor-like 1
1,043188594	0,71773	1,118061851	0,01999	BCRP3	breakpoint cluster region pseudogene 3
1,113421618	0,32403	1,168777249	0,0066	BDH1	3-hydroxybutyrate dehydrogenase, type 1
0,844986384	0,12826	0,904379378	0,04161	BDH2	3-hydroxybutyrate dehydrogenase, type 2
0,85797053	0,4498	0,743806881	0,00507	BDP1	B double prime 1, subunit of RNA polymerase III transcription initiation factor IIIB
0,995159722	0,95664	0,777546036	0,00067	BEAN1	brain expressed, associated with NEDD4, 1
0,801625329	0,09918	0,831622098	0,00037	BECN1	beclin 1, autophagy related
1,217566019	0,05441	1,294145654	0,00056	BEST1	bestrophin 1
0,946713631	0,51063	1,131314463	0,03117	BEST1	bestrophin 1
1,139973273	0,27378	1,134455485	0,00927	BEST1	bestrophin 1
1,097331938	0,37291	1,136029265	0,02271	BEST2	bestrophin 2
1,205807828	0,35218	1,337927555	0,00096	BET1L	blocked early in transport 1 homolog (S. cerevisiae)-like
0,927873476	0,67262	0,782411782	0,00302	BEX2	brain expressed X-linked 2
0,712518807	0,05246	0,772175133	0,03685	BEX4	brain expressed, X-linked 4
1,112650121	0,53098	1,187559666	0,02139	BFAR	bifunctional apoptosis regulator
0,839149637	0,19708	0,886381699	0,0256	BFSP1	beaded filament structural protein 1, filensin
1,107264584	0,68165	1,426025717	0,01451	BGN	biglycan
1,274560627	0,0741	1,238848698	0,04797	BHLHE41	basic helix-loop-helix family, member e41
1,217566019	0,22149	1,31494276	0,00239	BHLHE41	basic helix-loop-helix family, member e41
1,010451446	0,93982	1,250062303	0,00863	BHMT	betaine--homocysteine S-methyltransferase
1,136816973	0,09881	1,115739322	0,02235	BHMT2	betaine--homocysteine S-methyltransferase 2
1,263127262	0,07983	1,346300069	0,00061	BICD1	bicaudal D homolog 1 (Drosophila)
0,528142813	0,07719	0,599985691	0,00025	BICD2	bicaudal D homolog 2 (Drosophila)
0,586824089	0,14221	0,721464343	0,00011	BICD2	bicaudal D homolog 2 (Drosophila)
1,151887642	0,38394	1,217566019	0,01275	BIN1	bridging integrator 1
1,129747215	0,44619	1,220946513	0,03549	BIN1	bridging integrator 1
1,02313747	0,85051	1,163926534	0,02695	BIN3	bridging integrator 3
0,918276162	0,66977	0,847919965	0,03412	BIRC2	baculoviral IAP repeat containing 2
1,018891197	0,86335	1,124278924	0,04624	BIRC5	baculoviral IAP repeat containing 5
0,878430468	0,54347	0,887611337	0,04989	BIRC6	baculoviral IAP repeat containing 6
1,071030823	0,43363	1,085981856	0,03158	BIVM	basic, immunoglobulin-like variable motif containing
0,955945318	0,67035	0,808320869	0,00835	BLNK	B-cell linker
1,10343374	0,2991	1,192508872	0,03255	BLOC1S3	biogenesis of lysosomal organelles complex-1, subunit 3
0,656560563	0,11087	0,696888619	0,00103	BLZF1	basic leucine zipper nuclear factor 1
0,672683604	0,05842	0,641268301	0,00598	BLZF1	basic leucine zipper nuclear factor 1
1,082975046	0,60726	1,227735684	0,00252	BMP1	bone morphogenetic protein 1
1,352848231	0,11666	1,53581027	0,00084	BMP1	bone morphogenetic protein 1
1,232852325	0,23219	1,330529041	0,00065	BMP1	bone morphogenetic protein 1
1,090507733	0,55347	1,25092908	0,00404	BMP1	bone morphogenetic protein 1
1,026689546	0,89856	0,743806881	0,00083	BMP2K	BMP2 inducible kinase
0,988970916	0,96389	0,737645729	0,00004	BMP2K	BMP2 inducible kinase
0,71946679	0,05355	0,625898229	0,00001	BMP2K	BMP2 inducible kinase
1,004167543	0,9879	0,724471077	0,00086	BMP2K	BMP2 inducible kinase
1,073260286	0,48865	1,214194884	0,00209	BMP6	bone morphogenetic protein 6
1,143930973	0,44552	1,178539408	0,00263	BMP8A	bone morphogenetic protein 8a
0,87539133	0,32093	0,844986384	0,0135	BMPR1A	bone morphogenetic protein receptor, type IA
0,829894586	0,47002	0,770571108	0,00398	BMPR1A	bone morphogenetic protein receptor, type IA
0,720464874	0,23653	0,815072332	0,03171	BMPR1B	bone morphogenetic protein receptor, type IB
0,706127202	0,05267	0,800514811	0,00082	BMS1	BMS1 homolog, ribosome assembly protein (yeast)
0,660211421	0,06552	0,681601304	0	BNC1	basonuclin 1
0,90062598	0,59801	0,792784137	0,00397	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2
0,744322628	0,20396	0,755759964	0,00147	BNIP2	BCL2/adenovirus E1B 19kDa interacting protein 2
0,558643569	0,05525	0,638164384	0,00212	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3
0,741747467	0,11226	0,796088099	0,00189	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like
1,035982764	0,67856	0,918912883	0,03118	BOD1	biorientation of chromosomes in cell division 1
0,665725807	0,1599	0,657927263	0,00374	BOD1L	biorientation of chromosomes in cell division 1-like
0,980779004	0,86085	1,140763716	0,03224	BOLL	bol, boule-like (Drosophila)
0,949342121	0,63065	1,17609125	0,02476	BPIFA1	BPI fold containing family A, member 1
1,148698355	0,19292	1,121943481	0,01348	BPIFA3	BPI fold containing family A, member 3
1,10343374	0,26296	1,209155676	0,02195	BPIFA4P	BPI fold containing family A, member 4, pseudogene
1,121943481	0,26123	1,132098902	0,00357	BPIFB1	BPI fold containing family B, member 1
1,151887642	0,24863	1,216722359	0,00097	BPIFB2	BPI fold containing family B, member 2
1,095811766	0,27622	1,156688184	0,02211	BPIFB4	BPI fold containing family B, member 4
1,185092771	0,06317	1,145517898	0,01542	BPIFB6	BPI fold containing family B, member 6
1,141554707	0,56536	0,807760778	0,00054	BPNT1	3'(2'), 5'-bisphosphate nucleotidase 1
0,718968266	0,28909	0,807760778	0,00204	BPTF	bromodomain PHD finger transcription factor
1,01395948	0,95683	0,815637493	0,00694	BPTF	bromodomain PHD finger transcription factor
0,885153765	0,56973	0,85027416	0,00306	BPTF	bromodomain PHD finger transcription factor

0,875998315	0,62517	0,84264683	0,00578	BPTF	bromodomain PHD finger transcription factor
0,936921447	0,52341	1,180174343	0,00665	BPY2	basic charge, Y-linked, 2
0,719965659	0,1197	0,71400199	0,036	BRAF	v-raf murine sarcoma viral oncogene homolog B1
0,811689581	0,13496	0,845572287	0,0186	BRAP	BRCA1 associated protein
0,775930854	0,055	0,853226098	0,00673	BRAP	BRCA1 associated protein
0,737134609	0,10113	0,778085177	0,02958	BRAP	BRCA1 associated protein
0,848507902	0,19638	0,89688816	0,03708	BRD3	bromodomain containing 3
0,622437118	0,15647	0,732042848	0,00005	BRD7	bromodomain containing 7
0,884540435	0,22907	0,762072415	0,00184	BRD7	bromodomain containing 7
0,953959551	0,8212	1,155085785	0,03299	BRI3	brain protein I3
0,874784765	0,28904	0,856188285	0,01562	BRIP1	BRCA1 interacting protein C-terminal helicase 1
0,76154437	0,11169	0,790589117	0,00164	BRIP1	BRCA1 interacting protein C-terminal helicase 1
0,822450069	0,07661	0,851453708	0,00143	BRIX1	BRX1, biogenesis of ribosomes, homolog (S. cerevisiae)
0,946713631	0,74368	0,838568184	0,02662	BRMS1L	breast cancer metastasis-suppressor 1-like
0,877213549	0,46698	0,824733549	0,00182	BRMS1L	breast cancer metastasis-suppressor 1-like
0,874784765	0,18308	0,844986384	0,04099	BRP44	brain protein 44
0,90062598	0,55186	0,786217292	0,00382	BRP44	brain protein 44
1,085981856	0,44911	0,87539133	0,02566	BRP44L	brain protein 44-like
0,844986384	0,216	0,877821798	0,00953	BRPF1	bromodomain and PHD finger containing, 1
1,054091423	0,66105	1,159899655	0,01451	BRPF3	bromodomain and PHD finger containing, 3
1,128964405	0,2249	1,129747215	0,04398	BRSK2	BR serine/threonine kinase 2
0,931740429	0,71464	0,791685866	0,02145	BRWD1	bromodomain and WD repeat domain containing 1
0,832198735	0,07392	0,825305409	0,04912	BRWD1	bromodomain and WD repeat domain containing 1
0,938871747	0,43727	0,81056512	0,00677	BRWD1	bromodomain and WD repeat domain containing 1
0,85027416	0,35248	0,863938187	0,0403	BRWD1	bromodomain and WD repeat domain containing 1
0,882702996	0,64726	0,848507902	0,04433	BRWD1	bromodomain and WD repeat domain containing 1
0,630688704	0,08208	0,733058379	0,00027	BRWD1	bromodomain and WD repeat domain containing 1
1,035982764	0,77404	0,855595026	0,03415	BRWD1	bromodomain and WD repeat domain containing 1
1,01395948	0,90975	0,876605721	0,04414	BRWD3	bromodomain and WD repeat domain containing 3
1,172022284	0,36145	1,332374825	0,00045	BSCL2	Berardinelli-Seip congenital lipodystrophy 2 (seipin)
1,154285418	0,64755	1,21335356	0,04191	BSG	basigin (Ok blood group)
1,111879158	0,16652	1,214194884	0,00084	BSN	bassoon (presynaptic cytomatrix protein)
1,063632673	0,48469	1,150291893	0,01175	BSND	Bartter syndrome, infantile, with sensorineural deafness (Barttin)
0,788400174	0,16625	0,824733549	0,00424	BTAF1	BTAF1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa (Mot1 homolog, S. cerevisiae)
0,79940583	0,2825	0,72597914	0	BTBD1	BTB (POZ) domain containing 1
0,852044095	0,32515	0,801069878	0,00111	BTBD10	BTB (POZ) domain containing 10
0,617709319	0,17156	0,611320139	0,00111	BTBD11	BTB (POZ) domain containing 11
0,89688816	0,27885	0,84264683	0,00451	BTBD18	BTB (POZ) domain containing 18
0,939522749	0,70035	0,786762445	0,00001	BTBD7	BTB (POZ) domain containing 7
0,754712984	0,06937	0,803293997	0,0009	BTBD7	BTB (POZ) domain containing 7
0,683967652	0,21352	0,734584317	0,00027	BTBD7	BTB (POZ) domain containing 7
0,722465199	0,07516	0,772175133	0,00007	BTBD7	BTB (POZ) domain containing 7
0,957271458	0,70348	0,844986384	0,00162	BTBD9	BTB (POZ) domain containing 9
1,296839555	0,28441	0,882091365	0,02091	BTC	betacellulin
0,944747041	0,54275	1,105730653	0,02861	BTD	biotinidase
0,736113431	0,07635	0,720964436	0,00158	BTF3L4	basic transcription factor 3-like 4
0,827023368	0,27089	0,801069878	0,03073	BTG3	BTG family, member 3
1,066585781	0,56406	1,25962998	0,00159	BTN1A1	butyrophilin, subfamily 1, member A1
1,099616149	0,32633	1,182631	0,00781	BTN2A1	butyrophilin, subfamily 2, member A1
1,092020546	0,26297	1,163120042	0,00654	BTN2A2	butyrophilin, subfamily 2, member A2
1,180174343	0,05805	1,174461971	0,00542	BTN2A2	butyrophilin, subfamily 2, member A2
1,264879542	0,05901	1,280759861	0,00312	BTN3A1	butyrophilin, subfamily 3, member A1
1,168777249	0,65229	1,549711862	0,00002	BTN3A2	butyrophilin, subfamily 3, member A2
1,333298677	0,07467	1,350037985	0,00074	BTN3A2	butyrophilin, subfamily 3, member A2
1,257884972	0,33644	1,366987452	0,0012	BTN3A3	butyrophilin, subfamily 3, member A3
1,16634937	0,1131	1,283425898	0,0002	BTNL2	butyrophilin-like 2 (MHC class II associated)
1,207480591	0,15492	1,224336392	0,00085	BTNL9	butyrophilin-like 9
1,057750964	0,47176	1,096571589	0,03787	BTNL9	butyrophilin-like 9
1,104964485	0,42989	1,215879283	0,01594	BTNL9	butyrophilin-like 9
0,908148418	0,50963	0,865136691	0,00279	BUB3	budding uninhibited by benzimidazoles 3 homolog (yeast)
0,951318276	0,58618	0,835666959	0,01655	BUD13	BUD13 homolog (S. cerevisiae)
0,621574834	0,08995	0,823020345	0,00104	BUD31	BUD31 homolog (S. cerevisiae)
1,169587664	0,10204	1,185092771	0,00027	BVES	blood vessel epicardial substance
0,866937564	0,28827	0,865136691	0,0449	BYSL	bystin-like
1,156688184	0,11576	1,21167266	0,00336	C10orf103	chromosome 10 open reading frame 103
0,974004269	0,78194	1,101905116	0,03085	C10orf114	chromosome 10 open reading frame 114
1,049716684	0,52932	1,107264584	0,02373	C10orf114	chromosome 10 open reading frame 114
0,817335328	0,42717	0,754190038	0,01285	C10orf118	chromosome 10 open reading frame 118
0,97874165	0,85612	0,873572896	0,02316	C10orf12	chromosome 10 open reading frame 12
1,301341855	0,09307	1,293248932	0,00112	C10orf125	chromosome 10 open reading frame 125
0,959264119	0,8292	0,865136691	0,04942	C10orf137	chromosome 10 open reading frame 137
1,021720083	0,8531	0,863938187	0,00125	C10orf18	chromosome 10 open reading frame 18
0,857376037	0,38418	0,779704843	0,01019	C10orf18	chromosome 10 open reading frame 18
0,821880187	0,06399	0,677832163	0,00453	C10orf18	chromosome 10 open reading frame 18
1,22010051	0,08545	1,111108729	0,04808	C10orf27	chromosome 10 open reading frame 27
0,956608158	0,77265	0,789493887	0,00355	C10orf32	chromosome 10 open reading frame 32
1,062159186	0,43141	0,847332435	0,00214	C10orf46	chromosome 10 open reading frame 46
0,750019495	0,36658	0,838568184	0,04423	C10orf46	chromosome 10 open reading frame 46
0,920187651	0,31508	0,868140228	0,02693	C10orf47	chromosome 10 open reading frame 47
1,009051634	0,96654	0,709561678	0,00803	C10orf47	chromosome 10 open reading frame 47
0,995159722	0,95885	1,111108729	0,04417	C10orf53	chromosome 10 open reading frame 53
1,309485423	0,05815	1,186736798	0,01247	C10orf53	chromosome 10 open reading frame 53
1,173648178	0,29952	1,23370717	0,04811	C10orf54	chromosome 10 open reading frame 54
1,150291893	0,07279	1,181811547	0,00637	C10orf67	chromosome 10 open reading frame 67
0,911933166	0,54591	0,847919965	0,01097	C10orf76	chromosome 10 open reading frame 76
1,148698355	0,10375	1,125838586	0,04528	C10orf85	chromosome 10 open reading frame 85
1,224336392	0,11421	1,189207115	0,02505	C10orf88	chromosome 10 open reading frame 88
1,159899655	0,09722	1,136029265	0,01367	C10orf93	chromosome 10 open reading frame 93
1,136816973	0,23464	1,110338834	0,04026	C10orf96	chromosome 10 open reading frame 96
1,038139271	0,83914	1,229438867	0,00027	C11orf10	chromosome 11 open reading frame 10
1,110338834	0,31272	1,139183377	0,00974	C11orf16	chromosome 11 open reading frame 16
1,214194884	0,0642	1,263127262	0,00221	C11orf20	chromosome 11 open reading frame 20
1,299539062	0,11536	1,286097483	0,00717	C11orf24	chromosome 11 open reading frame 24
1,108032348	0,53067	0,893785162	0,01038	C11orf31	chromosome 11 open reading frame 31
1,178539408	0,05025	0,875998315	0,01309	C11orf41	chromosome 11 open reading frame 41
1,082224645	0,43508	1,114966219	0,03313	C11orf42	chromosome 11 open reading frame 42
1,07997656	0,42939	1,189207115	0,00262	C11orf53	chromosome 11 open reading frame 53
0,865136691	0,54492	0,817902059	0,01907	C11orf54	chromosome 11 open reading frame 54
0,908778116	0,71186	0,85086373	0,0298	C11orf54	chromosome 11 open reading frame 54
0,990342872	0,93691	0,835666959	0,03059	C11orf57	chromosome 11 open reading frame 57
0,989656656	0,91602	0,863938187	0,00255	C11orf57	chromosome 11 open reading frame 57
0,786217292	0,18767	0,847332435	0,03435	C11orf57	chromosome 11 open reading frame 57
0,974679631	0,8515	0,879649076	0,01618	C11orf57	chromosome 11 open reading frame 57
0,922103118	0,53076	0,888226796	0,02653	C11orf58	chromosome 11 open reading frame 58

0,774319028	0,07749	0,758383773	0,00108	C11orf58	chromosome 11 open reading frame 58
0,868742185	0,39899	0,797192477	0,00004	C11orf58	chromosome 11 open reading frame 58
0,948684315	0,8082	0,730522189	0,00031	C11orf61	chromosome 11 open reading frame 61
1,071773463	0,64104	1,190856849	0,00735	C11orf71	chromosome 11 open reading frame 71
0,76630998	0,06941	0,863938187	0,01209	C11orf73	chromosome 11 open reading frame 73
1,068065408	0,35283	1,144724161	0,01143	C11orf85	chromosome 11 open reading frame 85
1,128182137	0,32534	1,383190629	0,03172	C11orf92	chromosome 11 open reading frame 92
1,002081605	0,98751	1,158292806	0,02494	C11orf95	chromosome 11 open reading frame 95
0,971980988	0,89651	0,786217292	0,00633	C12orf26	chromosome 12 open reading frame 26
0,795536484	0,05547	0,793883931	0,00284	C12orf32	chromosome 12 open reading frame 32
1,071030823	0,52553	1,189207115	0,01693	C12orf34	chromosome 12 open reading frame 34
0,782954296	0,08616	0,859756486	0,03712	C12orf4	chromosome 12 open reading frame 4
0,911933166	0,43844	0,825305409	0,0152	C12orf41	chromosome 12 open reading frame 41
1,069547088	0,44662	1,137605228	0,01753	C12orf42	chromosome 12 open reading frame 42
0,868140228	0,44964	0,743291492	0,00003	C12orf48	chromosome 12 open reading frame 48
0,875998315	0,42056	0,762072415	0,02434	C12orf5	chromosome 12 open reading frame 5
1,067325338	0,65822	0,879039561	0,03824	C12orf51	chromosome 12 open reading frame 51
1,203303026	0,0627	1,095052471	0,04972	C12orf51	chromosome 12 open reading frame 51
1,205807828	0,16903	1,154285418	0,00835	C12orf53	chromosome 12 open reading frame 53
0,881480158	0,57157	0,754190038	0,00107	C12orf56	chromosome 12 open reading frame 56
0,8362464	0,50241	0,639936207	0,00026	C12orf66	chromosome 12 open reading frame 66
1,010451446	0,94636	0,822450069	0,00158	C12orf66	chromosome 12 open reading frame 66
0,753667455	0,05732	0,797192477	0,00149	C12orf66	chromosome 12 open reading frame 66
0,959929261	0,72141	0,840313752	0,00392	C12orf73	chromosome 12 open reading frame 73
0,84264683	0,27586	0,738669032	0,00723	C12orf75	chromosome 12 open reading frame 75
1,123499903	0,26087	0,842062954	0,00975	C13orf27	chromosome 13 open reading frame 27
1,048262476	0,59562	1,135242102	0,04803	C13orf41	chromosome 13 open reading frame 41
0,823020345	0,0882	0,855002178	0,02217	C14orf1	chromosome 14 open reading frame 1
0,963261894	0,88599	0,859160755	0,03692	C14orf101	chromosome 14 open reading frame 101
1,014662547	0,84592	1,157490217	0,01888	C14orf105	chromosome 14 open reading frame 105
0,857376037	0,12699	0,805524291	0,00491	C14orf109	chromosome 14 open reading frame 109
0,787853886	0,30408	0,791137301	0,00223	C14orf118	chromosome 14 open reading frame 118
1,065846736	0,81701	0,732550437	0,01034	C14orf118	chromosome 14 open reading frame 118
0,939522749	0,81406	0,793333843	0,01232	C14orf118	chromosome 14 open reading frame 118
1,136816973	0,42437	0,840896415	0,01639	C14orf126	chromosome 14 open reading frame 126
0,990342872	0,96449	0,768970416	0,00039	C14orf126	chromosome 14 open reading frame 126
1,020304659	0,84541	0,869947353	0,03417	C14orf128	chromosome 14 open reading frame 128
0,843815796	0,43232	0,791137301	0,00213	C14orf129	chromosome 14 open reading frame 129
0,968618189	0,88063	0,817902059	0,02843	C14orf135	chromosome 14 open reading frame 135
0,90000193	0,46609	0,746389192	0,01963	C14orf142	chromosome 14 open reading frame 142
0,910038824	0,19818	0,828744904	0,00884	C14orf149	chromosome 14 open reading frame 149
1,018891197	0,85445	1,256142381	0,0012	C14orf159	chromosome 14 open reading frame 159
0,965936329	0,77175	0,905633983	0,03965	C14orf180	chromosome 14 open reading frame 180
1,320422841	0,05895	1,484523571	0,00012	C14orf34	chromosome 14 open reading frame 34
0,882702996	0,34966	0,840896415	0,01047	C14orf43	chromosome 14 open reading frame 43
0,950000383	0,64944	0,792234811	0,00048	C14orf43	chromosome 14 open reading frame 43
1,207480591	0,12043	1,139183377	0,02434	C14orf48	chromosome 14 open reading frame 48
1,099616149	0,23796	1,270150983	0,00043	C14orf70	chromosome 14 open reading frame 70
0,955282936	0,73514	0,849684999	0,0097	C15orf24	chromosome 15 open reading frame 24
0,866336856	0,54851	0,744322628	0,00012	C15orf29	chromosome 15 open reading frame 29
0,813379198	0,20903	0,720964436	0,00033	C15orf29	chromosome 15 open reading frame 29
0,5913155	0,09688	0,563700206	0,00004	C15orf29	chromosome 15 open reading frame 29
1,048989328	0,54189	1,107264584	0,02378	C15orf33	chromosome 15 open reading frame 33
0,821880187	0,28458	0,763129604	0,0013	C15orf40	chromosome 15 open reading frame 40
0,882091365	0,26889	0,834509281	0,0189	C15orf41	chromosome 15 open reading frame 41
1,031683179	0,65852	0,897510051	0,01192	C15orf41	chromosome 15 open reading frame 41
1,149494848	0,37665	1,171210181	0,02183	C15orf42	chromosome 15 open reading frame 42
0,931740429	0,52228	1,184271612	0,00582	C15orf55	chromosome 15 open reading frame 55
1,183451022	0,08187	1,336074078	0,00036	C15orf55	chromosome 15 open reading frame 55
1,185092771	0,17668	1,255271991	0,00915	C15orf57	chromosome 15 open reading frame 57
1,048989328	0,70333	1,17609125	0,03604	C15orf59	chromosome 15 open reading frame 59
0,986916546	0,91946	0,803293997	0,00122	C15orf61	chromosome 15 open reading frame 61
1,085981856	0,37324	1,129747215	0,02852	C16orf11	chromosome 16 open reading frame 11
1,074004472	0,48557	1,150291893	0,01649	C16orf3	chromosome 16 open reading frame 3
0,791685866	0,17358	0,793883931	0,04418	C16orf42	chromosome 16 open reading frame 42
1,124278924	0,20471	1,180992661	0,00313	C16orf45	chromosome 16 open reading frame 45
1,155085785	0,14631	1,145517898	0,01327	C16orf46	chromosome 16 open reading frame 46
0,929160674	0,68314	0,804408371	0,00424	C16orf52	chromosome 16 open reading frame 52
0,983502074	0,91324	0,882702996	0,01797	C16orf52	chromosome 16 open reading frame 52
1,026689546	0,87169	0,818469182	0,00553	C16orf52	chromosome 16 open reading frame 52
1,070288698	0,68647	1,297738767	0,00071	C16orf53	chromosome 16 open reading frame 53
1,051172909	0,55583	0,770037174	0,00589	C16orf53	chromosome 16 open reading frame 53
1,089752112	0,49559	1,22858698	0,01329	C16orf57	chromosome 16 open reading frame 57
1,136029265	0,45509	1,319507911	0,00436	C16orf58	chromosome 16 open reading frame 58
0,885767519	0,2064	0,822450069	0,00004	C16orf61	chromosome 16 open reading frame 61
1,134455485	0,29387	1,176906737	0,00584	C16orf71	chromosome 16 open reading frame 71
0,888842681	0,54765	0,789493887	0,00182	C16orf72	chromosome 16 open reading frame 72
0,84264683	0,36679	0,856781955	0,04304	C16orf72	chromosome 16 open reading frame 72
1,030253954	0,79197	1,190856849	0,01269	C16orf79	chromosome 16 open reading frame 79
1,111108729	0,17639	1,128964405	0,02302	C16orf82	chromosome 16 open reading frame 82
0,847332435	0,06225	0,8362464	0,00154	C16orf88	chromosome 16 open reading frame 88
0,885153765	0,14187	0,856188285	0,00331	C16orf91	chromosome 16 open reading frame 91
1,040300267	0,69196	1,144724161	0,00257	C17orf103	chromosome 17 open reading frame 103
1,152686347	0,33878	0,915733686	0,01816	C17orf104	chromosome 17 open reading frame 104
1,163120042	0,26166	1,197478705	0,01164	C17orf28	chromosome 17 open reading frame 28
0,781869643	0,10164	0,84264683	0,03028	C17orf42	chromosome 17 open reading frame 42
0,778624691	0,10641	0,736623843	0,00105	C17orf42	chromosome 17 open reading frame 42
1,114193651	0,19695	1,220946513	0,00021	C17orf46	chromosome 17 open reading frame 46
1,053361036	0,58946	1,17609125	0,01539	C17orf47	chromosome 17 open reading frame 47
0,998614666	0,98235	1,107264584	0,02771	C17orf50	chromosome 17 open reading frame 50
1,021012126	0,83528	1,137605228	0,01624	C17orf52	chromosome 17 open reading frame 52
0,85027416	0,22965	1,128182137	0,03515	C17orf56	chromosome 17 open reading frame 56
0,823020345	0,06497	0,743291492	0,00008	C17orf58	chromosome 17 open reading frame 58
1,173648178	0,21854	1,171210181	0,01373	C17orf61	chromosome 17 open reading frame 61
1,086734863	0,5711	1,20163605	0,04996	C17orf63	chromosome 17 open reading frame 63
1,143930973	0,23313	1,192508872	0,00076	C17orf65	chromosome 17 open reading frame 65
0,87539133	0,2753	0,716977624	0,0001	C17orf69	chromosome 17 open reading frame 69
0,793883931	0,05033	0,774855931	0,00164	C17orf75	chromosome 17 open reading frame 75
0,995159722	0,97741	1,113421618	0,03421	C17orf81	chromosome 17 open reading frame 81
0,852044095	0,3023	0,821310701	0,01411	C17orf85	chromosome 17 open reading frame 85
1,066585781	0,61379	1,28877463	0,00836	C18orf1	chromosome 18 open reading frame 1
0,559418551	0,07146	0,811127156	0,02935	C18orf10	chromosome 18 open reading frame 10
0,991716731	0,89354	0,90000193	0,04821	C18orf10	chromosome 18 open reading frame 10
1,121166078	0,20054	1,155085785	0,02064	C18orf12	chromosome 18 open reading frame 12

0,853817714	0,30481	0,820172911	0,00487	C18orf19	chromosome 18 open reading frame 19
0,828744904	0,33016	0,724973416	0,00037	C18orf19	chromosome 18 open reading frame 19
0,997231251	0,97684	0,809442217	0,00241	C18orf19	chromosome 18 open reading frame 19
0,929160674	0,3538	0,905006463	0,03307	C18orf21	chromosome 18 open reading frame 21
0,750539549	0,26872	0,752623374	0,02266	C18orf25	chromosome 18 open reading frame 25
1,124278924	0,39797	1,140763716	0,0303	C18orf54	chromosome 18 open reading frame 54
0,853226098	0,2982	0,77271055	0,00003	C18orf55	chromosome 18 open reading frame 55
0,783497187	0,07736	0,671286251	0,00003	C18orf55	chromosome 18 open reading frame 55
1,423063461	0,4079	1,513616793	0,00002	C19orf10	chromosome 19 open reading frame 10
0,967947027	0,83784	0,808881348	0,00462	C19orf12	chromosome 19 open reading frame 12
1,054822317	0,78887	0,87417862	0,04717	C19orf2	chromosome 19 open reading frame 2
0,595015848	0,07251	0,641268301	0,00057	C19orf2	chromosome 19 open reading frame 2
0,635956503	0,06342	0,790041312	0,00141	C19orf2	chromosome 19 open reading frame 2
0,87175824	0,66511	0,693515485	0,00006	C19orf2	chromosome 19 open reading frame 2
1,147902414	0,21957	1,370782805	0,00001	C19orf21	chromosome 19 open reading frame 21
0,974004269	0,81926	1,22858698	0,00432	C19orf25	chromosome 19 open reading frame 25
1,076986376	0,38695	1,142346247	0,0341	C19orf26	chromosome 19 open reading frame 26
1,193335743	0,1711	1,226884977	0,00305	C19orf29	chromosome 19 open reading frame 29
1,066585781	0,4777	1,16634937	0,00598	C19orf34	chromosome 19 open reading frame 34
0,78024548	0,16572	0,752623374	0,00102	C19orf43	chromosome 19 open reading frame 43
0,955282936	0,65056	1,105730653	0,02783	C19orf44	chromosome 19 open reading frame 44
1,038139271	0,70743	1,141554707	0,01342	C19orf45	chromosome 19 open reading frame 45
1,030968319	0,78031	1,21335356	0,00135	C19orf45	chromosome 19 open reading frame 45
1,131314463	0,27795	1,141554707	0,0362	C19orf46	chromosome 19 open reading frame 46
1,025267238	0,79896	1,16634937	0,03271	C19orf50	chromosome 19 open reading frame 50
1,119612889	0,20877	1,231998073	0,00109	C19orf51	chromosome 19 open reading frame 51
0,837406488	0,4203	1,121943481	0,03949	C19orf53	chromosome 19 open reading frame 53
0,79940583	0,07977	0,877213549	0,03184	C19orf55	chromosome 19 open reading frame 55
1,080725402	0,6597	1,188383105	0,04209	C19orf60	chromosome 19 open reading frame 60
1,095052471	0,56903	1,332374825	0,00256	C19orf60	chromosome 19 open reading frame 60
0,977385766	0,8918	1,187559666	0,0376	C19orf63	chromosome 19 open reading frame 63
1,20664392	0,16252	1,129747215	0,02897	C19orf66	chromosome 19 open reading frame 66
0,958599438	0,8218	0,722465199	0,00258	C1D	C1D nuclear receptor corepressor
1,002081605	0,98851	0,870550563	0,02385	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
0,773782497	0,266	0,641268301	0,00096	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1
1,111879158	0,42891	0,923382311	0,02793	C1orf101	chromosome 1 open reading frame 101
0,945402117	0,76031	0,775930854	0,0028	C1orf109	chromosome 1 open reading frame 109
0,976031761	0,76153	0,910669834	0,03504	C1orf110	chromosome 1 open reading frame 110
0,976708529	0,82954	1,150291893	0,00417	C1orf112	chromosome 1 open reading frame 112
1,018891197	0,88652	1,101141598	0,03446	C1orf123	chromosome 1 open reading frame 123
0,928516852	0,64476	0,803293997	0,01157	C1orf124	chromosome 1 open reading frame 124
0,996540263	0,97278	1,163926534	0,01314	C1orf127	chromosome 1 open reading frame 127
1,041021598	0,66979	1,109569472	0,01537	C1orf144	chromosome 1 open reading frame 144
1,059952783	0,52722	1,174461971	0,00311	C1orf158	chromosome 1 open reading frame 158
1,029540083	0,76511	1,264003098	0,00244	C1orf159	chromosome 1 open reading frame 159
0,814507563	0,0568	0,849684999	0,01421	C1orf174	chromosome 1 open reading frame 174
1,170398641	0,17511	1,350974085	0,00005	C1orf182	chromosome 1 open reading frame 182
1,121943481	0,26742	1,17772279	0,00122	C1orf183	chromosome 1 open reading frame 183
1,046810282	0,76162	1,132098902	0,01792	C1orf183	chromosome 1 open reading frame 183
1,194163187	0,09227	1,17772279	0,02721	C1orf186	chromosome 1 open reading frame 186
1,144724161	0,08328	1,226884977	0,01079	C1orf187	chromosome 1 open reading frame 187
1,218410264	0,10194	1,215036792	0,00149	C1orf190	chromosome 1 open reading frame 190
1,139183377	0,23335	1,172022284	0,00385	C1orf194	chromosome 1 open reading frame 194
0,768970416	0,12494	0,87539133	0,02714	C1orf198	chromosome 1 open reading frame 198
1,051901779	0,62111	1,147107024	0,00965	C1orf200	chromosome 1 open reading frame 200
0,877821798	0,3342	0,883315051	0,01169	C1orf201	chromosome 1 open reading frame 201
0,891310496	0,21371	0,870550563	0,03836	C1orf201	chromosome 1 open reading frame 201
0,747424624	0,08834	0,726986259	0,00005	C1orf21	chromosome 1 open reading frame 21
0,8362464	0,07213	0,857376037	0,00412	C1orf220	chromosome 1 open reading frame 220
1,0181852	0,86383	1,226884977	0,00127	C1orf222	chromosome 1 open reading frame 222
0,997922719	0,98002	1,088997015	0,02034	C1orf227	chromosome 1 open reading frame 227
1,004167543	0,97723	1,163926534	0,01056	C1orf228	chromosome 1 open reading frame 228
1,011853201	0,9036	1,130530567	0,01476	C1orf228	chromosome 1 open reading frame 228
0,918276162	0,43399	0,837406488	0,00401	C1orf27	chromosome 1 open reading frame 27
0,797192477	0,11825	0,918276162	0,04996	C1orf43	chromosome 1 open reading frame 43
0,873572896	0,39279	0,790041312	0,00172	C1orf52	chromosome 1 open reading frame 52
1,151887642	0,51236	0,759962428	0,00722	C1orf53	chromosome 1 open reading frame 53
1,060687741	0,74006	0,812815602	0,04508	C1orf55	chromosome 1 open reading frame 55
0,859160755	0,4673	0,717972255	0,00329	C1orf56	chromosome 1 open reading frame 56
1,022428531	0,81058	1,102669163	0,04143	C1orf56	chromosome 1 open reading frame 56
1,085981856	0,34586	1,134455485	0,02487	C1orf61	chromosome 1 open reading frame 61
1,073260286	0,45973	1,215036792	0,00022	C1orf61	chromosome 1 open reading frame 61
0,789493887	0,60743	0,846745312	0,04918	C1orf63	chromosome 1 open reading frame 63
1,003471749	0,98205	1,167967395	0,01551	C1orf85	chromosome 1 open reading frame 85
1,012554807	0,94386	1,219255094	0,00279	C1orf85	chromosome 1 open reading frame 85
1,180174343	0,14299	1,121166078	0,02758	C1orf86	chromosome 1 open reading frame 86
1,048262476	0,64633	1,100378609	0,04305	C1orf86	chromosome 1 open reading frame 86
0,996540263	0,98535	0,819036698	0,03441	C1orf9	chromosome 1 open reading frame 9
1,178539408	0,09036	1,165541198	0,03538	C1orf95	chromosome 1 open reading frame 95
1,193335743	0,06529	1,121166078	0,01752	C1orf96	chromosome 1 open reading frame 96
1,011152081	0,95493	0,832775771	0,02388	C1orf96	chromosome 1 open reading frame 96
1,698192493	0,05184	1,882956929	0	C1QA	complement component 1, q subcomponent, A chain
1,35754498	0,26254	1,730273381	0,00001	C1QB	complement component 1, q subcomponent, B chain
0,726482525	0,09146	0,751059963	0,00619	C1QBP	complement component 1, q subcomponent binding protein
1,2397077	0,10771	1,278099363	0,00118	C1QL1	complement component 1, q subcomponent-like 1
1,061423209	0,6358	1,141554707	0,02586	C1QTNF1	C1q and tumor necrosis factor related protein 1
1,162314108	0,28709	1,400556321	0,00261	C1QTNF6	C1q and tumor necrosis factor related protein 6
1,054091423	0,88305	1,427014506	0,0006	C1R	complement component 1, r subcomponent
1,106497353	0,56551	1,134455485	0,02832	C1RL	complement component 1, r subcomponent-like
1,116512962	0,16181	1,176906737	0,00473	C1RL	complement component 1, r subcomponent-like
1,194163187	0,36835	1,504203751	0,00069	C1S	complement component 1, s subcomponent
1,276328769	0,13522	1,379360922	0,00012	C2	complement component 2
0,930449658	0,59561	0,894404902	0,02992	C20orf152	chromosome 20 open reading frame 152
1,182631	0,09833	1,138394029	0,04014	C20orf160	chromosome 20 open reading frame 160
1,125058485	0,21361	1,185914499	0,00622	C20orf166-AS	C20orf166 antisense RNA 1 (non-protein coding)
0,922742493	0,67064	0,864537231	0,03007	C20orf177	chromosome 20 open reading frame 177
1,090507733	0,34071	1,32408891	0,00129	C20orf181	chromosome 20 open reading frame 181
1,117287138	0,35722	1,124278924	0,008	C20orf187	chromosome 20 open reading frame 187
1,072516617	0,38572	1,173648178	0,00048	C20orf201	chromosome 20 open reading frame 201
1,092777739	0,39397	1,240567298	0,00037	C20orf202	chromosome 20 open reading frame 202
1,10343374	0,29267	1,262252032	0,00037	C20orf203	chromosome 20 open reading frame 203
1,07549439	0,40481	0,865136691	0,0255	C20orf24	chromosome 20 open reading frame 24
0,804966138	0,16818	0,886996305	0,04023	C20orf29	chromosome 20 open reading frame 29
1,149494848	0,22553	1,129747215	0,01934	C20orf3	chromosome 20 open reading frame 3

1,108800644	0,42033	1,189207115	0,01919	C20orf3	chromosome 20 open reading frame 3
1,130530567	0,16567	1,216722359	0,01568	C20orf46	chromosome 20 open reading frame 46
1,190856849	0,07348	1,385109468	0,00001	C20orf54	chromosome 20 open reading frame 54
1	0,99714	1,143138335	0,0337	C20orf62	chromosome 20 open reading frame 62
1,098854218	0,36127	1,214194884	0,0007	C20orf62	chromosome 20 open reading frame 62
1,021720083	0,80377	1,162314108	0,02697	C20orf96	chromosome 20 open reading frame 96
1,090507733	0,3908	1,172834949	0,00376	C21orf104	chromosome 21 open reading frame 104
1,038139271	0,56587	1,120389214	0,04959	C21orf104	chromosome 21 open reading frame 104
1,118061851	0,40707	1,224336392	0,03247	C21orf2	chromosome 21 open reading frame 2
1,074004472	0,59182	1,139973273	0,01564	C21orf49	chromosome 21 open reading frame 49
0,999307093	0,99713	1,217566019	0,03426	C21orf56	chromosome 21 open reading frame 56
1,093535457	0,52187	1,279872414	0,00849	C21orf58	chromosome 21 open reading frame 58
0,837406488	0,28633	0,871154192	0,0396	C21orf59	chromosome 21 open reading frame 59
1,094293701	0,29816	1,155085785	0,01397	C21orf62	chromosome 21 open reading frame 62
0,974004269	0,71601	1,113421618	0,03516	C21orf67	chromosome 21 open reading frame 67
1,156688184	0,18353	1,151887642	0,0334	C21orf67	chromosome 21 open reading frame 67
1,059952783	0,52101	1,073260286	0,04475	C21orf88	chromosome 21 open reading frame 88
0,943438251	0,59168	1,112650121	0,02125	C21orf88	chromosome 21 open reading frame 88
0,596254436	0,05001	0,733058379	0,00073	C21orf91	chromosome 21 open reading frame 91
1,07549439	0,47797	1,165541198	0,00687	C22orf24	chromosome 22 open reading frame 24
1,208317843	0,09323	1,133669413	0,03768	C22orf34	chromosome 22 open reading frame 34
1,004167543	0,96044	0,848507902	0,00325	C22orf39	chromosome 22 open reading frame 39
0,930449658	0,66537	1,189207115	0,00498	C2CD2	C2 calcium-dependent domain containing 2
0,940174203	0,5055	1,131314463	0,02791	C2CD3	C2 calcium-dependent domain containing 3
0,928516852	0,35871	1,128964405	0,02642	C2orf16	chromosome 2 open reading frame 16
1,055553718	0,59482	1,227735684	0,00633	C2orf18	chromosome 2 open reading frame 18
1,136029265	0,12747	1,229438867	0,00287	C2orf27A	chromosome 2 open reading frame 27A
1,32317144	0,09651	1,147107024	0,00934	C2orf28	chromosome 2 open reading frame 28
1,011853201	0,93713	0,853226098	0,01111	C2orf3	chromosome 2 open reading frame 3
0,777546036	0,05333	0,765248385	0,00014	C2orf3	chromosome 2 open reading frame 3
1,051901779	0,68863	1,167158102	0,00651	C2orf44	chromosome 2 open reading frame 44
0,819036698	0,06187	0,763658749	0,00017	C2orf47	chromosome 2 open reading frame 47
0,835087919	0,30848	0,77916458	0,00211	C2orf49	chromosome 2 open reading frame 49
1,012554807	0,88377	0,884540435	0,02658	C2orf53	chromosome 2 open reading frame 53
0,898755127	0,36828	0,87417862	0,0163	C2orf56	chromosome 2 open reading frame 56
1,098854218	0,49076	1,260503392	0,00081	C2orf61	chromosome 2 open reading frame 61
1,108800644	0,22969	1,137605228	0,023	C2orf65	chromosome 2 open reading frame 65
0,821310701	0,30079	0,733566672	0,02197	C2orf67	chromosome 2 open reading frame 67
0,797192477	0,10086	0,745355193	0,00669	C2orf68	chromosome 2 open reading frame 68
0,69640574	0,09636	0,660211421	0,00003	C2orf69	chromosome 2 open reading frame 69
0,73153561	0,1376	0,685866644	0,00011	C2orf69	chromosome 2 open reading frame 69
1,04608494	0,56768	1,155085785	0,00246	C2orf70	chromosome 2 open reading frame 70
1,20664392	0,10444	1,262252032	0,00167	C2orf72	chromosome 2 open reading frame 72
0,784040454	0,2559	0,692074858	0,00007	C2orf76	chromosome 2 open reading frame 76
1,181811547	0,10822	1,316766922	0,00018	C2orf81	chromosome 2 open reading frame 81
1,278099363	0,0549	1,144724161	0,03097	C3orf18	chromosome 3 open reading frame 18
1,340712592	0,05073	1,267512522	0,02695	C3orf20	chromosome 3 open reading frame 20
1,015366101	0,91201	0,846745312	0,0068	C3orf23	chromosome 3 open reading frame 23
0,674551267	0,09037	0,716480825	0,00515	C3orf23	chromosome 3 open reading frame 23
1,120389214	0,30508	1,173648178	0,00341	C3orf24	chromosome 3 open reading frame 24
0,717972255	0,07475	0,714992493	0,00007	C3orf26	chromosome 3 open reading frame 26
1,157490217	0,08207	1,190031696	0,01204	C3orf32	chromosome 3 open reading frame 32
1,014662547	0,88115	1,155085785	0,01423	C3orf35	chromosome 3 open reading frame 35
1,113421618	0,22376	1,125058485	0,04517	C3orf36	chromosome 3 open reading frame 36
0,907519155	0,25677	0,877821798	0,00635	C3orf38	chromosome 3 open reading frame 38
1,015366101	0,94679	0,77916458	0,03726	C3orf38	chromosome 3 open reading frame 38
0,806082831	0,0548	0,752101876	0,01817	C3orf51	chromosome 3 open reading frame 51
0,993092495	0,97274	0,732550437	0,00252	C3orf52	chromosome 3 open reading frame 52
1,095052471	0,29583	1,167967395	0,00055	C3orf56	chromosome 3 open reading frame 56
0,76154437	0,194	0,741747467	0,00075	C3orf58	chromosome 3 open reading frame 58
0,771640088	0,15805	0,832775771	0,01356	C3orf63	chromosome 3 open reading frame 63
1,063632673	0,56734	0,918912883	0,01443	C3orf66	chromosome 3 open reading frame 66
0,855595026	0,49776	0,670821112	0,00007	C3orf67	chromosome 3 open reading frame 67
1,120389214	0,2336	1,172834949	0,01383	C3orf75	chromosome 3 open reading frame 75
0,988285652	0,90785	1,110338834	0,03947	C3orf75	chromosome 3 open reading frame 75
0,783497187	0,11782	0,791685866	0,0025	C3orf78	chromosome 3 open reading frame 78
0,979420298	0,81632	1,140763716	0,02551	C4BPA	complement component 4 binding protein, alpha
0,906890329	0,48649	0,843815796	0,03966	C4orf10	chromosome 4 open reading frame 10
1,006257823	0,95797	1,120389214	0,02417	C4orf10	chromosome 4 open reading frame 10
0,735603373	0,08746	0,892546971	0,04258	C4orf14	chromosome 4 open reading frame 14
1,159899655	0,16111	1,136029265	0,0277	C4orf17	chromosome 4 open reading frame 17
0,902500727	0,26434	0,744322628	0,03395	C4orf19	chromosome 4 open reading frame 19
0,928516852	0,46588	0,767905135	0,00599	C4orf19	chromosome 4 open reading frame 19
1,02313747	0,78567	0,909408252	0,04311	C4orf27	chromosome 4 open reading frame 27
0,76630998	0,06639	0,7944344	0,00033	C4orf27	chromosome 4 open reading frame 27
0,757333158	0,1939	0,745872013	0,00014	C4orf3	chromosome 4 open reading frame 3
0,643940815	0,09137	0,708087719	0,00137	C4orf3	chromosome 4 open reading frame 3
0,927873476	0,69759	0,687294348	0,00144	C4orf32	chromosome 4 open reading frame 32
1,008352455	0,92914	0,812815602	0,0003	C4orf32	chromosome 4 open reading frame 32
0,772175133	0,10226	0,799960128	0,0182	C4orf33	chromosome 4 open reading frame 33
0,695923196	0,05997	0,740719899	0,00948	C4orf41	chromosome 4 open reading frame 41
0,973329374	0,88837	0,793333843	0,0044	C4orf43	chromosome 4 open reading frame 43
1,16634937	0,50195	0,833353207	0,04685	C4orf46	chromosome 4 open reading frame 46
1,471206746	0,12112	1,35754498	0,00078	C4orf7	chromosome 4 open reading frame 7
1,039579435	0,69594	1,219255094	0,00521	C5orf20	chromosome 5 open reading frame 20
0,972654947	0,889	0,846158597	0,04231	C5orf22	chromosome 5 open reading frame 22
0,840896415	0,56325	0,716977624	0,00925	C5orf24	chromosome 5 open reading frame 24
0,964598185	0,85126	0,708087719	0,00491	C5orf28	chromosome 5 open reading frame 28
0,868742185	0,68939	0,61985385	0,00056	C5orf28	chromosome 5 open reading frame 28
0,781869643	0,13675	0,750539549	0,00052	C5orf30	chromosome 5 open reading frame 30
0,868140228	0,52104	0,626332219	0,00034	C5orf35	chromosome 5 open reading frame 35
0,813943185	0,1029	0,717972255	0,00033	C5orf43	chromosome 5 open reading frame 43
0,81056512	0,39055	0,676424116	0,00522	C5orf44	chromosome 5 open reading frame 44
1,082975046	0,77242	0,79774524	0,00648	C5orf44	chromosome 5 open reading frame 44
0,936272247	0,5968	1,205807828	0,00055	C5orf45	chromosome 5 open reading frame 45
0,833931044	0,37481	0,802737389	0,01211	C5orf51	chromosome 5 open reading frame 51
0,788400174	0,22253	0,867538687	0,02568	C5orf53	chromosome 5 open reading frame 53
1,085229372	0,20786	1,134455485	0,00661	C6orf10	chromosome 6 open reading frame 10
1,098092814	0,34373	1,147107024	0,01797	C6orf105	chromosome 6 open reading frame 105
1,125838586	0,2441	1,285206337	0,00551	C6orf108	chromosome 6 open reading frame 108
1,032398535	0,70858	1,132883885	0,0018	C6orf112	chromosome 6 open reading frame 112
0,919550046	0,6745	0,831045862	0,03819	C6orf120	chromosome 6 open reading frame 120
0,744838732	0,06757	0,693034943	0,00122	C6orf120	chromosome 6 open reading frame 120
1,044635763	0,56981	1,170398641	0,02116	C6orf123	chromosome 6 open reading frame 123

1,010451446	0,88982	1,109569472	0,03675	C6orf125	chromosome 6 open reading frame 125
0,887611337	0,24373	0,809442217	0,02747	C6orf130	chromosome 6 open reading frame 130
0,750539549	0,41232	0,681601304	0,00031	C6orf132	chromosome 6 open reading frame 132
0,917639882	0,50412	1,138394029	0,03081	C6orf145	chromosome 6 open reading frame 145
0,85027416	0,10085	0,885153765	0,00447	C6orf163	chromosome 6 open reading frame 163
0,866937564	0,15617	0,827023368	0,00694	C6orf168	chromosome 6 open reading frame 168
1,065846736	0,79871	0,724471077	0,00476	C6orf170	chromosome 6 open reading frame 170
1,130530567	0,26686	1,247465572	0,00043	C6orf174	chromosome 6 open reading frame 174
0,876605721	0,4425	0,892546971	0,04621	C6orf192	chromosome 6 open reading frame 192
1,050444544	0,47188	1,196648963	0,01297	C6orf221	chromosome 6 open reading frame 221
1,074004472	0,47397	1,220946513	0,00064	C6orf223	chromosome 6 open reading frame 223
1,167967395	0,29178	1,22603486	0,00364	C6orf225	chromosome 6 open reading frame 225
1,00486382	0,97048	0,823591017	0,02105	C6orf35	chromosome 6 open reading frame 35
0,939522749	0,67436	1,138394029	0,0347	C6orf48	chromosome 6 open reading frame 48
1,049716684	0,55417	1,098854218	0,04634	C6orf52	chromosome 6 open reading frame 52
1,113421618	0,55766	0,838568184	0,03807	C6orf57	chromosome 6 open reading frame 57
1,014662547	0,85116	1,133669413	0,02468	C6orf58	chromosome 6 open reading frame 58
0,969289817	0,87835	0,883315051	0,04222	C6orf62	chromosome 6 open reading frame 62
0,753667455	0,16206	0,782954296	0,00109	C6orf72	chromosome 6 open reading frame 72
0,840313752	0,2203	0,748980467	0,00019	C6orf89	chromosome 6 open reading frame 89
0,971307496	0,83719	1,133669413	0,01768	C6orf89	chromosome 6 open reading frame 89
0,893785162	0,32773	0,793333843	0,00043	C7orf11	chromosome 7 open reading frame 11
1,184271612	0,10776	1,131314463	0,03557	C7orf26	chromosome 7 open reading frame 26
0,773246337	0,23177	0,829319546	0,03025	C7orf28B	chromosome 7 open reading frame 28B
0,852634892	0,16307	0,770037174	0,00003	C7orf30	chromosome 7 open reading frame 30
0,814507563	0,06327	0,824733549	0,00139	C7orf30	chromosome 7 open reading frame 30
0,773246337	0,10173	0,71449707	0,0008	C7orf36	chromosome 7 open reading frame 36
1,153485605	0,21622	1,114966219	0,03306	C7orf44	chromosome 7 open reading frame 44
0,988970916	0,89623	1,106497353	0,01919	C7orf49	chromosome 7 open reading frame 49
1,046810282	0,61432	1,163120042	0,02544	C7orf52	chromosome 7 open reading frame 52
0,84264683	0,21263	0,891310496	0,03226	C7orf55	chromosome 7 open reading frame 55
0,746389192	0,25824	0,671751713	0,00109	C7orf57	chromosome 7 open reading frame 57
0,908148418	0,66536	0,821310701	0,0237	C7orf60	chromosome 7 open reading frame 60
0,808320869	0,23576	0,848507902	0,04916	C7orf64	chromosome 7 open reading frame 64
0,790041312	0,12806	0,825877665	0,00142	C7orf70	chromosome 7 open reading frame 70
0,87417862	0,35675	0,676424116	0,00044	C7orf73	chromosome 7 open reading frame 73
0,735093668	0,10631	0,735603373	0,00006	C7orf73	chromosome 7 open reading frame 73
1,705269784	0,05362	1,304050735	0,04495	C7orf74	chromosome 7 open reading frame 74
1,068065408	0,46497	1,109569472	0,03343	C7orf74	chromosome 7 open reading frame 74
1,198309021	0,05772	1,129747215	0,01232	C8orf22	chromosome 8 open reading frame 22
1,073260286	0,25891	1,219255094	0,01035	C8orf31	chromosome 8 open reading frame 31
0,991716731	0,9405	0,85797053	0,01289	C8orf33	chromosome 8 open reading frame 33
0,890692901	0,26569	0,865136691	0,03635	C8orf37	chromosome 8 open reading frame 37
0,883315051	0,43384	0,687294348	0,00213	C8orf38	chromosome 8 open reading frame 38
0,994470169	0,96728	1,101905116	0,04845	C8orf39	chromosome 8 open reading frame 39
1,016070143	0,87228	1,148698355	0,02597	C8orf42	chromosome 8 open reading frame 42
0,975355462	0,76295	0,8962667	0,02098	C8orf47	chromosome 8 open reading frame 47
1,180992661	0,20511	1,167158102	0,02239	C8orf51	chromosome 8 open reading frame 51
0,959264119	0,74958	0,775393206	0,00262	C8orf59	chromosome 8 open reading frame 59
0,85027416	0,09381	0,758909626	0,00069	C8orf59	chromosome 8 open reading frame 59
0,84323111	0,07232	0,815637493	0,0001	C8orf59	chromosome 8 open reading frame 59
1,38991822	0,05896	1,31494276	0,00008	C8orf60	chromosome 8 open reading frame 60
1,070288698	0,39788	1,188383105	0,01258	C8orf83	chromosome 8 open reading frame 83
0,77271055	0,19706	0,824162085	0,01819	C8orf83	chromosome 8 open reading frame 83
1,073260286	0,35197	1,113421618	0,0387	C9orf100	chromosome 9 open reading frame 100
0,837987135	0,07081	0,720464874	0,00131	C9orf102	chromosome 9 open reading frame 102
0,976708529	0,7561	1,095811766	0,03985	C9orf11	chromosome 9 open reading frame 11
1,175276328	0,07797	1,170398641	0,00333	C9orf116	chromosome 9 open reading frame 116
1,275444392	0,08344	1,22858698	0,00152	C9orf117	chromosome 9 open reading frame 117
1,036701101	0,75154	1,148698355	0,01856	C9orf117	chromosome 9 open reading frame 117
1,155085785	0,29047	1,172834949	0,01392	C9orf117	chromosome 9 open reading frame 117
1,058484395	0,5241	0,905633983	0,04923	C9orf135	chromosome 9 open reading frame 135
0,972654947	0,82153	0,867538687	0,00843	C9orf156	chromosome 9 open reading frame 156
0,860352631	0,117	0,832198735	0,00137	C9orf156	chromosome 9 open reading frame 156
1,163120042	0,1456	1,190856849	0,01605	C9orf167	chromosome 9 open reading frame 167
0,912565489	0,37313	0,880259014	0,04681	C9orf30	chromosome 9 open reading frame 30
0,915099168	0,53668	0,852044095	0,01519	C9orf30	chromosome 9 open reading frame 30
1,037419937	0,71462	1,113421618	0,03289	C9orf31	chromosome 9 open reading frame 31
0,982820599	0,90051	1,281647924	0,00128	C9orf37	chromosome 9 open reading frame 37
0,797192477	0,30759	0,747424624	0,00021	C9orf41	chromosome 9 open reading frame 41
0,780786493	0,05777	0,772175133	0,00005	C9orf46	chromosome 9 open reading frame 46
0,882702996	0,47575	0,898755127	0,03209	C9orf5	chromosome 9 open reading frame 5
1,04608494	0,66417	1,178539408	0,00105	C9orf53	chromosome 9 open reading frame 53
1,180992661	0,09673	1,203303026	0,02007	C9orf7	chromosome 9 open reading frame 7
1,071030823	0,4459	1,20664392	0,00108	C9orf7	chromosome 9 open reading frame 7
1,031683179	0,6708	1,124278924	0,04469	C9orf71	chromosome 9 open reading frame 71
0,911933166	0,68064	0,796088099	0,04209	C9orf72	chromosome 9 open reading frame 72
0,737645729	0,15253	0,76950361	0,00016	C9orf78	chromosome 9 open reading frame 78
0,832775771	0,23723	0,820741609	0,01367	C9orf80	chromosome 9 open reading frame 80
0,963261894	0,83252	0,827596816	0,00738	C9orf82	chromosome 9 open reading frame 82
0,918912883	0,70764	0,757858283	0,00132	C9orf82	chromosome 9 open reading frame 82
0,898755127	0,27599	0,879039561	0,02261	C9orf85	chromosome 9 open reading frame 85
0,930449658	0,41352	1,184271612	0,02523	C9orf86	chromosome 9 open reading frame 86
1,110338834	0,29414	1,16634937	0,04451	C9orf96	chromosome 9 open reading frame 96
1,071773463	0,42842	1,110338834	0,03501	C9orf96	chromosome 9 open reading frame 96
1,073260286	0,49515	1,139183377	0,0166	CA1	carbonic anhydrase I
0,646176415	0,13007	0,632878297	0,00015	CA13	carbonic anhydrase XIII
1,078480432	0,4569	1,17772279	0,04253	CA14	carbonic anhydrase XIV
1,125058485	0,20233	1,223488041	0,01646	CA5A	carbonic anhydrase VA, mitochondrial
1,069547088	0,33701	1,189207115	0,00566	CA5B	carbonic anhydrase VB, mitochondrial
1,181811547	0,05824	1,121943481	0,02208	CA6	carbonic anhydrase VI
1,064370182	0,53902	1,132098902	0,03712	CA7	carbonic anhydrase VII
1,082224645	0,2659	1,147902414	0,01759	CA8	carbonic anhydrase VIII
0,944747041	0,65718	0,895025071	0,04089	CAB39L	calcium binding protein 39-like
0,793883931	0,29269	0,688725023	0,02643	CAB39L	calcium binding protein 39-like
1,301341855	0,05438	1,263127262	0,0002	CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit
1,161508732	0,21321	1,21335356	0,00566	CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit
1,193335743	0,06217	1,114966219	0,00766	CACNA1D	calcium channel, voltage-dependent, L type, alpha 1D subunit
0,920825697	0,34935	0,891928519	0,01087	CACNA1D	calcium channel, voltage-dependent, L type, alpha 1D subunit
1,154285418	0,29781	1,219255094	0,00055	CACNA1H	calcium channel, voltage-dependent, T type, alpha 1H subunit
0,938871747	0,69616	1,148698355	0,0302	CACNA1I	calcium channel, voltage-dependent, T type, alpha 1I subunit
1,038859103	0,58982	1,122721422	0,01787	CACNA2D1	calcium channel, voltage-dependent, alpha 2/delta subunit 1
0,880259014	0,66046	0,807760778	0,03305	CACNA2D1	calcium channel, voltage-dependent, alpha 2/delta subunit 1
0,998614666	0,98982	0,802737389	0,01009	CACNB4	calcium channel, voltage-dependent, beta 4 subunit

1,082224645	0,29182	1,168777249	0,02187	CACNG1	calcium channel, voltage-dependent, gamma subunit 1
1,198309021	0,14702	1,305859787	0,00009	CACNG4	calcium channel, voltage-dependent, gamma subunit 4
1,244874235	0,07852	1,310393404	0,00057	CACNG6	calcium channel, voltage-dependent, gamma subunit 6
0,991029563	0,94034	1,185092771	0,01397	CACNG8	calcium channel, voltage-dependent, gamma subunit 8
0,887611337	0,19497	0,825305409	0,0005	CACYBP	calcyclin binding protein
0,883927531	0,50164	0,774855931	0,00013	CACYBP	calcyclin binding protein
1,043188594	0,56196	1,116512962	0,01774	CADM1	cell adhesion molecule 1
1,331451613	0,2604	1,559409685	0,00845	CADM1	cell adhesion molecule 1
1,214194884	0,07329	1,156688184	0,0296	CADM1	cell adhesion molecule 1
1,145517898	0,19573	1,227735684	0,00464	CALCA	calcitonin-related polypeptide alpha
1,132883885	0,21164	1,153485605	0,01449	CALCOCO2	calcium binding and coiled-coil domain 2
0,999307093	0,9972	0,901250463	0,02372	CALCOCO2	calcium binding and coiled-coil domain 2
1,076986376	0,38615	1,143930973	0,0163	CALCOCO2	calcium binding and coiled-coil domain 2
0,986232704	0,87761	1,118061851	0,01427	CALCR	calcitonin receptor
0,582770599	0,07049	0,662503509	0,00423	CALM1	calmodulin 1 (phosphorylase kinase, delta)
1,0132569	0,90571	0,883315051	0,00459	CALML4	calmodulin-like 4
0,852044095	0,14845	0,848507902	0,02571	CALML4	calmodulin-like 4
1,050444544	0,61756	0,803850991	0,00267	CALML4	calmodulin-like 4
1,10343374	0,32013	1,200803427	0,01729	CALN1	calneuron 1
1,240567298	0,19572	1,320422841	0,00305	CALU	calumenin
1,214194884	0,10933	1,319507911	0,0121	CALU	calumenin
1,130530567	0,32508	1,215879283	0,00728	CAMK1	calcium/calmodulin-dependent protein kinase I
1,167967395	0,13237	1,169587664	0,0447	CAMK1	calcium/calmodulin-dependent protein kinase I
1,104964485	0,30695	1,21335356	0,02245	CAMK1G	calcium/calmodulin-dependent protein kinase IG
1,080725402	0,38921	1,191682575	0,00274	CAMK1G	calcium/calmodulin-dependent protein kinase IG
1,285206337	0,07082	1,304954948	0,0011	CAMK2B	calcium/calmodulin-dependent protein kinase II beta
0,948026965	0,50654	1,122721422	0,01282	CAMK2B	calcium/calmodulin-dependent protein kinase II beta
0,76154437	0,19217	0,724471077	0,01424	CAMK2D	calcium/calmodulin-dependent protein kinase II delta
0,745355193	0,182	0,833931044	0,00455	CAMK2D	calcium/calmodulin-dependent protein kinase II delta
0,852044095	0,39858	0,76684133	0,00234	CAMK2D	calcium/calmodulin-dependent protein kinase II delta
1,012554807	0,93667	0,854409741	0,04437	CAMK2D	calcium/calmodulin-dependent protein kinase II delta
0,618566239	0,14741	0,643048742	0,00113	CAMK2D	calcium/calmodulin-dependent protein kinase II delta
0,93109482	0,73315	1,204972315	0,00921	CAMK2G	calcium/calmodulin-dependent protein kinase II gamma
0,995849753	0,97521	0,90062598	0,04527	CAMK2N1	calcium/calmodulin-dependent protein kinase II inhibitor 1
0,968618189	0,68114	1,104198847	0,02683	CAMK2N2	calcium/calmodulin-dependent protein kinase II inhibitor 2
1,009051634	0,91148	1,193335743	0,01228	CAMKV	CaM kinase-like vesicle-associated
0,833931044	0,16281	0,835666959	0,02191	CAMLG	calcium modulating ligand
0,749499801	0,10165	0,735093668	0,00054	CAMSAP1	calmodulin regulated spectrin-associated protein 1
0,796640096	0,159	0,731028724	0,00028	CAMSAP1	calmodulin regulated spectrin-associated protein 1
0,76154437	0,26155	0,763129604	0,00059	CAMSAP2	calmodulin regulated spectrin-associated protein family, member 2
0,76684133	0,08543	0,822450069	0,005	CAND1	cullin-associated and neddylation-dissociated 1
0,693034943	0,07565	0,768437591	0,00087	CAND1	cullin-associated and neddylation-dissociated 1
1,198309021	0,20943	1,208317843	0,01404	CANT1	calcium activated nucleotidase 1
0,976708529	0,91692	0,770037174	0,0075	CAP2	CAP, adenylate cyclase-associated protein, 2 (yeast)
1,060687741	0,5686	1,237132479	0,0052	CAPN12	calpain 12
1,28877463	0,06404	1,134455485	0,01709	CAPN13	calpain 13
0,745872013	0,0833	0,877213549	0,0117	CAPN2	calpain 2, (m/II) large subunit
0,762072415	0,07112	0,755759964	0,00422	CAPN2	calpain 2, (m/II) large subunit
1,032398535	0,72153	0,837406488	0,0236	CAPN6	calpain 6
0,957271458	0,47911	1,101141598	0,03174	CAPN6	calpain 6
0,734584317	0,13442	0,802737389	0,00449	CAPN7	calpain 7
1,021720083	0,78112	1,159899655	0,00081	CAPN9	calpain 9
1,0238469	0,80859	1,210833084	0,01501	CAPS	calcyphosine
0,87539133	0,45257	0,853226098	0,00097	CAPZA1	capping protein (actin filament) muscle Z-line, alpha 1
0,856781955	0,05033	0,823591017	0,02401	CAPZA2	capping protein (actin filament) muscle Z-line, alpha 2
1,275444392	0,05375	1,220946513	0,00158	CARD11	caspase recruitment domain family, member 11
0,965936329	0,65609	0,823591017	0,00375	CARD14	caspase recruitment domain family, member 14
0,853817714	0,26927	0,833353207	0,04559	CARD14	caspase recruitment domain family, member 14
1,107264584	0,61504	1,411275843	0,00405	CARD16	caspase recruitment domain family, member 16
0,816768991	0,29239	0,76154437	0,00011	CARD6	caspase recruitment domain family, member 6
1,172022284	0,16822	1,272794935	0,00115	CARHSP1	calcium regulated heat stable protein 1, 24kDa
0,811689581	0,1211	0,868742185	0,04047	CARHSP1	calcium regulated heat stable protein 1, 24kDa
0,820172911	0,15031	0,85086373	0,00322	CARKD	carbohydrate kinase domain containing
1,241427492	0,07799	1,443929196	0,00018	CARNS1	carnosine synthase 1
0,966606097	0,77665	0,865736566	0,01563	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial (putative)
1,054822317	0,36958	1,101905116	0,03053	CARTPT	CART prepropeptide
0,852634892	0,29425	0,920187651	0,03238	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family)
1,172834949	0,14705	1,377450046	0,0022	CASP10	caspase 10, apoptosis-related cysteine peptidase
1,197478705	0,05029	1,199139914	0,00589	CASP10	caspase 10, apoptosis-related cysteine peptidase
0,964598185	0,6231	1,167158102	0,01194	CASP14	caspase 14, apoptosis-related cysteine peptidase
1,199139914	0,09911	1,194163187	0,00068	CASP3	caspase 3, apoptosis-related cysteine peptidase
0,621574834	0,0582	0,770571108	0,00519	CASP6	caspase 6, apoptosis-related cysteine peptidase
1,135242102	0,15342	1,132883885	0,00587	CASQ1	calsequestrin 1 (fast-twitch, skeletal muscle)
0,986916546	0,89755	1,164733586	0,0102	CASQ2	calsequestrin 2 (cardiac muscle)
1,133669413	0,2518	1,306765254	0,00014	CASR	calcium-sensing receptor
1,183451022	0,06828	1,153485605	0,00384	CASS4	Cas scaffolding protein family member 4
1,019597683	0,8417	1,172022284	0,00228	CASS4	Cas scaffolding protein family member 4
0,744838732	0,08858	0,801625329	0,02323	CASZ1	castor zinc finger 1
1,132098902	0,28343	1,113421618	0,01389	CATSPER1	cation channel, sperm associated 1
0,978063473	0,78355	1,095052471	0,04742	CATSPER3	cation channel, sperm associated 3
0,972654947	0,74057	1,123499903	0,02409	CATSPERG	cation channel, sperm-associated, gamma
1,054091423	0,67215	1,087488391	0,04025	CATX-1	hypothetical LOC100506513
0,798851916	0,13922	0,763129604	0,00416	CAV2	caveolin 2
1,082975046	0,63147	0,833353207	0,00931	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence
1,01395948	0,88696	1,112650121	0,03274	CBL	Cas-Br-M (murine) ecotropic retroviral transforming sequence
0,995849753	0,97866	0,758383773	0,00021	CBLL1	Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1
1,355664327	0,06825	1,310393404	0,00208	CBLN2	cerebellin 2 precursor
0,821310701	0,33882	0,782411782	0,02093	CBR4	carbonyl reductase 4
0,750019495	0,17489	0,755236293	0,00365	CBR4	carbonyl reductase 4
0,842062954	0,13288	0,855595026	0,01106	CBR4	carbonyl reductase 4
1,128964405	0,24524	1,254402205	0,00727	CBS	cystathionine-beta-synthase
0,925304428	0,63724	0,813943185	0,04476	CBX3	chromobox homolog 3
0,869947353	0,47995	0,878430468	0,04724	CBX3	chromobox homolog 3
0,76154437	0,09188	0,868140228	0,02486	CBX3	chromobox homolog 3
0,985549337	0,96937	0,712518807	0,01538	CBX5	chromobox homolog 5
0,659753955	0,11726	0,701249625	0,00918	CBX5	chromobox homolog 5
1,101905116	0,23944	1,148698355	0,00817	CBX5	chromobox homolog 5
1,160703914	0,25819	1,209155676	0,02035	CBX6	chromobox homolog 6
1,17609125	0,09062	1,162314108	0,02053	CBX8	chromobox homolog 8
0,827596816	0,17905	0,898132373	0,04284	CC2D2B	coiled-coil and C2 domain containing 2B
1,217566019	0,11884	1,187559666	0,04054	CC2D2B	coiled-coil and C2 domain containing 2B
0,755236293	0,26361	0,779704843	0,00047	CCAR1	cell division cycle and apoptosis regulator 1
0,885767519	0,51109	0,855002178	0,03014	CCAR1	cell division cycle and apoptosis regulator 1
0,622437118	0,06035	0,697371833	0,00217	CCAR1	cell division cycle and apoptosis regulator 1

0,87539133	0,30837	0,788946841	0,00088	CCBL2	cysteine conjugate-beta lyase 2
0,955945318	0,67749	1,111879158	0,02589	CCBP2	chemokine binding protein 2
1,125838586	0,16541	1,163120042	0,00646	CCDC103	coiled-coil domain containing 103
0,829894586	0,26723	0,787307977	0,00001	CCDC104	coiled-coil domain containing 104
1,132883885	0,17237	1,209155676	0,00181	CCDC108	coiled-coil domain containing 108
0,905006463	0,24763	0,832775771	0,00888	CCDC109B	coiled-coil domain containing 109B
0,862143545	0,13981	0,734584317	0,00004	CCDC113	coiled-coil domain containing 113
1,029540083	0,659	1,132883885	0,02909	CCDC124	coiled-coil domain containing 124
1,093535457	0,32452	0,87539133	0,01018	CCDC125	coiled-coil domain containing 125
1,160703914	0,12773	1,107264584	0,03201	CCDC127	coiled-coil domain containing 127
1,064370182	0,56132	1,156688184	0,03667	CCDC129	coiled-coil domain containing 129
1,145517898	0,18997	1,169587664	0,00887	CCDC13	coiled-coil domain containing 13
0,997231251	0,9855	1,139183377	0,02691	CCDC13	coiled-coil domain containing 13
1,033114388	0,74851	1,132098902	0,03341	CCDC130	coiled-coil domain containing 130
0,918276162	0,46276	0,743291492	0,00017	CCDC138	coiled-coil domain containing 138
1,160703914	0,51999	1,184271612	0,03092	CCDC14	coiled-coil domain containing 14
1,087488391	0,41164	1,175276328	0,03117	CCDC144C	coiled-coil domain containing 144C
1,030253954	0,75047	1,139183377	0,02475	CCDC149	coiled-coil domain containing 149
1,149494848	0,29282	1,257884972	0,00321	CCDC149	coiled-coil domain containing 149
1,020304659	0,86594	1,202469249	0,00168	CCDC151	coiled-coil domain containing 151
1,184271612	0,14035	1,142346247	0,02423	CCDC157	coiled-coil domain containing 157
1,030968319	0,80469	1,20163605	0,01247	CCDC159	coiled-coil domain containing 159
0,963929808	0,68194	0,86934456	0,01572	CCDC169	coiled-coil domain containing 169
0,797192477	0,14766	0,802737389	0,01408	CCDC22	coiled-coil domain containing 22
1,098854218	0,45802	1,135242102	0,02615	CCDC24	coiled-coil domain containing 24
0,788946841	0,09445	0,811689581	0,00061	CCDC25	coiled-coil domain containing 25
1,042465761	0,75162	1,158292806	0,01868	CCDC33	coiled-coil domain containing 33
1,181811547	0,09602	1,162314108	0,01328	CCDC33	coiled-coil domain containing 33
0,858565436	0,43612	0,822450069	0,02622	CCDC34	coiled-coil domain containing 34
0,919550046	0,33694	0,898132373	0,0135	CCDC36	coiled-coil domain containing 36
1,051901779	0,61483	1,145517898	0,02163	CCDC36	coiled-coil domain containing 36
0,865736566	0,52233	0,661127303	0,00013	CCDC41	coiled-coil domain containing 41
0,983502074	0,88723	0,897510051	0,04205	CCDC41	coiled-coil domain containing 41
0,786762445	0,16374	0,808320869	0,00015	CCDC43	coiled-coil domain containing 43
0,967947027	0,81446	1,136029265	0,01797	CCDC48	coiled-coil domain containing 48
0,790041312	0,14374	0,720464874	0	CCDC59	coiled-coil domain containing 59
1,155886707	0,20217	1,095811766	0,01897	CCDC7	coiled-coil domain containing 7
1,046810282	0,71018	1,173648178	0,01612	CCDC70	coiled-coil domain containing 70
0,87417862	0,46317	0,852044095	0,00755	CCDC75	coiled-coil domain containing 75
0,922742493	0,78143	0,62546454	0,00054	CCDC76	coiled-coil domain containing 76
0,885767519	0,36417	0,811127156	0,00413	CCDC77	coiled-coil domain containing 77
1,358486285	0,17925	1,337927555	0,01907	CCDC80	coiled-coil domain containing 80
1,021720083	0,83467	1,214194884	0,03768	CCDC85A	coiled-coil domain containing 85A
1,097331938	0,65863	1,350037985	0,00072	CCDC85B	coiled-coil domain containing 85B
1,167967395	0,13095	1,238848698	0,00076	CCDC87	coiled-coil domain containing 87
1,185092771	0,25307	1,435944511	0,00971	CCDC88A	coiled-coil domain containing 88A
1,199139914	0,16838	1,292352831	0,00404	CCDC88B	coiled-coil domain containing 88B
0,911933166	0,42263	0,903752727	0,0309	CCDC90B	coiled-coil domain containing 90B
0,784584098	0,23559	0,773782497	0,00675	CCDC91	coiled-coil domain containing 91
0,694477568	0,05478	0,79774524	0,00025	CCDC93	coiled-coil domain containing 93
0,819604608	0,22798	0,848507902	0,00714	CCDC93	coiled-coil domain containing 93
0,880259014	0,22963	1,102669163	0,03176	CCDC97	coiled-coil domain containing 97
1,183451022	0,10649	1,180992661	0,03497	CCHCR1	coiled-coil alpha-helical rod protein 1
0,933032992	0,59872	0,891310496	0,03176	CCHCR1	coiled-coil alpha-helical rod protein 1
1,210833084	0,08827	1,135242102	0,03533	CCL13	chemokine (C-C motif) ligand 13
1,371733289	0,33658	1,64832417	0,01379	CCL19	chemokine (C-C motif) ligand 19
0,917639882	0,64559	1,364147835	0,00981	CCL21	chemokine (C-C motif) ligand 21
0,873572896	0,38372	0,844986384	0,00371	CCNA2	cyclin A2
0,726482525	0,07323	0,866336856	0,01364	CCNB1IP1	cyclin B1 interacting protein 1, E3 ubiquitin protein ligase
1,136029265	0,07362	1,111108729	0,02224	CCNB3	cyclin B3
1,073260286	0,56468	0,824162085	0,02035	CCNC	cyclin C
0,60583633	0,06626	0,806082831	0,03142	CCND1	cyclin D1
0,921464186	0,44426	1,160703914	0,04195	CCND3	cyclin D3
0,878430468	0,63173	0,640379931	0,00019	CCNE2	cyclin E2
0,846745312	0,26702	0,831045862	0,00435	CCNH	cyclin H
0,855002178	0,37091	0,7944344	0,00318	CCNJ	cyclin J
0,957935218	0,70812	0,909408252	0,02093	CCNK	cyclin K
0,820172911	0,3099	0,741233505	0,0016	CCNT2	cyclin T2
0,891928519	0,35529	0,811689581	0,00663	CCNY	cyclin Y
1,147902414	0,13184	1,139183377	0,00344	CCNYL2	cyclin Y-like 2
1,448942155	0,05413	1,231144413	0,01926	CCPG1	cell cycle progression 1
1,231998073	0,06757	1,276328769	0,0063	CCR2	chemokine (C-C motif) receptor 2
1,203303026	0,06595	1,210833084	0,00411	CCR4	chemokine (C-C motif) receptor 4
0,871154192	0,49768	0,735093668	0,00597	CCRL1	chemokine (C-C motif) receptor-like 1
0,862741345	0,34163	0,859756486	0,02788	CCRN4L	CCR4 carbon catabolite repression 4-like (S. cerevisiae)
0,599985691	0,2915	0,718470088	0,01085	CCT2	chaperonin containing TCP1, subunit 2 (beta)
0,909408252	0,51592	0,819604608	0,00256	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)
0,630251696	0,07754	0,765778999	0,00433	CD109	CD109 molecule
1,53900722	0,14881	1,845484985	0,00008	CD14	CD14 molecule
1,217566019	0,11032	1,188383105	0,01612	CD163L1	CD163 molecule-like 1
0,917004043	0,52476	0,898132373	0,01418	CD164	CD164 molecule, sialomucin
1,647182035	0,10904	1,94126894	0,00048	CD177	CD177 molecule
1,113421618	0,27065	1,147107024	0,03793	CD1B	CD1b molecule
1,172834949	0,06295	1,254402205	0,00069	CD22	CD22 molecule
1,082975046	0,37465	1,112650121	0,03974	CD226	CD226 molecule
0,771105413	0,10381	0,890692901	0,04453	CD24	CD24 molecule
1,365093718	0,08833	1,312211255	0,00114	CD248	CD248 molecule, endosialin
1,025978145	0,76525	0,87539133	0,03807	CD274	CD274 molecule
1,056285625	0,71447	1,289668251	0,00333	CD276	CD276 molecule
1,156688184	0,38225	1,218410264	0,01104	CD276	CD276 molecule
0,718470088	0,11523	0,79940583	0,00553	CD2AP	CD2-associated protein
1,279872414	0,09966	1,237990291	0,00289	CD300A	CD300a molecule
1,001387256	0,99026	1,140763716	0,01411	CD300C	CD300c molecule
1,111879158	0,21101	1,172022284	0,00228	CD300LB	CD300 molecule-like family member b
1,015366101	0,88222	1,142346247	0,04887	CD300LB	CD300 molecule-like family member b
1,036701101	0,5959	1,080725402	0,04997	CD300LG	CD300 molecule-like family member g
1,004167543	0,96825	1,297738767	0,0003	CD300LG	CD300 molecule-like family member g
1,151887642	0,28179	1,277213759	0,00009	CD320	CD320 molecule
1,361314116	0,10583	1,658639092	0,00002	CD34	CD34 molecule
1,342572503	0,08185	1,371733289	0,00001	CD40	CD40 molecule, TNF receptor superfamily member 5
1,32408891	0,08746	1,394743666	0,00006	CD40	CD40 molecule, TNF receptor superfamily member 5
0,670821112	0,09723	0,60667678	0,00002	CD44	CD44 molecule (Indian blood group)
0,579146403	0,10217	0,838568184	0,03747	CD44	CD44 molecule (Indian blood group)
0,630688704	0,1201	0,832775771	0,02102	CD44	CD44 molecule (Indian blood group)

0,595841287	0,27118	0,590905773	0,00049	CD44	CD44 molecule (Indian blood group)
1,20664392	0,17349	1,169587664	0,00616	CD44	CD44 molecule (Indian blood group)
0,879649076	0,35042	0,804408371	0,00034	CD47	CD47 molecule
0,795536484	0,25525	0,781869643	0,00371	CD47	CD47 molecule
1,132098902	0,24859	1,125058485	0,01047	CD5	CD5 molecule
1,450952208	0,15172	1,489677463	0,01621	CD52	CD52 molecule
0,724973416	0,077	0,724973416	0,00877	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
0,924022572	0,49017	0,768437591	0,00557	CD58	CD58 molecule
0,708087719	0,09348	0,746389192	0,03427	CD58	CD58 molecule
0,863938187	0,37795	0,798298386	0,00967	CD59	CD59 molecule, complement regulatory protein
1,29145735	0,05289	1,377450046	0,0002	CD6	CD6 molecule
0,922103118	0,77446	1,330529041	0	CD63	CD63 molecule
1,495885758	0,07864	1,556170353	0,00274	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain
1,17609125	0,66449	1,612165663	0,0002	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain
0,875998315	0,26355	0,872967591	0,04859	CD79B	CD79b molecule, immunoglobulin-associated beta
1,235418637	0,06545	1,219255094	0,00768	CD80	CD80 molecule
0,875998315	0,70577	1,242288282	0,00857	CD81	CD81 molecule
1,286097483	0,09837	1,329607108	0,00677	CD84	CD84 molecule
1,088997015	0,41915	1,162314108	0,00472	CD84	CD84 molecule
1,130530567	0,15565	1,271913007	0,00081	CD84	CD84 molecule
1,127400412	0,31705	1,135242102	0,0474	CD84	CD84 molecule
1,168777249	0,22187	1,20163605	0,03518	CD84	CD84 molecule
1,064370182	0,46226	1,170398641	0,0231	CD84	CD84 molecule
1,143138335	0,24699	1,176906737	0,00329	CD9	CD9 molecule
1,141554707	0,4281	1,382232207	0,00005	CD99L2	CD99 molecule-like 2
0,870550563	0,5138	0,688725023	0,00021	CD99P1	CD99 molecule pseudogene 1
1,032398535	0,82781	0,77916458	0,00328	CDADC1	cytidine and dCMP deaminase domain containing 1
1,051901779	0,57842	1,143138335	0,03013	CDC14A	CDC14 cell division cycle 14 homolog A (S. cerevisiae)
0,919550046	0,48194	1,105730653	0,01526	CDC14A	CDC14 cell division cycle 14 homolog A (S. cerevisiae)
0,915099168	0,66676	0,883315051	0,03934	CDC14B	CDC14 cell division cycle 14 homolog B (S. cerevisiae)
0,791137301	0,23597	0,648869383	0,00016	CDC14B	CDC14 cell division cycle 14 homolog B (S. cerevisiae)
1,134455485	0,23213	1,132098902	0,01477	CDC14B	CDC14 cell division cycle 14 homolog B (S. cerevisiae)
0,743806881	0,24817	0,873572896	0,02865	CDC16	cell division cycle 16 homolog (S. cerevisiae)
0,771105413	0,07395	0,870550563	0,01825	CDC16	cell division cycle 16 homolog (S. cerevisiae)
0,805524291	0,37096	0,754190038	0,00032	CDC23	cell division cycle 23 homolog (S. cerevisiae)
1,072516617	0,48304	0,819036698	0,00584	CDC25A	cell division cycle 25 homolog A (S. pombe)
1,106497353	0,33956	1,246601194	0,00115	CDC25C	cell division cycle 25 homolog C (S. pombe)
0,888842681	0,13375	0,917639882	0,04964	CDC26	cell division cycle 26 homolog (S. cerevisiae)
0,998614666	0,99402	0,890692901	0,02874	CDC27	cell division cycle 27 homolog (S. cerevisiae)
0,827023368	0,2275	0,817902059	0,03617	CDC37L1	cell division cycle 37 homolog (S. cerevisiae)-like 1
0,891928519	0,4693	0,825305409	0,02393	CDC37L1	cell division cycle 37 homolog (S. cerevisiae)-like 1
1,006257823	0,96859	0,872362706	0,02382	CDC37L1	cell division cycle 37 homolog (S. cerevisiae)-like 1
0,771105413	0,06722	0,839149637	0,00765	CDC40	cell division cycle 40 homolog (S. cerevisiae)
0,893165852	0,48706	0,753667455	0,03095	CDC40	cell division cycle 40 homolog (S. cerevisiae)
0,974679631	0,76494	0,910038824	0,04032	CDC42	cell division cycle 42 (GTP binding protein, 25kDa)
0,986232704	0,84991	0,915099168	0,04563	CDC42	cell division cycle 42 (GTP binding protein, 25kDa)
1,111879158	0,32374	1,167158102	0,01782	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)
0,620283649	0,0579	0,745872013	0,00477	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like)
1,010451446	0,89562	0,825877665	0,00528	CDC42BPB	CDC42 binding protein kinase beta (DMPK-like)
1,157490217	0,21962	1,244011653	0,01168	CDC42EP2	CDC42 effector protein (Rho GTPase binding) 2
1,293248932	0,09189	1,327765158	0,00039	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3
0,858565436	0,08603	0,800514811	0,00007	CDC42SE1	CDC42 small effector 1
0,806641759	0,18659	0,785128119	0,00003	CDC5L	CDC5 cell division cycle 5-like (S. pombe)
0,777007269	0,19838	0,778085177	0,00186	CDC7	cell division cycle 7 homolog (S. cerevisiae)
1,043911927	0,76286	0,790589117	0,00379	CDC73	cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
0,969289817	0,85664	0,837406488	0,02919	CDC73	cell division cycle 73, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
0,968618189	0,74671	1,128182137	0,01488	CDCA3	cell division cycle associated 3
0,754190038	0,192	0,732550437	0,00132	CDCA7	cell division cycle associated 7
0,919550046	0,18913	0,782411782	0,03658	CDH12	cadherin 12, type 2 (N-cadherin 2)
0,988285652	0,90737	1,107264584	0,01533	CDH15	cadherin 15, type 1, M-cadherin (myotubule)
1,108800644	0,27443	1,202469249	0,04604	CDH19	cadherin 19, type 2
1,20163605	0,05752	1,149494848	0,04312	CDH2	cadherin 2, type 1, N-cadherin (neuronal)
0,929160674	0,45713	0,915733686	0,04253	CDH20	cadherin 20, type 2
1,069547088	0,44361	1,114193651	0,03563	CDH22	cadherin 22, type 2
1,058484395	0,57553	1,114966219	0,01272	CDH23	cadherin-related 23
0,793883931	0,20764	0,627201102	0,00104	CDH26	cadherin 26
0,853817714	0,16028	0,78024548	0,00472	CDH26	cadherin 26
1,194163187	0,09249	1,126619228	0,0427	CDH4	cadherin 4, type 1, R-cadherin (retinal)
1,051172909	0,56968	0,901875378	0,04536	CDHR5	cadherin-related family member 5
0,926588062	0,72403	0,825305409	0,00256	CDK1	cyclin-dependent kinase 1
0,7944344	0,05095	0,865736566	0,03481	CDK10	cyclin-dependent kinase 10
1,011853201	0,95468	0,865736566	0,04889	CDK12	cyclin-dependent kinase 12
1,051901779	0,70886	0,878430468	0,04197	CDK12	cyclin-dependent kinase 12
0,880869374	0,45947	0,742261785	0,01459	CDK12	cyclin-dependent kinase 12
0,879649076	0,29686	0,84323111	0,01104	CDK12	cyclin-dependent kinase 12
0,85027416	0,22068	0,792784137	0,00004	CDK13	cyclin-dependent kinase 13
0,916368645	0,3582	0,884540435	0,02745	CDK13	cyclin-dependent kinase 13
0,862741345	0,42627	0,664803554	0,00115	CDK13	cyclin-dependent kinase 13
1,224336392	0,07176	1,169587664	0,00725	CDK15	cyclin-dependent kinase 15
0,995849753	0,97833	1,218410264	0,01917	CDK18	cyclin-dependent kinase 18
0,723969086	0,17342	0,835666959	0,04619	CDK19	cyclin-dependent kinase 19
0,775930854	0,30426	0,637722196	0,00015	CDK19	cyclin-dependent kinase 19
1,107264584	0,31461	1,182631	0,04051	CDK2	cyclin-dependent kinase 2
0,933679945	0,5396	0,849096246	0,00905	CDK2AP1	cyclin-dependent kinase 2 associated protein 1
1,308578071	0,1587	1,349102534	0,00902	CDK2AP2	cyclin-dependent kinase 2 associated protein 2
1,006257823	0,96914	1,149494848	0,02529	CDK5	cyclin-dependent kinase 5
0,613442489	0,12004	0,527776859	0,00001	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
0,745355193	0,08164	0,824162085	0,0075	CDK5RAP2	CDK5 regulatory subunit associated protein 2
1,028826708	0,87924	1,344434994	0,00003	CDK5RAP3	CDK5 regulatory subunit associated protein 3
0,811689581	0,10082	0,902500727	0,04738	CDK6	cyclin-dependent kinase 6
1,00556058	0,98806	0,774855931	0,00977	CDK6	cyclin-dependent kinase 6
1,035982764	0,78675	0,814507563	0,02413	CDK6	cyclin-dependent kinase 6
0,730522189	0,13844	0,720964436	0,00063	CDK8	cyclin-dependent kinase 8
0,720964436	0,15012	0,689202576	0,00029	CDK8	cyclin-dependent kinase 8
1,155886707	0,24086	1,192508872	0,00668	CDKL2	cyclin-dependent kinase-like 2 (CDC2-related kinase)
0,904379378	0,48873	1,28788163	0,00005	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
0,792784137	0,16622	1,194163187	0,04688	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
1,048262476	0,79038	0,831622098	0,04492	CDKN2AIP	CDKN2A interacting protein
0,52304247	0,05291	0,570381858	0,00031	CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
1,014662547	0,90491	1,151887642	0,0216	CDKN2D	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)
1,017479692	0,88949	1,139183377	0,01468	CDON	Cdon homolog (mouse)
0,739181216	0,35156	0,645281245	0	CDS1	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
1,41519416	0,108	1,260503392	0,03327	CDS2	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2
0,755236293	0,05632	0,848507902	0,00407	CDV3	CDV3 homolog (mouse)

0,81056512	0,51767	0,71449707	0,00794	CDV3	CDV3 homolog (mouse)
1,281647924	0,06663	1,448942155	0,00006	CDX1	caudal type homeobox 1
0,772175133	0,05878	0,773246337	0,00087	CDYL	chromodomain protein, Y-like
0,770571108	0,05594	0,849096246	0,0093	CDYL	chromodomain protein, Y-like
0,778085177	0,28606	0,724471077	0,0014	CDYL	chromodomain protein, Y-like
1,232852325	0,07873	1,22603486	0,01318	CDYL2	chromodomain protein, Y-like 2
1,544350266	0,21137	1,593280193	0,00364	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
1,366987452	0,08281	1,43097652	0,00535	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
1,509425969	0,1024	1,566994374	0,00155	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
1,063632673	0,44029	1,189207115	0,00104	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21
1,116512962	0,27273	1,21335356	0,00345	CEACAM3	carcinoembryonic antigen-related cell adhesion molecule 3
1,190856849	0,06343	1,237990291	0,00082	CEACAM3	carcinoembryonic antigen-related cell adhesion molecule 3
1,143930973	0,18223	1,196648963	0,00087	CEACAM4	carcinoembryonic antigen-related cell adhesion molecule 4
0,856781955	0,39577	0,70027816	0,00315	CEACAM5	carcinoembryonic antigen-related cell adhesion molecule 5
0,777546036	0,13804	0,817335328	0,00074	CEBPZ	CCAAT/enhancer binding protein (C/EBP), zeta
1,220946513	0,05246	1,131314463	0,01121	CECR2	cat eye syndrome chromosome region, candidate 2
0,898755127	0,21061	0,855002178	0,00204	CECR5	cat eye syndrome chromosome region, candidate 5
0,949342121	0,56278	0,85086373	0,04981	CECR9	cat eye syndrome chromosome region, candidate 9 (non-protein coding)
1,024556823	0,83936	1,20664392	0,0002	CELA3A	chymotrypsin-like elastase family, member 3A
0,934327347	0,61058	0,851453708	0,00611	CELF1	CUGBP, Elav-like family member 1
1,019597683	0,87039	1,162314108	0,02711	CELF1	CUGBP, Elav-like family member 1
1,084477409	0,31454	1,149494848	0,02057	CELF1	CUGBP, Elav-like family member 1
1,190031696	0,07984	1,209155676	0,00637	CELF2	CUGBP, Elav-like family member 2
1,183451022	0,08271	1,29145735	0,0006	CELF2	CUGBP, Elav-like family member 2
1,187559666	0,12283	1,172022284	0,00126	CELF3	CUGBP, Elav-like family member 3
0,891310496	0,33089	0,872967591	0,04872	CELSR1	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
1,155886707	0,09931	1,178539408	0,00112	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila)
0,862741345	0,14141	1,122721422	0,04853	CEND1	cell cycle exit and neuronal differentiation 1
1,012554807	0,89474	1,155085785	0,0409	CENPA	centromere protein A
0,903752727	0,63092	0,816768991	0,02656	CENPBD1	CENPB DNA-binding domains containing 1
0,739181216	0,12378	0,843815796	0,00759	CENPJ	centromere protein J
0,898132373	0,30365	0,814507563	0,01898	CENPL	centromere protein L
0,943438251	0,72376	0,851453708	0,01754	CENPL	centromere protein L
0,977385766	0,82469	0,805524291	0,0033	CENPN	centromere protein N
0,749499801	0,08819	0,749499801	0,00035	CENPN	centromere protein N
1,22603486	0,33771	0,837406488	0,02407	CENPQ	centromere protein Q
1,244011653	0,06704	1,222640278	0,0272	CENPV	centromere protein V
0,950659101	0,53499	1,111879158	0,0346	CENPV	centromere protein V
0,731028724	0,27847	0,859756486	0,02584	CEP104	centrosomal protein 104kDa
0,857376037	0,36693	0,699792933	0,00035	CEP104	centrosomal protein 104kDa
1,121943481	0,15256	1,122721422	0,02697	CEP128	centrosomal protein 128kDa
0,943438251	0,52404	0,906890329	0,02063	CEP135	centrosomal protein 135kDa
1,048262476	0,87452	0,831622098	0,01913	CEP164	centrosomal protein 164kDa
1,031683179	0,74756	1,165541198	0,01747	CEP250	centrosomal protein 250kDa
1,029540083	0,77821	1,155085785	0,00238	CEP290	centrosomal protein 290kDa
1,017479692	0,95743	0,845572287	0,02811	CEP350	centrosomal protein 350kDa
0,901875378	0,65479	0,800514811	0,01025	CEP350	centrosomal protein 350kDa
0,790589117	0,31575	0,723467443	0,00142	CEP350	centrosomal protein 350kDa
0,722465199	0,13796	0,740206649	0,00196	CEP350	centrosomal protein 350kDa
0,788946841	0,26003	0,771105413	0,01373	CEP44	centrosomal protein 44kDa
0,967947027	0,83145	0,792234811	0,00251	CEP44	centrosomal protein 44kDa
0,636397468	0,09001	0,705637922	0,00518	CEP57	centrosomal protein 57kDa
0,856781955	0,46725	0,773246337	0,01652	CEP57	centrosomal protein 57kDa
0,764718139	0,12013	0,819604608	0,00205	CEP63	centrosomal protein 63kDa
0,718470088	0,11739	0,692074858	0,00643	CEP76	centrosomal protein 76kDa
0,642157904	0,08905	0,690158677	0,03182	CEP76	centrosomal protein 76kDa
0,918912883	0,28287	0,89564567	0,00217	CEP89	centrosomal protein 89kDa
0,841479482	0,21549	0,784040454	0,00073	CEP95	centrosomal protein 95kDa
0,910669834	0,48893	0,862741345	0,02318	CEPT1	choline/ethanolamine phosphotransferase 1
1,257884972	0,12224	1,231998073	0,00483	CERS2	ceramide synthase 2
0,905633983	0,68114	0,806641759	0,00248	CERS6	ceramide synthase 6
0,727994774	0,15836	0,712025098	0,00005	CERS6	ceramide synthase 6
0,841479482	0,38738	0,756283999	0,00226	CETN3	centrin, EF-hand protein, 3
1,245737416	0,06454	1,180992661	0,00637	CETP	cholesteryl ester transfer protein, plasma
1,45296505	0,06412	1,582274602	0,00006	CFB	complement factor B
1,050444544	0,55786	0,893165852	0,02638	CFC1	cripto, FRL-1, cryptic family 1
0,684441907	0,05126	0,87539133	0,04965	CFDP1	craniofacial development protein 1
1,351910833	0,12902	1,508380077	0,01163	CFH	complement factor H
1,53261996	0,08833	1,783857039	0,01315	CFI	complement factor I
1,122721422	0,66218	1,264003098	0,01666	CFLAR	CASP8 and FADD-like apoptosis regulator
1,138394029	0,59376	1,162314108	0,0134	CFLAR	CASP8 and FADD-like apoptosis regulator
1,059218335	0,83108	1,135242102	0,02767	CFLAR	CASP8 and FADD-like apoptosis regulator
1,215879283	0,41649	1,194991205	0,01274	CFLAR	CASP8 and FADD-like apoptosis regulator
1,101905116	0,48567	1,114193651	0,0373	CFLAR	CASP8 and FADD-like apoptosis regulator
0,684441907	0,13122	0,79940583	0,00847	CFLAR	CASP8 and FADD-like apoptosis regulator
1,008352455	0,93878	0,817902059	0,01267	CFTR	cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7)
0,91383145	0,59359	0,871154192	0,0237	CGGBP1	CGG triplet repeat binding protein 1
1,088997015	0,50385	0,848507902	0,01744	CGRRF1	cell growth regulator with ring finger domain 1
1,101905116	0,25569	1,167967395	0,01363	CHADL	chondroadherin-like
0,808320869	0,05791	0,849096246	0,01457	CHCHD1	coiled-coil-helix-coiled-coil-helix domain containing 1
1,102669163	0,65123	1,215879283	0,02193	CHCHD10	coiled-coil-helix-coiled-coil-helix domain containing 10
0,938221197	0,52383	0,906261938	0,01943	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3
0,923382311	0,36042	1,111108729	0,01138	CHCHD5	coiled-coil-helix-coiled-coil-helix domain containing 5
1,010451446	0,94696	0,801069878	0,00641	CHCHD7	coiled-coil-helix-coiled-coil-helix domain containing 7
0,985549337	0,86329	0,884540435	0,03203	CHCHD7	coiled-coil-helix-coiled-coil-helix domain containing 7
0,871154192	0,14034	0,865736566	0,00522	CHCHD8	coiled-coil-helix-coiled-coil-helix domain containing 8
0,831622098	0,32929	0,776468875	0,01433	CHD1	chromodomain helicase DNA binding protein 1
0,785128119	0,34314	0,7944344	0,00848	CHD1	chromodomain helicase DNA binding protein 1
0,824162085	0,27442	0,724471077	0,00195	CHD1L	chromodomain helicase DNA binding protein 1-like
0,872362706	0,23483	0,784584098	0,00035	CHD2	chromodomain helicase DNA binding protein 2
0,844400887	0,16701	0,794985251	0,00238	CHD2	chromodomain helicase DNA binding protein 2
0,955945318	0,8528	0,723969086	0,01189	CHD2	chromodomain helicase DNA binding protein 2
1,029540083	0,84989	1,257884972	0,00606	CHD3	chromodomain helicase DNA binding protein 3
0,816768991	0,20905	0,710053679	0,00039	CHD6	chromodomain helicase DNA binding protein 6
0,856781955	0,53263	0,847332435	0,03363	CHD6	chromodomain helicase DNA binding protein 6
1,079228237	0,42606	1,092020546	0,04149	CHD6	chromodomain helicase DNA binding protein 6
0,78024548	0,18955	0,866336856	0,01389	CHD7	chromodomain helicase DNA binding protein 7
0,943438251	0,78996	0,851453708	0,00897	CHD9	chromodomain helicase DNA binding protein 9
0,880259014	0,21669	0,879039561	0,04429	CHD9	chromodomain helicase DNA binding protein 9
0,847332435	0,39317	0,824733549	0,03625	CHEK1	CHK1 checkpoint homolog (S. pombe)
1,071030823	0,48334	1,165541198	0,01439	CHERP	calcium homeostasis endoplasmic reticulum protein
0,948026965	0,60863	0,859756486	0,01682	CHERP	calcium homeostasis endoplasmic reticulum protein
1,030968319	0,6595	0,910038824	0,02471	CHFR	checkpoint with forkhead and ring finger domains
1,136816973	0,55105	1,234562607	0,00376	CHID1	chitinase domain containing 1

0,951318276	0,70992	1,20664392	0,00276	CHIT1	chitinase 1 (chitotriosidase)
0,944747041	0,74816	1,180174343	0,0043	CHKB	choline kinase beta
0,910669834	0,36866	0,833931044	0,00953	CHML	choroideremia-like (Rab escort protein 2)
0,718470088	0,10359	0,684441907	0,00052	CHML	choroideremia-like (Rab escort protein 2)
0,557483109	0,16727	0,881480158	0,0164	CHMP2A	chromatin modifying protein 2A
0,736113431	0,06921	0,659296807	0,00002	CHMP2B	chromatin modifying protein 2B
0,681129017	0,29559	0,671751713	0,00001	CHMP2B	chromatin modifying protein 2B
0,817335328	0,2073	0,745355193	0,00283	CHMP2B	chromatin modifying protein 2B
1,169587664	0,38802	1,481439798	0,00964	CHMP4B	chromatin modifying protein 4B
1,223488041	0,10825	1,41519416	0,00403	CHN1	chimerin (chimaerin) 1
1,051172909	0,56221	1,153485605	0,00443	CHN2	chimerin (chimaerin) 2
1,238848698	0,12187	1,188383105	0,04396	CHPF2	chondroitin polymerizing factor 2
1,300440147	0,14813	1,314031627	0,0002	CHPF2	chondroitin polymerizing factor 2
1,116512962	0,56642	0,882702996	0,03305	CHPT1	choline phosphotransferase 1
0,863339559	0,19669	0,811689581	0,00002	CHRAC1	chromatin accessibility complex 1
1,065108203	0,59468	1,29145735	0,00704	CHRD	chordin
1,260503392	0,05319	1,33422317	0,00416	CHRDL2	chordin-like 2
1,106497353	0,22	1,154285418	0,00209	CHRM1	cholinergic receptor, muscarinic 1
1,030968319	0,78834	1,149494848	0,00626	CHRM4	cholinergic receptor, muscarinic 4
1,041743429	0,70068	1,143138335	0,0072	CHRNA10	cholinergic receptor, nicotinic, alpha 10
1,063632673	0,549	1,167967395	0,01768	CHRNA2	cholinergic receptor, nicotinic, alpha 2 (neuronal)
1,052631155	0,56421	1,10343374	0,02991	CHRNB2	cholinergic receptor, nicotinic, beta 2 (neuronal)
1,096571589	0,42999	1,128182137	0,00858	CHRND	cholinergic receptor, nicotinic, delta
1,178539408	0,09274	1,257013375	0,00489	CHST1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1
0,980779004	0,81114	1,110338834	0,02616	CHST13	carbohydrate (chondroitin 4) sulfotransferase 13
1,122721422	0,16176	1,186736798	0,00836	CHST14	carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14
0,919550046	0,59854	0,792784137	0,00481	CHUK	conserved helix-loop-helix ubiquitous kinase
0,743806881	0,20119	0,687770909	0,00003	CHURC1	churchill domain containing 1
0,745355193	0,05216	0,810003474	0,04963	CHURC1	churchill domain containing 1
1,074749173	0,44199	1,095052471	0,03635	CIAO1	cytosolic iron-sulfur protein assembly 1
0,937571096	0,6638	0,831622098	0,00017	CIAPIN1	cytokine induced apoptosis inhibitor 1
0,754190038	0,07044	0,808881348	0,00247	CIAPIN1	cytokine induced apoptosis inhibitor 1
0,956608158	0,87686	1,321338406	0,00047	CIB1	calcium and integrin binding 1 (calmyrin)
1,095811766	0,25048	1,241427492	0,00006	CIDEC	cell death-inducing DFFA-like effector c
1,115739322	0,21472	1,187559666	0,01034	CIITA	class II, major histocompatibility complex, transactivator
1,10343374	0,32938	1,115739322	0,03762	CIITA	class II, major histocompatibility complex, transactivator
1,25353302	0,07706	1,305859787	0,03324	CILP2	cartilage intermediate layer protein 2
0,938871747	0,65842	1,335148303	0,01913	CIRBP	cold inducible RNA binding protein
1,003471749	0,97646	1,176906737	0,04426	CIRBP	cold inducible RNA binding protein
0,961260928	0,80847	1,498999602	0,0012	CIRBP	cold inducible RNA binding protein
0,547146851	0,07887	0,751059963	0,00036	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)
0,918276162	0,40102	0,880259014	0,0227	CISD1	CDGSH iron sulfur domain 1
0,981459064	0,87079	0,85797053	0,00197	CISD2	CDGSH iron sulfur domain 2
1,030253954	0,74789	1,126619228	0,0224	CITED1	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1
1,041743429	0,8832	0,744838732	0,00844	CKAP4	cytoskeleton-associated protein 4
1,076986376	0,4098	1,136816973	0,02643	CKM	creatine kinase, muscle
0,66296288	0,16763	0,882091365	0,02992	CLASP2	cytoplasmic linker associated protein 2
0,910669834	0,58944	0,712518807	0,00175	CLASP2	cytoplasmic linker associated protein 2
1,084477409	0,62958	1,212512819	0,03938	CLASRP	CLK4-associating serine/arginine rich protein
0,737645729	0,1482	0,85027416	0,01946	CLCA2	chloride channel accessory 2
2,033549347	0,10259	1,815038311	0,00449	CLCA4	chloride channel accessory 4
0,944747041	0,53962	0,851453708	0,00226	CLCN2	chloride channel 2
0,654289036	0,11836	0,695923196	0,00108	CLCN3	chloride channel 3
0,978063473	0,72885	1,185914499	0,00423	CLCN4	chloride channel 4
1,035982764	0,76628	0,917004043	0,049	CLCN5	chloride channel 5
0,895025071	0,44384	0,844400887	0,0137	CLCN5	chloride channel 5
0,994470169	0,95679	0,835087919	0,0025	CLCN5	chloride channel 5
1,237132479	0,1728	1,086734863	0,04272	CLCN6	chloride channel 6
0,986232704	0,90257	1,182631	0,00934	CLCN7	chloride channel 7
0,796088099	0,30492	0,753145233	0,00835	CLDN12	claudin 12
1,087488391	0,32437	1,212512819	0,01787	CLDN15	claudin 15
1,105730653	0,24629	1,151089491	0,01228	CLDN15	claudin 15
1,043188594	0,63052	0,902500727	0,02614	CLDN23	claudin 23
1,304050735	0,27233	0,828170661	0,04882	CLDN23	claudin 23
1,32317144	0,05945	1,48246701	0,00248	CLDN5	claudin 5
1,145517898	0,65006	1,350974085	0,0144	CLDN7	claudin 7
0,988285652	0,9275	1,179356592	0,0179	CLDN9	claudin 9
1,226884977	0,05089	1,153485605	0,02097	CLEC12A	C-type lectin domain family 12, member A
1,093535457	0,67402	1,390881972	0,00347	CLEC2B	C-type lectin domain family 2, member B
1,134455485	0,12215	1,292352831	0,0004	CLEC3A	C-type lectin domain family 3, member A
1,223488041	0,42818	1,476314406	0,00267	CLEC3B	C-type lectin domain family 3, member B
0,978063473	0,78097	1,130530567	0,02302	CLEC4F	C-type lectin domain family 4, member F
1,132098902	0,24979	1,225185332	0,00173	CLEC4GP1	C-type lectin domain family 4, member G pseudogene 1
1,123499903	0,14705	1,143138335	0,00871	CLEC4M	C-type lectin domain family 4, member M
0,924663278	0,22394	0,846158597	0,00098	CLEC5A	C-type lectin domain family 5, member A
0,971980988	0,70719	1,152686347	0,00232	CLIC5	chloride intracellular channel 5
1,132883885	0,17062	1,116512962	0,02523	CLIC6	chloride intracellular channel 6
0,879649076	0,77353	0,537374586	0,00002	CLINT1	clathrin interactor 1
0,664342907	0,07989	0,709561678	0,00104	CLIP1	CAP-GLY domain containing linker protein 1
0,655196702	0,27556	0,60332196	0,01922	CLIP1	CAP-GLY domain containing linker protein 1
1,185092771	0,30278	1,408344227	0,00107	CLIP3	CAP-GLY domain containing linker protein 3
0,568014632	0,05811	0,653835674	0,00232	CLIP4	CAP-GLY domain containing linker protein family, member 4
0,674083866	0,09027	0,807760778	0,01226	CLK4	CDC-like kinase 4
0,957935218	0,79072	0,855595026	0,04161	CLMN	calmin (calponin-like, transmembrane)
1,093535457	0,54298	1,295042999	0,00044	CLN3	ceroid-lipofuscinosis, neuronal 3
1,055553718	0,70032	1,193335743	0,00904	CLN3	ceroid-lipofuscinosis, neuronal 3
1,147107024	0,26434	1,234562607	0,00095	CLN6	ceroid-lipofuscinosis, neuronal 6, late infantile, variant
1,076240125	0,50885	1,137605228	0,01839	CLOCK	clock homolog (mouse)
1,077733145	0,52131	1,20664392	0,02281	CLP1	CLP1, cleavage and polyadenylation factor I subunit, homolog (S. cerevisiae)
1,257013375	0,16605	1,402499251	0,00003	CLPTM1	cleft lip and palate associated transmembrane protein 1
1,065846736	0,87172	1,563739286	0,00001	CLPTM1	cleft lip and palate associated transmembrane protein 1
1,332374825	0,51542	1,660940048	0,00007	CLPTM1L	CLPTM1-like
0,76154437	0,21127	0,79940583	0,00019	CLPX	ClpX caseinolytic peptidase X homolog (E. coli)
0,955945318	0,60249	1,123499903	0,01717	CLRN1-AS1	CLRN1 antisense RNA 1 (non-protein coding)
1,300440147	0,08979	1,467133344	0,00005	CLSTN3	calsyntenin 3
0,972654947	0,81165	1,183451022	0,00455	CLTCL1	clathrin, heavy chain-like 1
1,021720083	0,94255	1,399585866	0,02221	CLU	clusterin
0,946057647	0,53555	0,858565436	0,0359	CLUAP1	clusterin associated protein 1
0,836826243	0,19262	0,808320869	0,00163	CMAS	cytidine monophosphate N-acetylneuraminic acid synthetase
1,100378609	0,47193	0,837406488	0,01865	CMC1	COX assembly mitochondrial protein homolog (S. cerevisiae)
0,893165852	0,34147	0,798851916	0,02662	CMIP	c-Maf inducing protein
1,165541198	0,14731	1,225185332	0,0011	CMKLR1	chemokine-like receptor 1
0,877213549	0,41528	0,845572287	0,00478	CMPK1	cytidine monophosphate (UMP-CMP) kinase 1, cytosolic
0,963261894	0,74758	0,864537231	0,02728	CMPK1	cytidine monophosphate (UMP-CMP) kinase 1, cytosolic

1,376495602	0,13448	0,678302164	0,00913	CMPK2	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial
1,447938172	0,05038	1,402499251	0,00027	CMTM3	CKLF-like MARVEL transmembrane domain containing 3
1,304954948	0,05696	1,261377409	0,00474	CMTM3	CKLF-like MARVEL transmembrane domain containing 3
1,159095952	0,12583	1,128182137	0,01509	CMTM4	CKLF-like MARVEL transmembrane domain containing 4
1,069547088	0,82578	0,872362706	0,0448	CMTM4	CKLF-like MARVEL transmembrane domain containing 4
1,136029265	0,21349	1,124278924	0,02213	CMTM5	CKLF-like MARVEL transmembrane domain containing 5
0,884540435	0,37764	0,753667455	0,00026	CNBP	CCHC-type zinc finger, nucleic acid binding protein
1,108800644	0,34961	1,151887642	0,0072	CNDP1	carnosine dipeptidase 1 (metallopeptidase M20 family)
1,136816973	0,2018	1,112650121	0,03158	CNGB1	cyclic nucleotide gated channel beta 1
1,150291893	0,11416	1,20163605	0,00089	CNGB3	cyclic nucleotide gated channel beta 3
0,85027416	0,32833	0,723969086	0,00038	CNIH4	cornichon homolog 4 (Drosophila)
0,848507902	0,16075	0,777546036	0,00396	CNIH4	cornichon homolog 4 (Drosophila)
0,882702996	0,24392	0,880869374	0,04712	CNIH4	cornichon homolog 4 (Drosophila)
0,953959551	0,63228	0,821880187	0,00512	CNKSR1	connector enhancer of kinase suppressor of Ras 1
0,899378312	0,55119	0,778085177	0,02272	CNN3	calponin 3, acidic
1,115739322	0,31114	1,156688184	0,01656	CNNM2	cyclin M2
0,813379198	0,1575	0,793333843	0,00167	CNO	cappuccino homolog (mouse)
0,901250463	0,61766	0,920825697	0,04109	CNOT2	CCR4-NOT transcription complex, subunit 2
0,688247801	0,05079	0,860949188	0,00307	CNOT4	CCR4-NOT transcription complex, subunit 4
0,691116103	0,05722	0,708087719	0,00026	CNOT4	CCR4-NOT transcription complex, subunit 4
0,89688816	0,4912	0,828170661	0,00995	CNOT7	CCR4-NOT transcription complex, subunit 7
0,950659101	0,77573	0,867538687	0,03812	CNOT8	CCR4-NOT transcription complex, subunit 8
0,848507902	0,21131	0,811127156	0,00826	CNPPD1	cyclin Pas1/PHO80 domain containing 1
1,121166078	0,46104	1,234562607	0,00029	CNPY2	canopy 2 homolog (zebrafish)
0,886996305	0,72373	1,138394029	0,02184	CNPY2	canopy 2 homolog (zebrafish)
0,853226098	0,29041	0,839149637	0,01079	CNPY2	canopy 2 homolog (zebrafish)
1,262252032	0,2064	1,195819797	0,04426	CNPY3	canopy 3 homolog (zebrafish)
1,240567298	0,20439	1,294145654	0,0179	CNPY3	canopy 3 homolog (zebrafish)
1,127400412	0,37496	1,172022284	0,00719	CNR1	cannabinoid receptor 1 (brain)
1,139183377	0,24977	1,199971382	0,00938	CNR2	cannabinoid receptor 2 (macrophage)
1,032398535	0,83822	0,860949188	0,04508	CNST	consortin, connexin sorting protein
0,877213549	0,16611	0,886381699	0,04272	CNST	consortin, connexin sorting protein
0,782411782	0,23413	0,786217292	0,00868	CNST	consortin, connexin sorting protein
0,889458994	0,37135	0,744322628	0,0003	CNTNAP2	contactin associated protein-like 2
0,6341957	0,09551	0,721464343	0,00122	CNTNAP3	contactin associated protein-like 3
0,683967652	0,05032	0,732042848	0,00093	CNTNAP3	contactin associated protein-like 3
0,897510051	0,22837	1,160703914	0,02141	CNTNAP5	contactin associated protein-like 5
1,155085785	0,32559	1,133669413	0,02818	CNTRL	centriolin
0,905633983	0,18423	0,863938187	0,02538	CNTRL	centriolin
0,748461493	0,39002	0,806641759	0,02212	COCH	coagulation factor C homolog, cochlin (Limulus polyphemus)
0,882702996	0,50162	0,840896415	0,00104	COG5	component of oligomeric golgi complex 5
0,774319028	0,0531	0,774855931	0,00373	COG5	component of oligomeric golgi complex 5
0,921464186	0,69441	0,774855931	0,00004	COIL	coilin
1,00556058	0,95627	1,202469249	0,00372	COL11A2	collagen, type XI, alpha 2
1,101905116	0,33517	1,285206337	0,00419	COL13A1	collagen, type XIII, alpha 1
1,665551542	0,06817	1,285206337	0,02166	COL13A1	collagen, type XIII, alpha 1
1,246601194	0,08957	1,204137381	0,0056	COL13A1	collagen, type XIII, alpha 1
1,367935304	0,17625	1,618884433	0,00648	COL14A1	collagen, type XIV, alpha 1
1,160703914	0,09874	1,322254605	0,00089	COL14A1	collagen, type XIV, alpha 1
1,092020546	0,33773	1,159899655	0,01138	COL1A1	collagen, type I, alpha 1
0,786217292	0,56432	1,456999114	0,03164	COL1A1	collagen, type I, alpha 1
0,735093668	0,21772	0,683967652	0,00686	COL21A1	collagen, type XXI, alpha 1
1,142346247	0,22902	1,22010051	0,00195	COL22A1	collagen, type XXII, alpha 1
1,205807828	0,09322	1,196648963	0,00414	COL25A1	collagen, type XXV, alpha 1
0,866336856	0,29256	1,126619228	0,04642	COL2A1	collagen, type II, alpha 1
1,505246747	0,14299	1,938579634	0,00007	COL4A1	collagen, type IV, alpha 1
1,876442393	0,13959	2,006943497	0,00001	COL4A2	collagen, type IV, alpha 2
1,195819797	0,08118	1,22603486	0,00237	COL4A3	collagen, type IV, alpha 3 (Goodpasture antigen)
1,147107024	0,07047	1,121166078	0,00285	COL4A3	collagen, type IV, alpha 3 (Goodpasture antigen)
0,837406488	0,43542	0,809442217	0,00823	COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein
0,803850991	0,36088	0,831622098	0,0059	COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein
1,33422317	0,13066	1,30224419	0,03404	COL5A1	collagen, type V, alpha 1
0,93109482	0,78069	1,417157397	0,01126	COL5A1	collagen, type V, alpha 1
1,025267238	0,91883	1,373636233	0,02857	COL5A1	collagen, type V, alpha 1
1,004167543	0,98925	1,426025717	0,02118	COL6A1	collagen, type VI, alpha 1
0,853226098	0,69428	1,688801775	0,00468	COL6A2	collagen, type VI, alpha 2
1,086734863	0,61784	1,440929749	0,00221	COL6A2	collagen, type VI, alpha 2
0,979420298	0,87918	1,330529041	0,04378	COL6A3	collagen, type VI, alpha 3
0,753145233	0,07557	1,234562607	0,03757	COL7A1	collagen, type VII, alpha 1
1,186736798	0,15089	1,32317144	0,00349	COL9A2	collagen, type IX, alpha 2
1,151887642	0,13158	1,279872414	0,0002	COLEC11	collectin sub-family member 11
0,898132373	0,52207	0,787307977	0,01579	COMMD2	COMM domain containing 2
0,967947027	0,8889	1,163120042	0,00978	COMMD4	COMM domain containing 4
1,009751298	0,93696	0,882702996	0,00862	COMMD5	COMM domain containing 5
0,807760778	0,17562	0,71449707	0,00056	COMMD8	COMM domain containing 8
1,139973273	0,29963	1,152686347	0,04061	COPE	coatomer protein complex, subunit epsilon
0,76154437	0,07283	0,803850991	0,00515	COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)
0,945402117	0,78308	0,785672517	0,00682	COPS2	COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)
0,84264683	0,19361	0,821880187	0,00054	COPS4	COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis)
1,022428531	0,82635	0,91319825	0,02813	COPS6	COP9 constitutive photomorphogenic homolog subunit 6 (Arabidopsis)
0,995849753	0,97839	0,868742185	0,00937	COPS8	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis)
0,852634892	0,13506	0,870550563	0,01584	COPS8	COP9 constitutive photomorphogenic homolog subunit 8 (Arabidopsis)
1,099616149	0,31802	1,252664439	0,00178	COPZ2	coatomer protein complex, subunit zeta 2
0,976708529	0,77697	0,885153765	0,04473	COQ2	coenzyme Q2 homolog, prenyltransferase (yeast)
0,765778999	0,05906	0,803293997	0,00256	COQ3	coenzyme Q3 homolog, methyltransferase (S. cerevisiae)
1,0453601	0,78046	0,822450069	0,04518	CORIN	corin, serine peptidase
1,202469249	0,33599	1,268391399	0,00144	CORO1B	coronin, actin binding protein, 1B
0,867538687	0,55801	0,755759964	0,00275	CORO1C	coronin, actin binding protein, 1C
0,693515485	0,05318	0,758383773	0,00012	CORO2A	coronin, actin binding protein, 2A
1,111879158	0,18916	1,193335743	0,01845	CORO6	coronin 6
0,905633983	0,54044	0,77916458	0,00077	COX11	COX11 cytochrome c oxidase assembly homolog (yeast)
1,102669163	0,60848	0,855002178	0,00589	COX11	COX11 cytochrome c oxidase assembly homolog (yeast)
1,041021598	0,85906	0,838568184	0,04286	COX15	COX15 homolog, cytochrome c oxidase assembly protein (yeast)
0,908148418	0,58475	0,730016005	0,00003	COX16	COX16 cytochrome c oxidase assembly homolog (S. cerevisiae)
0,69640574	0,21713	1,090507733	0,0445	COX2	cytochrome c oxidase subunit II
1,187559666	0,07199	1,396678532	0,00007	COX4I2	cytochrome c oxidase subunit IV isoform 2 (lung)
0,993092495	0,9431	0,902500727	0,02332	COX4NB	COX4 neighbor
1,100378609	0,41954	0,893165852	0,02732	COX4NB	COX4 neighbor
0,987600861	0,89316	0,911933166	0,02052	COX4NB	COX4 neighbor
0,951977908	0,55883	0,890692901	0,041	COX5A	cytochrome c oxidase subunit Va
0,922103118	0,39653	0,798298386	0,0012	COX5A	cytochrome c oxidase subunit Va
1,191682575	0,14572	1,202469249	0,00147	COX6A2	cytochrome c oxidase subunit VIa polypeptide 2
1,062159186	0,56278	1,237132479	0,00324	COX6B2	cytochrome c oxidase subunit VIb polypeptide 2 (testis)
1,087488391	0,57659	1,413233644	0,00052	COX7A1	cytochrome c oxidase subunit VIIa polypeptide 1 (muscle)

0,946713631	0,78704	0,688725023	0,00017	COX7B	cytochrome c oxidase subunit VIIb
1,232852325	0,28298	1,217566019	0,03252	CP	ceruloplasmin (ferroxidase)
1,143930973	0,3331	1,341642225	0,03649	CPA3	carboxypeptidase A3 (mast cell)
0,790589117	0,30412	0,785128119	0,03426	CPE	carboxypeptidase E
0,952637998	0,6702	1,158292806	0,00624	CPEB1	cytoplasmic polyadenylation element binding protein 1
1,0132569	0,88272	0,911301281	0,01918	CPEB2	cytoplasmic polyadenylation element binding protein 2
1,295940965	0,15027	1,366040257	0,0273	CPLX1	complexin 1
0,59295725	0,05083	0,624165274	0,00001	CPM	carboxypeptidase M
0,827023368	0,20221	0,763658749	0,00029	CPM	carboxypeptidase M
0,934327347	0,55506	0,852044095	0,00632	CPM	carboxypeptidase M
1,142346247	0,19091	1,157490217	0,02583	CPN2	carboxypeptidase N, polypeptide 2
0,971307496	0,94394	0,800514811	0,00499	CPNE3	copine III
1,039579435	0,6425	1,167967395	0,02013	CPNE6	copine VI (neuronal)
0,938221197	0,63011	1,169587664	0,012	CPNE7	copine VII
1,094293701	0,6271	0,820741609	0,00382	CPOX	coproporphyrinogen oxidase
1,071773463	0,42428	1,152686347	0,02165	CPSF1	cleavage and polyadenylation specific factor 1, 160kDa
0,782954296	0,25124	0,759435845	0,01342	CPSF2	cleavage and polyadenylation specific factor 2, 100kDa
0,918912883	0,52839	0,830470024	0,02066	CPSF3L	cleavage and polyadenylation specific factor 3-like
0,914465089	0,72226	1,2397077	0,00549	CPSF3L	cleavage and polyadenylation specific factor 3-like
0,901250463	0,43033	0,888226796	0,01393	CPSF6	cleavage and polyadenylation specific factor 6, 68kDa
1,021012126	0,8376	0,90312651	0,01698	CPXCR1	CPX chromosome region, candidate 1
1,257013375	0,31556	1,464085696	0,0123	CPXM1	carboxypeptidase X (M14 family), member 1
1,033830736	0,87415	1,250062303	0,00862	CPXM2	carboxypeptidase X (M14 family), member 2
1,167158102	0,38329	1,257884972	0,04417	CRABP1	cellular retinoic acid binding protein 1
1,062895674	0,49549	1,115739322	0,02227	CRAMP1L	Crm, cramped-like (Drosophila)
1,074004472	0,37782	1,147107024	0,00857	CRAT	carnitine O-acetyltransferase
0,873572896	0,09683	0,882091365	0,04382	CRB3	crumbs homolog 3 (Drosophila)
0,84323111	0,30209	0,831045862	0,00249	CRCP	CGRP receptor component
0,986916546	0,96274	0,7944344	0,01254	CREB1	cAMP responsive element binding protein 1
0,836826243	0,42638	0,870550563	0,02495	CREB1	cAMP responsive element binding protein 1
0,867538687	0,49738	0,816203046	0,01095	CREB1	cAMP responsive element binding protein 1
1,073260286	0,72813	1,244011653	0,00058	CREB3	cAMP responsive element binding protein 3
1,111108729	0,40661	1,173648178	0,03812	CREB3L1	cAMP responsive element binding protein 3-like 1
0,826450318	0,25824	0,828170661	0,00184	CREBBP	CREB binding protein
0,991029563	0,97071	0,76101669	0,01779	CRIM1	cysteine rich transmembrane BMP regulator 1 (chordin-like)
0,789493887	0,12736	0,894404902	0,02517	CRIPAK	cysteine-rich PAK1 inhibitor
0,877821798	0,51343	0,8362464	0,0294	CRIPT	cysteine-rich PDZ-binding protein
0,826450318	0,15387	0,803293997	0,00035	CRIPT	cysteine-rich PDZ-binding protein
0,965936329	0,64105	1,121166078	0,02216	CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2
0,674083866	0,22697	0,885767519	0,03441	CRK	v-crk sarcoma virus CT10 oncogene homolog (avian)
0,811689581	0,16362	0,788946841	0,00146	CRK	v-crk sarcoma virus CT10 oncogene homolog (avian)
0,610896551	0,06992	0,751059963	0,02057	CRK	v-crk sarcoma virus CT10 oncogene homolog (avian)
1,077733145	0,53373	0,811127156	0,04712	CRLF3	cytokine receptor-like factor 3
0,96996191	0,77496	0,8362464	0,00549	CRLS1	cardiolipin synthase 1
1,062895674	0,59324	0,882091365	0,01396	CRLS1	cardiolipin synthase 1
0,89564567	0,39668	0,758383773	0,00014	CRLS1	cardiolipin synthase 1
1,044635763	0,58916	1,25353302	0,00239	CRMP1	collapsin response mediator protein 1
0,79940583	0,18312	0,797192477	0,00989	CRNDE	colorectal neoplasia differentially expressed (non-protein coding)
0,911301281	0,64077	0,847919965	0,02744	CRNKL1	crooked neck pre-mRNA splicing factor-like 1 (Drosophila)
1,117287138	0,47782	1,20163605	0,00818	CROCC	ciliary rootlet coiled-coil, rootletin
0,954621014	0,62303	1,143138335	0,03878	CROCCP2	ciliary rootlet coiled-coil, rootletin pseudogene 2
0,988970916	0,90877	1,129747215	0,01931	CROCCP2	ciliary rootlet coiled-coil, rootletin pseudogene 2
0,950000383	0,77258	0,77271055	0,00002	CROT	carnitine O-octanoyltransferase
1,186736798	0,05611	1,159899655	0,01272	CRTAC1	cartilage acidic protein 1
0,852044095	0,0598	0,871154192	0,04437	CRTAP	cartilage associated protein
0,985549337	0,87955	1,104964485	0,03846	CRTC1	CREB regulated transcription coactivator 1
1,136816973	0,26468	1,285206337	0,00034	CRTC1	CREB regulated transcription coactivator 1
1,034547582	0,69897	1,208317843	0,00218	CRX	cone-rod homeobox
0,696888619	0,12677	0,67877249	0,00067	CRY1	cryptochrome 1 (photolyase-like)
1,109569472	0,31198	1,130530567	0,02853	CRYBB1	crystallin, beta B1
0,810003474	0,31983	0,763658749	0,02263	CRYZ	crystallin, zeta (quinone reductase)
0,632878297	0,06506	0,708578698	0,01187	CRYZL1	crystallin, zeta (quinone reductase)-like 1
0,85797053	0,3614	0,832775771	0,01778	CRYZL1	crystallin, zeta (quinone reductase)-like 1
0,832198735	0,1501	0,785128119	0,00523	CSAD	cysteine sulfinic acid decarboxylase
0,639492791	0,36777	0,809442217	0,00629	CSDA	cold shock domain protein A
0,754190038	0,29232	0,742261785	0,00209	CSDA	cold shock domain protein A
0,578344092	0,05156	0,712518807	0,00011	CSE1L	CSE1 chromosome segregation 1-like (yeast)
1,214194884	0,1919	1,130530567	0,01874	CSF1	colony stimulating factor 1 (macrophage)
1,257884972	0,08849	1,208317843	0,00092	CSF1	colony stimulating factor 1 (macrophage)
1,335148303	0,08855	1,736280455	0,00002	CSF1R	colony stimulating factor 1 receptor
1,120389214	0,2944	1,121943481	0,01673	CSF2	colony stimulating factor 2 (granulocyte-macrophage)
1,134455485	0,3236	1,367935304	0,00016	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1
1,035264924	0,75244	1,096571589	0,018	CSHL1	chorionic somatomammotropin hormone-like 1
0,978063473	0,79908	1,138394029	0,01639	CSMD1	CUB and Sushi multiple domains 1
1,113421618	0,4315	1,170398641	0,02738	CSMD2	CUB and Sushi multiple domains 2
1,137605228	0,11704	1,139973273	0,01187	CSN3	casein kappa
0,614719434	0,21965	0,564091069	0,00004	CSNK1A1	casein kinase 1, alpha 1
0,934327347	0,50513	0,853817714	0,01273	CSNK1A1	casein kinase 1, alpha 1
0,744838732	0,05105	0,813379198	0,03249	CSNK1A1	casein kinase 1, alpha 1
1,051901779	0,84743	1,223488041	0,00369	CSNK1D	casein kinase 1, delta
1,111879158	0,30075	1,163120042	0,03217	CSNK1E	casein kinase 1, epsilon
0,911301281	0,6571	0,868140228	0,00336	CSNK1G1	casein kinase 1, gamma 1
0,562919293	0,05275	0,711038705	0,00118	CSNK1G1	casein kinase 1, gamma 1
1,128182137	0,61878	0,810003474	0,00673	CSNK1G3	casein kinase 1, gamma 3
1,154285418	0,23032	1,232852325	0,01293	CSPG5	chondroitin sulfate proteoglycan 5 (neuroglycan C)
0,785128119	0,06156	0,791685866	0,00776	CSPP1	centrosome and spindle pole associated protein 1
0,840313752	0,31033	0,786762445	0,00376	CSPP1	centrosome and spindle pole associated protein 1
1,185914499	0,50233	0,816768991	0,0261	CSPP1	centrosome and spindle pole associated protein 1
0,972654947	0,88621	0,840313752	0,02798	CSRNP2	cysteine-serine-rich nuclear protein 2
1,136029265	0,14482	1,127400412	0,03055	CSRNP3	cysteine-serine-rich nuclear protein 3
1,329607108	0,11631	1,339783602	0,00048	CSRP1	cysteine and glycine-rich protein 1
0,823020345	0,09874	0,838568184	0,00241	CST3	cystatin C
1,011853201	0,89018	1,092020546	0,01717	CST8	cystatin 8 (cystatin-related epididymal specific)
0,833353207	0,06359	0,890692901	0,00758	CSTA	cystatin A (stefin A)
0,6341957	0,0752	0,701249625	0,00071	CSTB	cystatin B (stefin B)
0,93109482	0,7121	0,855595026	0,00866	CSTF2	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa
1,179356592	0,07111	1,218410264	0,01003	CTC1	CTS telomere maintenance complex component 1
1,130530567	0,28405	1,189207115	0,00521	CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2
0,878430468	0,54371	0,825877665	0,00554	CTDSPL2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase like 2
1,519924856	0,06162	1,527317498	0,00572	CTHRC1	collagen triple helix repeat containing 1
1,097331938	0,52978	1,133669413	0,03924	CTIF	CBP80/20-dependent translation initiation factor
0,989656656	0,91542	1,135242102	0,02814	CTLA4	cytotoxic T-lymphocyte-associated protein 4
0,695440986	0,10782	0,829894586	0,01626	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa
0,811689581	0,107	0,828170661	0,0009	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa

0,762072415	0,05835	0,824733549	0,00007	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa
1,062895674	0,5857	1,165541198	0,0087	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa
1,074749173	0,37939	1,186736798	0,02301	CTNNA3	catenin (cadherin-associated protein), alpha 3
0,712025098	0,11033	0,765248385	0,00027	CTNND1	catenin (cadherin-associated protein), delta 1
1,098854218	0,31392	1,106497353	0,03045	CTNS	cystinosin, lysosomal cystine transporter
0,853817714	0,41198	0,740206649	0,00009	CTR9	Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
1,089752112	0,38328	1,143138335	0,04894	CTRB2	chymotrypsinogen B2
0,790589117	0,42896	1,155085785	0,00833	CTSA	cathepsin A
1,175276328	0,44447	1,25353302	0,002	CTSB	cathepsin B
1,210833084	0,10878	1,157490217	0,0296	CTSB	cathepsin B
1,083725967	0,60387	1,216722359	0,01635	CTSC	cathepsin C
1,194163187	0,34314	1,367935304	0,00524	CTSD	cathepsin D
1,263127262	0,13371	1,393777239	0,00702	CTSK	cathepsin K
1,196648963	0,10822	1,325007017	0,00249	CTSL1P8	cathepsin L1 pseudogene 8
1,180174343	0,54247	1,125838586	0,0268	CTSO	cathepsin O
1,688801775	0,13219	1,797510253	0,00039	CTSS	cathepsin S
1,247465572	0,08539	1,209994089	0,01387	CTSW	cathepsin W
0,902500727	0,38496	0,828744904	0,025	CTTN	cortactin
0,667111585	0,08207	0,632878297	0,00138	CTTNBP2	cortactin binding protein 2
1,042465761	0,7924	1,195819797	0,00019	CUEDC2	CUE domain containing 2
0,995159722	0,98326	0,805524291	0,0086	CUL2	cullin 2
0,884540435	0,49473	0,693034943	0,00048	CUL3	cullin 3
0,955282936	0,70781	0,904379378	0,04238	CUL3	cullin 3
0,712025098	0,11376	0,722465199	0,00033	CUL4A	cullin 4A
0,849684999	0,45042	0,781869643	0,00046	CUL5	cullin 5
0,945402117	0,80571	0,762072415	0,00072	CUL5	cullin 5
0,947370071	0,6399	0,824733549	0,01191	CUL5	cullin 5
1,215879283	0,08326	1,168777249	0,01576	CUL7	cullin 7
0,950000383	0,47384	0,86934456	0,00753	CUL7	cullin 7
1,164733586	0,1893	1,250062303	0,00046	CUL7	cullin 7
1,20163605	0,20042	1,22603486	0,00067	CUTA	cutA divalent cation tolerance homolog (E. coli)
0,636838738	0,05524	0,855002178	0,01117	CUX1	cut-like homeobox 1
0,682546859	0,08374	0,701735863	0,00001	CWC22	CWC22 spliceosome-associated protein homolog (S. cerevisiae)
0,839149637	0,22938	0,734584317	0,00032	CWC25	CWC25 spliceosome-associated protein homolog (S. cerevisiae)
0,804966138	0,07885	0,789493887	0,00849	CWC27	CWC27 spliceosome-associated protein homolog (S. cerevisiae)
1,244874235	0,13791	1,196648963	0,02581	CX3CL1	chemokine (C-X3-C motif) ligand 1
0,758383773	0,39719	0,768970416	0,01334	CXADR	coxsackie virus and adenovirus receptor
0,596667872	0,06567	0,728499557	0,00104	CXADR	coxsackie virus and adenovirus receptor
0,749499801	0,27137	0,788946841	0,01329	CXADR	coxsackie virus and adenovirus receptor
1,207480591	0,13137	1,176906737	0,02431	CXCL16	chemokine (C-X-C motif) ligand 16
1,025267238	0,71662	1,116512962	0,01985	CXCL2	chemokine (C-X-C motif) ligand 2
1,22010051	0,08186	1,264879542	0,00129	CXCR1	chemokine (C-X-C motif) receptor 1
1,038859103	0,84099	0,85027416	0,0036	CXorf23	chromosome X open reading frame 23
1,145517898	0,11568	1,308578071	0,0001	CXorf36	chromosome X open reading frame 36
1,281647924	0,05719	1,167158102	0,00537	CXorf36	chromosome X open reading frame 36
1,057750964	0,66868	1,402499251	0,00307	CXorf36	chromosome X open reading frame 36
0,993781093	0,92189	0,851453708	0,01421	CXorf38	chromosome X open reading frame 38
0,84323111	0,30927	1,143930973	0,02177	CXXC1	CXXC finger protein 1
0,955945318	0,55675	1,132098902	0,0065	CXXC1P1	CXXC finger protein 1 pseudogene 1
1,092777739	0,35689	1,155886707	0,00697	CXXC4	CXXC finger protein 4
1,065846736	0,74101	1,328685814	0,00024	CYB561D2	cytochrome b-561 domain containing 2
1,003471749	0,9764	0,737134609	0,00394	CYB5B	cytochrome b5 type B (outer mitochondrial membrane)
0,764718139	0,08548	0,915099168	0,04836	CYB5D1	cytochrome b5 domain containing 1
0,827596816	0,13528	0,779704843	0,00074	CYB5R2	cytochrome b5 reductase 2
2,161450804	0,07223	2,298989696	0,00001	CYBA	cytochrome b-245, alpha polypeptide
1,193335743	0,18908	1,264879542	0,00025	CYBASC3	cytochrome b, ascorbate dependent 3
1,00765376	0,93834	1,139973273	0,02624	CYBB	cytochrome b-245, beta polypeptide
0,78024548	0,38967	0,863938187	0,02267	CYC1	cytochrome c-1
0,76154437	0,25731	0,678302164	0,00033	CYCS	cytochrome c, somatic
1,164733586	0,05089	1,140763716	0,03017	CYGB	cytoglobin
1,148698355	0,08973	1,164733586	0,01573	CYHR1	cysteine/histidine-rich 1
1,028826708	0,73638	1,159095952	0,04122	CYLD	cylindromatosis (turban tumor syndrome)
1,170398641	0,61095	0,790041312	0,02349	CYLD	cylindromatosis (turban tumor syndrome)
1,094293701	0,47309	1,131314463	0,00453	CYMP	chymosin pseudogene
1,098092814	0,78447	0,808320869	0,03313	CYorf15B	chromosome Y open reading frame 15B
1,085981856	0,40564	1,126619228	0,01463	CYP11B1	cytochrome P450, family 11, subfamily B, polypeptide 1
1,004167543	0,96612	1,180174343	0,00462	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1
1,437936533	0,06801	1,282536603	0,02126	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1
0,973329374	0,79553	1,136029265	0,02383	CYP27A1	cytochrome P450, family 27, subfamily A, polypeptide 1
1,10343374	0,27291	1,162314108	0,01045	CYP2A6	cytochrome P450, family 2, subfamily A, polypeptide 6
1,098854218	0,36956	1,249196126	0,00019	CYP2A6	cytochrome P450, family 2, subfamily A, polypeptide 6
1,123499903	0,2043	1,176906737	0,00188	CYP2A7	cytochrome P450, family 2, subfamily A, polypeptide 7
0,813943185	0,06723	0,851453708	0,00188	CYP2C19	cytochrome P450, family 2, subfamily C, polypeptide 19
0,792234811	0,0834	0,819036698	0,00787	CYP3A4	cytochrome P450, family 3, subfamily A, polypeptide 4
1,274560627	0,05133	1,296839555	0,001	CYP4A11	cytochrome P450, family 4, subfamily A, polypeptide 11
0,942131274	0,66411	1,280759861	0,0082	CYP4B1	cytochrome P450, family 4, subfamily B, polypeptide 1
0,90062598	0,54446	0,834509281	0,00257	CYTH3	cytohesin 3
1,23370717	0,09528	1,210833084	0,01415	CYTH4	cytohesin 4
1,419123356	0,08379	1,31494276	0,00039	CYYR1	cysteine/tyrosine-rich 1
1,082975046	0,50414	1,22010051	0,02714	CYYR1	cysteine/tyrosine-rich 1
1,153485605	0,09334	1,134455485	0,0463	DAB1	disabled homolog 1 (Drosophila)
1,387992719	0,06398	1,472226862	0,00182	DAB2	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
1,147902414	0,09601	1,207480591	0,00189	DAK	dihydroxyacetone kinase 2 homolog (S. cerevisiae)
1,058484395	0,67835	1,264879542	0,00042	DAND5	DAN domain family, member 5
1,316766922	0,16132	1,385109468	0,00004	DAP	death-associated protein
0,864537231	0,09893	0,923382311	0,04357	DAP3	death associated protein 3
1,014662547	0,85797	1,217566019	0,00035	DAPK1	death-associated protein kinase 1
0,727994774	0,297	0,649319301	0,00244	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides
0,752623374	0,05866	0,729004689	0,021	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides
0,750539549	0,05776	0,651573575	0,00064	DARS	aspartyl-tRNA synthetase
1,082975046	0,31792	1,203303026	0,00667	DARS2	aspartyl-tRNA synthetase 2, mitochondrial
0,918276162	0,25996	0,857376037	0,00574	DAZAP1	DAZ associated protein 1
0,803850991	0,12706	0,901875378	0,04632	DAZAP1	DAZ associated protein 1
0,93109482	0,35767	0,829894586	0,00287	DAZAP2	DAZ associated protein 2
1,065108203	0,57658	1,219255094	0,00672	DBC1	deleted in bladder cancer 1
0,908778116	0,64078	0,740719899	0,00032	DBF4	DBF4 homolog (S. cerevisiae)
1,00765376	0,93083	1,170398641	0,00844	DBF4B	DBF4 homolog B (S. cerevisiae)
1,058484395	0,56994	1,105730653	0,03343	DBH-AS1	DBH antisense RNA 1 (non-protein coding)
0,991029563	0,93976	1,23370717	0,00352	DBIL5P2	diazepam binding inhibitor-like 5 pseudogene 2
1,110338834	0,28815	1,241427492	0,00404	DBN1	drebrin 1
0,923382311	0,50111	0,869947353	0,04657	DBR1	debranching enzyme homolog 1 (S. cerevisiae)
0,843815796	0,37255	0,8362464	0,04262	DBR1	debranching enzyme homolog 1 (S. cerevisiae)
0,835087919	0,47007	0,771105413	0,01431	DBT	dihydrolipoamide branched chain transacylase E2
0,577142709	0,05858	0,807760778	0,00203	DCAF10	DDB1 and CUL4 associated factor 10

0,859756486	0,32893	0,71946679	0,00371	DCAF10	DDB1 and CUL4 associated factor 10
0,883927531	0,61257	0,691116103	0,00056	DCAF10	DDB1 and CUL4 associated factor 10
1,030968319	0,79636	0,891928519	0,02389	DCAF12	DDB1 and CUL4 associated factor 12
0,859756486	0,20059	0,793333843	0,00018	DCAF13	DDB1 and CUL4 associated factor 13
0,789493887	0,38226	0,641712949	0	DCAF13	DDB1 and CUL4 associated factor 13
0,952637998	0,48776	0,920825697	0,01748	DCAF4L1	DDB1 and CUL4 associated factor 4-like 1
1,034547582	0,88349	1,251796459	0,00561	DCAF7	DDB1 and CUL4 associated factor 7
0,87175824	0,15604	0,773246337	0,00086	DCAF8	DDB1 and CUL4 associated factor 8
1,202469249	0,08681	1,255271991	0,00095	DCAF8	DDB1 and CUL4 associated factor 8
1,136816973	0,12377	1,165541198	0,01769	DCAF8	DDB1 and CUL4 associated factor 8
1,22010051	0,11211	1,237132479	0,01087	DCC	deleted in colorectal carcinoma
1,113421618	0,26735	1,147107024	0,01894	DCD	dermcidin
1,141554707	0,34596	1,355664327	0,00093	DCHS1	dachsous 1 (Drosophila)
0,860352631	0,54485	0,750539549	0,00155	DCK	deoxycytidine kinase
1,050444544	0,56957	1,099616149	0,04627	DCLK2	doublecortin-like kinase 2
0,869947353	0,12271	0,891310496	0,0092	DCLRE1B	DNA cross-link repair 1B
1,069547088	0,74803	0,782411782	0,00146	DCLRE1B	DNA cross-link repair 1B
1,219255094	0,14523	1,398616083	0,00092	DCN	decorin
1,320422841	0,20309	1,282536603	0,01818	DCN	decorin
1,204137381	0,46543	1,447938172	0,00218	DCN	decorin
1,170398641	0,35475	1,45195828	0,00203	DCN	decorin
1,126619228	0,5601	1,125838586	0,04847	DCPS	decapping enzyme, scavenger
1,142346247	0,14888	1,120389214	0,00454	DCTN2	dynactin 2 (p50)
0,843815796	0,40102	0,811689581	0,00035	DCTN4	dynactin 4 (p62)
0,885767519	0,12249	0,855002178	0,00515	DCTN4	dynactin 4 (p62)
0,778085177	0,09665	0,803850991	0,02081	DCTN6	dynactin 6
0,940826108	0,85156	0,622437118	0,00001	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
1,002081605	0,98987	0,849096246	0,02772	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
0,942784536	0,68455	0,788946841	0,00054	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae)
0,840313752	0,18129	0,839731493	0,00196	DCUN1D2	DCN1, defective in cullin neddylation 1, domain containing 2 (S. cerevisiae)
0,740206649	0,16517	0,747942879	0,00184	DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4 (S. cerevisiae)
0,89564567	0,32813	0,860949188	0,00755	DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae)
0,808320869	0,09187	0,732550437	0,00178	DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae)
0,984184022	0,88312	0,754712984	0,00011	DCUN1D5	DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae)
1,074749173	0,41418	1,200803427	0,00459	DDA1	DET1 and DDB1 associated 1
0,853817714	0,42657	0,813379198	0,00824	DDHD2	DDHD domain containing 2
0,666187413	0,10508	0,714992493	0,00057	DDI2	DNA-damage inducible 1 homolog 2 (S. cerevisiae)
1,046810282	0,66169	1,274560627	0,00019	DDIT3	DNA-damage-inducible transcript 3
1,077733145	0,6657	1,382232207	0,011	DDR2	discoidin domain receptor tyrosine kinase 2
1,249196126	0,20201	1,316766922	0,01587	DDR2	discoidin domain receptor tyrosine kinase 2
1,470187336	0,1352	1,293248932	0,0497	DDR2	discoidin domain receptor tyrosine kinase 2
1,118837101	0,35672	1,284315809	0,00107	DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11
1,072516617	0,45623	1,230291345	0,01188	DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11
1,156688184	0,11274	1,275444392	0,00651	DDX11L2	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 like 2
0,994470169	0,96184	1,123499903	0,02504	DDX17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
0,814507563	0,62363	0,746389192	0,03501	DDX17	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
0,755236293	0,24603	0,87417862	0,00432	DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18
0,776468875	0,2077	0,787307977	0,00449	DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18
0,856781955	0,07378	0,790589117	0,00009	DDX19A	DEAD (Asp-Glu-Ala-As) box polypeptide 19A
0,829319546	0,06645	0,837987135	0,01599	DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20
0,91319825	0,65904	0,736113431	0,00006	DDX20	DEAD (Asp-Glu-Ala-Asp) box polypeptide 20
0,776468875	0,1518	0,70027816	0,00018	DDX21	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21
0,843815796	0,33633	0,852044095	0,0416	DDX24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24
0,922742493	0,23636	1,091263877	0,0407	DDX28	DEAD (Asp-Glu-Ala-Asp) box polypeptide 28
1,0238469	0,81185	1,132883885	0,04326	DDX31	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31
0,852634892	0,47745	0,70027816	0,00018	DDX31	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31
0,948684315	0,85082	1,139183377	0,02906	DDX39A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A
0,935623498	0,49582	0,87175824	0,01158	DDX3Y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked
0,838568184	0,22227	0,696888619	0,0027	DDX3Y	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked
0,733566672	0,05106	0,893165852	0,0255	DDX42	DEAD (Asp-Glu-Ala-Asp) box polypeptide 42
0,942784536	0,74113	0,869947353	0,01562	DDX46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46
0,891310496	0,26141	0,887611337	0,03093	DDX47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47
0,774319028	0,06695	0,847332435	0,00759	DDX49	DEAD (Asp-Glu-Ala-Asp) box polypeptide 49
0,79774524	0,3298	0,760489377	0,00025	DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52
0,733058379	0,12851	0,811689581	0,00021	DDX55	DEAD (Asp-Glu-Ala-Asp) box polypeptide 55
0,916368645	0,30266	0,867538687	0,01302	DDX56	DEAD (Asp-Glu-Ala-Asp) box polypeptide 56
0,96727633	0,82032	0,786762445	0,00036	DDX59	DEAD (Asp-Glu-Ala-Asp) box polypeptide 59
0,787853886	0,11225	0,771105413	0,02527	DDX59	DEAD (Asp-Glu-Ala-Asp) box polypeptide 59
0,93109482	0,63372	0,665725807	0,00849	DDX60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60
0,86154616	0,2589	0,716480825	0,00203	DDX60L	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60-like
1,114966219	0,45364	1,436940177	0,00055	DEFB118	defensin, beta 118
1,172022284	0,16344	1,171210181	0,00128	DEFB119	defensin, beta 119
1,035264924	0,72726	1,237990291	0,00678	DEFB124	defensin, beta 124
0,593779833	0,10747	0,621144141	0,0182	DEFB4A	defensin, beta 4A
0,537374586	0,18485	0,61813763	0,00074	DEGS1	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)
0,950659101	0,61097	0,816768991	0,02629	DENND1A	DENN/MADD domain containing 1A
1,17609125	0,08392	1,21167266	0,01469	DENND1A	DENN/MADD domain containing 1A
1,172834949	0,64355	0,78024548	0,02077	DENND1B	DENN/MADD domain containing 1B
1,159095952	0,44716	0,762600827	0,00892	DENND1B	DENN/MADD domain containing 1B
1,047536127	0,88034	0,674083866	0,0022	DENND1B	DENN/MADD domain containing 1B
1,085229372	0,3467	1,113421618	0,00884	DENND2A	DENN/MADD domain containing 2A
0,774319028	0,06176	0,87539133	0,01794	DENND2D	DENN/MADD domain containing 2D
1,173648178	0,34118	1,184271612	0,00074	DENND4B	DENN/MADD domain containing 4B
0,652025368	0,0515	0,751580739	0,00299	DENND4C	DENN/MADD domain containing 4C
1,043188594	0,74607	0,864537231	0,02632	DENND4C	DENN/MADD domain containing 4C
1,359428242	0,08104	1,261377409	0,00136	DENND5A	DENN/MADD domain containing 5A
0,680657058	0,06355	0,747424624	0,00016	DENR	density-regulated protein
0,924663278	0,28257	0,828744904	0,00855	DENR	density-regulated protein
0,721964598	0,07614	0,673616788	0,01328	DENR	density-regulated protein
1,047536127	0,6667	1,153485605	0,03569	DEPDC5	DEP domain containing 5
0,868742185	0,57071	0,709070018	0,0096	DEPDC7	DEP domain containing 7
0,820172911	0,21118	0,736623843	0,0001	DERA	deoxyribose-phosphate aldolase (putative)
1,040300267	0,85901	1,223488041	0,00555	DGAT1	diacylglycerol O-acyltransferase 1
1,184271612	0,05241	1,187559666	0,00344	DGCR14	DiGeorge syndrome critical region gene 14
1,068805991	0,37545	1,197478705	0,00242	DGCR2	DiGeorge syndrome critical region gene 2
1,076986376	0,39044	1,097331938	0,04571	DGCR5	DiGeorge syndrome critical region gene 5 (non-protein coding)
0,965267025	0,72815	1,128182137	0,00702	DGCR9	DiGeorge syndrome critical region gene 9
0,610050255	0,13818	0,779704843	0,03263	DGKA	diacylglycerol kinase, alpha 80kDa
1,273677475	0,08487	1,343503426	0,00126	DGKD	diacylglycerol kinase, delta 130kDa
1,067325338	0,48297	1,180992661	0,00256	DHDDS	dehydrodolichyl diphosphate synthase
0,718470088	0,07739	0,863339559	0,01948	DHFR	dihydrofolate reductase
0,746389192	0,13834	0,775930854	0,00061	DHFR	dihydrofolate reductase
0,971307496	0,77804	0,921464186	0,04174	DHODH	dihydroorotate dehydrogenase (quinone)
0,876605721	0,49352	1,189207115	0,00777	DHPS	deoxyhypusine synthase

0,983502074	0,91707	1,126619228	0,01846	DHPS	deoxyhypusine synthase
0,877213549	0,62643	1,187559666	0,00556	DHPS	deoxyhypusine synthase
1,344434994	0,0658	1,504203751	0,00609	DHRS9	dehydrogenase/reductase (SDR family) member 9
1,167158102	0,48456	1,487613762	0,01044	DHRS9	dehydrogenase/reductase (SDR family) member 9
1,155085785	0,48845	1,559409685	0,00714	DHRS9	dehydrogenase/reductase (SDR family) member 9
1,171210181	0,10695	1,162314108	0,01589	DHRSX	dehydrogenase/reductase (SDR family) X-linked
0,832775771	0,45912	1,190856849	0,04746	DHTKD1	dehydrogenase E1 and transketolase domain containing 1
0,647521499	0,05903	0,760489377	0,00002	DHX29	DEAH (Asp-Glu-Ala-His) box polypeptide 29
1,019597683	0,89946	0,839731493	0,04379	DHX30	DEAH (Asp-Glu-Ala-His) box polypeptide 30
0,818469182	0,06743	0,852634892	0,03909	DHX33	DEAH (Asp-Glu-Ala-His) box polypeptide 33
1,030968319	0,78991	1,153485605	0,0337	DHX34	DEAH (Asp-Glu-Ala-His) box polypeptide 34
1,2397077	0,10974	1,356604327	0	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35
1,068065408	0,51719	1,270150983	0,01196	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35
0,937571096	0,60488	0,849096246	0,02567	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36
0,8362464	0,58136	0,750019495	0,00027	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36
0,881480158	0,76265	0,775393206	0,00007	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36
0,733058379	0,07902	0,742261785	0,00546	DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40
0,757333158	0,1557	0,774319028	0,02399	DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40
0,777546036	0,09428	0,917004043	0,02969	DHX8	DEAH (Asp-Glu-Ala-His) box polypeptide 8
0,815072332	0,05051	0,836826243	0,00564	DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9
0,947370071	0,40873	0,899378312	0,01867	DIAPH1	diaphanous homolog 1 (Drosophila)
0,713012859	0,08344	0,816768991	0,00058	DIAPH1	diaphanous homolog 1 (Drosophila)
0,835666959	0,24715	0,885767519	0,03668	DIAPH1	diaphanous homolog 1 (Drosophila)
0,557096825	0,20408	0,542238704	0,00024	DICER1	dicer 1, ribonuclease type III
0,817902059	0,30233	0,828744904	0,0023	DICER1	dicer 1, ribonuclease type III
0,944747041	0,89244	0,684441907	0,00099	DICER1	dicer 1, ribonuclease type III
0,765248385	0,06805	0,709561678	0,0003	DIDO1	death inducer-obliterator 1
0,854409741	0,51013	0,76418826	0,00104	DIEXF	digestive organ expansion factor homolog (zebrafish)
0,884540435	0,39944	0,795536484	0,00023	DIMT1	DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae)
0,708578698	0,08367	0,71946679	0,01025	DIMT1	DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae)
0,939522749	0,66427	0,85086373	0,0043	DIMT1	DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae)
0,584388624	0,05072	0,616853585	0,01106	DIO2	deiodinase, iodothyronine, type II
0,920187651	0,40845	1,182631	0,01826	DIO3OS	DIO3 opposite strand/antisense RNA (non-protein coding)
0,987600861	0,84538	1,119612889	0,00887	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)
1,169587664	0,08706	1,260503392	0,00424	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)
0,801069878	0,09193	0,840313752	0,00425	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)
0,995159722	0,95752	0,899378312	0,0254	DIRC2	disrupted in renal carcinoma 2
0,989656656	0,96532	0,74277646	0,03259	DIS3	DIS3 mitotic control homolog (S. cerevisiae)
0,729004689	0,07461	0,770037174	0,00151	DIS3L2	DIS3 mitotic control homolog (S. cerevisiae)-like 2
0,891928519	0,58923	0,757333158	0,00526	DIS3L2	DIS3 mitotic control homolog (S. cerevisiae)-like 2
0,90000193	0,33647	0,86934456	0,01238	DISP1	dispatched homolog 1 (Drosophila)
0,733566672	0,09772	0,746389192	0,00183	DKC1	dyskeratosis congenita 1, dyskerin
0,800514811	0,10573	0,756283999	0,00004	DKC1	dyskeratosis congenita 1, dyskerin
0,735093668	0,16814	0,768437591	0,00026	DKC1	dyskeratosis congenita 1, dyskerin
1,054091423	0,61828	1,23370717	0,00046	DKFZP434A06	hypothetical LOC26102
1,146312186	0,14859	1,108032348	0,03497	DKFZP434C15	DKFZP434C153 protein
1,091263877	0,47351	1,179356592	0,00547	DKFZp434E11	hypothetical DKFZp434E1119
0,809442217	0,39034	0,680185426	0,00651	DKK3	dickkopf homolog 3 (Xenopus laevis)
0,788946841	0,20339	0,807201075	0,04653	DLAT	dihydrolipoamide S-acetyltransferase
0,802737389	0,29141	0,773246337	0,00209	DLAT	dihydrolipoamide S-acetyltransferase
0,997922719	0,98218	1,120389214	0,02355	DLC1	deleted in liver cancer 1
1,301341855	0,05619	1,367935304	0,00265	DLC1	deleted in liver cancer 1
0,752101876	0,10804	0,709561678	0,00124	DLD	dihydrolipoamide dehydrogenase
0,784040454	0,20063	0,652929894	0,00048	DLD	dihydrolipoamide dehydrogenase
1,135242102	0,32015	1,400556321	0,00004	DLEC1	deleted in lung and esophageal cancer 1
0,787307977	0,05534	0,798298386	0,00061	DLEU1	deleted in lymphocytic leukemia 1 (non-protein coding)
1,139973273	0,32325	1,117287138	0,03289	DLEU2	deleted in lymphocytic leukemia 2 (non-protein coding)
0,741233505	0,1817	0,826450318	0,01913	DLG1	discs, large homolog 1 (Drosophila)
0,90000193	0,42392	0,772175133	0,00174	DLG2	discs, large homolog 2 (Drosophila)
1,074004472	0,54816	1,131314463	0,04054	DLGAP1	discs, large (Drosophila) homolog-associated protein 1
1,112650121	0,20244	1,125058485	0,00454	DLGAP2	discs, large (Drosophila) homolog-associated protein 2
1,147902414	0,14976	1,104198847	0,02133	DLL3	delta-like 3 (Drosophila)
1,252664439	0,05129	1,21335356	0,00343	DLL4	delta-like 4 (Drosophila)
1,033114388	0,85432	1,25092908	0,00806	DLST	dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex)
0,942784536	0,55652	1,155085785	0,02011	DLX1	distal-less homeobox 1
1,008352455	0,91543	1,108800644	0,03649	DLX6	distal-less homeobox 6
0,996540263	0,972	1,210833084	0,00571	DMBT1	deleted in malignant brain tumors 1
0,746906729	0,17824	0,744838732	0,00144	DMXL1	Dmx-like 1
1,051172909	0,64889	1,299539062	0,00012	DMXL2	Dmx-like 2
1,227735684	0,08317	1,339783602	0,00278	DNAAF1	dynein, axonemal, assembly factor 1
0,964598185	0,84093	0,79940583	0,03022	DNAAF2	dynein, axonemal, assembly factor 2
1,155886707	0,12336	1,252664439	0,00001	DNAH1	dynein, axonemal, heavy chain 1
0,980779004	0,80859	1,097331938	0,02958	DNAH1	dynein, axonemal, heavy chain 1
1,188383105	0,2092	1,188383105	0,00527	DNAH1	dynein, axonemal, heavy chain 1
1,086734863	0,38938	1,183451022	0,00632	DNAH1	dynein, axonemal, heavy chain 1
1,057018041	0,46127	1,111879158	0,00506	DNAH3	dynein, axonemal, heavy chain 3
1,105730653	0,34963	1,186736798	0,02849	DNAH6	dynein, axonemal, heavy chain 6
1,079228237	0,31048	1,172834949	0,00731	DNAI1	dynein, axonemal, intermediate chain 1
0,935623498	0,73796	0,880259014	0,01968	DNAJA1	DnaJ (Hsp40) homolog, subfamily A, member 1
0,895025071	0,4835	0,76684133	0,00935	DNAJA2	DnaJ (Hsp40) homolog, subfamily A, member 2
1,094293701	0,72155	1,144724161	0,01849	DNAJB11	DnaJ (Hsp40) homolog, subfamily B, member 11
1,035982764	0,71474	1,131314463	0,00964	DNAJB13	DnaJ (Hsp40) homolog, subfamily B, member 13
0,938871747	0,80535	0,720464874	0,00003	DNAJB14	DnaJ (Hsp40) homolog, subfamily B, member 14
0,873572896	0,72248	0,697371833	0,00439	DNAJB14	DnaJ (Hsp40) homolog, subfamily B, member 14
1,109569472	0,1941	1,120389214	0,02272	DNAJB8-AS1	DNAJB8 antisense RNA 1 (non-protein coding)
1,159899655	0,2026	1,186736798	0,02643	DNAJC1	DnaJ (Hsp40) homolog, subfamily C, member 1
1,909242028	0,10661	1,370782805	0,00298	DNAJC1	DnaJ (Hsp40) homolog, subfamily C, member 1
1,638073396	0,22304	1,218410264	0,01394	DNAJC1	DnaJ (Hsp40) homolog, subfamily C, member 1
0,997922719	0,97989	0,90062598	0,03064	DNAJC12	DnaJ (Hsp40) homolog, subfamily C, member 12
1,114193651	0,20673	1,138394029	0,04676	DNAJC16	DnaJ (Hsp40) homolog, subfamily C, member 16
1,084477409	0,24093	1,215036792	0,01089	DNAJC18	DnaJ (Hsp40) homolog, subfamily C, member 18
1,286989247	0,07325	1,251796459	0,00493	DNAJC18	DnaJ (Hsp40) homolog, subfamily C, member 18
0,844400887	0,13952	0,86934456	0,04325	DNAJC19	DnaJ (Hsp40) homolog, subfamily C, member 19
0,759962428	0,22054	0,662044455	0,00001	DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21
0,646624466	0,09353	0,680657058	0,00047	DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21
0,880259014	0,24794	0,819604608	0,00155	DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21
0,932386486	0,33931	0,8962667	0,02523	DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21
0,789493887	0,05677	0,816768991	0,00468	DNAJC21	DnaJ (Hsp40) homolog, subfamily C, member 21
1,066585781	0,47969	1,152686347	0,00713	DNAJC22	DnaJ (Hsp40) homolog, subfamily C, member 22
0,85027416	0,14424	0,881480158	0,01961	DNAJC24	DnaJ (Hsp40) homolog, subfamily C, member 24
0,862143545	0,2138	0,727490342	0,00123	DNAJC24	DnaJ (Hsp40) homolog, subfamily C, member 24
0,933032992	0,77505	0,780786493	0,00164	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27
0,991029563	0,92154	0,91383145	0,04478	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27
0,884540435	0,49417	0,827596816	0,00971	DNAJC27	DnaJ (Hsp40) homolog, subfamily C, member 27

0,942131274	0,402	0,890075733	0,00527	DNAJC28	DnaJ (Hsp40) homolog, subfamily C, member 28
1,162314108	0,71024	0,644834125	0,00023	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3
1,257884972	0,16068	1,172022284	0,02777	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3
1,092777739	0,47242	1,132883885	0,0151	DNAJC30	DnaJ (Hsp40) homolog, subfamily C, member 30
1,024556823	0,93206	1,304954948	0,00051	DNAJC4	DnaJ (Hsp40) homolog, subfamily C, member 4
1,068805991	0,79441	1,297738767	0,00917	DNAJC4	DnaJ (Hsp40) homolog, subfamily C, member 4
1,132098902	0,19395	1,163120042	0,01433	DNAJC5G	DnaJ (Hsp40) homolog, subfamily C, member 5 gamma
0,905633983	0,37102	0,815637493	0,01549	DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7
0,951977908	0,6923	1,284315809	0,00565	DNAJC7	DnaJ (Hsp40) homolog, subfamily C, member 7
0,971307496	0,74962	0,906890329	0,0187	DNAJC8	DnaJ (Hsp40) homolog, subfamily C, member 8
0,715984371	0,08037	0,655196702	0,00008	DNAJC9	DnaJ (Hsp40) homolog, subfamily C, member 9
1,076240125	0,55525	1,163120042	0,00951	DNASE1	deoxyribonuclease I
0,958599438	0,84565	1,104964485	0,03135	DNASE1L1	deoxyribonuclease I-like 1
0,974679631	0,88833	1,28788163	0,01054	DNASE1L3	deoxyribonuclease I-like 3
1,061423209	0,73924	1,199139914	0,00173	DNASE2	deoxyribonuclease II, lysosomal
1,065846736	0,77871	1,248330549	0,00925	DNASE2	deoxyribonuclease II, lysosomal
0,749499801	0,54209	0,551334582	0,00579	DNER	delta/notch-like EGF repeat containing
1,059952783	0,54731	1,223488041	0,01045	DNHD1	dynein heavy chain domain 1
0,729510172	0,05792	0,811127156	0,04433	DNM1L	dynamin 1-like
0,730522189	0,11663	0,784584098	0,0002	DNM1L	dynamin 1-like
1,236275261	0,05859	1,180992661	0,00442	DNM2	dynamin 2
0,754712984	0,11967	0,886381699	0,02839	DNMBP	dynamin binding protein
0,993092495	0,93071	1,111879158	0,04388	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha
0,91319825	0,3657	0,893165852	0,02741	DNPEP	aspartyl aminopeptidase
0,993092495	0,9545	0,901250463	0,02541	DNTT	deoxynucleotidyltransferase, terminal
1,171210181	0,28671	1,22858698	0,01269	DOC2B	double C2-like domains, beta
0,837406488	0,14834	0,739693755	0,00012	DOCK1	dedicator of cytokinesis 1
1,046810282	0,61238	1,114193651	0,02233	DOCK3	dedicator of cytokinesis 3
0,711531731	0,0751	0,783497187	0,00263	DOCK7	dedicator of cytokinesis 7
1,325007017	0,08271	1,4054187	0,00197	DOCK8	dedicator of cytokinesis 8
0,625031151	0,05436	0,647072827	0,00188	DOCK9	dedicator of cytokinesis 9
1,040300267	0,65731	1,161508732	0,02024	DOCK9	dedicator of cytokinesis 9
0,887611337	0,62686	0,713012859	0,00039	DOCK9	dedicator of cytokinesis 9
1,147107024	0,20341	1,150291893	0,01966	DOK1	docking protein 1, 62kDa (downstream of tyrosine kinase 1)
1,221793102	0,0666	1,304050735	0,00343	DOK2	docking protein 2, 56kDa
0,810003474	0,10014	0,831622098	0,03281	DOK4	docking protein 4
1,262252032	0,06436	1,139973273	0,02495	DOK5	docking protein 5
1,169587664	0,09045	1,143138335	0,00399	DOK7	docking protein 7
1,059952783	0,3998	1,134455485	0,00838	DOLPP1	dolichyl pyrophosphate phosphatase 1
1,118061851	0,3986	1,366987452	0,00002	DOM3Z	dom-3 homolog Z (C. elegans)
1,167967395	0,05038	1,214194884	0,00121	DOM3Z	dom-3 homolog Z (C. elegans)
0,862143545	0,27157	0,847332435	0,0223	DONSON	downstream neighbor of SON
0,816768991	0,08551	0,786217292	0,02231	DOPEY1	dopey family member 1
0,743806881	0,07115	0,81056512	0,01671	DOPEY1	dopey family member 1
0,880869374	0,53027	0,846158597	0,03861	DOPEY2	dopey family member 2
1,002776436	0,98325	0,816768991	0,00806	DOT1L	DOT1-like, histone H3 methyltransferase (S. cerevisiae)
0,919550046	0,52425	0,786217292	0,00429	DPH3	DPH3, KTI11 homolog (S. cerevisiae)
0,856781955	0,47878	0,812815602	0,00823	DPH3	DPH3, KTI11 homolog (S. cerevisiae)
0,922742493	0,41042	0,866937564	0,00213	DPH3P1	DPH3, KTI11 homolog (S. cerevisiae) pseudogene 1
0,744838732	0,13878	0,859756486	0,00321	DPH5	DPH5 homolog (S. cerevisiae)
0,840896415	0,21693	0,733058379	0,00061	DPM1	dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit
1,207480591	0,2154	1,208317843	0,00113	DPM3	dolichyl-phosphate mannosyltransferase polypeptide 3
0,995849753	0,96911	1,21335356	0,00503	DPP4	dipeptidyl-peptidase 4
1,264879542	0,23136	1,277213759	0,01832	DPP7	dipeptidyl-peptidase 7
0,880869374	0,16677	0,856188285	0,02547	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)
0,783497187	0,30761	0,804966138	0,0166	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)
0,830470024	0,15967	0,789493887	0,0055	DR1	down-regulator of transcription 1, TBP-binding (negative cofactor 2)
0,727994774	0,21355	0,774319028	0,01579	DRAP1	DR1-associated protein 1 (negative cofactor 2 alpha)
1,043911927	0,65544	1,142346247	0,02161	DRD2	dopamine receptor D2
1,089752112	0,36866	1,144724161	0,02788	DRD2	dopamine receptor D2
1,22603486	0,07186	1,232852325	0,00036	DRD5	dopamine receptor D5
0,936921447	0,62681	1,125838586	0,01918	DRG2	developmentally regulated GTP binding protein 2
0,723467443	0,06843	0,813943185	0,00351	DROSHA	drosha, ribonuclease type III
1,222640278	0,09977	1,204137381	0,02848	DRP2	dystrophin related protein 2
1,106497353	0,33188	1,252664439	0,01434	DSCAM	Down syndrome cell adhesion molecule
0,940826108	0,55363	1,119612889	0,02046	DSCAM-AS1	DSCAM antisense RNA 1 (non-protein coding)
0,955945318	0,74105	0,817335328	0,00449	DSCC1	defective in sister chromatid cohesion 1 homolog (S. cerevisiae)
1,108800644	0,29491	1,139973273	0,02778	DSCR10	Down syndrome critical region gene 10 (non-protein coding)
1,163926534	0,1528	1,163926534	0,00512	DSCR9	Down syndrome critical region gene 9 (non-protein coding)
0,987600861	0,88768	0,917639882	0,03184	DSE	dermatan sulfate epimerase
0,823591017	0,07116	0,865736566	0,00738	DSTNP2	destrin (actin depolymerizing factor) pseudogene 2
0,651573575	0,09439	0,820172911	0,00506	DSTYK	dual serine/threonine and tyrosine protein kinase
0,849096246	0,42428	0,739693755	0,00133	DTL	denticleless homolog (Drosophila)
1,003471749	0,96887	1,186736798	0,01012	DTNA	dystrobrevin, alpha
0,974679631	0,78174	1,209994089	0,00096	DTNA	dystrobrevin, alpha
0,965936329	0,75688	1,135242102	0,03021	DTNA	dystrobrevin, alpha
1,038859103	0,55986	1,092020546	0,03204	DTNA	dystrobrevin, alpha
1,155085785	0,14704	1,17772279	0,02259	DTX1	deltex homolog 1 (Drosophila)
1,019597683	0,88606	1,214194884	0,00295	DTX2P1-UPK3	DTX2P1-UPK3BP1-PMS2P11 readthrough (non-protein coding)
1,107264584	0,35485	1,311302014	0,00065	DTX3	deltex homolog 3 (Drosophila)
1,22010051	0,20974	1,437936533	0,00003	DTX4	deltex homolog 4 (Drosophila)
0,986232704	0,8841	0,87417862	0,02249	DUS4L	dihydrouridine synthase 4-like (S. cerevisiae)
0,813943185	0,0614	0,811689581	0,00557	DUSP11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting)
1,094293701	0,25293	1,174461971	0,02018	DUSP13	dual specificity phosphatase 13
0,882702996	0,16286	0,879039561	0,04594	DUSP22	dual specificity phosphatase 22
0,85027416	0,05023	0,811689581	0,00406	DUSP23	dual specificity phosphatase 23
0,821310701	0,05558	0,723969086	0,00225	DUSP7	dual specificity phosphatase 7
1,151089491	0,21158	1,167158102	0,00071	DUSP8	dual specificity phosphatase 8
0,851453708	0,39059	0,780786493	0,00529	DUT	deoxyuridine triphosphatase
0,837987135	0,20826	0,847919965	0,02532	DUT	deoxyuridine triphosphatase
1,130530567	0,29192	1,189207115	0,00432	DUX1	double homeobox 1
1,234562607	0,06166	1,197478705	0,0176	DUXAP10	double homeobox A pseudogene 10
0,765248385	0,11132	0,831622098	0,0383	DVL1	dishevelled, dsh homolog 1 (Drosophila)
1,184271612	0,11827	1,147902414	0,01679	DVL2	dishevelled, dsh homolog 2 (Drosophila)
1,105730653	0,20346	1,155886707	0,01371	DVL2	dishevelled, dsh homolog 2 (Drosophila)
0,829894586	0,15654	0,89564567	0,03974	DYM	dymeclin
0,86934456	0,06792	0,880869374	0,04287	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1
0,593368399	0,07519	0,548285794	0,00002	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1
0,894404902	0,24324	0,86934456	0,01412	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1
1,207480591	0,0735	1,21167266	0,01584	DYNC1I1	dynein, cytoplasmic 1, intermediate chain 1
0,773782497	0,44387	0,842062954	0,00547	DYNC1LI2	dynein, cytoplasmic 1, light intermediate chain 2
1,065846736	0,65589	0,873572896	0,01755	DYNC2LI1	dynein, cytoplasmic 2, light intermediate chain 1
0,786217292	0,11889	0,800514811	0,00622	DYNC2LI1	dynein, cytoplasmic 2, light intermediate chain 1
0,7944344	0,39321	0,757858283	0,00362	DYNC2LI1	dynein, cytoplasmic 2, light intermediate chain 1

0,887611337	0,37925	0,872362706	0,03913	DYNC2LI1	dynein, cytoplasmic 2, light intermediate chain 1
0,993092495	0,93726	1,112650121	0,01372	DYNLRB1	dynein, light chain, roadblock-type 1
0,86934456	0,47255	0,847919965	0,0143	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
0,70759708	0,10061	0,683020128	0,00006	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
0,70759708	0,22148	0,578745108	0,00095	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
1,118837101	0,23492	1,184271612	0,01113	DYSFIP1	dysferlin interacting protein 1
1,126619228	0,27364	0,901875378	0,04134	DZIP3	DAZ interacting protein 3, zinc finger
1,157490217	0,25967	1,273677475	0,0007	E2F4	E2F transcription factor 4, p107/p130-binding
1,054091423	0,67314	1,169587664	0,01109	E2F5	E2F transcription factor 5, p130-binding
0,862143545	0,1606	0,834509281	0,01299	E2F6	E2F transcription factor 6
1,193335743	0,51492	0,701249625	0	E2F7	E2F transcription factor 7
0,832775771	0,38304	0,610896551	0,00003	E2F8	E2F transcription factor 8
0,986232704	0,84975	0,823591017	0,00061	EARS2	glutamyl-tRNA synthetase 2, mitochondrial (putative)
0,928516852	0,69141	0,901250463	0,04518	EBAG9	estrogen receptor binding site associated, antigen, 9
1,938579634	0,05013	1,565908593	0,0024	EBF1	early B-cell factor 1
1,364147835	0,09588	1,45296505	0,00382	EBF1	early B-cell factor 1
1,286097483	0,08002	1,179356592	0,0152	EBF3	early B-cell factor 3
1,025267238	0,7422	1,198309021	0,01069	EBF3	early B-cell factor 3
0,753145233	0,07955	0,815637493	0,01098	EBP	emopamil binding protein (sterol isomerase)
1,25353302	0,12784	1,237132479	0,00825	ECE1	endothelin converting enzyme 1
0,960594864	0,63801	1,164733586	0,01274	ECE2	endothelin converting enzyme 2
0,662503509	0,06727	0,750539549	0,03688	ECHDC1	enoyl CoA hydratase domain containing 1
0,787853886	0,25767	0,845572287	0,00295	ECHDC1	enoyl CoA hydratase domain containing 1
1,511519928	0,21144	1,604362333	0,00055	ECM1	extracellular matrix protein 1
1,086734863	0,30612	1,149494848	0,01828	ECM2	extracellular matrix protein 2, female organ and adipocyte specific
1,070288698	0,68269	1,511519928	0,00001	ECSCR	endothelial cell-specific chemotaxis regulator
0,789493887	0,46222	0,764718139	0,00733	ECT2	epithelial cell transforming sequence 2 oncogene
1,110338834	0,27251	1,128182137	0,01814	EDA	ectodysplasin A
0,935623498	0,35576	1,125838586	0,00312	EDA	ectodysplasin A
1,02313747	0,7574	1,120389214	0,04514	EDA	ectodysplasin A
1,556170353	0,08803	1,439931319	0,00008	EDEM2	ER degradation enhancer, mannosidase alpha-like 2
0,97063447	0,82867	1,411275843	0,01	EDIL3	EGF-like repeats and discoidin I-like domains 3
1,135242102	0,52099	1,266634254	0,02296	EDIL3	EGF-like repeats and discoidin I-like domains 3
0,637280314	0,06803	0,660211421	0,00286	EEA1	early endosome antigen 1
1,054091423	0,78932	0,806641759	0,00697	EED	embryonic ectoderm development
0,801069878	0,17033	0,768970416	0,00283	EEF1A1	eukaryotic translation elongation factor 1 alpha 1
0,862143545	0,27102	0,79940583	0,00949	EEF1E1	eukaryotic translation elongation factor 1 epsilon 1
0,998614666	0,98569	1,192508872	0,00089	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1
0,940174203	0,53258	0,877213549	0,01953	EFCAB1	EF-hand calcium binding domain 1
0,903752727	0,39558	0,859160755	0,01441	EFCAB11	EF-hand calcium binding domain 11
1,132098902	0,5053	0,832198735	0,01987	EFCAB2	EF-hand calcium binding domain 2
1,354724977	0,06981	1,352848231	0,00238	EFCAB4A	EF-hand calcium binding domain 4A
1,148698355	0,16293	1,128182137	0,01384	EFCAB5	EF-hand calcium binding domain 5
1,127400412	0,55744	0,899378312	0,02638	EFCAB6	EF-hand calcium binding domain 6
1,051901779	0,67113	1,204137381	0,02341	EFCAB6	EF-hand calcium binding domain 6
0,928516852	0,71113	0,790589117	0,01985	EFCAB7	EF-hand calcium binding domain 7
0,944092419	0,79894	0,803293997	0,02612	EFEMP1	EGF containing fibulin-like extracellular matrix protein 1
1,198309021	0,42691	1,503161478	0,00079	EFEMP2	EGF containing fibulin-like extracellular matrix protein 2
0,835087919	0,42498	0,76684133	0,00055	EFHA1	EF-hand domain family, member A1
0,756283999	0,1244	0,865136691	0,02553	EFHC1	EF-hand domain (C-terminal) containing 1
1,003471749	0,97976	0,797192477	0,00324	EFHC2	EF-hand domain (C-terminal) containing 2
0,507331273	0,12028	0,617709319	0,01125	EFNA5	ephrin-A5
0,713012859	0,36219	0,711531731	0,00323	EFNB2	ephrin-B2
0,815072332	0,28925	0,827023368	0,0023	EFR3A	EFR3 homolog A (S. cerevisiae)
1,297738767	0,05576	1,261377409	0,00021	EFR3B	EFR3 homolog B (S. cerevisiae)
1,322254605	0,10699	1,464085696	0,00473	EGFL7	EGF-like-domain, multiple 7
1,426025717	0,0817	1,335148303	0,03589	EGFR	epidermal growth factor receptor
0,597081594	0,30816	0,622868708	0,00007	EGFR	epidermal growth factor receptor
1,038139271	0,59458	1,125838586	0,02489	EGFR	epidermal growth factor receptor
1,025978145	0,7821	1,17772279	0,00909	EGFR	epidermal growth factor receptor
0,867538687	0,21951	0,791685866	0,01357	EGLN1	egl nine homolog 1 (C. elegans)
1,168777249	0,19071	1,208317843	0,00223	EGLN2	egl nine homolog 2 (C. elegans)
0,698823486	0,21803	0,671286251	0,00224	EGLN3	egl nine homolog 3 (C. elegans)
1,121166078	0,13638	1,184271612	0,02022	EGOT	eosinophil granule ontogeny transcript (non-protein coding)
0,995159722	0,96843	0,888226796	0,03144	EGR4	early growth response 4
0,71449707	0,1371	0,752623374	0,00119	EHBP1	EH domain binding protein 1
0,651122095	0,0871	0,873572896	0,04593	EHF	ets homologous factor
0,823020345	0,20841	0,831045862	0,00072	EHMT1	euchromatic histone-lysine N-methyltransferase 1
0,984866443	0,87354	1,236275261	0,00021	EHMT2	euchromatic histone-lysine N-methyltransferase 2
0,831622098	0,1093	0,815072332	0,04014	EID2	EP300 interacting inhibitor of differentiation 2
0,959929261	0,58454	0,924022572	0,03168	EIF1	eukaryotic translation initiation factor 1
1,098092814	0,56057	0,868742185	0,01202	EIF1	eukaryotic translation initiation factor 1
0,952637998	0,62871	0,909408252	0,0413	EIF1AD	eukaryotic translation initiation factor 1A domain containing
0,887611337	0,38728	0,813379198	0,0006	EIF1AD	eukaryotic translation initiation factor 1A domain containing
0,666187413	0,08088	0,653835674	0,00064	EIF1AX	eukaryotic translation initiation factor 1A, X-linked
0,732550437	0,12021	0,689680461	0,00077	EIF1AX	eukaryotic translation initiation factor 1A, X-linked
0,865136691	0,55209	0,768970416	0,00014	EIF1AX	eukaryotic translation initiation factor 1A, X-linked
1,130530567	0,23437	0,878430468	0,03318	EIF1AY	eukaryotic translation initiation factor 1A, Y-linked
0,980779004	0,83774	0,867538687	0,04519	EIF1AY	eukaryotic translation initiation factor 1A, Y-linked
0,925946023	0,4806	0,750539549	0,00096	EIF1B	eukaryotic translation initiation factor 1B
0,857376037	0,29711	0,87417862	0,01464	EIF2A	eukaryotic translation initiation factor 2A, 65kDa
0,749499801	0,05552	0,847919965	0,00168	EIF2B1	eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa
0,820741609	0,05054	0,822450069	0,00229	EIF2B2	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa
0,895025071	0,34492	0,854409741	0,00121	EIF2B5	eukaryotic translation initiation factor 2B, subunit 5 epsilon, 82kDa
0,945402117	0,62588	0,857376037	0,02907	EIF2C1	eukaryotic translation initiation factor 2C, 1
0,70027816	0,13713	0,726482525	0,00023	EIF2C2	eukaryotic translation initiation factor 2C, 2
0,714992493	0,06784	0,799960128	0,00403	EIF2C2	eukaryotic translation initiation factor 2C, 2
0,658383461	0,2227	0,602903914	0,00013	EIF2C2	eukaryotic translation initiation factor 2C, 2
0,792234811	0,35388	0,595428425	0,00013	EIF2C2	eukaryotic translation initiation factor 2C, 2
0,872967591	0,48611	0,780786493	0,00187	EIF2C3	eukaryotic translation initiation factor 2C, 3
0,808320869	0,06721	0,828170661	0,02038	EIF2C4	eukaryotic translation initiation factor 2C, 4
0,951318276	0,5403	0,862741345	0,02514	EIF2C4	eukaryotic translation initiation factor 2C, 4
0,638164384	0,06593	0,711038705	0,0024	EIF2C4	eukaryotic translation initiation factor 2C, 4
0,920825697	0,42813	0,858565436	0,01594	EIF2D	eukaryotic translation initiation factor 2D
0,779704843	0,07755	0,752623374	0,00001	EIF2S1	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa
0,577943353	0,05935	0,720464874	0,00023	EIF2S1	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa
0,816203046	0,05494	0,855595026	0,01511	EIF2S1	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa
0,612592666	0,08411	0,879039561	0,04938	EIF2S2	eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
0,887611337	0,34023	0,859756486	0,00383	EIF2S3	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa
0,922742493	0,63346	0,893785162	0,04267	EIF3A	eukaryotic translation initiation factor 3, subunit A
0,598324482	0,07636	0,77271055	0,00053	EIF3A	eukaryotic translation initiation factor 3, subunit A
0,749499801	0,23649	0,77916458	0,01283	EIF3B	eukaryotic translation initiation factor 3, subunit B
0,908778116	0,38945	0,797192477	0,01902	EIF3B	eukaryotic translation initiation factor 3, subunit B
0,650220073	0,08237	0,782411782	0,00019	EIF3B	eukaryotic translation initiation factor 3, subunit B

0,87539133	0,65568	0,588861395	0,00085	EIF3C	eukaryotic translation initiation factor 3, subunit C
0,639492791	0,05993	0,859160755	0,00484	EIF3E	eukaryotic translation initiation factor 3, subunit E
0,77271055	0,05247	0,807201075	0,00005	EIF3M	eukaryotic translation initiation factor 3, subunit M
1,292352831	0,25096	0,842062954	0,04258	EIF3M	eukaryotic translation initiation factor 3, subunit M
0,638164384	0,06528	0,653382627	0,00041	EIF4E	eukaryotic translation initiation factor 4E
0,77271055	0,29644	0,804408371	0,00805	EIF4E	eukaryotic translation initiation factor 4E
0,733566672	0,09216	0,86154616	0,01237	EIF4E2	eukaryotic translation initiation factor 4E family member 2
0,831622098	0,10709	0,788946841	0,00018	EIF4E2	eukaryotic translation initiation factor 4E family member 2
1,025978145	0,91634	0,846158597	0,03267	EIF4E3	eukaryotic translation initiation factor 4E family member 3
0,839731493	0,10333	0,788946841	0,02085	EIF4E3	eukaryotic translation initiation factor 4E family member 3
0,830470024	0,32921	0,77916458	0,00379	EIF4E3	eukaryotic translation initiation factor 4E family member 3
0,791685866	0,19408	0,62676651	0,01206	EIF4E3	eukaryotic translation initiation factor 4E family member 3
0,84264683	0,07939	0,871154192	0,01431	EIF4ENIF1	eukaryotic translation initiation factor 4E nuclear import factor 1
0,662044455	0,26924	0,797192477	0,02047	EIF4G1	eukaryotic translation initiation factor 4 gamma, 1
0,69495911	0,09235	0,810003474	0,00243	EIF4G3	eukaryotic translation initiation factor 4 gamma, 3
0,575943821	0,08052	0,806641759	0,03575	EIF5	eukaryotic translation initiation factor 5
0,581560021	0,08424	0,857376037	0,0331	EIF5	eukaryotic translation initiation factor 5
0,70514898	0,11886	0,834509281	0,01272	EIF5B	eukaryotic translation initiation factor 5B
0,806641759	0,31532	0,842062954	0,02095	EIF5B	eukaryotic translation initiation factor 5B
0,756283999	0,17956	0,780786493	0,03639	EIF5B	eukaryotic translation initiation factor 5B
0,647072827	0,0735	0,71548826	0,00017	EIF5B	eukaryotic translation initiation factor 5B
1,062159186	0,56883	1,111108729	0,01139	ELAVL3	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 3 (Hu antigen C)
1,581178233	0,05929	1,275444392	0,03645	ELF3	E74-like factor 3 (ets domain transcription factor, epithelial-specific)
0,984866443	0,8754	0,898755127	0,03335	ELF4	E74-like factor 4 (ets domain transcription factor)
1,248330549	0,09761	1,193335743	0,01714	ELFN1	extracellular leucine-rich repeat and fibronectin type III domain containing 1
0,999307093	0,99331	1,155085785	0,03973	ELFN2	extracellular leucine-rich repeat and fibronectin type III domain containing 2
1,068065408	0,66032	1,163926534	0,01574	ELK1	ELK1, member of ETS oncogene family
0,957271458	0,90157	0,788946841	0,03211	ELK4	ELK4, ETS-domain protein (SRF accessory protein 1)
1,009051634	0,9415	0,8962667	0,0496	ELL2	elongation factor, RNA polymerase II, 2
0,743806881	0,05749	0,71449707	0,00043	ELL2	elongation factor, RNA polymerase II, 2
0,878430468	0,41275	1,25092908	0,04658	ELN	elastin
0,51015233	0,05658	0,817335328	0,03047	ELOVL1	ELOVL fatty acid elongase 1
0,698823486	0,18246	0,675955417	0,00012	ELOVL6	ELOVL fatty acid elongase 6
0,774855931	0,07393	0,687770909	0	ELOVL6	ELOVL fatty acid elongase 6
1,229438867	0,18434	1,460032011	0,00158	EMCN	endomucin
1,601029621	0,05977	1,308578071	0,00792	EMCN	endomucin
1,050444544	0,59678	1,138394029	0,01446	EMD	emerin
1,024556823	0,84468	1,204137381	0,0031	EME1	essential meiotic endonuclease 1 homolog 1 (S. pombe)
1,209155676	0,07717	1,145517898	0,0133	EME2	essential meiotic endonuclease 1 homolog 2 (S. pombe)
1,159899655	0,23193	1,244874235	0,00199	EMID1	EMI domain containing 1
1,215036792	0,40896	1,440929749	0,00891	EMILIN1	elastin microfibril interfacer 1
1,165541198	0,07089	1,125058485	0,0082	EMILIN2	elastin microfibril interfacer 2
0,731028724	0,25684	0,642603169	0,00052	EML1	echinoderm microtubule associated protein like 1
1,014662547	0,88448	1,173648178	0,0013	EML2	echinoderm microtubule associated protein like 2
1,136029265	0,3994	1,295940965	0,00123	EML2	echinoderm microtubule associated protein like 2
0,687294348	0,18457	0,711531731	0,00161	EML4	echinoderm microtubule associated protein like 4
1,003471749	0,98568	0,664342907	0,00001	EML5	echinoderm microtubule associated protein like 5
0,777546036	0,18912	0,889458994	0,02116	EMP2	epithelial membrane protein 2
1,114193651	0,7171	1,522033381	0,00077	EMP3	epithelial membrane protein 3
1,231144413	0,0656	1,229438867	0,00461	EMR1	egf-like module containing, mucin-like, hormone receptor-like 1
1,064370182	0,4584	1,167967395	0,00215	EMX1	empty spiracles homeobox 1
0,989656656	0,90537	1,131314463	0,02466	EMX2OS	EMX2 opposite strand/antisense RNA (non-protein coding)
0,842062954	0,31328	0,737134609	0,00001	ENAH	enabled homolog (Drosophila)
0,701735863	0,14723	0,767905135	0,00615	ENAH	enabled homolog (Drosophila)
0,875998315	0,40226	0,62981499	0,00005	ENC1	ectodermal-neural cortex 1 (with BTB-like domain)
0,868742185	0,26363	0,843815796	0,01558	ENDOG	endonuclease G
1,333298677	0,20539	1,31494276	0,01064	ENG	endoglin
0,995849753	0,97679	1,173648178	0,0444	ENGASE	endo-beta-N-acetylglucosaminidase
0,969289817	0,81488	1,165541198	0,01752	ENGASE	endo-beta-N-acetylglucosaminidase
1,081474763	0,44593	1,163120042	0,01441	ENHO	energy homeostasis associated
0,820741609	0,17131	0,669427628	0,00026	ENOPH1	enolase-phosphatase 1
0,791137301	0,1386	0,784040454	0,00001	ENOSF1	enolase superfamily member 1
0,777546036	0,12311	0,885767519	0,0282	ENOX2	ecto-NOX disulfide-thiol exchanger 2
1,144724161	0,19687	1,141554707	0,03588	ENOX2	ecto-NOX disulfide-thiol exchanger 2
0,819036698	0,10345	0,797192477	0,00031	ENOX2	ecto-NOX disulfide-thiol exchanger 2
1,146312186	0,24011	1,232852325	0,00225	ENPP3	ectonucleotide pyrophosphatase/phosphodiesterase 3
0,977385766	0,8389	0,835666959	0,00517	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
1,068805991	0,48307	1,221793102	0,00848	ENTPD2	ectonucleoside triphosphate diphosphohydrolase 2
0,79940583	0,2501	0,806082831	0,0091	ENTPD3	ectonucleoside triphosphate diphosphohydrolase 3
0,786762445	0,0548	0,832775771	0,01834	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5
1,111108729	0,43587	1,185914499	0,01984	ENTPD6	ectonucleoside triphosphate diphosphohydrolase 6 (putative)
0,782411782	0,1165	0,795536484	0,00653	ENY2	enhancer of yellow 2 homolog (Drosophila)
0,74277646	0,17984	0,741747467	0,00125	EP300	E1A binding protein p300
0,862143545	0,20488	0,888226796	0,04145	EP400	E1A binding protein p400
1,113421618	0,20753	1,180174343	0,03209	EP400	E1A binding protein p400
1,084477409	0,40616	1,163926534	0,0143	EP400NL	EP400 N-terminal like
0,783497187	0,08874	0,824733549	0,0044	EPAG	early lymphoid activation protein
1,012554807	0,92118	1,299539062	0,00065	EPB41L2	erythrocyte membrane protein band 4.1-like 2
0,791685866	0,17778	0,835087919	0,00343	EPB41L4A	erythrocyte membrane protein band 4.1 like 4A
0,693515485	0,18898	0,636838738	0,00017	EPB41L5	erythrocyte membrane protein band 4.1 like 5
0,87417862	0,65243	0,708578698	0,00609	EPB41L5	erythrocyte membrane protein band 4.1 like 5
1,272794935	0,06812	1,132883885	0,00738	EPB42	erythrocyte membrane protein band 4.2
1,041021598	0,65294	1,115739322	0,03213	EPHA10	EPH receptor A10
1,098854218	0,31222	1,134455485	0,02183	EPHA10	EPH receptor A10
0,689680461	0,09524	0,789493887	0,00497	EPHA4	EPH receptor A4
0,70027816	0,18348	0,782954296	0,03701	EPHA4	EPH receptor A4
1,088242442	0,43096	1,146312186	0,04278	EPHA5	EPH receptor A5
1,065108203	0,47116	1,140763716	0,01631	EPHA6	EPH receptor A6
0,893785162	0,35731	1,183451022	0,00413	EPHA8	EPH receptor A8
1,193335743	0,08906	1,165541198	0,03935	EPHB1	EPH receptor B1
1,123499903	0,37617	1,268391399	0,0014	EPHB2	EPH receptor B2
1,101905116	0,41396	1,217566019	0,00564	EPHB2	EPH receptor B2
0,828744904	0,05867	0,860352631	0,01601	EPHB3	EPH receptor B3
0,971307496	0,81296	0,839149637	0,0036	EPM2A	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)
0,840896415	0,2321	0,868140228	0,02088	EPM2AIP1	EPM2A (laforin) interacting protein 1
1,030968319	0,82947	1,125058485	0,02643	EPPK1	epiplakin 1
0,701249625	0,299	0,751580739	0,00018	EPRS	glutamyl-prolyl-tRNA synthetase
0,756283999	0,08251	0,883315051	0,00428	EPRS	glutamyl-prolyl-tRNA synthetase
0,911301281	0,32911	0,856781955	0,01339	EPS15L1	epidermal growth factor receptor pathway substrate 15-like 1
0,811127156	0,12207	0,884540435	0,03481	EPS15L1	epidermal growth factor receptor pathway substrate 15-like 1
0,90062598	0,62313	0,741747467	0,01032	EPT1	ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)
0,910669834	0,42688	0,86154616	0,03226	EPT1	ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific)
1,048989328	0,74039	0,866336856	0,03707	ERAP1	endoplasmic reticulum aminopeptidase 1
0,904379378	0,63229	0,852634892	0,0256	ERBB2IP	erbb2 interacting protein

0,76630998	0,34563	0,884540435	0,01616	ERC1	ELKS/RAB6-interacting/CAST family member 1
0,765248385	0,24987	0,635075491	0,0347	ERC2	ELKS/RAB6-interacting/CAST family member 2
0,906890329	0,65829	1,199139914	0,00244	ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)
1,077733145	0,3305	1,199971382	0,00625	ERCC4	excision repair cross-complementing rodent repair deficiency, complementation group 4
1,085229372	0,37036	0,933032992	0,04078	ERCC8	excision repair cross-complementing rodent repair deficiency, complementation group 8
1,156688184	0,27128	1,278985581	0,00012	ERF	Ets2 repressor factor
1,341642225	0,08917	1,280759861	0,03672	ERG	v-ets erythroblastosis virus E26 oncogene homolog (avian)
1,240567298	0,14267	1,286989247	0,0026	ERGIC1	endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1
0,883315051	0,48966	0,827596816	0,0461	ERGIC2	ERGIC and golgi 2
1,00486382	0,95807	0,883927531	0,01379	ERGIC3	ERGIC and golgi 3
0,943438251	0,88225	1,267512522	0,00099	ERGIC3	ERGIC and golgi 3
0,72597914	0,08842	0,823591017	0,02789	ERI1	exoribonuclease 1
1,068065408	0,55206	0,831045862	0,00861	ERI1	exoribonuclease 1
0,657927263	0,10355	0,690637224	0,00016	ERI2	ERI1 exoribonuclease family member 2
0,866937564	0,2217	0,823020345	0,03337	ERICH1	glutamate-rich 1
0,79774524	0,14152	0,829319546	0,00033	ERLIN1	ER lipid raft associated 1
0,69399636	0,09343	0,812252396	0,0331	ERMP1	endoplasmic reticulum metallopeptidase 1
1,121943481	0,29621	1,172834949	0,00654	ERN1	endoplasmic reticulum to nucleus signaling 1
1,033114388	0,89279	1,235418637	0,00069	ERP29	endoplasmic reticulum protein 29
0,953298545	0,64732	0,824733549	0,00935	ERP44	endoplasmic reticulum protein 44
0,91319825	0,52072	0,687770909	0,00001	ERP44	endoplasmic reticulum protein 44
1,168777249	0,31864	1,295042999	0,00277	ERVH-1	endogenous retrovirus group H, member 1
1,087488391	0,34253	1,174461971	0,00246	ERVV-1	endogenous retrovirus group V, member 1
1,069547088	0,52938	1,146312186	0,02757	ERVW-1	endogenous retrovirus group W, member 1
0,832198735	0,37415	0,802737389	0,00787	ESCO1	establishment of cohesion 1 homolog 1 (S. cerevisiae)
0,751580739	0,10295	0,628942486	0,00012	ESCO1	establishment of cohesion 1 homolog 1 (S. cerevisiae)
0,965267025	0,8803	0,826450318	0,0245	ESD	esterase D
0,827596816	0,18005	0,821880187	0,00211	ESD	esterase D
0,967947027	0,83949	0,700763725	0,00328	ESF1	ESF1, nucleolar pre-rRNA processing protein, homolog (S. cerevisiae)
1,088242442	0,46717	1,29145735	0,00119	ESPNL	espin-like
0,961260928	0,68221	1,17772279	0,00636	ESPNL	espin-like
0,994470169	0,94747	1,120389214	0,04899	ESR1	estrogen receptor 1
1,085981856	0,47688	1,188383105	0,03503	ESR1	estrogen receptor 1
1,092020546	0,23981	1,133669413	0,01506	ESR1	estrogen receptor 1
1,234562607	0,0569	1,276328769	0,00381	ESR2	estrogen receptor 2 (ER beta)
0,936272247	0,6713	1,145517898	0,03118	ESRRA	estrogen-related receptor alpha
1,126619228	0,31482	1,270150983	0,00134	ESYT1	extended synaptotagmin-like protein 1
0,816768991	0,2852	0,786762445	0,00619	ESYT2	extended synaptotagmin-like protein 2
0,991716731	0,95216	0,846745312	0,02256	ESYT2	extended synaptotagmin-like protein 2
0,939522749	0,70843	0,807760778	0,00721	ETAA1	Ewing tumor-associated antigen 1
0,773246337	0,0526	0,745872013	0,00064	ETFA	electron-transfer-flavoprotein, alpha polypeptide
1,21335356	0,06083	1,306765254	0,00036	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
1,463071221	0,05126	1,338855257	0,00209	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
0,882702996	0,2721	1,113421618	0,03987	ETV4	ets variant 4
0,940174203	0,60677	0,90000193	0,04238	ETV6	ets variant 6
1,091263877	0,26656	1,327765158	0,00116	ETV6	ets variant 6
1,102669163	0,3632	1,199971382	0,02275	ETV6	ets variant 6
1,22010051	0,10989	1,214194884	0,00926	ETV7	ets variant 7
0,951977908	0,60067	0,871154192	0,02073	EVI5	ecotropic viral integration site 5
1,285206337	0,21527	1,365093718	0,00583	EVL	Enah/Vasp-like
1,244011653	0,19841	1,204137381	0,03387	EVL	Enah/Vasp-like
0,74277646	0,1127	0,823591017	0,00221	EXOC1	exocyst complex component 1
0,785128119	0,13059	0,821310701	0,00213	EXOC2	exocyst complex component 2
0,648869383	0,0694	0,863938187	0,01455	EXOC3	exocyst complex component 3
1,066585781	0,42074	1,220946513	0,00091	EXOC3L1	exocyst complex component 3-like 1
1,155085785	0,1293	1,313121125	0,00018	EXOC3L2	exocyst complex component 3-like 2
0,846745312	0,58563	0,753667455	0,02481	EXOC5	exocyst complex component 5
0,868140228	0,4975	0,783497187	0,00021	EXOC5	exocyst complex component 5
0,922742493	0,74377	0,736623843	0,02258	EXOC5	exocyst complex component 5
1,209155676	0,07443	1,184271612	0,00132	EXOC6	exocyst complex component 6
0,976708529	0,87754	1,112650121	0,02956	EXOC7	exocyst complex component 7
0,758909626	0,17762	0,681129017	0,00003	EXOC8	exocyst complex component 8
0,931740429	0,27352	0,910038824	0,04203	EXOG	endo/exonuclease (5'-3'), endonuclease G-like
1,022428531	0,84415	1,161508732	0,03083	EXOSC10	exosome component 10
0,925304428	0,43032	0,817902059	0,00245	EXOSC2	exosome component 2
0,883315051	0,13697	0,803293997	0,0016	EXOSC3	exosome component 3
0,776468875	0,1147	0,857376037	0,00967	EXOSC6	exosome component 6
0,855595026	0,46378	0,835087919	0,00043	EXT1	exostosin 1
0,832775771	0,50216	0,729004689	0,00064	EXT1	exostosin 1
0,97063447	0,80367	1,224336392	0,00008	EZH1	enhancer of zeste homolog 1 (Drosophila)
0,855595026	0,0887	0,882091365	0,04925	EZH1	enhancer of zeste homolog 1 (Drosophila)
0,645281245	0,11963	0,768437591	0,00246	EZH2	enhancer of zeste homolog 2 (Drosophila)
0,47204621	0,12318	0,654742712	0,04022	EZR	ezrin
0,891310496	0,33962	0,886996305	0,01963	F11R	F11 receptor
1,151887642	0,13719	1,102669163	0,01846	F2R	coagulation factor II (thrombin) receptor
1,188383105	0,07433	1,160703914	0,01281	F5	coagulation factor V (proaccelerin, labile factor)
1,208317843	0,06574	1,147107024	0,03325	F7	coagulation factor VII (serum prothrombin conversion accelerator)
0,868742185	0,11043	0,811127156	0,00302	FAAH2	fatty acid amide hydrolase 2
1,077733145	0,43007	1,123499903	0,04208	FABP1	fatty acid binding protein 1, liver
1,225185332	0,34383	1,396678532	0,00186	FADS1	fatty acid desaturase 1
1,238848698	0,15399	1,204972315	0,01338	FADS3	fatty acid desaturase 3
0,622005827	0,06066	0,904379378	0,02928	FAF1	Fas (TNFRSF6) associated factor 1
0,930449658	0,40055	0,853226098	0,0106	FAF1	Fas (TNFRSF6) associated factor 1
0,723969086	0,06764	0,653835674	0	FAHD1	fumarylacetoacetate hydrolase domain containing 1
1,016774673	0,89118	1,130530567	0,02768	FAHD2A	fumarylacetoacetate hydrolase domain containing 2A
1,134455485	0,12288	1,196648963	0,00255	FAM101A	family with sequence similarity 101, member A
0,739181216	0,10806	0,753667455	0,02585	FAM103A1	family with sequence similarity 103, member A1
0,944092419	0,39368	0,840313752	0,00096	FAM104B	family with sequence similarity 104, member B
0,886381699	0,14186	0,874784765	0,01514	FAM104B	family with sequence similarity 104, member B
0,986916546	0,87629	1,122721422	0,03019	FAM105A	family with sequence similarity 105, member A
1,207480591	0,24698	1,126619228	0,02235	FAM105A	family with sequence similarity 105, member A
1,061423209	0,48679	1,175276328	0,01926	FAM105B	family with sequence similarity 105, member B
1,164733586	0,05967	1,136029265	0,01462	FAM107A	family with sequence similarity 107, member A
1,114193651	0,21303	1,152686347	0,03725	FAM109B	family with sequence similarity 109, member B
1,078480432	0,49369	1,226884977	0,00143	FAM111A	family with sequence similarity 111, member A
0,925946023	0,5993	1,209994089	0,0188	FAM113A	family with sequence similarity 113, member A
0,909408252	0,51586	1,185092771	0,0433	FAM115A	family with sequence similarity 115, member A
0,93109482	0,68956	0,846158597	0,02184	FAM116A	family with sequence similarity 116, member A
0,942784536	0,73514	0,801069878	0,03768	FAM117B	family with sequence similarity 117, member B
0,727994774	0,25175	0,748980467	0,00834	FAM117B	family with sequence similarity 117, member B
0,891928519	0,58825	0,849684999	0,01126	FAM118B	family with sequence similarity 118, member B
1,164733586	0,36199	1,149494848	0,03553	FAM120A	family with sequence similarity 120A
0,925304428	0,81413	0,808881348	0,00258	FAM120A	family with sequence similarity 120A
1,035264924	0,66472	1,189207115	0,007	FAM120AOS	family with sequence similarity 120A opposite strand

0,860352631	0,45297	0,812252396	0,00356	FAM120C	family with sequence similarity 120C
0,934327347	0,74018	0,834509281	0,01519	FAM122B	family with sequence similarity 122B
1,040300267	0,87336	0,853817714	0,04357	FAM122B	family with sequence similarity 122B
1,186736798	0,16254	1,150291893	0,00382	FAM122C	family with sequence similarity 122C
1,099616149	0,24803	1,111879158	0,04784	FAM125B	family with sequence similarity 125, member B
0,863938187	0,51527	0,692554734	0,00058	FAM126A	family with sequence similarity 126, member A
0,768970416	0,16372	0,684441907	0,009	FAM126A	family with sequence similarity 126, member A
0,743291492	0,4013	0,607518396	0	FAM126B	family with sequence similarity 126, member B
0,771105413	0,27308	0,724973416	0,03015	FAM126B	family with sequence similarity 126, member B
0,858565436	0,08295	0,832775771	0,00577	FAM134A	family with sequence similarity 134, member A
0,846745312	0,05931	0,773782497	0,0003	FAM134A	family with sequence similarity 134, member A
0,807760778	0,31255	0,802181166	0,00918	FAM134B	family with sequence similarity 134, member B
0,635075491	0,07694	0,713507253	0,00108	FAM135A	family with sequence similarity 135, member A
1,024556823	0,82359	1,098092814	0,04472	FAM135B	family with sequence similarity 135, member B
1,263127262	0,07339	1,216722359	0,01737	FAM13A	family with sequence similarity 13, member A
0,841479482	0,43992	0,748980467	0,01538	FAM13B	family with sequence similarity 13, member B
1,194991205	0,07481	1,146312186	0,04472	FAM149A	family with sequence similarity 149, member A
0,922742493	0,46107	1,114193651	0,01672	FAM151A	family with sequence similarity 151, member A
1,176906737	0,12801	1,152686347	0,01229	FAM153A	family with sequence similarity 153, member A
1,093535457	0,37867	1,141554707	0,01373	FAM154A	family with sequence similarity 154, member A
1,466116757	0,055	1,148698355	0,01544	FAM155A	family with sequence similarity 155, member A
1,267512522	0,05419	1,215879283	0,00109	FAM159A	family with sequence similarity 159, member A
0,925304428	0,71909	0,798298386	0,02003	FAM161A	family with sequence similarity 161, member A
0,693515485	0,16957	0,569986636	0,00002	FAM162A	family with sequence similarity 162, member A
1,136816973	0,13081	1,126619228	0,03039	FAM163A	family with sequence similarity 163, member A
1,111879158	0,24006	1,191682575	0,00532	FAM163A	family with sequence similarity 163, member A
0,78132788	0,05699	0,763129604	0,00098	FAM164A	family with sequence similarity 164, member A
0,927873476	0,7541	0,760489377	0,00297	FAM164A	family with sequence similarity 164, member A
1,181811547	0,05167	1,163926534	0,00575	FAM166B	family with sequence similarity 166, member B
1,033114388	0,79621	0,889458994	0,02599	FAM168A	family with sequence similarity 168, member A
1,001387256	0,99188	0,743806881	0,00125	FAM169A	family with sequence similarity 169, member A
0,879649076	0,29857	0,831622098	0,01511	FAM170A	family with sequence similarity 170, member A
0,763129604	0,26191	0,764718139	0,00056	FAM172A	family with sequence similarity 172, member A
1,057018041	0,67797	0,755236293	0,00033	FAM174A	family with sequence similarity 174, member A
0,951977908	0,80414	0,702222438	0,00036	FAM175A	family with sequence similarity 175, member A
0,734075318	0,05034	0,798851916	0,03954	FAM175B	family with sequence similarity 175, member B
1,161508732	0,41507	1,262252032	0,00413	FAM176B	family with sequence similarity 176, member B
1,172834949	0,27137	1,272794935	0,00957	FAM176B	family with sequence similarity 176, member B
0,656560563	0,09868	0,644834125	0,00001	FAM177A1	family with sequence similarity 177, member A1
1,049716684	0,70852	1,281647924	0,00136	FAM178B	family with sequence similarity 178, member B
1,172834949	0,07965	1,140763716	0,01692	FAM179A	family with sequence similarity 179, member A
0,895025071	0,66095	0,748980467	0,00281	FAM179B	family with sequence similarity 179, member B
0,993781093	0,94612	0,923382311	0,04877	FAM181B	family with sequence similarity 181, member B
0,919550046	0,48842	1,121166078	0,02102	FAM184B	family with sequence similarity 184, member B
1,21335356	0,22729	1,292352831	0,00431	FAM186B	family with sequence similarity 186, member B
1,033114388	0,77783	0,852634892	0,03517	FAM188A	family with sequence similarity 188, member A
1,10343374	0,2913	1,194163187	0,00329	FAM188B	family with sequence similarity 188, member B
0,786217292	0,111	0,863339559	0,02206	FAM189A2	family with sequence similarity 189, member A2
0,959929261	0,83646	0,819036698	0,04439	FAM18B1	family with sequence similarity 18, member B1
0,758383773	0,21241	0,800514811	0,00199	FAM190B	family with sequence similarity 190, member B
0,839731493	0,26821	1,146312186	0,009	FAM192A	family with sequence similarity 192, member A
0,899378312	0,45583	1,118837101	0,0434	FAM193B	family with sequence similarity 193, member B
1,120389214	0,39648	1,25353302	0,00392	FAM195A	family with sequence similarity 195, member A
1,155886707	0,21361	1,221793102	0,00782	FAM195B	family with sequence similarity 195, member B
0,919550046	0,68795	0,868742185	0,03749	FAM199X	family with sequence similarity 199, X-linked
0,934975198	0,78337	0,816768991	0,00476	FAM199X	family with sequence similarity 199, X-linked
0,777546036	0,0996	0,772175133	0,00378	FAM200A	family with sequence similarity 200, member A
0,752101876	0,06091	0,752101876	0,00939	FAM200A	family with sequence similarity 200, member A
0,863938187	0,48121	0,757333158	0,01355	FAM200B	family with sequence similarity 200, member B
1,066585781	0,61697	1,173648178	0,00736	FAM203A	family with sequence similarity 203, member A
1,062159186	0,52131	0,866937564	0,01385	FAM204A	family with sequence similarity 204, member A
0,76630998	0,20782	0,752101876	0,00986	FAM204A	family with sequence similarity 204, member A
0,986232704	0,87784	1,17609125	0,01425	FAM205A	family with sequence similarity 205, member A
1,10343374	0,25263	1,131314463	0,02238	FAM205B	transmembrane protein C9orf144B pseudogene
1,623379162	0,08684	1,756860936	0	FAM20A	family with sequence similarity 20, member A
1,540074348	0,10012	1,480413298	0,02802	FAM20A	family with sequence similarity 20, member A
1,51887169	0,16435	1,537940831	0,00103	FAM20A	family with sequence similarity 20, member A
0,772175133	0,30001	0,725476104	0,00032	FAM20B	family with sequence similarity 20, member B
0,685391402	0,06599	0,785672517	0	FAM20B	family with sequence similarity 20, member B
1,498999602	0,1027	1,571345033	0,00028	FAM20C	family with sequence similarity 20, member C
1,182631	0,14629	1,243149669	0,00064	FAM20C	family with sequence similarity 20, member C
1,147902414	0,14723	1,258757174	0,01722	FAM26E	family with sequence similarity 26, member E
0,741233505	0,08585	0,910038824	0,03242	FAM32A	family with sequence similarity 32, member A
0,801069878	0,14857	0,768970416	0,00013	FAM35A	family with sequence similarity 35, member A
0,768437591	0,12425	0,793333843	0,00326	FAM36A	family with sequence similarity 36, member A
0,865736566	0,30002	0,74277646	0,02883	FAM3D	family with sequence similarity 3, member D
0,756808396	0,05365	0,853817714	0,01358	FAM40A	family with sequence similarity 40, member A
1,250062303	0,19745	1,197478705	0,04172	FAM40B	family with sequence similarity 40, member B
0,785672517	0,05175	0,727490342	0,00355	FAM43A	family with sequence similarity 43, member A
0,775930854	0,31177	0,793883931	0,00097	FAM45A	family with sequence similarity 45, member A
1,135242102	0,15908	1,134455485	0,01154	FAM46A	family with sequence similarity 46, member A
0,748980467	0,32056	1,234562607	0,03942	FAM50A	family with sequence similarity 50, member A
1,154285418	0,11035	1,106497353	0,02242	FAM53B	family with sequence similarity 53, member B
0,926588062	0,32189	0,886996305	0,04591	FAM58A	family with sequence similarity 58, member A
0,563309614	0,10558	0,534032704	0,00007	FAM59A	family with sequence similarity 59, member A
1,176906737	0,17298	1,16634937	0,00784	FAM59B	family with sequence similarity 59, member B
0,953298545	0,61084	1,162314108	0,01608	FAM59B	family with sequence similarity 59, member B
0,695440986	0,18836	0,685866644	0,00269	FAM60A	family with sequence similarity 60, member A
1,157490217	0,4967	1,209155676	0,01977	FAM65A	family with sequence similarity 65, member A
1,132098902	0,40543	1,28788163	0,00011	FAM65A	family with sequence similarity 65, member A
1,20163605	0,2087	1,147107024	0,04806	FAM65A	family with sequence similarity 65, member A
1,368883813	0,07602	1,295940965	0,01064	FAM69A	family with sequence similarity 69, member A
1,242288282	0,08729	1,207480591	0,0373	FAM70B	family with sequence similarity 70, member B
0,976031761	0,83155	1,160703914	0,00483	FAM71B	family with sequence similarity 71, member B
1,092777739	0,23627	1,20664392	0,00161	FAM71B	family with sequence similarity 71, member B
1,033830736	0,70081	1,231144413	0,00069	FAM71D	family with sequence similarity 71, member D
1,148698355	0,24243	1,112650121	0,02184	FAM71E2	family with sequence similarity 71, member E2
1,058484395	0,52796	1,125838586	0,02404	FAM71F1	family with sequence similarity 71, member F1
0,918276162	0,64208	0,792784137	0,00676	FAM76A	family with sequence similarity 76, member A
0,651122095	0,13166	0,645728675	0,01478	FAM76A	family with sequence similarity 76, member A
0,76950361	0,43897	0,686818117	0,03083	FAM76B	family with sequence similarity 76, member B
0,903752727	0,64577	0,801069878	0,0177	FAM76B	family with sequence similarity 76, member B
1,087488391	0,55368	1,189207115	0,00425	FAM78B	family with sequence similarity 78, member B
1,025978145	0,83219	1,195819797	0,02841	FAM81A	family with sequence similarity 81, member A

0,920825697	0,63557	0,780786493	0,00164	FAM82B	family with sequence similarity 82, member B
0,808320869	0,39969	0,758383773	0,00585	FAM83A	family with sequence similarity 83, member A
0,675018993	0,15028	0,779704843	0,01146	FAM83H	family with sequence similarity 83, member H
0,729510172	0,08239	0,77916458	0,01138	FAM84A	family with sequence similarity 84, member A
0,706127202	0,22062	0,706616822	0,00429	FAM84A	family with sequence similarity 84, member A
1,001387256	0,9929	0,748980467	0,00518	FAM84A	family with sequence similarity 84, member A
0,802737389	0,30727	0,749499801	0,01024	FAM84B	family with sequence similarity 84, member B
1,091263877	0,43374	1,140763716	0,01824	FAM87A	family with sequence similarity 87, member A
0,741233505	0,37194	0,538493188	0,00004	FAM98A	family with sequence similarity 98, member A
0,852634892	0,26839	0,767905135	0,00467	FAM98A	family with sequence similarity 98, member A
0,832775771	0,27042	0,760489377	0,00104	FAM98B	family with sequence similarity 98, member B
1,106497353	0,23984	1,137605228	0,02302	FANCA	Fanconi anemia, complementation group A
1,136816973	0,26816	1,2397077	0,00185	FANCC	Fanconi anemia, complementation group C
1,17609125	0,17177	1,153485605	0,03822	FANCG	Fanconi anemia, complementation group G
0,757858283	0,06306	0,765778999	0,00043	FANCI	Fanconi anemia, complementation group I
1,043188594	0,68633	1,276328769	0,00525	FANCI	Fanconi anemia, complementation group I
0,76418826	0,14917	0,724471077	0,00222	FANCL	Fanconi anemia, complementation group L
0,886381699	0,21911	0,849096246	0,03996	FANCM	Fanconi anemia, complementation group M
0,927873476	0,6113	0,774319028	0,0008	FANCM	Fanconi anemia, complementation group M
0,789493887	0,1245	0,811127156	0,0059	FANK1	fibronectin type III and ankyrin repeat domains 1
1,262252032	0,11258	1,508380077	0,0189	FAP	fibroblast activation protein, alpha
0,746389192	0,15616	0,808881348	0,02125	FAR1	fatty acyl CoA reductase 1
1,051901779	0,63486	1,121166078	0,01266	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)
1,212512819	0,17066	1,292352831	0,00076	FARP1	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)
0,933032992	0,83363	0,633317127	0,00001	FARSB	phenylalanyl-tRNA synthetase, beta subunit
0,675018993	0,1382	0,698339266	0,03497	FAS	Fas (TNF receptor superfamily, member 6)
0,827596816	0,43008	0,711038705	0,02197	FAS	Fas (TNF receptor superfamily, member 6)
1,114193651	0,43444	1,240567298	0,00877	FASTK	Fas-activated serine/threonine kinase
1,0132569	0,93841	1,143138335	0,04802	FASTK	Fas-activated serine/threonine kinase
1,016070143	0,91492	1,185092771	0,00189	FASTK	Fas-activated serine/threonine kinase
0,915733686	0,58108	0,751059963	0,00623	FASTKD2	FAST kinase domains 2
0,899378312	0,4987	0,704172113	0,00011	FASTKD3	FAST kinase domains 3
0,717474767	0,09565	0,831622098	0,03036	FASTKD5	FAST kinase domains 5
0,993781093	0,9717	0,794985251	0,04138	FAT1	FAT tumor suppressor homolog 1 (Drosophila)
1,17772279	0,1494	1,29145735	0,00004	FATE1	fetal and adult testis expressed 1
1,271913007	0,20374	1,327765158	0,00703	FBLN1	fibulin 1
1,216722359	0,58797	1,303147149	0,04618	FBLN1	fibulin 1
1,107264584	0,46864	1,143138335	0,03235	FBLN1	fibulin 1
0,977385766	0,90335	1,319507911	0,00886	FBLN2	fibulin 2
1,171210181	0,48066	1,384149716	0,00299	FBLN5	fibulin 5
1,071030823	0,7751	1,41029796	0,04408	FBN1	fibrillin 1
1,481439798	0,05058	1,48246701	0,01357	FBN1	fibrillin 1
1,38991822	0,17368	1,325007017	0,01836	FBN1	fibrillin 1
0,781869643	0,38	0,815072332	0,0289	FBRSL1	fibrosin-like 1
0,987600861	0,92353	0,844400887	0,00683	FBRSL1	fibrosin-like 1
1,086734863	0,39226	1,170398641	0,00319	FBRSL1	fibrosin-like 1
0,852044095	0,12996	0,85797053	0,00949	FBXL14	F-box and leucine-rich repeat protein 14
0,940174203	0,56895	0,740206649	0,00113	FBXL16	F-box and leucine-rich repeat protein 16
0,977385766	0,92034	0,834509281	0,02159	FBXL17	F-box and leucine-rich repeat protein 17
1,001387256	0,98664	0,898755127	0,03729	FBXL17	F-box and leucine-rich repeat protein 17
1,285206337	0,06258	1,350037985	0,00081	FBXL18	F-box and leucine-rich repeat protein 18
1,267512522	0,108	1,278985581	0,00297	FBXL18	F-box and leucine-rich repeat protein 18
0,933032992	0,60964	0,754712984	0,00511	FBXL4	F-box and leucine-rich repeat protein 4
0,85797053	0,3383	0,782954296	0,00433	FBXL5	F-box and leucine-rich repeat protein 5
1,051901779	0,73545	0,837406488	0,00348	FBXO11	F-box protein 11
0,890075733	0,42339	0,84323111	0,00805	FBXO11	F-box protein 11
1,284315809	0,14353	1,256142381	0,0067	FBXO18	F-box protein, helicase, 18
1,22010051	0,10077	1,155886707	0,01398	FBXO2	F-box protein 2
1,114193651	0,767	0,784584098	0,00807	FBXO21	F-box protein 21
0,839149637	0,14253	0,853817714	0,02221	FBXO21	F-box protein 21
1,117287138	0,58369	0,867538687	0,02707	FBXO22	F-box protein 22
0,831622098	0,28655	0,772175133	0,01802	FBXO28	F-box protein 28
0,818469182	0,22004	0,808881348	0,04954	FBXO28	F-box protein 28
0,593368399	0,07821	0,610896551	0,00011	FBXO3	F-box protein 3
0,911933166	0,36995	0,867538687	0,00134	FBXO3	F-box protein 3
0,958599438	0,80811	0,713507253	0,00424	FBXO30	F-box protein 30
1,119612889	0,19886	1,164733586	0,03892	FBXO31	F-box protein 31
1,035264924	0,83503	0,792234811	0,00317	FBXO33	F-box protein 33
0,936921447	0,76996	0,802737389	0,00881	FBXO38	F-box protein 38
0,804408371	0,0697	0,880259014	0,02124	FBXO38	F-box protein 38
0,911933166	0,37202	0,906261938	0,03719	FBXO42	F-box protein 42
0,717474767	0,05574	0,729004689	0	FBXO45	F-box protein 45
0,956608158	0,77565	0,820741609	0,01903	FBXO5	F-box protein 5
0,8362464	0,24444	0,735093668	0,03621	FBXO8	F-box protein 8
0,856188285	0,52672	0,772175133	0,00041	FBXO8	F-box protein 8
0,744322628	0,13348	0,806641759	0,03188	FBXO9	F-box protein 9
0,751580739	0,18507	0,798851916	0,0342	FBXO9	F-box protein 9
0,911933166	0,57365	0,825877665	0,00649	FBXO9	F-box protein 9
0,748461493	0,29943	0,797192477	0,00083	FBXO9	F-box protein 9
0,870550563	0,41235	0,895025071	0,02554	FBXO9	F-box protein 9
1,025978145	0,79538	0,912565489	0,02958	FBXW2	F-box and WD repeat domain containing 2
0,720964436	0,08763	0,649769531	0,00007	FBXW2	F-box and WD repeat domain containing 2
1,194991205	0,36491	1,618884433	0,00447	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide
1,361314116	0,06987	1,639209215	0,00001	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide
1,041021598	0,62478	1,121943481	0,01645	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23)
0,912565489	0,63406	0,768970416	0,01554	FCF1	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)
0,889458994	0,24109	0,815637493	0,0008	FCF1	FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)
1,021720083	0,71567	1,109569472	0,01838	FCGR1A	Fc fragment of IgG, high affinity Ia, receptor (CD64)
1,424050196	0,10575	1,417157397	0,00691	FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32) (gene/pseudogene)
1,295940965	0,20806	1,514666316	0,00002	FCGRT	Fc fragment of IgG, receptor, transporter, alpha
0,796640096	0,24705	0,712518807	0,01758	FCHO2	FCH domain only 2
1,143138335	0,18112	1,209994089	0,00892	FCN3	ficolin (collagen/fibrinogen domain containing) 3 (Hakata antigen)
1,136816973	0,11123	1,218410264	0,00232	FCRL3	Fc receptor-like 3
1,104198847	0,17594	1,125058485	0,03598	FCRL4	Fc receptor-like 4
0,805524291	0,12979	0,771640088	0,01072	FDFT1	farnesyl-diphosphate farnesyltransferase 1
0,883927531	0,23531	0,901250463	0,02975	FDPS	farnesyl diphosphate synthase
1,176906737	0,2082	0,90062598	0,01825	FDX1	ferredoxin 1
0,891310496	0,41589	0,807760778	0,02629	FEM1A	fem-1 homolog a (C. elegans)
0,729004689	0,10097	0,834509281	0,0301	FER	fer (fps/fes related) tyrosine kinase
1,115739322	0,41962	1,131314463	0,03597	FERD3L	Fer3-like (Drosophila)
0,732550437	0,17431	0,823591017	0,00558	FERMT1	fermitin family member 1
1,22010051	0,06851	1,210833084	0,00739	FES	feline sarcoma oncogene
1,084477409	0,3992	1,146312186	0,02283	FEV	FEV (ETS oncogene family)
1,119612889	0,26256	1,185914499	0,01383	FGA	fibrinogen alpha chain

1,063632673	0,43798	1,216722359	0,02031	FGA	fibrinogen alpha chain
1,176906737	0,09182	1,147902414	0,01259	FGB	fibrinogen beta chain
1,396678532	0,08632	1,325007017	0,00001	FGD2	FYVE, RhoGEF and PH domain containing 2
1,096571589	0,33481	1,158292806	0,01834	FGD3	FYVE, RhoGEF and PH domain containing 3
0,758383773	0,27306	0,804966138	0,01946	FGD4	FYVE, RhoGEF and PH domain containing 4
0,906261938	0,56359	0,739693755	0,00529	FGD4	FYVE, RhoGEF and PH domain containing 4
1,027401439	0,82259	1,246601194	0,00292	FGF11	fibroblast growth factor 11
0,831622098	0,23956	0,759435845	0,00117	FGF12	fibroblast growth factor 12
0,980099415	0,74508	1,099616149	0,03675	FGF14	fibroblast growth factor 14
1,229438867	0,11297	1,269270886	0,00275	FGF2	fibroblast growth factor 2 (basic)
1,221793102	0,09737	1,264879542	0,00145	FGF22	fibroblast growth factor 22
1,016774673	0,8926	1,122721422	0,04275	FGF23	fibroblast growth factor 23
0,907519155	0,51951	1,090507733	0,03103	FGF5	fibroblast growth factor 5
1,146312186	0,08931	1,183451022	0,00906	FGF6	fibroblast growth factor 6
1,128182137	0,21281	1,194991205	0,00269	FGFR1	fibroblast growth factor receptor 1
1,114193651	0,5264	1,319507911	0,0084	FGFR1	fibroblast growth factor receptor 1
1,218410264	0,15265	1,204137381	0,03347	FGFR1	fibroblast growth factor receptor 1
0,891928519	0,59848	0,760489377	0,02602	FGFR1OP2	FGFR1 oncogene partner 2
1,00556058	0,96284	1,185092771	0,0221	FGFR2	fibroblast growth factor receptor 2
0,849684999	0,18088	0,784584098	0,00729	FGFR2	fibroblast growth factor receptor 2
1,054091423	0,64476	1,125838586	0,03344	FGFR4	fibroblast growth factor receptor 4
0,927230546	0,25051	0,904379378	0,04158	FGGY	FGGY carbohydrate kinase domain containing
0,812815602	0,06128	0,811689581	0,00066	FH	fumarate hydratase
1,060687741	0,55571	1,134455485	0,01301	FHAD1	forkhead-associated (FHA) phosphopeptide binding domain 1
1,129747215	0,20754	1,126619228	0,0214	FHAD1	forkhead-associated (FHA) phosphopeptide binding domain 1
1,129747215	0,1962	1,143138335	0,00329	FHAD1	forkhead-associated (FHA) phosphopeptide binding domain 1
1,092020546	0,42261	1,176906737	0,01762	FHIT	fragile histidine triad gene
1,36983298	0,0633	1,355664327	0,01105	FHL1	four and a half LIM domains 1
1,118837101	0,45823	1,203303026	0,03691	FHOD1	formin homology 2 domain containing 1
1,372684431	0,14809	1,350037985	0,04468	FHOD3	formin homology 2 domain containing 3
1,194163187	0,368	1,194991205	0,03311	FIBIN	fin bud initiation factor homolog (zebrafish)
1,057750964	0,47188	1,127400412	0,00713	FIGLA	folliculogenesis specific basic helix-loop-helix
0,712025098	0,20814	0,600401714	0	FIGNL1	fidgetin-like 1
0,811127156	0,11693	0,84323111	0,02817	FIP1L1	FIP1 like 1 (S. cerevisiae)
1,20664392	0,21324	1,246601194	0,02452	FIZ1	FLT3-interacting zinc finger 1
0,993092495	0,96532	0,888226796	0,04124	FKBP14	FK506 binding protein 14, 22 kDa
1,221793102	0,36034	1,364147835	0,00011	FKBP2	FK506 binding protein 2, 13kDa
0,817902059	0,23978	0,8362464	0,04341	FKTN	fukutin
1,197478705	0,17126	1,132883885	0,0403	FLCN	folliculin
1,448942155	0,05202	1,498999602	0,00788	FLI1	Friend leukemia virus integration 1
0,97063447	0,83779	1,154285418	0,01406	FLII	flightless I homolog (Drosophila)
0,908148418	0,21883	0,830470024	0,01644	FLJ10038	hypothetical protein FLJ10038
0,853817714	0,405	0,660211421	0,00035	FLJ10038	hypothetical protein FLJ10038
1,110338834	0,4096	0,792784137	0,0007	FLJ10038	hypothetical protein FLJ10038
1,033114388	0,7274	1,092777739	0,02345	FLJ16124	FLJ16124 protein
1,076240125	0,31283	1,143138335	0,00818	FLJ21369	hypothetical protein FLJ21369
1,071030823	0,43637	1,114193651	0,03395	FLJ21408	hypothetical LOC400512
0,910038824	0,25696	0,796088099	0,00245	FLJ25917	hypothetical LOC401585
1,080725402	0,40072	1,118837101	0,04877	FLJ31104	hypothetical LOC441072
1,143138335	0,19579	1,141554707	0,01434	FLJ31958	hypothetical LOC143153
1,074749173	0,60887	1,129747215	0,03442	FLJ32154	hypothetical protein FLJ32154
1,038859103	0,5806	1,155085785	0,01279	FLJ32790	hCG1983896
0,990342872	0,88939	1,113421618	0,03973	FLJ33065	hypothetical LOC440952
1,148698355	0,10815	1,237132479	0,00119	FLJ33065	hypothetical LOC440952
1,106497353	0,30916	1,111879158	0,03776	FLJ33544	hypothetical LOC728283
0,670821112	0,11954	0,652025368	0,00002	FLJ33630	hypothetical LOC644873
1,040300267	0,68538	1,161508732	0,02292	FLJ34208	hypothetical LOC401106
1,074004472	0,33181	1,137605228	0,00743	FLJ34208	hypothetical LOC401106
1,003471749	0,97418	1,115739322	0,02458	FLJ35024	hypothetical LOC401491
1,108032348	0,22754	1,244011653	0,00131	FLJ35390	hypothetical LOC255031
0,981459064	0,93662	0,76418826	0,03391	FLJ35934	FLJ35934
1,011853201	0,90932	1,119612889	0,02969	FLJ36116	hypothetical locus LOC388666
1,126619228	0,19218	1,136029265	0,03995	FLJ37638	hypothetical LOC400660
1,149494848	0,05439	1,07997656	0,02542	FLJ39051	hypothetical LOC399972
1,147107024	0,10673	1,328685814	0	FLJ39582	hypothetical LOC439931
1,128964405	0,39683	1,191682575	0,01993	FLJ39739	hypothetical FLJ39739
1,029540083	0,70795	1,07549439	0,04699	FLJ39739	hypothetical FLJ39739
1,16634937	0,1825	1,227735684	0,01782	FLJ39739	hypothetical FLJ39739
1,136029265	0,16085	1,179356592	0,00784	FLJ40288	hypothetical FLJ40288
1,071030823	0,47595	1,219255094	0,00564	FLJ40292	hypothetical LOC643210
1,068065408	0,53966	1,210833084	0,00106	FLJ42627	hypothetical LOC645644
1,110338834	0,27262	1,169587664	0,03514	FLJ42709	hypothetical LOC441094
1,025267238	0,84479	1,237132479	0,00112	FLJ42875	hypothetical LOC440556
1,073260286	0,30283	1,104964485	0,02345	FLJ42875	hypothetical LOC440556
1,115739322	0,63578	0,833353207	0,01254	FLJ43489	hypothetical protein LOC644283
1,101905116	0,30045	1,125058485	0,03911	FLJ44054	hypothetical LOC643365
1,114966219	0,52986	1,182631	0,00965	FLJ45340	hypothetical LOC402483
1,189207115	0,07161	1,157490217	0,01013	FLJ45825	hypothetical protein LOC646888
1,143930973	0,11474	1,157490217	0,00873	FLJ90757	hypothetical LOC440465
1,237990291	0,07031	1,256142381	0,00185	FLNC	filamin C, gamma
1,22858698	0,27559	1,333298677	0,00256	FLOT1	flotillin 1
1,172022284	0,40058	1,398616083	0,0002	FLOT1	flotillin 1
1,250062303	0,2133	1,350037985	0,00019	FLOT1	flotillin 1
1,185092771	0,34794	1,313121125	0,01476	FLOT2	flotillin 2
1,116512962	0,13495	1,147902414	0,01467	FLRT1	fibronectin leucine rich transmembrane protein 1
1,17609125	0,25271	1,231144413	0,01049	FLRT2	fibronectin leucine rich transmembrane protein 2
0,976031761	0,91666	0,67877249	0,00082	FLRT3	fibronectin leucine rich transmembrane protein 3
0,927873476	0,79728	0,61813763	0,00006	FLRT3	fibronectin leucine rich transmembrane protein 3
1,062159186	0,63533	1,21167266	0,01939	FLT1	fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
1,247465572	0,11032	1,195819797	0,0133	FLT1	fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
1,241427492	0,09276	1,327765158	0,00224	FLT4	fms-related tyrosine kinase 4
1,025267238	0,91611	0,750019495	0,00428	FLVCR1	feline leukemia virus subgroup C cellular receptor 1
1,073260286	0,41259	1,17609125	0,00494	FLYWCH1	FLYWCH-type zinc finger 1
1,011152081	0,9252	1,210833084	0,03417	FLYWCH1	FLYWCH-type zinc finger 1
0,70514898	0,16908	0,740719899	0,00436	FMNL2	formin-like 2
0,689680461	0,30433	0,753667455	0,02154	FMO2	flavin containing monooxygenase 2 (non-functional)
1,402499251	0,06775	1,679462986	0,00001	FMOD	fibromodulin
0,866336856	0,43516	0,774319028	0,00794	FMR1	fragile X mental retardation 1
0,868742185	0,54635	0,786762445	0,00361	FMR1	fragile X mental retardation 1
0,727994774	0,31365	0,759962428	0,00175	FNBP1L	formin binding protein 1-like
0,812815602	0,39594	0,723969086	0,00098	FNBP4	formin binding protein 4
1,092777739	0,36988	1,148698355	0,02751	FNDC3A	fibronectin type III domain containing 3A
1,360370852	0,09114	1,425037614	0,00064	FNDC3B	fibronectin type III domain containing 3B
1,138394029	0,17449	1,20163605	0,01514	FNDC5	fibronectin type III domain containing 5

1,143930973	0,2724	1,244011653	0,01293	FNDC5	fibronectin type III domain containing 5
1,231998073	0,09883	1,216722359	0,00603	FNDC7	fibronectin type III domain containing 7
0,986916546	0,90322	1,07549439	0,03303	FNDC8	fibronectin type III domain containing 8
1,050444544	0,84581	0,744322628	0,0265	FNIP1	folliculin interacting protein 1
0,680657058	0,13065	0,687294348	0,0001	FNIP2	folliculin interacting protein 2
0,727994774	0,13005	0,745872013	0,00141	FNIP2	folliculin interacting protein 2
0,580754366	0,18408	0,71449707	0,00743	FNTA	farnesyltransferase, CAAX box, alpha
0,886996305	0,54751	0,647521499	0,00004	FNTA	farnesyltransferase, CAAX box, alpha
0,938871747	0,5069	0,86934456	0,01586	FOLH1	folate hydrolase (prostate-specific membrane antigen) 1
1,208317843	0,11691	1,148698355	0,01434	FOLH1	folate hydrolase (prostate-specific membrane antigen) 1
1,112650121	0,17539	1,142346247	0,03214	FOLR1	folate receptor 1 (adult)
1,184271612	0,07037	1,246601194	0,00153	FOLR3	folate receptor 3 (gamma)
0,919550046	0,21606	0,807201075	0,00089	FONG	hypothetical LOC348751
1,068805991	0,49084	0,817335328	0,00371	FONG	hypothetical LOC348751
0,688725023	0,06135	0,753667455	0,0001	FOPNL	FGFR1OP N-terminal like
0,670821112	0,0774	0,703684188	0,03571	FOPNL	FGFR1OP N-terminal like
1,063632673	0,61221	1,146312186	0,01602	FOXA2	forkhead box A2
1,07997656	0,53358	0,698823486	0,00389	FOXD1	forkhead box D1
1,000693387	0,98996	0,874784765	0,0145	FOXD4	forkhead box D4
1,078480432	0,31181	1,152686347	0,00064	FOXE3	forkhead box E3
0,86934456	0,20342	0,824162085	0,00302	FOXK1	forkhead box K1
1,074004472	0,32178	1,092777739	0,04546	FOXK1	forkhead box K1
0,980099415	0,87971	0,84323111	0,03518	FOXK2	forkhead box K2
1,130530567	0,18055	1,171210181	0,00122	FOXL1	forkhead box L1
0,966606097	0,78106	1,209155676	0,01016	FOXN3	forkhead box N3
0,833353207	0,57515	0,780786493	0,00675	FOXN3	forkhead box N3
0,718470088	0,08936	0,825305409	0,01132	FOXN3	forkhead box N3
1,155886707	0,11328	1,128182137	0,02503	FOXN4	forkhead box N4
1,148698355	0,1579	1,198309021	0,00593	FOXN4	forkhead box N4
1,098092814	0,30905	1,275444392	0,01217	FOXO1	forkhead box O1
0,890692901	0,66791	0,856781955	0,02705	FOXP1	forkhead box P1
0,807760778	0,12348	0,915099168	0,0314	FOXP1	forkhead box P1
0,771105413	0,12831	0,854409741	0,00607	FOXP1	forkhead box P1
0,762072415	0,18441	0,598324482	0,00115	FOXP2	forkhead box P2
1,102669163	0,22164	1,140763716	0,00375	FOXP2	forkhead box P2
1,020304659	0,88484	1,137605228	0,03663	FOXRED1	FAD-dependent oxidoreductase domain containing 1
1,038139271	0,74419	1,272794935	0,00209	FOXRED2	FAD-dependent oxidoreductase domain containing 2
1,234562607	0,08687	1,111879158	0,02294	FOXS1	forkhead box S1
0,831045862	0,22179	0,803850991	0,01367	FPGT	fucose-1-phosphate guanylyltransferase
1,185914499	0,08123	1,127400412	0,03817	FPR1	formyl peptide receptor 1
1,162314108	0,13431	1,129747215	0,01217	FRAS1	Fraser syndrome 1
1,053361036	0,62866	1,130530567	0,02791	FRAS1	Fraser syndrome 1
1,104964485	0,20311	1,094293701	0,04372	FREM1	FRAS1 related extracellular matrix 1
0,988970916	0,86987	1,172022284	0,0097	FRMD1	FERM domain containing 1
1,072516617	0,55398	1,151887642	0,00688	FRMD3	FERM domain containing 3
0,645728675	0,12026	0,617709319	0,00002	FRMD4B	FERM domain containing 4B
0,690637224	0,09055	0,76154437	0,0009	FRMD6	FERM domain containing 6
1,098092814	0,19843	0,89688816	0,04283	FRMD7	FERM domain containing 7
0,991029563	0,94774	1,2397077	0,00892	FRS2	fibroblast growth factor receptor substrate 2
0,657927263	0,08556	0,709561678	0,00045	FRS2	fibroblast growth factor receptor substrate 2
1,112650121	0,29895	1,198309021	0,00177	FRS3	fibroblast growth factor receptor substrate 3
1,175276328	0,11015	1,076240125	0,04965	FSCB	fibrous sheath CABYR binding protein
1,147107024	0,15822	1,146312186	0,01201	FSCN3	fascin homolog 3, actin-bundling protein, testicular (Strongylocentrotus purpuratus)
1,101141598	0,50731	1,185092771	0,00989	FSTL1	follistatin-like 1
1,027401439	0,81967	1,190856849	0,03059	FSTL3	follistatin-like 3 (secreted glycoprotein)
0,960594864	0,70599	1,112650121	0,04807	FTCD	formiminotransferase cyclodeaminase
1,136816973	0,44344	1,366987452	0,00021	FTH1	ferritin, heavy polypeptide 1
1,154285418	0,80341	1,497960934	0,00002	FTL	ferritin, light polypeptide
1,034547582	0,79811	0,880869374	0,03299	FTSJ1	FtsJ homolog 1 (E. coli)
0,878430468	0,57769	0,734584317	0,00047	FTSJD1	FtsJ methyltransferase domain containing 1
1,111879158	0,19779	1,200803427	0,01052	FUBP1	far upstream element (FUSE) binding protein 1
0,885153765	0,49179	0,767373048	0,00572	FUBP3	far upstream element (FUSE) binding protein 3
0,974004269	0,81962	1,153485605	0,01803	FUK	fucokinase
0,967947027	0,72934	0,876605721	0,02643	FUS	fused in sarcoma
1,00765376	0,92862	0,893785162	0,02291	FUT10	fucosyltransferase 10 (alpha (1,3) fucosyltransferase)
1,100378609	0,22129	1,245737416	0,02227	FUT5	fucosyltransferase 5 (alpha (1,3) fucosyltransferase)
1,192508872	0,06775	1,167967395	0,00278	FUT6	fucosyltransferase 6 (alpha (1,3) fucosyltransferase)
1,314031627	0,07979	1,280759861	0,00954	FUT6	fucosyltransferase 6 (alpha (1,3) fucosyltransferase)
1,140763716	0,56009	1,375541818	0,0404	FUT6	fucosyltransferase 6 (alpha (1,3) fucosyltransferase)
1,135242102	0,15631	1,155886707	0,01424	FUT7	fucosyltransferase 7 (alpha (1,3) fucosyltransferase)
1,373636233	0,22592	1,52414483	0,00029	FXYD5	FXYD domain containing ion transport regulator 5
1,179356592	0,65822	1,506290467	0,0008	FXYD5	FXYD domain containing ion transport regulator 5
1,265756594	0,0669	1,236275261	0,02081	FXYD6	FXYD domain containing ion transport regulator 6
1,163926534	0,31054	1,354724977	0,01097	FYB	FYN binding protein
1,081474763	0,53212	1,190856849	0,00775	FYCO1	FYVE and coiled-coil domain containing 1
1,433955248	0,10619	1,572434584	0,00003	FYN	FYN oncogene related to SRC, FGR, YES
0,79940583	0,1508	0,767373048	0,00563	FYTTD1	forty-two-three domain containing 1
0,631563631	0,16794	0,639936207	0,01345	FYTTD1	forty-two-three domain containing 1
0,950659101	0,72044	0,690637224	0,00002	FZD1	frizzled family receptor 1
1,199971382	0,2312	1,25353302	0,01094	FZD2	frizzled family receptor 2
1,229438867	0,08205	1,29145735	0,00466	FZD2	frizzled family receptor 2
1,220946513	0,18477	1,208317843	0,00653	FZD3	frizzled family receptor 3
0,765778999	0,15433	0,582770599	0,00011	FZD5	frizzled family receptor 5
1,098092814	0,36533	1,29056249	0,00005	FZD8	frizzled family receptor 8
0,944092419	0,75005	0,824733549	0,03105	FZD8	frizzled family receptor 8
0,910038824	0,39689	0,831622098	0,0042	FZD8	frizzled family receptor 8
1,101905116	0,73693	0,775393206	0,02425	G2E3	G2/M-phase specific E3 ubiquitin protein ligase
0,767905135	0,2205	0,823591017	0,02679	G3BP1	GTPase activating protein (SH3 domain) binding protein 1
0,891928519	0,43226	0,716977624	0,00097	G3BP1	GTPase activating protein (SH3 domain) binding protein 1
1,092020546	0,60479	1,264003098	0,00521	G6PC3	glucose 6 phosphatase, catalytic, 3
0,87175824	0,53902	0,768970416	0,03665	GAB1	GRB2-associated binding protein 1
0,852634892	0,59002	0,777007269	0,00337	GAB1	GRB2-associated binding protein 1
0,866937564	0,09284	0,872362706	0,01196	GAB2	GRB2-associated binding protein 2
1,172834949	0,20995	1,307671349	0,00229	GAB3	GRB2-associated binding protein 3
1,172834949	0,22974	1,182631	0,00758	GABARAPL1	GABA(A) receptor-associated protein like 1
0,870550563	0,3891	1,207480591	0,0345	GABBR1	gamma-aminobutyric acid (GABA) B receptor, 1
1,077733145	0,39741	1,126619228	0,00501	GABRA1	gamma-aminobutyric acid (GABA) A receptor, alpha 1
0,987600861	0,85709	1,155886707	0,00889	GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2
1,062159186	0,47561	1,187559666	0,00124	GAD2	glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa)
0,933679945	0,64979	1,314031627	0,03077	GADD45B	growth arrest and DNA-damage-inducible, beta
1,146312186	0,22735	1,139973273	0,02168	GAGE1	G antigen 1
0,969289817	0,79123	1,117287138	0,03525	GAL3ST1	galactose-3-O-sulfotransferase 1
1,0238469	0,73965	1,169587664	0,00072	GAL3ST2	galactose-3-O-sulfotransferase 2
1,065108203	0,62258	1,120389214	0,0163	GALM	galactose mutarotase (aldose 1-epimerase)

1,085229372	0,42104	1,093535457	0,04175	GALNS	galactosamine (N-acetyl)-6-sulfate sulfatase
0,742261785	0,5158	0,856781955	0,03972	GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)
0,907519155	0,64046	0,87539133	0,04075	GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)
0,899378312	0,5847	1,162314108	0,02525	GALNT10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10)
1,184271612	0,33185	1,128964405	0,01726	GALNT10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10)
0,664803554	0,06525	0,616853585	0,00001	GALNT12	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 12 (GalNAc-T12)
1,028826708	0,81284	0,8962667	0,02164	GALNT13	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 13 (GalNAc-T13)
1,268391399	0,05371	1,180992661	0,01517	GALNT14	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 14 (GalNAc-T14)
0,754190038	0,24272	0,758383773	0,0033	GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)
0,980779004	0,80132	0,867538687	0,00287	GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)
1,313121125	0,08243	1,4063932	0,00269	GALNT5	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 5 (GalNAc-T5)
1,235418637	0,07255	1,139973273	0,0454	GALNT5	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 5 (GalNAc-T5)
0,660669203	0,09061	0,674551267	0,00025	GALNT7	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7)
0,686818117	0,30772	0,69399636	0,00647	GALNT7	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7)
0,973329374	0,76623	1,117287138	0,04288	GALNTL1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase-like 1
1,021012126	0,83371	1,189207115	0,00384	GALR2	galanin receptor 2
1,065108203	0,54681	1,286097483	0,00019	GALT	galactose-1-phosphate uridylyltransferase
0,992404375	0,95609	1,241427492	0,00065	GALT	galactose-1-phosphate uridylyltransferase
1,112650121	0,42329	1,396678532	0,00021	GAMT	guanidinoacetate N-methyltransferase
0,887611337	0,53736	0,744322628	0,00001	GAN	gigaxonin
1,305859787	0,51921	1,492778383	0	GANAB	glucosidase, alpha; neutral AB
1,128964405	0,57332	1,365093718	0,00001	GANAB	glucosidase, alpha; neutral AB
1,118837101	0,34007	0,866336856	0,01367	GANC	glucosidase, alpha; neutral C
1,024556823	0,80952	1,119612889	0,00743	GAPDHS	glyceraldehyde-3-phosphate dehydrogenase, spermatogenic
0,775930854	0,12649	0,90000193	0,04972	GAPVD1	GTPase activating protein and VPS9 domains 1
1,026689546	0,92606	0,76684133	0,0072	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase
1,088242442	0,36174	0,903752727	0,03584	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase
0,807760778	0,10321	0,729004689	0,00244	GART	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase
1,207480591	0,09538	1,227735684	0,00213	GAS2L2	growth arrest-specific 2 like 2
0,692554734	0,09576	0,727994774	0,00011	GAS5	growth arrest-specific 5 (non-protein coding)
1,465100875	0,0882	1,471206746	0,00032	GAS6	growth arrest-specific 6
1,541142217	0,14152	1,745935182	0,00004	GAS6	growth arrest-specific 6
0,860352631	0,09226	0,720964436	0,00034	GAS7	growth arrest-specific 7
1,057018041	0,49798	1,093535457	0,02672	GATA1	GATA binding protein 1 (globin transcription factor 1)
1,224336392	0,06299	1,175276328	0,00608	GATA2	GATA binding protein 2
1,224336392	0,13001	1,273677475	0,00125	GATA2	GATA binding protein 2
1,185914499	0,08763	1,260503392	0,00211	GATA2	GATA binding protein 2
0,885153765	0,30806	1,105730653	0,03169	GATA5	GATA binding protein 5
1,314031627	0,11416	1,104964485	0,03565	GATA6	GATA binding protein 6
0,67877249	0,26083	0,810003474	0,01004	GATAD1	GATA zinc finger domain containing 1
0,749499801	0,433	0,746389192	0,00013	GATAD1	GATA zinc finger domain containing 1
1,20664392	0,07146	1,17609125	0,0319	GATAD2A	GATA zinc finger domain containing 2A
0,637722196	0,05581	0,654742712	0,00003	GATM	glycine amidinotransferase (L-arginine:glycine amidinotransferase)
1,198309021	0,11047	1,110338834	0,04205	GATM	glycine amidinotransferase (L-arginine:glycine amidinotransferase)
1,04608494	0,59584	1,190031696	0,01895	GATS	GATS, stromal antigen 3 opposite strand
0,77271055	0,16613	0,786762445	0,02445	GBAS	glioblastoma amplified sequence
0,802181166	0,34255	0,742261785	0,00024	GBE1	glucan (1,4-alpha-), branching enzyme 1
0,942131274	0,8197	1,29056249	0,02061	GBF1	golgi brefeldin A resistant guanine nucleotide exchange factor 1
1,089752112	0,66643	0,681601304	0,00701	GBP1	guanylate binding protein 1, interferon-inducible
1,035982764	0,86897	0,700763725	0,01971	GBP1	guanylate binding protein 1, interferon-inducible
0,588045625	0,05002	0,827596816	0,00424	GCC1	GRIP and coiled-coil domain containing 1
1,100378609	0,48752	1,163926534	0,01896	GCC1	GRIP and coiled-coil domain containing 1
0,819036698	0,24038	0,828744904	0,02017	GCFC1	GC-rich sequence DNA-binding factor 1
0,971307496	0,72022	1,262252032	0,00055	GCGR	glucagon receptor
0,948684315	0,83916	0,709070018	0,001	GCH1	GTP cyclohydrolase 1
1,143138335	0,18164	1,118061851	0,02986	GCK	glucokinase (hexokinase 4)
1,227735684	0,06363	1,256142381	0,00896	GCKR	glucokinase (hexokinase 4) regulator
0,878430468	0,18415	0,866937564	0,02706	GCNT7	glucosaminyl (N-acetyl) transferase family member 7
0,855595026	0,42627	0,718470088	0,00463	GCOM1	GRINL1A complex locus
0,853817714	0,26247	0,732042848	0,00039	GCSH	glycine cleavage system protein H (aminomethyl carrier)
0,871154192	0,28375	0,726986259	0,00004	GCSH	glycine cleavage system protein H (aminomethyl carrier)
0,832775771	0,45623	0,668500248	0,00076	GDAP1	ganglioside-induced differentiation-associated protein 1
0,927873476	0,39085	0,767373048	0,0007	GDAP1	ganglioside-induced differentiation-associated protein 1
1,277213759	0,42754	0,775393206	0,02647	GDAP2	ganglioside induced differentiation associated protein 2
1,031683179	0,70163	0,853226098	0,01359	GDAP2	ganglioside induced differentiation associated protein 2
1,060687741	0,61013	1,153485605	0,04804	GDF11	growth differentiation factor 11
1,065108203	0,60891	1,202469249	0,00269	GDF11	growth differentiation factor 11
1,046810282	0,54608	1,139973273	0,01133	GDF3	growth differentiation factor 3
1,021012126	0,85025	1,231998073	0,00239	GDF9	growth differentiation factor 9
1,117287138	0,27468	1,153485605	0,03221	GDNF	glial cell derived neurotrophic factor
1,0132569	0,88695	1,122721422	0,0118	GDPD1	glycerophosphodiester phosphodiesterase domain containing 1
1,121943481	0,1669	1,163120042	0,02264	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5
1,102669163	0,24602	1,202469249	0,00647	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5
1,267512522	0,34775	0,798851916	0,02063	GEMIN2	gem (nuclear organelle) associated protein 2
1,020304659	0,85315	0,864537231	0,0299	GEMIN2	gem (nuclear organelle) associated protein 2
0,886381699	0,28371	0,864537231	0,01808	GEMIN8	gem (nuclear organelle) associated protein 8
1,162314108	0,36873	1,167967395	0,02525	GFER	growth factor, augmenter of liver regeneration
1,068805991	0,76884	0,872967591	0,03185	GFM1	G elongation factor, mitochondrial 1
0,920187651	0,70022	0,77271055	0,00434	GFM1	G elongation factor, mitochondrial 1
0,829894586	0,28857	0,775393206	0,0084	GFM1	G elongation factor, mitochondrial 1
1,300440147	0,12281	0,862143545	0,0134	GFOD1	glucose-fructose oxidoreductase domain containing 1
1,114966219	0,27106	1,17609125	0,00837	GFRA2	GDNF family receptor alpha 2
1,099616149	0,3762	1,155085785	0,0211	GFRA4	GDNF family receptor alpha 4
1,043188594	0,71109	1,159095952	0,03757	GGA2	golgi-associated, gamma adaptin ear containing, ARF binding protein 2
1,066585781	0,68767	1,171210181	0,01316	GGA2	golgi-associated, gamma adaptin ear containing, ARF binding protein 2
1,086734863	0,39412	1,245737416	0,00033	GGA2	golgi-associated, gamma adaptin ear containing, ARF binding protein 2
0,965936329	0,69902	1,215879283	0,0013	GGA2	golgi-associated, gamma adaptin ear containing, ARF binding protein 2
1,301341855	0,06907	1,29056249	0,00957	GGCX	gamma-glutamyl carboxylase
1,181811547	0,27433	0,877213549	0,01336	GGCX	gamma-glutamyl carboxylase
0,767373048	0,28287	0,84323111	0,003	GGNBP2	gametogenetin binding protein 2
0,741233505	0,29762	0,724471077	0,00348	GGNBP2	gametogenetin binding protein 2
0,813943185	0,42367	0,821310701	0,0226	GGPS1	geranylgeranyl diphosphate synthase 1
1,190031696	0,19467	1,488645255	0,00018	GGT1	gamma-glutamyltransferase 1
1,088997015	0,51373	1,278985581	0,00054	GGT1	gamma-glutamyltransferase 1
1,138394029	0,40687	1,4054187	0,00125	GGT1	gamma-glutamyltransferase 1
1,126619228	0,45598	1,380317353	0,00043	GGT1	gamma-glutamyltransferase 1
1,048989328	0,62462	1,247465572	0,00093	GGT7	gamma-glutamyltransferase 7
1,108800644	0,35671	1,176906737	0,00691	GGT7	gamma-glutamyltransferase 7
1,048989328	0,61646	1,092777739	0,03428	GGT7	gamma-glutamyltransferase 7
0,765248385	0,20905	0,793333843	0,00472	GGTA1P	glycoprotein, alpha-galactosyltransferase 1 pseudogene
1,048989328	0,72082	1,379360922	0,00046	GGTLC1	gamma-glutamyltransferase light chain 1
0,976708529	0,74236	1,172022284	0,00756	GH1	growth hormone 1
1,136029265	0,20192	1,101905116	0,0231	GH1	growth hormone 1
1,374588696	0,09359	1,304050735	0,01584	GHDC	GH3 domain containing

0,717474767	0,243	0,68491649	0,00117	GHR	growth hormone receptor
1,030968319	0,72861	1,117287138	0,00437	GHRHR	growth hormone releasing hormone receptor
1,046810282	0,56244	1,236275261	0,00082	GHRHR	growth hormone releasing hormone receptor
1,044635763	0,70312	1,188383105	0,00412	GHRHR	growth hormone releasing hormone receptor
1,17609125	0,09009	1,191682575	0,03757	GHRL	ghrelin/obestatin prepropeptide
1,160703914	0,13473	1,113421618	0,03589	GHSR	growth hormone secretagogue receptor
1,048262476	0,43449	1,114193651	0,01647	GHSR	growth hormone secretagogue receptor
1,083725967	0,48533	1,181811547	0,00866	GIMAP1	GTPase, IMAP family member 1
1,309485423	0,09276	1,519924856	0,00314	GIMAP8	GTPase, IMAP family member 8
0,713507253	0,07359	0,736113431	0,00048	GINS3	GINS complex subunit 3 (Psf3 homolog)
0,805524291	0,36201	0,784584098	0,01216	GIPC2	GIPC PDZ domain containing family, member 2
1,036701101	0,86256	0,821880187	0,01314	GIPC2	GIPC PDZ domain containing family, member 2
1,083725967	0,45722	1,221793102	0,0142	GIT2	G protein-coupled receptor kinase interacting ArfGAP 2
1,284315809	0,05595	1,180174343	0,00839	GIT2	G protein-coupled receptor kinase interacting ArfGAP 2
0,564873607	0,05478	0,846158597	0,0393	GJB3	gap junction protein, beta 3, 31kDa
0,622868708	0,12421	0,85797053	0,04084	GJB3	gap junction protein, beta 3, 31kDa
1,282536603	0,06967	1,320422841	0,00006	GJB4	gap junction protein, beta 4, 30.3kDa
1,018891197	0,85361	1,248330549	0,00095	GJD2	gap junction protein, delta 2, 36kDa
0,925304428	0,51893	1,101141598	0,03142	GJD3	gap junction protein, delta 3, 31.9kDa
0,992404375	0,94493	0,752101876	0,03837	GK	glycerol kinase
0,87539133	0,40286	0,730522189	0,0045	GK	glycerol kinase
0,997231251	0,98936	0,796088099	0,01029	GK5	glycerol kinase 5 (putative)
1,175276328	0,09885	1,151089491	0,00678	GKN1	gastrokine 1
1,074749173	0,46525	1,190031696	0,00362	GKN2	gastrokine 2
0,945402117	0,5482	1,167158102	0,04114	GLB1L2	galactosidase, beta 1-like 2
1,055553718	0,53879	1,115739322	0,04339	GLB1L3	galactosidase, beta 1-like 3
1,400556321	0,08668	1,441928871	0,00118	GLCCI1	glucocorticoid induced transcript 1
0,63860688	0,13355	0,734075318	0,00265	GLCE	glucuronic acid epimerase
1,048262476	0,76497	1,281647924	0,00014	GLG1	golgi glycoprotein 1
0,891310496	0,73394	1,180992661	0,00279	GLG1	golgi glycoprotein 1
1,056285625	0,65159	1,181811547	0,03849	GLG1	golgi glycoprotein 1
1,345367209	0,06569	1,398616083	0,00129	GLIPR2	GLI pathogenesis-related 2
1,04608494	0,66535	1,212512819	0,01475	GLP1R	glucagon-like peptide 1 receptor
1,209155676	0,11014	1,193335743	0,00652	GLP1R	glucagon-like peptide 1 receptor
1,098854218	0,43302	1,156688184	0,04134	GLRA2	glycine receptor, alpha 2
1,263127262	0,19925	1,431968741	0,00038	GLRX	glutaredoxin (thioltransferase)
1,25353302	0,45517	1,402499251	0,00254	GLRX	glutaredoxin (thioltransferase)
0,884540435	0,19098	0,771105413	0,00042	GLRX2	glutaredoxin 2
0,982139595	0,81902	0,882091365	0,02099	GLRX3	glutaredoxin 3
0,627635996	0,10198	0,71946679	0,00502	GLRX3	glutaredoxin 3
0,948684315	0,76772	1,204972315	0,00095	GLS	glutaminase
0,977385766	0,87304	1,318593614	0,01956	GLT8D2	glycosyltransferase 8 domain containing 2
1,412254404	0,12375	1,321338406	0,04339	GLT8D2	glycosyltransferase 8 domain containing 2
0,895025071	0,1822	0,874784765	0,03492	GLTSCR2	glioma tumor suppressor candidate region gene 2
1,440929749	0,06111	1,370782805	0,03107	GLUL	glutamate-ammonia ligase
1,190031696	0,07898	1,10343374	0,02931	GLYAT	glycine-N-acyltransferase
1,125838586	0,20961	1,183451022	0,00814	GLYAT	glycine-N-acyltransferase
1,111108729	0,34786	1,22858698	0,00423	GLYCTK	glycerate kinase
1,085229372	0,34847	1,114966219	0,04458	GLYCTK	glycerate kinase
0,76418826	0,12529	0,738157203	0,00033	GM2A	GM2 ganglioside activator
0,901250463	0,59256	0,830470024	0,00809	GMCL1	germ cell-less homolog 1 (Drosophila)
1,585568273	0,10033	1,361314116	0,00436	GMDS	GDP-mannose 4,6-dehydratase
1,286989247	0,07617	1,230291345	0,0105	GMDS	GDP-mannose 4,6-dehydratase
0,843815796	0,22135	0,866336856	0,02215	GMEB1	glucocorticoid modulatory element binding protein 1
0,964598185	0,77857	0,880259014	0,03508	GMFB	glia maturation factor, beta
1,191682575	0,27022	1,223488041	0,03982	GMIP	GEM interacting protein
0,853817714	0,44589	0,791137301	0,00256	GMNN	geminin, DNA replication inhibitor
1,086734863	0,62646	1,241427492	0,00834	GMPPA	GDP-mannose pyrophosphorylase A
1,098092814	0,59609	1,202469249	0,00058	GMPPB	GDP-mannose pyrophosphorylase B
0,922103118	0,64667	1,147107024	0,00481	GMPR2	guanosine monophosphate reductase 2
0,939522749	0,52804	0,823020345	0,0033	GNA11	guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
1,216722359	0,10044	1,132098902	0,00904	GNA12	guanine nucleotide binding protein (G protein) alpha 12
0,903752727	0,47965	0,882091365	0,04727	GNA13	guanine nucleotide binding protein (G protein), alpha 13
0,946713631	0,83532	0,7944344	0,00107	GNA13	guanine nucleotide binding protein (G protein), alpha 13
0,672217497	0,08339	0,651122095	0,00061	GNAI1	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
0,600401714	0,05661	0,696888619	0,00135	GNAI1	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
1,175276328	0,45483	1,394743666	0,00901	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2
0,76154437	0,17738	0,71449707	0,00027	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3
0,967947027	0,82704	0,765778999	0,00137	GNAL	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type
1,025978145	0,79627	0,879649076	0,0213	GNAL	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type
0,847919965	0,54333	0,609627547	0,00012	GNAL	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type
1,17609125	0,1287	1,185092771	0,01162	GNAO1	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O
0,820741609	0,35866	0,815072332	0,00216	GNAQ	guanine nucleotide binding protein (G protein), q polypeptide
0,787307977	0,29676	0,824733549	0,01141	GNAQ	guanine nucleotide binding protein (G protein), q polypeptide
0,856188285	0,41316	0,777546036	0,01094	GNAS	GNAS complex locus
0,997231251	0,97656	1,167158102	0,0031	GNAT1	guanine nucleotide binding protein (G protein), alpha transducing activity polypeptide 1
1,011152081	0,97342	0,904379378	0,04857	GNB1	guanine nucleotide binding protein (G protein), beta polypeptide 1
1,086734863	0,38645	1,212512819	0,00294	GNB3	guanine nucleotide binding protein (G protein), beta polypeptide 3
0,780786493	0,07865	0,803850991	0,00718	GNB4	guanine nucleotide binding protein (G protein), beta polypeptide 4
0,864537231	0,47539	0,833353207	0,0085	GNB4	guanine nucleotide binding protein (G protein), beta polypeptide 4
1,077733145	0,44648	1,112650121	0,01964	GNB5	guanine nucleotide binding protein (G protein), beta 5
1,128182137	0,1948	1,255271991	0,00652	GNG7	guanine nucleotide binding protein (G protein), gamma 7
1,175276328	0,12837	1,189207115	0,00738	GNG7	guanine nucleotide binding protein (G protein), gamma 7
0,825877665	0,19582	0,744322628	0,00385	GNL1	guanine nucleotide binding protein-like 1
0,886381699	0,58864	0,802737389	0,00399	GNL3L	guanine nucleotide binding protein-like 3 (nucleolar)-like
1,168777249	0,05239	1,145517898	0,01792	GNN	Grp94 neighboring nucleotidase pseudogene
0,851453708	0,21127	0,903752727	0,03486	GNPAT	glyceronephosphate O-acyltransferase
0,8362464	0,32183	0,740206649	0,00325	GNPDA2	glucosamine-6-phosphate deaminase 2
1,011853201	0,94108	0,872362706	0,00369	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1
1,137605228	0,14507	1,085229372	0,04877	GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits
0,713507253	0,09717	0,713507253	0,00067	GNRH1	gonadotropin-releasing hormone 1 (luteinizing-releasing hormone)
0,944747041	0,70864	0,743806881	0,00087	GOLGA2	golgin A2
0,747942879	0,14045	0,662044455	0,0001	GOLGA2	golgin A2
1,038859103	0,74423	0,886996305	0,00875	GOLGA3	golgin A3
1,079228237	0,28489	1,111879158	0,01609	GOLGA6L2	golgin A6 family-like 2
0,893785162	0,45472	0,832775771	0,00104	GOLGA7	golgin A7
0,888226796	0,30584	0,883927531	0,03853	GOLGA7B	golgin A7 family, member B
0,801069878	0,14394	0,786217292	0,00971	GOLGA8A	golgin A8 family, member A
0,741233505	0,10786	0,86934456	0,03517	GOLGA8A	golgin A8 family, member A
1,21335356	0,10921	1,185092771	0,01351	GOLIM4	golgi integral membrane protein 4
0,895025071	0,37456	0,8962667	0,02475	GON4L	gon-4-like (C. elegans)
0,931740429	0,69752	0,847919965	0,01294	GOPC	golgi-associated PDZ and coiled-coil motif containing
0,863938187	0,46175	0,751580739	0,01288	GOPC	golgi-associated PDZ and coiled-coil motif containing
0,923382311	0,53534	0,812252396	0,00065	GOSR1	golgi SNAP receptor complex member 1

1,184271612	0,13137	1,221793102	0,02978	GOSR2	golgi SNAP receptor complex member 2
1,086734863	0,32476	1,194163187	0,01211	GOSR2	golgi SNAP receptor complex member 2
1,194163187	0,12204	1,138394029	0,00588	GPA33	glycoprotein A33 (transmembrane)
0,959929261	0,81798	1,190031696	0,01512	GPAA1	glycosylphosphatidylinositol anchor attachment protein 1 homolog (yeast)
0,883315051	0,60046	0,732042848	0,00148	GPAM	glycerol-3-phosphate acyltransferase, mitochondrial
1,229438867	0,08071	1,167158102	0,03689	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial
0,968618189	0,8768	0,739693755	0,00128	GPATCH2	G patch domain containing 2
1,018891197	0,92341	0,827596816	0,00989	GPATCH2	G patch domain containing 2
1,125058485	0,13287	1,16634937	0,00569	GPATCH4	G patch domain containing 4
0,692074858	0,0608	0,799960128	0,00118	GPATCH4	G patch domain containing 4
0,832775771	0,18936	0,86934456	0,00454	GPATCH8	G patch domain containing 8
0,712025098	0,06271	0,806082831	0,00012	GPBP1	GC-rich promoter binding protein 1
0,756283999	0,13697	0,852044095	0,02352	GPBP1	GC-rich promoter binding protein 1
0,788946841	0,47434	0,788946841	0,00684	GPBP1L1	GC-rich promoter binding protein 1-like 1
1,240567298	0,05121	1,360370852	0,00007	GPC4	glypican 4
1,172834949	0,10699	1,193335743	0,02946	GPC4	glypican 4
1,231998073	0,05495	1,118061851	0,04838	GPC6	glypican 6
0,977385766	0,82509	1,119612889	0,03165	GPD1	glycerol-3-phosphate dehydrogenase 1 (soluble)
1,172022284	0,18374	1,159899655	0,00699	GPHB5	glycoprotein hormone beta 5
0,844986384	0,22337	0,835666959	0,03091	GPHN	gephyrin
0,803293997	0,13159	0,787307977	0,00024	GPHN	gephyrin
1,050444544	0,52426	1,190856849	0,04953	GPIHBP1	glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1
1,144724161	0,1644	1,169587664	0,02642	GPM6A	glycoprotein M6A
0,959929261	0,79734	0,820741609	0,00374	GPN3	GPN-loop GTPase 3
0,773782497	0,29481	0,753667455	0,01389	GPNMB	glycoprotein (transmembrane) nmb
1,203303026	0,17067	1,165541198	0,01257	GPR101	G protein-coupled receptor 101
1,133669413	0,53859	1,227735684	0,00064	GPR108	G protein-coupled receptor 108
1,185914499	0,11098	1,338855257	0,00097	GPR110	G protein-coupled receptor 110
1,224336392	0,27173	1,481439798	0,00024	GPR116	G protein-coupled receptor 116
1,304050735	0,22679	1,364147835	0,003	GPR124	G protein-coupled receptor 124
1,164733586	0,11107	1,215879283	0,01504	GPR124	G protein-coupled receptor 124
0,828744904	0,31522	0,762600827	0,00726	GPR125	G protein-coupled receptor 125
0,651573575	0,18078	0,721464343	0,00069	GPR126	G protein-coupled receptor 126
1,081474763	0,49586	1,242288282	0,00934	GPR135	G protein-coupled receptor 135
1,062159186	0,58771	1,184271612	0,02401	GPR153	G protein-coupled receptor 153
0,735603373	0,20019	0,719965659	0,0026	GPR155	G protein-coupled receptor 155
0,962594443	0,82657	0,792784137	0,03861	GPR155	G protein-coupled receptor 155
1,289668251	0,21194	1,196648963	0,02215	GPR157	G protein-coupled receptor 157
0,772175133	0,08271	0,825877665	0,00949	GPR161	G protein-coupled receptor 161
1,128964405	0,29607	1,131314463	0,01357	GPR162	G protein-coupled receptor 162
1,07549439	0,79268	1,28877463	0,02268	GPR172A	G protein-coupled receptor 172A
1,157490217	0,27886	1,196648963	0,02293	GPR176	G protein-coupled receptor 176
0,963929808	0,84671	0,830470024	0,01558	GPR180	G protein-coupled receptor 180
1,163120042	0,05428	1,238848698	0,00294	GPR19	G protein-coupled receptor 19
0,775393206	0,33889	0,71548826	0,01911	GPR27	G protein-coupled receptor 27
1,154285418	0,12416	1,237132479	0,00119	GPR31	G protein-coupled receptor 31
1,10343374	0,27233	1,151887642	0,00776	GPR35	G protein-coupled receptor 35
0,66296288	0,07863	0,728499557	0,01328	GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)
1,135242102	0,28995	1,199139914	0,03126	GPR4	G protein-coupled receptor 4
1,030253954	0,7588	1,170398641	0,00454	GPR50	G protein-coupled receptor 50
1,132883885	0,10235	1,155085785	0,04861	GPR52	G protein-coupled receptor 52
1,121943481	0,29292	1,180992661	0,01517	GPR6	G protein-coupled receptor 6
1,114193651	0,30157	1,168777249	0,03512	GPR62	G protein-coupled receptor 62
1,337927555	0,07739	1,106497353	0,01069	GPR85	G protein-coupled receptor 85
0,771640088	0,14024	0,927230546	0,04675	GPR89A	G protein-coupled receptor 89A
1,183451022	0,09533	1,329607108	0,00068	GPR97	G protein-coupled receptor 97
1,210833084	0,42151	1,380317353	0,01223	GPRC5A	G protein-coupled receptor, family C, group 5, member A
1,190856849	0,13825	1,245737416	0,00247	GPRC5B	G protein-coupled receptor, family C, group 5, member B
1,070288698	0,48781	1,341642225	0,00004	GPRC5C	G protein-coupled receptor, family C, group 5, member C
1,25962998	0,06431	1,159899655	0,02867	GPRC5D	G protein-coupled receptor, family C, group 5, member D
0,897510051	0,36741	0,87175824	0,03759	GPSM1	G-protein signaling modulator 1
0,804408371	0,12865	0,85086373	0,04056	GPT2	glutamic pyruvate transaminase (alanine aminotransferase) 2
0,882702996	0,70583	1,208317843	0,0482	GPX1	glutathione peroxidase 1
1,100378609	0,41146	1,134455485	0,04897	GRAPL	GRB2-related adaptor protein-like
1,105730653	0,331	1,238848698	0,00029	GRASP	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein
1,119612889	0,43265	1,152686347	0,04025	GRB10	growth factor receptor-bound protein 10
0,993781093	0,96612	1,155886707	0,01303	GRB10	growth factor receptor-bound protein 10
1,286989247	0,05442	1,167158102	0,03199	GRB10	growth factor receptor-bound protein 10
1,140763716	0,23157	1,132883885	0,0062	GRB2	growth factor receptor-bound protein 2
1,163926534	0,05078	1,114966219	0,01828	GREB1L	growth regulation by estrogen in breast cancer-like
1,21167266	0,19706	1,311302014	0,00213	GRID1	glutamate receptor, ionotropic, delta 1
1,246601194	0,05495	1,342572503	0,00032	GRID1	glutamate receptor, ionotropic, delta 1
1,038859103	0,64415	1,151887642	0,02431	GRIK3	glutamate receptor, ionotropic, kainate 3
1,167158102	0,26269	1,147902414	0,01361	GRIK5	glutamate receptor, ionotropic, kainate 5
1,114193651	0,38309	1,150291893	0,04764	GRIK5	glutamate receptor, ionotropic, kainate 5
1,250062303	0,05162	1,264879542	0,00159	GRIN2A	glutamate receptor, ionotropic, N-methyl D-aspartate 2A
1,043188594	0,60417	1,151089491	0,01447	GRIN2C	glutamate receptor, ionotropic, N-methyl D-aspartate 2C
0,645281245	0,12137	0,722465199	0,00081	GRIP1	glutamate receptor interacting protein 1
1,021720083	0,84343	0,894404902	0,02412	GRIPAP1	GRIP1 associated protein 1
0,985549337	0,81968	0,825877665	0,0179	GRK4	G protein-coupled receptor kinase 4
1,040300267	0,67307	1,135242102	0,03547	GRK5	G protein-coupled receptor kinase 5
1,20163605	0,07697	1,215879283	0,00143	GRK5	G protein-coupled receptor kinase 5
1,172022284	0,20879	1,257884972	0,00019	GRK6	G protein-coupled receptor kinase 6
1,040300267	0,78264	1,178539408	0,02532	GRK6	G protein-coupled receptor kinase 6
1,00556058	0,94043	1,124278924	0,01707	GRM6	glutamate receptor, metabotropic 6
1,154285418	0,10834	1,141554707	0,00162	GRM7	glutamate receptor, metabotropic 7
0,917004043	0,42485	0,816768991	0,00295	GRPEL1	GrpE-like 1, mitochondrial (E. coli)
1,102669163	0,42997	1,155085785	0,00581	GRPR	gastrin-releasing peptide receptor
0,820741609	0,32866	0,808881348	0,00117	GRSF1	G-rich RNA sequence binding factor 1
0,847919965	0,38257	0,795536484	0,00053	GRSF1	G-rich RNA sequence binding factor 1
1,10343374	0,35097	1,217566019	0,00058	GSDMB	gasdermin B
1,117287138	0,465	1,188383105	0,00604	GSDMD	gasdermin D
0,831622098	0,24216	0,898755127	0,04963	GSPT1	G1 to S phase transition 1
0,810003474	0,09338	0,857376037	0,01714	GSPT1	G1 to S phase transition 1
0,581560021	0,15139	0,671751713	0,0302	GSPT1	G1 to S phase transition 1
0,986916546	0,93601	0,824162085	0,02724	GSPT1	G1 to S phase transition 1
0,959929261	0,76278	0,842062954	0,03951	GSTCD	glutathione S-transferase, C-terminal domain containing
1,022428531	0,8456	1,185092771	0,01052	GSTM1	glutathione S-transferase mu 1
0,91383145	0,47954	1,184271612	0,00506	GSTM1	glutathione S-transferase mu 1
0,968618189	0,80149	1,183451022	0,01362	GSTM2	glutathione S-transferase mu 2 (muscle)
1,0238469	0,84151	1,150291893	0,01495	GSTT1	glutathione S-transferase theta 1
1,029540083	0,76841	1,120389214	0,00386	GSX1	GS homeobox 1
1,104198847	0,40184	1,247465572	0,00222	GSX1	GS homeobox 1
0,999307093	0,99468	1,199139914	0,00352	GTF2A1	general transcription factor IIA, 1, 19/37kDa

0,846158597	0,1644	0,872362706	0,01931	GTF2A2	general transcription factor IIA, 2, 12kDa
0,778624691	0,09292	0,858565436	0,01726	GTF2B	general transcription factor IIB
0,698339266	0,13209	0,773782497	0,001	GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa
1	0,99854	0,827023368	0,01343	GTF2H1	general transcription factor IIH, polypeptide 1, 62kDa
0,899378312	0,3397	0,765248385	0,00001	GTF2IRD2	GTF2I repeat domain containing 2
0,8962667	0,23419	0,874784765	0,00438	GTF3C2	general transcription factor IIIC, polypeptide 2, beta 110kDa
0,902500727	0,34345	0,851453708	0,00239	GTF3C2	general transcription factor IIIC, polypeptide 2, beta 110kDa
0,853226098	0,40819	0,723467443	0,00206	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa
1,0132569	0,85897	1,07549439	0,03903	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa
0,71449707	0,05809	0,825305409	0,03418	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa
0,822450069	0,31759	0,791685866	0,00056	GTF3C3	general transcription factor IIIC, polypeptide 3, 102kDa
1,077733145	0,57844	1,151089491	0,01785	GTPBP1	GTP binding protein 1
0,76154437	0,18188	0,727994774	0,00028	GTPBP4	GTP binding protein 4
1,111879158	0,32189	1,21335356	0,00592	GTPBP5	GTP binding protein 5 (putative)
0,948026965	0,81548	0,821310701	0,03585	GTPBP8	GTP-binding protein 8 (putative)
0,827596816	0,12218	0,790589117	0,00486	GTPBP8	GTP-binding protein 8 (putative)
1,058484395	0,57603	1,153485605	0,01902	GUCA1A	guanylate cyclase activator 1A (retina)
1,096571589	0,40871	1,100378609	0,0439	GUCA1B	guanylate cyclase activator 1B (retina)
1,002776436	0,97687	1,138394029	0,00613	GUCY1A2	guanylate cyclase 1, soluble, alpha 2
1,104198847	0,43024	1,172834949	0,0114	GUCY1A3	guanylate cyclase 1, soluble, alpha 3
0,827023368	0,41035	0,748461493	0,00529	GUCY2C	guanylate cyclase 2C (heat stable enterotoxin receptor)
0,523405141	0,11333	0,804966138	0,00802	GUK1	guanylate kinase 1
0,923382311	0,83208	0,785128119	0,02013	GULP1	GULP, engulfment adaptor PTB domain containing 1
0,85797053	0,60391	0,673616788	0,00052	GULP1	GULP, engulfment adaptor PTB domain containing 1
1,215879283	0,21642	1,251796459	0,00224	GUSB	glucuronidase, beta
1,095811766	0,25599	1,159095952	0,04285	GUSBP11	glucuronidase, beta pseudogene 11
1,225185332	0,12817	1,204137381	0,0273	GUSBP3	glucuronidase, beta pseudogene 3
0,876605721	0,51385	0,774319028	0,00772	GXYLT1	glucoside xylosyltransferase 1
0,791137301	0,23771	0,749499801	0,0023	GXYLT1	glucoside xylosyltransferase 1
1,350974085	0,11526	1,378405153	0,00088	GXYLT2	glucoside xylosyltransferase 2
1,192508872	0,1185	1,108800644	0,02342	GYG2	glycogenin 2
1,096571589	0,297	1,120389214	0,04875	GYPB	glycophorin B (MNS blood group)
1,573524891	0,06202	1,70408819	0,00001	GYPC	glycophorin C (Gerbich blood group)
1,106497353	0,38324	1,153485605	0,02855	H1FNT	H1 histone family, member N, testis-specific
1,448942155	0,23151	1,578987773	0,00014	H1FX	H1 histone family, member X
1,048262476	0,55496	1,139973273	0,03989	H1FX-AS1	H1FX antisense RNA 1 (non-protein coding)
1,027401439	0,84738	1,20163605	0,03981	H2AFX	H2A histone family, member X
0,963261894	0,61817	1,091263877	0,04084	H2AFY	H2A histone family, member Y
0,755236293	0,30481	0,813379198	0,00529	H2AFY	H2A histone family, member Y
0,733058379	0,16673	0,847919965	0,00047	H2AFY	H2A histone family, member Y
0,549808075	0,05698	0,771640088	0,00463	H3F3B	H3 histone, family 3B (H3.3B)
0,593368399	0,1376	0,783497187	0,02395	H3F3B	H3 histone, family 3B (H3.3B)
1,059218335	0,64293	1,212512819	0,00189	HAAO	3-hydroxyanthranilate 3,4-dioxygenase
1,199139914	0,11619	1,237132479	0,00044	HABP4	hyaluronan binding protein 4
0,905633983	0,71277	0,665725807	0,00829	HACE1	HECT domain and ankyrin repeat containing, E3 ubiquitin protein ligase 1
0,912565489	0,51397	0,905006463	0,0243	HADH	hydroxyacyl-CoA dehydrogenase
0,828744904	0,08137	0,843815796	0,01484	HADH	hydroxyacyl-CoA dehydrogenase
1,198309021	0,07529	1,183451022	0,01576	HAGHL	hydroxyacylglutathione hydrolase-like
0,997922719	0,97847	1,133669413	0,02117	HARBI1	harbinger transposase derived 1
0,68491649	0,05249	0,70270935	0,00087	HAT1	histone acetyltransferase 1
0,986232704	0,91462	0,832775771	0,00982	HAUS1	HAUS augmin-like complex, subunit 1
1,051901779	0,70426	0,908778116	0,04183	HAUS2	HAUS augmin-like complex, subunit 2
0,963261894	0,87927	0,744322628	0,00474	HAUS3	HAUS augmin-like complex, subunit 3
0,90062598	0,48537	0,759962428	0,00587	HAUS6	HAUS augmin-like complex, subunit 6
0,8962667	0,70287	0,666187413	0,00009	HAUS6	HAUS augmin-like complex, subunit 6
1,101905116	0,31292	1,20163605	0,00353	HAVCR2	hepatitis A virus cellular receptor 2
1,107264584	0,3291	1,185092771	0,00497	HAVCR2	hepatitis A virus cellular receptor 2
1,051901779	0,81154	1,127400412	0,03796	HAX1	HCLS1 associated protein X-1
1,021012126	0,82624	1,168777249	0,0314	HBB	hemoglobin, beta
2,051956291	0,09423	2,573978495	0,00746	HBB	hemoglobin, beta
1,923854909	0,10237	2,278366754	0,00558	HBB	hemoglobin, beta
1,961558008	0,1129	2,550888783	0,0042	HBB	hemoglobin, beta
1,054091423	0,5181	1,212512819	0,00351	HBE1	hemoglobin, epsilon 1
1,133669413	0,1753	1,149494848	0,01947	HBM	hemoglobin, mu
0,77916458	0,06799	0,798298386	0,02218	HBP1	HMG-box transcription factor 1
1,192508872	0,10015	1,203303026	0,00374	HBQ1	hemoglobin, theta 1
0,910669834	0,69457	0,720464874	0,00296	HBS1L	HBS1-like (S. cerevisiae)
0,986232704	0,88781	0,853226098	0,00206	HBS1L	HBS1-like (S. cerevisiae)
0,812815602	0,20377	0,77916458	0,00323	HCCS	holocytochrome c synthase
0,873572896	0,06405	0,824162085	0,00951	HCCS	holocytochrome c synthase
0,932386486	0,40819	1,114966219	0,02949	HCFC1	host cell factor C1 (VP16-accessory protein)
1,009051634	0,96748	0,819036698	0,00548	HCFC2	host cell factor C2
0,655196702	0,05462	0,723467443	0,00006	HCG18	HLA complex group 18 (non-protein coding)
1,21335356	0,44902	0,806082831	0,01604	HCG18	HLA complex group 18 (non-protein coding)
1,315854525	0,05558	1,159095952	0,00366	HCG27	HLA complex group 27 (non-protein coding)
1,022428531	0,74091	1,156688184	0,00694	HCN1	hyperpolarization activated cyclic nucleotide-gated potassium channel 1
1,099616149	0,28073	1,100378609	0,04681	HCRTR1	hypocretin (orexin) receptor 1
1,07997656	0,45462	1,159095952	0,01604	HCRTR2	hypocretin (orexin) receptor 2
0,71548826	0,07729	0,868140228	0,00626	HDAC1	histone deacetylase 1
1,057750964	0,44977	1,28788163	0,00001	HDAC11	histone deacetylase 11
0,76950361	0,07086	0,860949188	0,00077	HDAC2	histone deacetylase 2
0,934975198	0,27478	0,842062954	0,00354	HDAC2	histone deacetylase 2
0,865736566	0,44259	0,768970416	0,00135	HDAC4	histone deacetylase 4
0,780786493	0,22837	0,90062598	0,03688	HDAC4	histone deacetylase 4
1,062159186	0,66717	1,257884972	0,00593	HDAC6	histone deacetylase 6
0,918912883	0,50896	0,860352631	0,01549	HDAC8	histone deacetylase 8
1,096571589	0,48749	1,123499903	0,022	HDDC3	HD domain containing 3
1,104964485	0,33635	1,22858698	0,00495	HDGFL1	hepatoma derived growth factor-like 1
0,832775771	0,29393	0,805524291	0,00024	HDHD2	haloacid dehalogenase-like hydrolase domain containing 2
0,934975198	0,81513	1,189207115	0,0269	HDLBP	high density lipoprotein binding protein
0,955282936	0,71342	0,869947353	0,04626	HEATR1	HEAT repeat containing 1
0,967947027	0,87318	0,792784137	0,03648	HEATR1	HEAT repeat containing 1
0,966606097	0,78704	0,811127156	0,00531	HEATR3	HEAT repeat containing 3
0,949342121	0,669	0,831622098	0,00028	HEATR3	HEAT repeat containing 3
1,001387256	0,98655	1,114193651	0,0267	HEATR4	HEAT repeat containing 4
0,965267025	0,88957	0,868742185	0,03841	HEATR5A	HEAT repeat containing 5A
0,732042848	0,09323	0,796088099	0,00615	HEATR5B	HEAT repeat containing 5B
0,990342872	0,90027	0,895025071	0,03722	HEATR6	HEAT repeat containing 6
0,90312651	0,28286	0,791137301	0,03353	HEATR7A	HEAT repeat containing 7A
1,067325338	0,48515	1,121943481	0,04467	HEATR8	HEAT repeat containing 8
0,828170661	0,29425	0,691595315	0,00008	HECTD1	HECT domain containing 1
1,035264924	0,89476	0,819604608	0,0117	HECTD2	HECT domain containing 2
0,91383145	0,66656	0,750019495	0,00595	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2
1,049716684	0,78999	1,234562607	0,01444	HEG1	HEG homolog 1 (zebrafish)

1,172834949	0,11999	1,212512819	0,00269	HELB	helicase (DNA) B
1,034547582	0,65848	1,153485605	0,01048	HELB	helicase (DNA) B
0,646176415	0,1276	0,602903914	0	HELLS	helicase, lymphoid-specific
0,734075318	0,10836	0,856781955	0,02199	HELLS	helicase, lymphoid-specific
0,901875378	0,69362	0,773246337	0,01023	HELLS	helicase, lymphoid-specific
0,91319825	0,28536	0,821310701	0,0022	HELQ	helicase, POLQ-like
0,882702996	0,30807	0,829319546	0,00402	HELQ	helicase, POLQ-like
0,932386486	0,66306	0,866937564	0,00982	HELQ	helicase, POLQ-like
1,142346247	0,30117	1,264003098	0,00373	HELZ	helicase with zinc finger
0,89688816	0,38037	1,107264584	0,02024	HEMK1	HemK methyltransferase family member 1
1,124278924	0,34016	1,238848698	0,00015	HEMK1	HemK methyltransferase family member 1
1,22010051	0,09844	1,210833084	0,00048	HEMK1	HemK methyltransferase family member 1
1,02313747	0,87031	1,194163187	0,00321	HEMK1	HemK methyltransferase family member 1
0,778624691	0,22308	0,813379198	0,00017	HERC2	hect domain and RLD 2
0,955282936	0,67009	0,849684999	0,00304	HERC3	hect domain and RLD 3
0,669427628	0,13159	0,820741609	0,00039	HERC4	hect domain and RLD 4
0,721464343	0,19718	0,756808396	0,00018	HERC4	hect domain and RLD 4
0,855595026	0,16745	0,844400887	0,005	HERC4	hect domain and RLD 4
0,708578698	0,14377	0,709561678	0,00694	HERC6	hect domain and RLD 6
0,85027416	0,63737	0,800514811	0,0061	HERPUD2	HERPUD family member 2
0,823591017	0,25535	0,789493887	0,0011	HERPUD2	HERPUD family member 2
1,034547582	0,73418	1,101141598	0,03274	HES1	hairy and enhancer of split 1, (Drosophila)
0,932386486	0,46066	0,925304428	0,03716	HES2	hairy and enhancer of split 2 (Drosophila)
0,808881348	0,25549	0,85086373	0,00943	HES2	hairy and enhancer of split 2 (Drosophila)
1,132098902	0,48485	1,340712592	0	HEXA	hexosaminidase A (alpha polypeptide)
0,952637998	0,81912	1,190856849	0,00192	HEXB	hexosaminidase B (beta polypeptide)
1,047536127	0,71835	1,29145735	0,00123	HEXDC	hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing
0,952637998	0,68425	0,866937564	0,0185	HEXIM1	hexamethylene bis-acetamide inducible 1
1,194163187	0,08192	1,180174343	0,0028	HEY1	hairy/enhancer-of-split related with YRPW motif 1
1,426025717	0,10016	1,277213759	0,00989	HEY1	hairy/enhancer-of-split related with YRPW motif 1
1,203303026	0,08517	1,304954948	0,00157	HFE	hemochromatosis
1,198309021	0,09117	1,174461971	0,01035	HFE	hemochromatosis
0,96727633	0,72786	1,147107024	0,01779	HFE	hemochromatosis
1,145517898	0,16618	1,28877463	0,00165	HFE	hemochromatosis
1,167967395	0,08962	1,159899655	0,00225	HFE	hemochromatosis
1,113421618	0,41565	1,183451022	0,00809	HFE	hemochromatosis
0,757333158	0,06059	0,845572287	0,00428	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase
0,842062954	0,10468	0,867538687	0,04246	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase
0,971980988	0,71385	0,911933166	0,0401	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase
0,957271458	0,67654	0,870550563	0,02841	HHAT	hedgehog acyltransferase
1,081474763	0,54535	1,113421618	0,0123	HHATL	hedgehog acyltransferase-like
1,17772279	0,14816	1,200803427	0,00282	HHIPL2	HHIP-like 2
0,989656656	0,92202	1,190031696	0,0216	HHLA1	HERV-H LTR-associating 1
1,142346247	0,21049	1,10343374	0,04618	HHLA3	HERV-H LTR-associating 3
0,976708529	0,87123	0,773782497	0,01277	HIAT1	hippocampus abundant transcript 1
1,481439798	0,07142	1,29056249	0,02383	HIBADH	3-hydroxyisobutyrate dehydrogenase
1,169587664	0,16147	1,28877463	0,0083	HIC1	hypermethylated in cancer 1
0,907519155	0,46876	0,807760778	0,00767	HIC2	hypermethylated in cancer 2
0,847332435	0,56365	0,801069878	0,00318	HIC2	hypermethylated in cancer 2
0,760489377	0,13053	0,742261785	0,0006	HIGD1A	HIG1 hypoxia inducible domain family, member 1A
0,758909626	0,14664	0,706616822	0,00105	HIGD1A	HIG1 hypoxia inducible domain family, member 1A
0,719965659	0,24923	0,662503509	0,00025	HIGD1A	HIG1 hypoxia inducible domain family, member 1A
1,008352455	0,92655	1,145517898	0,03518	HIGD1B	HIG1 hypoxia inducible domain family, member 1B
0,930449658	0,57108	1,145517898	0,01308	HIGD2A	HIG1 hypoxia inducible domain family, member 2A
1,209994089	0,17099	1,148698355	0,0327	HILS1	histone linker H1 domain, spermatid-specific 1
0,857376037	0,35663	0,784584098	0,0018	HINT1	histidine triad nucleotide binding protein 1
0,878430468	0,23988	0,868140228	0,02698	HINT1	histidine triad nucleotide binding protein 1
0,820172911	0,06771	0,636397468	0,00001	HINT3	histidine triad nucleotide binding protein 3
1,07549439	0,71539	0,710053679	0,01128	HINT3	histidine triad nucleotide binding protein 3
0,972654947	0,72171	0,889458994	0,0297	HIP1	huntingtin interacting protein 1
1,025267238	0,79582	1,187559666	0,0213	HIP1	huntingtin interacting protein 1
0,816768991	0,41432	0,757333158	0,02258	HIPK1	homeodomain interacting protein kinase 1
0,763129604	0,33575	0,701735863	0,00007	HIPK1	homeodomain interacting protein kinase 1
0,754190038	0,19363	0,779704843	0,01787	HIPK1	homeodomain interacting protein kinase 1
0,802737389	0,26044	0,810003474	0,00003	HIPK3	homeodomain interacting protein kinase 3
1,031683179	0,78118	1,20664392	0,00054	HIRIP3	HIRA interacting protein 3
1,054091423	0,6069	1,168777249	0,00791	HIST1H1D	histone cluster 1, H1d
0,939522749	0,58576	1,229438867	0,00152	HIST1H3H	histone cluster 1, H3h
1,175276328	0,1157	1,109569472	0,03508	HIST1H3J	histone cluster 1, H3j
0,885153765	0,18184	0,906890329	0,04463	HIST1H4B	histone cluster 1, H4b
0,921464186	0,81117	0,785128119	0,01259	HIST1H4C	histone cluster 1, H4c
1,059218335	0,67999	0,906261938	0,04999	HIST2H2AA3	histone cluster 2, H2aa3
0,863938187	0,43784	0,756808396	0,01723	HIVEP1	human immunodeficiency virus type I enhancer binding protein 1
0,78024548	0,09008	0,860352631	0,00656	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2
1,093535457	0,27831	1,16634937	0,03142	HIVEP3	human immunodeficiency virus type I enhancer binding protein 3
1,074004472	0,38398	1,147902414	0,01097	HIVEP3	human immunodeficiency virus type I enhancer binding protein 3
0,777546036	0,15944	0,752623374	0,02301	HIVEP3	human immunodeficiency virus type I enhancer binding protein 3
1,108800644	0,18736	1,227735684	0,00117	HJURP	Holliday junction recognition protein
0,976708529	0,90646	0,856781955	0,02089	HK2	hexokinase 2
1,181811547	0,10445	1,156688184	0,01163	HK3	hexokinase 3 (white cell)
1,101141598	0,47033	1,212512819	0,00032	HLA-A	major histocompatibility complex, class I, A
0,986916546	0,96131	1,336074078	0,00005	HLA-A	major histocompatibility complex, class I, A
1,00486382	0,99015	1,269270886	0,00944	HLA-B	major histocompatibility complex, class I, B
1,035982764	0,90929	1,372684431	0,00007	HLA-B	major histocompatibility complex, class I, B
1,060687741	0,8914	1,343503426	0,00253	HLA-B	major histocompatibility complex, class I, B
1,130530567	0,64953	1,427014506	0	HLA-C	major histocompatibility complex, class I, C
1,118837101	0,72175	1,409320755	0,00041	HLA-C	major histocompatibility complex, class I, C
1,17772279	0,55134	1,446934886	0	HLA-C	major histocompatibility complex, class I, C
1,327765158	0,05744	1,373636233	0,00001	HLA-C	major histocompatibility complex, class I, C
1,520978753	0,13143	1,682958965	0,00002	HLA-DMA	major histocompatibility complex, class II, DM alpha
1,027401439	0,79341	1,160703914	0,01306	HLA-DOA	major histocompatibility complex, class II, DO alpha
1,131314463	0,34005	1,272794935	0,00323	HLA-DOA	major histocompatibility complex, class II, DO alpha
1,225185332	0,10365	1,336074078	0,00293	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1
0,96727633	0,92042	1,479387509	0,00043	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1
1,134455485	0,42072	1,377450046	0,00344	HLA-DPB1	major histocompatibility complex, class II, DP beta 1
1,250062303	0,11892	1,352848231	0,03899	HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1
1,25092908	0,10583	1,216722359	0,04411	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
1,018891197	0,95537	1,333298677	0,00638	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
1,115739322	0,617	1,388955136	0,00274	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
1,088242442	0,74358	1,204972315	0,02415	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
1,152686347	0,47398	1,326845141	0,00308	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
0,995849753	0,97102	1,132098902	0,04258	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1
1,112650121	0,86193	1,372684431	0,00759	HLA-DRA	major histocompatibility complex, class II, DR alpha
1,175276328	0,66519	1,417157397	0,00334	HLA-DRA	major histocompatibility complex, class II, DR alpha

1,160703914	0,39033	1,387030969	0,00016	HLA-DRB6	major histocompatibility complex, class II, DR beta 6 (pseudogene)
0,965936329	0,88855	1,240567298	0,00656	HLA-E	major histocompatibility complex, class I, E
0,97874165	0,91645	1,139973273	0,01371	HLA-E	major histocompatibility complex, class I, E
1,056285625	0,82003	1,352848231	0,00021	HLA-F	major histocompatibility complex, class I, F
1,125058485	0,62225	1,350974085	0,00024	HLA-F	major histocompatibility complex, class I, F
1,307671349	0,31289	1,268391399	0,00089	HLA-G	major histocompatibility complex, class I, G
1,163120042	0,62961	1,311302014	0,00016	HLA-G	major histocompatibility complex, class I, G
1,0181852	0,94881	1,312211255	0,00042	HLA-G	major histocompatibility complex, class I, G
0,969289817	0,87183	1,219255094	0,00277	HLA-G	major histocompatibility complex, class I, G
1,159095952	0,15093	1,121943481	0,02905	HLCS	holocarboxylase synthetase (biotin-(proprionyl-CoA-carboxylase (ATP-hydrolysing)) ligase)
0,939522749	0,79909	1,275444392	0,01149	HM13	histocompatibility (minor) 13
1,081474763	0,35601	1,150291893	0,02154	HMCN2	hemicentin 2
1,101141598	0,42295	1,278985581	0,00561	HMCN2	hemicentin 2
0,860949188	0,07874	0,874784765	0,01296	HMGA2	high mobility group AT-hook 2
0,819604608	0,38295	0,880869374	0,04627	HMGA2	high mobility group AT-hook 2
0,863339559	0,22412	0,867538687	0,00378	HMGB1	high mobility group box 1
0,909408252	0,40012	0,917004043	0,04402	HMGB1	high mobility group box 1
0,788400174	0,1896	0,759962428	0,00007	HMGB1	high mobility group box 1
0,908778116	0,2761	0,889458994	0,00799	HMGB3	high mobility group box 3
0,995159722	0,97203	1,124278924	0,01875	HMGCL	3-hydroxymethyl-3-methylglutaryl-CoA lyase
0,653835674	0,12612	0,692554734	0,00009	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)
0,771105413	0,11738	0,866336856	0,00487	HMGN1	high mobility group nucleosome binding domain 1
0,743806881	0,08986	0,770571108	0,00017	HMGN3	high mobility group nucleosomal binding domain 3
0,817335328	0,36854	0,697371833	0,00198	HMGN5	high mobility group nucleosome binding domain 5
1,21167266	0,11215	1,157490217	0,00267	HMGXB3	HMG box domain containing 3
1,001387256	0,99025	1,099616149	0,02966	HMX1	H6 family homeobox 1
0,848507902	0,05961	0,880259014	0,01065	HN1L	hematological and neurological expressed 1-like
1,198309021	0,07187	1,170398641	0,01364	HNF4A	hepatocyte nuclear factor 4, alpha
1,030253954	0,88112	0,805524291	0,04497	HNMT	histamine N-methyltransferase
0,933679945	0,61384	0,865736566	0,02675	HNRNPA0	heterogeneous nuclear ribonucleoprotein A0
0,866336856	0,2538	0,911933166	0,04314	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1
0,751059963	0,13889	0,854409741	0,02519	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1
0,778085177	0,15149	0,738157203	0,00039	HNRNPA3	heterogeneous nuclear ribonucleoprotein A3
0,641268301	0,08904	0,839731493	0,02758	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B
0,908148418	0,42461	0,87175824	0,0089	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)
0,991716731	0,96596	0,816203046	0,00575	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)
0,933032992	0,48634	0,807201075	0,00077	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2)
0,85027416	0,08214	0,840313752	0,00038	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
0,617281303	0,08059	0,777546036	0,0003	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
0,841479482	0,45119	0,666187413	0,00007	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
0,864537231	0,07307	0,86934456	0,00116	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
1,035264924	0,85465	0,742261785	0,00268	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)
0,774855931	0,23043	0,736623843	0,01933	HNRNPH2	heterogeneous nuclear ribonucleoprotein H2 (H')
0,951318276	0,69181	0,831622098	0,0071	HNRNPK	heterogeneous nuclear ribonucleoprotein K
1,076240125	0,51685	1,147902414	0,01765	HNRNPM	heterogeneous nuclear ribonucleoprotein M
0,942784536	0,34515	1,125838586	0,00914	HNRNPM	heterogeneous nuclear ribonucleoprotein M
0,838568184	0,37086	0,822450069	0,04945	HNRNPM	heterogeneous nuclear ribonucleoprotein M
0,860949188	0,39261	0,801069878	0,00144	HNRNPR	heterogeneous nuclear ribonucleoprotein R
0,988285652	0,94435	0,840896415	0,03474	HNRNPR	heterogeneous nuclear ribonucleoprotein R
0,786217292	0,15362	0,859756486	0,03253	HNRNPU	heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)
0,557096825	0,13971	0,655196702	0,00556	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like
0,7944344	0,24622	0,862143545	0,03457	HNRPDL	heterogeneous nuclear ribonucleoprotein D-like
0,96727633	0,79955	0,819036698	0,02548	HNRPLL	heterogeneous nuclear ribonucleoprotein L-like
0,806082831	0,23192	0,793883931	0,00216	HOMER1	homer homolog 1 (Drosophila)
0,831045862	0,43007	0,691595315	0,00226	HOOK3	hook homolog 3 (Drosophila)
0,91319825	0,62955	0,785672517	0,02384	HOOK3	hook homolog 3 (Drosophila)
0,740206649	0,26517	0,722966147	0,00067	HOOK3	hook homolog 3 (Drosophila)
0,732042848	0,0909	0,681601304	0,01721	HOPX	HOP homeobox
0,886381699	0,51639	0,597909898	0,0008	HORMAD1	HORMA domain containing 1
1,143138335	0,14848	1,20163605	0,00589	HORMAD2	HORMA domain containing 2
1,07549439	0,47267	1,237990291	0,00038	HOXA11	homeobox A11
1,147107024	0,17841	1,088997015	0,03544	HOXA7	homeobox A7
1,104198847	0,42489	1,109569472	0,04782	HOXB13	homeobox B13
1,118837101	0,27261	1,098854218	0,03738	HOXB13-AS1	HOXB13 antisense RNA 1 (non-protein coding)
1,016070143	0,88137	1,190856849	0,00068	HOXB5	homeobox B5
1,285206337	0,05941	1,112650121	0,04347	HOXB7	homeobox B7
1,043911927	0,63082	1,167158102	0,00283	HOXB9	homeobox B9
1,02313747	0,82639	1,136816973	0,00874	HOXC11	homeobox C11
1,043911927	0,58379	1,171210181	0,00618	HOXC9	homeobox C9
0,986916546	0,91598	1,136816973	0,02804	HOXD10	homeobox D10
1,112650121	0,41853	1,21167266	0,00005	HOXD3	homeobox D3
0,946057647	0,48017	1,092777739	0,04951	HOXD4	homeobox D4
0,874784765	0,5094	0,782411782	0,00003	HP1BP3	heterochromatin protein 1, binding protein 3
1,180992661	0,28775	1,185914499	0,00535	HPCAL1	hippocalcin-like 1
0,959929261	0,71765	0,715984371	0,00057	HPRT1	hypoxanthine phosphoribosyltransferase 1
0,991716731	0,93393	1,128182137	0,04715	HPS1	Hermansky-Pudlak syndrome 1
1,132883885	0,20224	1,203303026	0,04514	HPS3	Hermansky-Pudlak syndrome 3
0,856781955	0,45738	0,778085177	0,00279	HPS5	Hermansky-Pudlak syndrome 5
0,745872013	0,10054	0,808320869	0,03384	HPSE	heparanase
1,116512962	0,45516	1,192508872	0,02132	HPSE2	heparanase 2
1,200803427	0,16244	1,298638603	0,00335	HPX	hemopexin
1,164733586	0,12797	1,218410264	0,00043	HPX	hemopexin
0,566049451	0,0923	0,793333843	0,0439	HRAS	v-Ha-ras Harvey rat sarcoma viral oncogene homolog
0,797192477	0,09754	0,620283649	0,00002	HRASLS	HRAS-like suppressor
0,96996191	0,65924	1,110338834	0,02981	HRASLS5	HRAS-like suppressor family, member 5
1,099616149	0,41045	1,192508872	0,00362	HRH3	histamine receptor H3
1,033830736	0,70454	1,195819797	0,00278	HS1BP3	HCLS1 binding protein 3
1,149494848	0,44565	0,820172911	0,02231	HS2ST1	heparan sulfate 2-O-sulfotransferase 1
0,899378312	0,35112	0,762600827	0,0031	HS3ST3A1	heparan sulfate (glucosamine) 3-O-sulfotransferase 3A1
0,949342121	0,60757	1,135242102	0,02418	HSD11B1L	hydroxysteroid (11-beta) dehydrogenase 1-like
1,072516617	0,51249	1,190856849	0,00851	HSD11B1L	hydroxysteroid (11-beta) dehydrogenase 1-like
0,816768991	0,05643	0,816768991	0,01205	HSD17B1	hydroxysteroid (17-beta) dehydrogenase 1
0,865736566	0,35878	0,844400887	0,00168	HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12
1,085229372	0,50636	1,174461971	0,0093	HSD17B14	hydroxysteroid (17-beta) dehydrogenase 14
1,167158102	0,09979	1,198309021	0,00586	HSD17B14	hydroxysteroid (17-beta) dehydrogenase 14
1,244874235	0,09815	1,419123356	0,00081	HSD17B14	hydroxysteroid (17-beta) dehydrogenase 14
1,193335743	0,06953	1,227735684	0,00054	HSD17B3	hydroxysteroid (17-beta) dehydrogenase 3
1,062159186	0,32897	1,104964485	0,03297	HSD3B1	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1
0,685391402	0,12601	0,734584317	0,0001	HSDL2	hydroxysteroid dehydrogenase like 2
0,739693755	0,07453	0,758383773	0,0072	HSF2	heat shock transcription factor 2
1,132883885	0,64959	1,516767545	0	HSP90B1	heat shock protein 90kDa beta (Grp94), member 1
1,358486285	0,05971	1,52308874	0,00557	HSPA12B	heat shock 70kD protein 12B
1,128964405	0,2499	1,172834949	0,03742	HSPA12B	heat shock 70kD protein 12B
0,8362464	0,15512	0,880869374	0,01464	HSPA14	heat shock 70kDa protein 14

1,076240125	0,72088	0,756283999	0,01193	HSPA14	heat shock 70kDa protein 14
1,140763716	0,19636	1,180992661	0,00043	HSPA1L	heat shock 70kDa protein 1-like
0,777007269	0,16308	0,709070018	0,00027	HSPA4	heat shock 70kDa protein 4
0,686818117	0,0537	0,865736566	0,01284	HSPA4	heat shock 70kDa protein 4
0,631126016	0,15055	0,785672517	0,00326	HSPA4	heat shock 70kDa protein 4
0,978063473	0,85902	1,219255094	0,04272	HSPA6	heat shock 70kDa protein 6 (HSP70B')
0,866336856	0,48116	0,78132788	0,00051	HSPA9	heat shock 70kDa protein 9 (mortalin)
1,29056249	0,07714	1,215036792	0,01623	HSPB2	heat shock 27kDa protein 2
1,158292806	0,23826	1,194163187	0,04635	HSPB6	heat shock protein, alpha-crystallin-related, B6
1,022428531	0,87723	1,295940965	0,00988	HSPB6	heat shock protein, alpha-crystallin-related, B6
1,111879158	0,19659	1,153485605	0,00673	HSPB7	heat shock 27kDa protein family, member 7 (cardiovascular)
1,220946513	0,05035	1,28788163	0,00215	HSPC072	hypothetical LOC29075
1,349102534	0,16356	1,561572985	0,00038	HSPG2	heparan sulfate proteoglycan 2
1,319507911	0,21615	1,321338406	0,01658	HSPG2	heparan sulfate proteoglycan 2
0,706127202	0,07578	0,671751713	0,0001	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa
1,006257823	0,91446	1,092020546	0,01726	HTN1	histatin 1
1,00765376	0,93067	1,190031696	0,01067	HTR1A	5-hydroxytryptamine (serotonin) receptor 1A
1,242288282	0,12708	1,123499903	0,04358	HTR1B	5-hydroxytryptamine (serotonin) receptor 1B
1,143930973	0,19881	1,392811481	0,00006	HTR4	5-hydroxytryptamine (serotonin) receptor 4
1,137605228	0,12688	1,142346247	0,03124	HTR6	5-hydroxytryptamine (serotonin) receptor 6
1,095052471	0,46803	1,148698355	0,03765	HTR7	5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)
1,000693387	0,99763	1,399585866	0,00547	HTRA1	HtrA serine peptidase 1
1,033830736	0,8475	1,16634937	0,00595	HTRA2	HtrA serine peptidase 2
1,050444544	0,69916	1,145517898	0,02976	HTRA2	HtrA serine peptidase 2
0,842062954	0,06534	0,836826243	0,02765	HUNK	hormonally up-regulated Neu-associated kinase
0,924663278	0,43165	0,833931044	0,00019	HUS1	HUS1 checkpoint homolog (S. pombe)
1,190856849	0,32943	0,891310496	0,03441	HUS1	HUS1 checkpoint homolog (S. pombe)
1,249196126	0,08679	1,154285418	0,03858	HVCN1	hydrogen voltage-gated channel 1
0,948684315	0,54711	1,092777739	0,04919	HYDIN2	hydrocephalus inducing homolog 2 (mouse)
1,153485605	0,39676	1,231998073	0,00834	HYI	hydroxypyruvate isomerase (putative)
1,022428531	0,92039	0,776468875	0,00634	HYMAI	hydatidiform mole associated and imprinted (non-protein coding)
1,576800348	0,05862	1,4054187	0,00054	HYOU1	hypoxia up-regulated 1
0,794985251	0,05478	0,819036698	0,00284	IARS	isoleucyl-tRNA synthetase
0,924663278	0,69775	0,815072332	0,00125	IBTK	inhibitor of Bruton agammaglobulinemia tyrosine kinase
1,000693387	0,99459	1,190856849	0,00269	ICA1	islet cell autoantigen 1, 69kDa
1,057750964	0,67659	1,135242102	0,03385	ICA1	islet cell autoantigen 1, 69kDa
1,068065408	0,64807	1,337000495	0,0337	ICAM1	intercellular adhesion molecule 1
1,083725967	0,53985	1,337000495	0,00245	ICAM1	intercellular adhesion molecule 1
1,221793102	0,05266	1,236275261	0,00291	ICOS	inducible T-cell co-stimulator
1,058484395	0,52381	1,167158102	0,00522	ICOSLG	inducible T-cell co-stimulator ligand
0,74277646	0,15156	0,686818117	0,00059	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
0,657927263	0,06025	0,656105627	0,00046	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
0,87417862	0,43717	0,649319301	0,00108	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
0,754712984	0,16873	0,844400887	0,0026	IDE	insulin-degrading enzyme
0,821310701	0,08486	0,827596816	0,04712	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble
1,030968319	0,73701	1,155085785	0,01476	IDI1	isopentenyl-diphosphate delta isomerase 1
0,785128119	0,09762	0,670821112	0,00007	IDS	iduronate 2-sulfatase
0,894404902	0,36325	0,778624691	0,00015	IDS	iduronate 2-sulfatase
0,976031761	0,8298	0,831622098	0,02774	IDS	iduronate 2-sulfatase
1,043911927	0,50861	0,890075733	0,02036	IDS	iduronate 2-sulfatase
0,726986259	0,11915	0,820741609	0,00812	IDS	iduronate 2-sulfatase
0,806082831	0,15441	0,849096246	0,00352	IDS	iduronate 2-sulfatase
1,019597683	0,92684	1,236275261	0,04816	IDUA	iduronidase, alpha-L-
1,16634937	0,15471	1,167967395	0,00465	IDUA	iduronidase, alpha-L-
0,892546971	0,44602	0,826450318	0,00841	IER3IP1	immediate early response 3 interacting protein 1
1,261377409	0,10076	1,215036792	0,0023	IFFO1	intermediate filament family orphan 1
0,813379198	0,12342	0,836826243	0,02124	IFI16	interferon, gamma-inducible protein 16
0,759435845	0,06771	0,838568184	0,03072	IFI16	interferon, gamma-inducible protein 16
1,286989247	0,14247	1,474269217	0,00016	IFI35	interferon-induced protein 35
0,778085177	0,19076	0,740719899	0,00589	IFIH1	interferon induced with helicase C domain 1
0,96996191	0,91271	1,325007017	0,00129	IFITM1	interferon induced transmembrane protein 1 (9-27)
0,996540263	0,97816	1,217566019	0,00114	IFITM10	interferon induced transmembrane protein 10
1,112650121	0,67277	1,469168633	0,00003	IFITM2	interferon induced transmembrane protein 2 (1-8D)
0,966606097	0,89309	1,268391399	0,00331	IFITM3	interferon induced transmembrane protein 3
1,115739322	0,31785	1,25962998	0,00437	IFLTD1	intermediate filament tail domain containing 1
1,182631	0,14985	1,135242102	0,03501	IFNA10	interferon, alpha 10
1,234562607	0,06016	1,224336392	0,0018	IFNA17	interferon, alpha 17
1,037419937	0,71172	1,133669413	0,04177	IFNA21	interferon, alpha 21
1,068065408	0,47444	1,135242102	0,04361	IFNA4	interferon, alpha 4
1,090507733	0,22441	1,231144413	0,0012	IFNA7	interferon, alpha 7
1,134455485	0,30253	1,229438867	0,00544	IFNAR1	interferon (alpha, beta and omega) receptor 1
0,868140228	0,2099	0,877821798	0,04947	IFNE	interferon, epsilon
0,902500727	0,7565	0,692554734	0,00035	IFNGR1	interferon gamma receptor 1
0,674551267	0,14571	0,729004689	0,00031	IFRD1	interferon-related developmental regulator 1
1,118061851	0,32172	1,20664392	0,03521	IFT122	intraflagellar transport 122 homolog (Chlamydomonas)
0,877213549	0,40696	1,144724161	0,02774	IFT122	intraflagellar transport 122 homolog (Chlamydomonas)
1,292352831	0,0536	1,204137381	0,00039	IFT172	intraflagellar transport 172 homolog (Chlamydomonas)
1,077733145	0,48623	1,116512962	0,04038	IFT20	intraflagellar transport 20 homolog (Chlamydomonas)
1,25962998	0,22429	1,351910833	0,00041	IFT27	intraflagellar transport 27 homolog (Chlamydomonas)
1	0,99971	1,23370717	0,00189	IFT27	intraflagellar transport 27 homolog (Chlamydomonas)
1,250062303	0,22988	0,854409741	0,02951	IFT57	intraflagellar transport 57 homolog (Chlamydomonas)
0,859756486	0,42737	0,691116103	0,00018	IFT74	intraflagellar transport 74 homolog (Chlamydomonas)
0,926588062	0,4148	0,86934456	0,0018	IFT74	intraflagellar transport 74 homolog (Chlamydomonas)
0,859756486	0,15572	0,886381699	0,03933	IFT88	intraflagellar transport 88 homolog (Chlamydomonas)
1,049716684	0,59968	1,132098902	0,02447	IGDCC3	immunoglobulin superfamily, DCC subclass, member 3
1,748357241	0,09816	1,591072968	0,00507	IGDCC4	immunoglobulin superfamily, DCC subclass, member 4
1,368883813	0,07959	1,284315809	0,03655	IGF1	insulin-like growth factor 1 (somatomedin C)
0,807760778	0,22418	0,65747138	0,00005	IGF1R	insulin-like growth factor 1 receptor
0,734584317	0,32919	0,602068691	0,00005	IGF1R	insulin-like growth factor 1 receptor
1,117287138	0,16514	1,094293701	0,04518	IGF1R	insulin-like growth factor 1 receptor
1,044635763	0,62994	1,136029265	0,02556	IGF2BP2	insulin-like growth factor 2 mRNA binding protein 2
1,047536127	0,51493	1,143930973	0,0015	IGF2BP3	insulin-like growth factor 2 mRNA binding protein 3
0,839731493	0,26448	0,671286251	0,01185	IGF2BP3	insulin-like growth factor 2 mRNA binding protein 3
0,703684188	0,27339	0,829894586	0,01181	IGF2R	insulin-like growth factor 2 receptor
1,318593614	0,4376	1,950710923	0,00128	IGFBP4	insulin-like growth factor binding protein 4
1,035264924	0,88795	1,536875181	0,00291	IGFBP5	insulin-like growth factor binding protein 5
1,056285625	0,79744	1,71356391	0,00025	IGFBP5	insulin-like growth factor binding protein 5
1,046810282	0,59023	1,231144413	0,00355	IGFBP7	insulin-like growth factor binding protein 7
0,679714121	0,0505	0,664342907	0,0201	IGFL1	IGF-like family member 1
1,128964405	0,28867	1,348167732	0,00189	IGH@	immunoglobulin heavy locus
1,084477409	0,32808	1,164733586	0,02952	IGHA1	immunoglobulin heavy constant alpha 1
1,134455485	0,40245	1,223488041	0,01364	IGHE	immunoglobulin heavy constant epsilon
2,687006851	0,05724	4,095387602	0,00006	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker)
1,090507733	0,34644	0,898755127	0,03004	IGHMBP2	immunoglobulin mu binding protein 2

1,185914499	0,17143	1,270150983	0,00053	IGHMBP2	immunoglobulin mu binding protein 2
1,092777739	0,23375	1,137605228	0,03336	IGHV3OR16-1	immunoglobulin heavy variable 3/OR16-13 (non-functional)
1,059952783	0,34098	1,071030823	0,03367	IGHV5-78	immunoglobulin heavy variable 5-78 (pseudogene)
1,053361036	0,88486	2,046274939	0,00006	IGKC	immunoglobulin kappa constant
1,423063461	0,07016	1,541142217	0,00399	IGLJ3	immunoglobulin lambda joining 3
1,171210181	0,05793	1,137605228	0,01247	IGLL1	immunoglobulin lambda-like polypeptide 1
1,358486285	0,11216	1,529436278	0,00091	IGLV4-3	immunoglobulin lambda variable 4-3
1,204972315	0,09674	1,095811766	0,04936	IGSF11	immunoglobulin superfamily, member 11
1,123499903	0,22427	1,132883885	0,02593	IGSF22	immunoglobulin superfamily, member 22
1,022428531	0,85424	1,246601194	0,00115	IGSF3	immunoglobulin superfamily, member 3
1,098092814	0,22506	1,150291893	0,00613	IGSF5	immunoglobulin superfamily, member 5
0,724471077	0,05396	0,870550563	0,00984	IKBKAP	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
0,777546036	0,0969	0,867538687	0,00854	IKBKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
1,118061851	0,30775	1,170398641	0,00889	IKBKG	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
1,145517898	0,11865	1,139973273	0,03348	IKZF1	IKAROS family zinc finger 1 (Ikaros)
1,099616149	0,29352	1,215879283	0,00842	IKZF4	IKAROS family zinc finger 4 (Eos)
0,906890329	0,69964	0,78024548	0,01496	IKZF5	IKAROS family zinc finger 5 (Pegasus)
0,937571096	0,44036	1,185914499	0,01621	IL11	interleukin 11
1,348167732	0,05195	1,184271612	0,00782	IL17RA	interleukin 17 receptor A
1,076240125	0,47082	1,154285418	0,02428	IL17RA	interleukin 17 receptor A
1,244011653	0,13011	1,194163187	0,01034	IL17RB	interleukin 17 receptor B
0,651573575	0,14421	0,66158572	0,00002	IL17RD	interleukin 17 receptor D
0,895025071	0,49306	0,807201075	0,0128	IL1RAP	interleukin 1 receptor accessory protein
1,180174343	0,08551	1,167158102	0,01675	IL1RAPL2	interleukin 1 receptor accessory protein-like 2
0,855595026	0,50594	1,134455485	0,04224	IL1RN	interleukin 1 receptor antagonist
0,717972255	0,14208	0,662044455	0,00056	IL20RA	interleukin 20 receptor, alpha
1,021012126	0,81966	1,097331938	0,01126	IL23A	interleukin 23, alpha subunit p19
0,980099415	0,85537	1,133669413	0,00537	IL25	interleukin 25
1,0181852	0,7907	1,21167266	0,00368	IL27	interleukin 27
1,157490217	0,09745	1,289668251	0,00091	IL27RA	interleukin 27 receptor, alpha
1,033830736	0,76285	1,193335743	0,01036	IL28RA	interleukin 28 receptor, alpha (interferon, lambda receptor)
1,28788163	0,27411	1,623379162	0,00049	IL32	interleukin 32
1,068805991	0,53995	1,244874235	0,00043	IL37	interleukin 37
1,142346247	0,29143	1,20163605	0,01738	IL5RA	interleukin 5 receptor, alpha
0,925946023	0,75319	0,665264521	0,00088	IL7	interleukin 7
1,634670657	0,05074	1,397646972	0,01986	IL7R	interleukin 7 receptor
1,617762697	0,06506	1,684125907	0,00451	IL7R	interleukin 7 receptor
0,651122095	0,10279	0,826450318	0,02665	ILF3	interleukin enhancer binding factor 3, 90kDa
0,958599438	0,82195	0,820741609	0,01012	ILF3	interleukin enhancer binding factor 3, 90kDa
0,930449658	0,72337	1,16634937	0,03444	ILK	integrin-linked kinase
0,915733686	0,54929	0,816768991	0,04753	IMMP1L	IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae)
0,940174203	0,71302	0,811689581	0,03965	IMMP2L	IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae)
0,859160755	0,47992	0,807201075	0,01015	IMPACT	Impact homolog (mouse)
0,980779004	0,84779	1,125058485	0,01791	IMPDH1	IMP (inosine 5'-monophosphate) dehydrogenase 1
0,958599438	0,6393	1,128182137	0,00766	IMPDH2	IMP (inosine 5'-monophosphate) dehydrogenase 2
0,589678296	0,06406	0,677362489	0,00003	INADL	InaD-like (Drosophila)
1,060687741	0,77646	0,765778999	0,00422	ING3	inhibitor of growth family, member 3
0,752101876	0,09575	0,60332196	0,00002	ING5	inhibitor of growth family, member 5
1,32408891	0,12621	1,461044379	0,03859	INHBA	inhibin, beta A
1,163926534	0,06316	1,135242102	0,04821	INHBC	inhibin, beta C
1,248330549	0,07929	1,184271612	0,02389	INHBE	inhibin, beta E
1,027401439	0,9367	0,668963777	0,00274	INO80D	INO80 complex subunit D
1,040300267	0,5876	1,157490217	0,01522	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa
1,216722359	0,06499	1,120389214	0,04557	INPP4A	inositol polyphosphate-4-phosphatase, type I, 107kDa
1,311302014	0,11974	0,819604608	0,01279	INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa
0,857376037	0,27543	0,865136691	0,00483	INPP5A	inositol polyphosphate-5-phosphatase, 40kDa
1,100378609	0,43999	1,173648178	0,01129	INPPL1	inositol polyphosphate phosphatase-like 1
1,172022284	0,19943	1,241427492	0,00375	INSL3	insulin-like 3 (Leydig cell)
1,142346247	0,20174	1,138394029	0,04822	INSM2	insulinoma-associated 2
1,195819797	0,05556	1,240567298	0,00389	INSR	insulin receptor
0,765248385	0,06468	0,885153765	0,03343	INTS10	integrator complex subunit 10
0,822450069	0,47409	0,790589117	0,03323	INTS2	integrator complex subunit 2
0,827023368	0,38135	0,771640088	0,00274	INTS6	integrator complex subunit 6
0,755236293	0,11085	0,665264521	0,00001	INTS6	integrator complex subunit 6
0,846745312	0,29237	0,842062954	0,00501	INTS6	integrator complex subunit 6
0,824733549	0,10358	0,760489377	0,00196	INTS7	integrator complex subunit 7
0,803293997	0,24792	0,592135806	0	INTS7	integrator complex subunit 7
0,918276162	0,45867	0,847332435	0,00409	IP6K2	inositol hexakisphosphate kinase 2
1,057750964	0,3682	1,092777739	0,03326	IP6K3	inositol hexakisphosphate kinase 3
1,07549439	0,6076	0,845572287	0,01223	IPMK	inositol polyphosphate multikinase
1,047536127	0,5915	1,128964405	0,0337	IPO11	importin 11
0,90312651	0,62074	0,7944344	0,0435	IPO11	importin 11
0,942131274	0,54936	0,763129604	0,00004	IPO5	importin 5
0,927230546	0,68147	0,672683604	0,00645	IPO5	importin 5
0,782954296	0,05751	0,847332435	0,005	IPO5	importin 5
0,78132788	0,10138	0,784584098	0,00155	IPO7	importin 7
0,860949188	0,43614	0,847919965	0,00282	IPO7	importin 7
0,864537231	0,49927	0,852634892	0,01201	IPO7	importin 7
0,812252396	0,07768	0,859756486	0,00564	IPO9	importin 9
0,756283999	0,12324	0,840313752	0,03826	IPP	intracisternal A particle-promoted polypeptide
0,952637998	0,52584	0,827023368	0,00664	IQCA1	IQ motif containing with AAA domain 1
1,197478705	0,06741	1,100378609	0,03783	IQCH	IQ motif containing H
1,016070143	0,89272	0,883927531	0,00482	IQCK	IQ motif containing K
0,985549337	0,82171	0,887611337	0,01449	IQCK	IQ motif containing K
0,755236293	0,15209	0,760489377	0,00446	IQGAP1	IQ motif containing GTPase activating protein 1
0,623732786	0,19041	0,765248385	0,0152	IQGAP1	IQ motif containing GTPase activating protein 1
1,274560627	0,12678	1,186736798	0,0012	IQSEC1	IQ motif and Sec7 domain 1
1,194991205	0,11827	1,200803427	0,00283	IQSEC3	IQ motif and Sec7 domain 3
1,164733586	0,13162	1,109569472	0,04249	IQSEC3	IQ motif and Sec7 domain 3
0,70759708	0,10543	0,700763725	0,00069	IREB2	iron-responsive element binding protein 2
0,759435845	0,24788	0,726986259	0,0117	IREB2	iron-responsive element binding protein 2
0,712025098	0,24489	0,595841287	0,00015	IREB2	iron-responsive element binding protein 2
1,525201653	0,06969	1,337000495	0,00027	IRF1	interferon regulatory factor 1
0,864537231	0,37564	0,804408371	0,00401	IRF2BP2	interferon regulatory factor 2 binding protein 2
0,883927531	0,23111	0,806641759	0,00447	IRF2BP2	interferon regulatory factor 2 binding protein 2
0,733566672	0,05183	0,745355193	0,00195	IRF2BP2	interferon regulatory factor 2 binding protein 2
1,090507733	0,33609	1,117287138	0,04649	IRF2BP2	interferon regulatory factor 2 binding protein 2
0,997231251	0,98849	1,289668251	0,00281	IRF3	interferon regulatory factor 3
1,092777739	0,41392	1,229438867	0,00031	IRF5	interferon regulatory factor 5
1,163926534	0,26268	1,244011653	0,00293	IRF5	interferon regulatory factor 5
1,188383105	0,11359	1,159899655	0,02033	IRG1	immunoresponsive 1 homolog (mouse)
0,947370071	0,73902	0,811127156	0,00225	IRS2	insulin receptor substrate 2
0,812252396	0,2603	0,818469182	0,00488	IRS2	insulin receptor substrate 2
0,717972255	0,05528	0,687770909	0,00037	IRX4	iroquois homeobox 4

0,817902059	0,09818	0,787853886	0,00148	ISCA1	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)
0,748461493	0,17315	0,695923196	0,00052	ISCA1	iron-sulfur cluster assembly 1 homolog (S. cerevisiae)
0,783497187	0,43926	0,840313752	0,01829	ISG20L2	interferon stimulated exonuclease gene 20kDa-like 2
1,033830736	0,7044	1,149494848	0,00368	ISG20L2	interferon stimulated exonuclease gene 20kDa-like 2
0,811689581	0,42315	0,552865327	0,00174	ISL1	ISL LIM homeobox 1
1,250062303	0,1559	1,365093718	0,00407	ISLR	immunoglobulin superfamily containing leucine-rich repeat
0,686342216	0,05413	0,656105627	0,00003	ISOC1	isochorismatase domain containing 1
1,060687741	0,62489	0,877821798	0,01447	ISY1	ISY1 splicing factor homolog (S. cerevisiae)
1,330529041	0,09571	1,455989549	0,00016	ISYNA1	inositol-3-phosphate synthase 1
1,001387256	0,9961	0,724973416	0,02411	ITCH	itchy E3 ubiquitin protein ligase homolog (mouse)
1,081474763	0,68797	0,873572896	0,04139	ITFG1	integrin alpha FG-GAP repeat containing 1
0,945402117	0,54551	0,90312651	0,03925	ITFG1	integrin alpha FG-GAP repeat containing 1
0,943438251	0,67761	1,22010051	0,00083	ITFG2	integrin alpha FG-GAP repeat containing 2
1,035264924	0,7023	1,232852325	0,00097	ITGA11	integrin, alpha 11
1,106497353	0,48858	1,354724977	0,00355	ITGA11	integrin, alpha 11
1,034547582	0,85875	1,498999602	0,00302	ITGA7	integrin, alpha 7
0,949342121	0,80956	1,118061851	0,04382	ITGA8	integrin, alpha 8
1,168777249	0,07294	1,118061851	0,02587	ITGA9	integrin, alpha 9
0,944747041	0,72131	1,21167266	0,03043	ITGA9	integrin, alpha 9
1,135242102	0,11738	1,129747215	0,0152	ITGAD	integrin, alpha D
0,748461493	0,06468	0,833353207	0,00281	ITGB1BP1	integrin beta 1 binding protein 1
0,96727633	0,78851	0,835666959	0,00179	ITGB1BP1	integrin beta 1 binding protein 1
1,040300267	0,56889	1,132098902	0,01987	ITGB1BP2	integrin beta 1 binding protein (melusin) 2
1,072516617	0,49536	1,117287138	0,03886	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
1,00486382	0,94551	1,143930973	0,03761	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
1,152686347	0,24924	1,234562607	0,01525	ITGB4	integrin, beta 4
0,985549337	0,88114	0,777546036	0,00971	ITGB5	integrin, beta 5
0,723969086	0,22375	0,778624691	0,017	ITGB8	integrin, beta 8
0,789493887	0,15251	0,737645729	0,01443	ITGB8	integrin, beta 8
0,690158677	0,05033	0,794985251	0,04244	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domains)
1,184271612	0,06932	1,187559666	0,0118	ITIH2	inter-alpha (globulin) inhibitor H2
1,121943481	0,29224	1,21167266	0,01245	ITIH4	inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein)
1,168777249	0,34581	1,21335356	0,04163	ITIH5	inter-alpha (globulin) inhibitor H5
0,87175824	0,10993	0,870550563	0,03253	ITM2B	integral membrane protein 2B
0,685391402	0,13279	0,660211421	0,00114	ITPR2	inositol 1,4,5-trisphosphate receptor, type 2
0,603740296	0,07886	0,722966147	0,00433	ITPR2	inositol 1,4,5-trisphosphate receptor, type 2
0,711531731	0,25448	0,748461493	0,02666	ITPRIPL2	inositol 1,4,5-trisphosphate receptor interacting protein-like 2
0,76950361	0,13259	0,789493887	0,00594	ITPRIPL2	inositol 1,4,5-trisphosphate receptor interacting protein-like 2
1,100378609	0,30096	1,111879158	0,0177	ITSN1	intersectin 1 (SH3 domain protein)
0,833931044	0,34062	0,809442217	0,01473	ITSN2	intersectin 2
1,153485605	0,16331	1,165541198	0,00562	ITSN2	intersectin 2
1,072516617	0,66485	1,105730653	0,04478	IVD	isovaleryl-CoA dehydrogenase
1,07549439	0,41051	1,300440147	0,00268	IVD	isovaleryl-CoA dehydrogenase
0,953298545	0,73695	0,791137301	0,00539	IVNS1ABP	influenza virus NS1A binding protein
0,778085177	0,17227	0,891928519	0,02613	IWS1	IWS1 homolog (S. cerevisiae)
1,038139271	0,70256	0,852634892	0,02692	IYD	iodotyrosine deiodinase
1,077733145	0,27869	1,132098902	0,01652	IZUMO4	IZUMO family member 4
0,789493887	0,16453	0,836826243	0,01363	JAG1	jagged 1
0,838568184	0,33292	0,815072332	0,01978	JAK2	Janus kinase 2
0,882702996	0,28915	0,784040454	0,0489	JAK2	Janus kinase 2
1,07997656	0,46859	1,105730653	0,02984	JAK3	Janus kinase 3
1,271031689	0,13455	1,43893358	0,00911	JAM2	junctional adhesion molecule 2
1,038139271	0,78545	1,312211255	0,02307	JAM3	junctional adhesion molecule 3
0,979420298	0,83974	1,151089491	0,02757	JAM3	junctional adhesion molecule 3
0,951318276	0,58712	1,21167266	0,03472	JAM3	junctional adhesion molecule 3
0,706127202	0,06733	0,798298386	0,01921	JHDM1D	jumonji C domain containing histone demethylase 1 homolog D (S. cerevisiae)
1,156688184	0,54048	0,709561678	0,00626	JHDM1D	jumonji C domain containing histone demethylase 1 homolog D (S. cerevisiae)
1,043911927	0,86353	0,827023368	0,00485	JKAMP	JNK1/MAPK8-associated membrane protein
0,882702996	0,56054	0,71400199	0,00768	JMJD1C	jumonji domain containing 1C
0,760489377	0,407	0,812252396	0,00087	JMJD1C	jumonji domain containing 1C
1,138394029	0,28723	1,184271612	0,01187	JMJD4	jumonji domain containing 4
1,052631155	0,617	1,229438867	0,00268	JMJD4	jumonji domain containing 4
1,207480591	0,10159	1,204137381	0,00007	JMJD5	jumonji domain containing 5
1,016774673	0,92824	1,229438867	0,00887	JMJD6	jumonji domain containing 6
0,780786493	0,09408	0,85027416	0,03651	JMJD7	jumonji domain containing 7
0,705637922	0,11225	0,738669032	0,01059	JMY	junction mediating and regulatory protein, p53 cofactor
1,006257823	0,9426	1,153485605	0,00791	JPH1	junctophilin 1
0,774855931	0,42844	0,704660378	0,00521	JPH1	junctophilin 1
1,179356592	0,2051	1,221793102	0,00332	JPH2	junctophilin 2
1,059218335	0,48999	1,112650121	0,02039	JPH3	junctophilin 3
0,655651007	0,05712	0,765248385	0,00424	JPX	JPX transcript, XIST activator (non-protein coding)
0,852634892	0,12879	0,853226098	0,00284	JPX	JPX transcript, XIST activator (non-protein coding)
1,110338834	0,19639	1,106497353	0,03003	JTB	jumping translocation breakpoint
0,684441907	0,05696	0,756283999	0,00058	JUB	jub, ajuba homolog (Xenopus laevis)
1,199139914	0,05569	1,186736798	0,00135	KANK1	KN motif and ankyrin repeat domains 1
1,008352455	0,9662	0,668500248	0,00005	KANK1	KN motif and ankyrin repeat domains 1
0,938221197	0,55453	0,879649076	0,02207	KANK1	KN motif and ankyrin repeat domains 1
1,159899655	0,17913	1,169587664	0,01061	KANK2	KN motif and ankyrin repeat domains 2
1,240567298	0,09406	1,279872414	0,01206	KANK2	KN motif and ankyrin repeat domains 2
0,700763725	0,05061	0,673150035	0,00001	KARS	lysyl-tRNA synthetase
0,643940815	0,07943	0,652477474	0,00513	KAT2B	K(lysine) acetyltransferase 2B
1,102669163	0,2848	1,193335743	0,00593	KAZALD1	Kazal-type serine peptidase inhibitor domain 1
0,880869374	0,06125	0,860352631	0,01558	KAZALD1	Kazal-type serine peptidase inhibitor domain 1
0,823020345	0,09441	0,757333158	0,0012	KAZN	kazrin, periplakin interacting protein
0,855595026	0,22151	0,752101876	0,00227	KBTBD6	kelch repeat and BTB (POZ) domain containing 6
0,885153765	0,54796	0,840313752	0,01678	KBTBD6	kelch repeat and BTB (POZ) domain containing 6
0,934327347	0,75619	0,79940583	0,01414	KBTBD7	kelch repeat and BTB (POZ) domain containing 7
0,708578698	0,09968	0,733566672	0,00012	KCMF1	potassium channel modulatory factor 1
0,815072332	0,38402	0,66158572	0,00002	KCMF1	potassium channel modulatory factor 1
1,243149669	0,07738	1,114193651	0,02331	KCNA2	potassium voltage-gated channel, shaker-related subfamily, member 2
1,079228237	0,51483	1,218410264	0,01262	KCNA6	potassium voltage-gated channel, shaker-related subfamily, member 6
1,011853201	0,85661	1,136029265	0,03817	KCNAB1	potassium voltage-gated channel, shaker-related subfamily, beta member 1
1,121166078	0,20682	1,280759861	0,00045	KCNAB2	potassium voltage-gated channel, shaker-related subfamily, beta member 2
1,150291893	0,10506	1,141554707	0,01882	KCNB1	potassium voltage-gated channel, Shab-related subfamily, member 1
1,167158102	0,24637	1,159899655	0,00926	KCNB1	potassium voltage-gated channel, Shab-related subfamily, member 1
1,150291893	0,18285	1,150291893	0,03443	KCNB2	potassium voltage-gated channel, Shab-related subfamily, member 2
1,161508732	0,22508	1,145517898	0,01596	KCNC4	potassium voltage-gated channel, Shaw-related subfamily, member 4
0,760489377	0,06551	0,702222438	0,00149	KCND3	potassium voltage-gated channel, Shal-related subfamily, member 3
1,052631155	0,52483	1,118837101	0,01413	KCNE2	potassium voltage-gated channel, Isk-related family, member 2
1,200803427	0,12205	1,190856849	0,0116	KCNE4	potassium voltage-gated channel, Isk-related family, member 4
1,124278924	0,27528	1,223488041	0,00036	KCNIP2	Kv channel interacting protein 2
1,178539408	0,19424	1,28877463	0,00654	KCNIP3	Kv channel interacting protein 3, calsenilin
1,194991205	0,14685	1,271031689	0,00293	KCNIP3	Kv channel interacting protein 3, calsenilin
1,107264584	0,30474	1,161508732	0,01042	KCNJ10	potassium inwardly-rectifying channel, subfamily J, member 10

0,802737389	0,2316	0,750019495	0,002	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15
0,885153765	0,1646	0,85086373	0,00977	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15
0,898132373	0,6582	0,806082831	0,02813	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2
0,666187413	0,17222	0,659296807	0,02571	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2
1,002081605	0,98973	1,132098902	0,00705	KCNJ3	potassium inwardly-rectifying channel, subfamily J, member 3
1,139973273	0,29572	1,445932295	0	KCNJ5	potassium inwardly-rectifying channel, subfamily J, member 5
1,061423209	0,41603	1,098092814	0,02919	KCNJ9	potassium inwardly-rectifying channel, subfamily J, member 9
0,774855931	0,26648	0,668500248	0,00003	KCNK1	potassium channel, subfamily K, member 1
0,934975198	0,44881	1,147107024	0,00833	KCNK16	potassium channel, subfamily K, member 16
1,270150983	0,06871	1,198309021	0,0121	KCNK17	potassium channel, subfamily K, member 17
1,17772279	0,09731	1,262252032	0,01577	KCNK3	potassium channel, subfamily K, member 3
1,022428531	0,8235	1,121166078	0,04925	KCNK3	potassium channel, subfamily K, member 3
1,115739322	0,14998	1,10343374	0,02506	KCNK9	potassium channel, subfamily K, member 9
1,221793102	0,13556	1,215879283	0,0072	KCNMA1	potassium large conductance calcium-activated channel, subfamily M, alpha member 1
1,146312186	0,15681	1,172022284	0,00174	KCNMB2	potassium large conductance calcium-activated channel, subfamily M, beta member 2
1,207480591	0,10344	1,124278924	0,03111	KCNMB4	potassium large conductance calcium-activated channel, subfamily M, beta member 4
1,089752112	0,37716	1,244011653	0,00369	KCNN1	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1
1,285206337	0,14198	1,142346247	0,02016	KCNN2	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 2
1,085981856	0,41164	1,178539408	0,00429	KCNN3	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3
1,304050735	0,05939	1,441928871	0,00006	KCNN4	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4
1,009051634	0,9221	1,146312186	0,04309	KCNQ1	potassium voltage-gated channel, KQT-like subfamily, member 1
1,17609125	0,09049	1,135242102	0,03211	KCNQ3	potassium voltage-gated channel, KQT-like subfamily, member 3
1,130530567	0,29628	1,335148303	0,00013	KCNS1	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1
1,043188594	0,56777	1,121166078	0,03356	KCNS2	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 2
1,187559666	0,2119	1,236275261	0,01909	KCP	kielin/chordin-like protein
0,883315051	0,3104	0,892546971	0,01054	KCTD10	potassium channel tetramerisation domain containing 10
0,79940583	0,15864	0,778085177	0,01811	KCTD15	potassium channel tetramerisation domain containing 15
0,843815796	0,4302	0,777546036	0,01272	KCTD18	potassium channel tetramerisation domain containing 18
0,44844408	0,11675	0,642157904	0,00008	KCTD20	potassium channel tetramerisation domain containing 20
0,774855931	0,12537	0,796088099	0,00168	KCTD20	potassium channel tetramerisation domain containing 20
0,802181166	0,17765	0,876605721	0,02821	KCTD21	potassium channel tetramerisation domain containing 21
0,982820599	0,86007	0,863339559	0,03001	KCTD4	potassium channel tetramerisation domain containing 4
0,752623374	0,17123	0,811127156	0,01265	KCTD6	potassium channel tetramerisation domain containing 6
1,081474763	0,33886	1,125838586	0,00867	KCTD7	potassium channel tetramerisation domain containing 7
0,908778116	0,49311	0,849096246	0,01466	KDELC2	KDEL (Lys-Asp-Glu-Leu) containing 2
1,333298677	0,05433	1,256142381	0,00687	KDELR1	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1
1,236275261	0,55784	1,283425898	0,0154	KDELR1	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1
1,106497353	0,41125	1,164733586	0,02739	KDELR2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2
0,967947027	0,87178	0,863938187	0,02462	KDM1B	lysine (K)-specific demethylase 1B
0,662044455	0,22874	0,679714121	0,00045	KDM1B	lysine (K)-specific demethylase 1B
0,833353207	0,24335	0,832775771	0,0032	KDM2A	lysine (K)-specific demethylase 2A
0,740206649	0,08249	0,757333158	0,00048	KDM2B	lysine (K)-specific demethylase 2B
1,095052471	0,62151	0,812252396	0,01825	KDM4B	lysine (K)-specific demethylase 4B
1,00486382	0,97745	1,205807828	0,01603	KDM4B	lysine (K)-specific demethylase 4B
0,982139595	0,93718	0,750019495	0,0016	KDM4C	lysine (K)-specific demethylase 4C
0,822450069	0,10773	0,828744904	0,00328	KDM5A	lysine (K)-specific demethylase 5A
0,804408371	0,06876	0,759435845	0,00062	KDM5A	lysine (K)-specific demethylase 5A
1,116512962	0,45561	0,812815602	0,01175	KDM5C	lysine (K)-specific demethylase 5C
1,055553718	0,72654	1,17609125	0,01909	KDM5D	lysine (K)-specific demethylase 5D
0,734075318	0,30405	0,716480825	0,00042	KDM6A	lysine (K)-specific demethylase 6A
0,784040454	0,11655	0,736623843	0,0079	KDM6A	lysine (K)-specific demethylase 6A
0,62676651	0,13236	0,700763725	0,00101	KDSR	3-ketodihydrosphingosine reductase
1,059952783	0,60178	1,189207115	0,01185	KHSRP	KH-type splicing regulatory protein
1,156688184	0,27669	1,31494276	0,03203	KHSRP	KH-type splicing regulatory protein
0,963261894	0,75859	0,892546971	0,04358	KIAA0090	KIAA0090
0,987600861	0,91861	0,86934456	0,0391	KIAA0146	KIAA0146
0,756283999	0,23707	0,842062954	0,02315	KIAA0182	KIAA0182
1,152686347	0,26486	1,225185332	0,00444	KIAA0195	KIAA0195
0,795536484	0,13356	0,84323111	0,02527	KIAA0196	KIAA0196
1,055553718	0,63599	1,180174343	0,02146	KIAA0226	KIAA0226
0,878430468	0,49527	0,670356296	0,00032	KIAA0232	KIAA0232
0,819036698	0,05049	0,774319028	0,00337	KIAA0368	KIAA0368
0,786217292	0,24916	0,648419777	0,00075	KIAA0368	KIAA0368
0,86154616	0,26281	0,888226796	0,01651	KIAA0391	KIAA0391
1,135242102	0,2233	1,275444392	0,00495	KIAA0430	KIAA0430
0,796640096	0,07561	0,891928519	0,02186	KIAA0494	KIAA0494
1,183451022	0,15873	1,22603486	0,00109	KIAA0509	hypothetical LOC57242
1,114966219	0,29261	1,147902414	0,02585	KIAA0513	KIAA0513
1,087488391	0,41881	1,153485605	0,04102	KIAA0513	KIAA0513
0,808881348	0,31759	0,803293997	0,015	KIAA0528	KIAA0528
1,01395948	0,92247	1,191682575	0,00266	KIAA0649	KIAA0649
1,210833084	0,09458	1,203303026	0,00162	KIAA0748	KIAA0748
1,104964485	0,23922	1,094293701	0,02447	KIAA0754	KIAA0754
0,982820599	0,88018	0,856781955	0,02137	KIAA0889	KIAA0889
0,681129017	0,20667	0,635515845	0,00004	KIAA0907	KIAA0907
0,922103118	0,34711	0,874784765	0,03346	KIAA0922	KIAA0922
1,047536127	0,80746	1,124278924	0,04101	KIAA0930	KIAA0930
0,926588062	0,68718	0,791137301	0,00302	KIAA0947	KIAA0947
0,929804943	0,30548	0,840313752	0,0018	KIAA1009	KIAA1009
1,080725402	0,53812	1,124278924	0,04251	KIAA1009	KIAA1009
0,865136691	0,68184	0,782411782	0,00215	KIAA1033	KIAA1033
0,624165274	0,27717	0,719965659	0,03372	KIAA1033	KIAA1033
1,172022284	0,29571	1,151089491	0,01084	KIAA1107	KIAA1107
0,768970416	0,21674	0,786762445	0,01866	KIAA1109	KIAA1109
0,716480825	0,05455	0,743806881	0,0001	KIAA1143	KIAA1143
0,987600861	0,89017	0,855595026	0,00039	KIAA1143	KIAA1143
0,752101876	0,07598	0,703684188	0,00015	KIAA1147	KIAA1147
1,392811481	0,0577	1,165541198	0,00902	KIAA1211	KIAA1211
1,219255094	0,09661	1,158292806	0,01465	KIAA1211	KIAA1211
0,828170661	0,26955	0,818469182	0,00037	KIAA1217	KIAA1217
1,167158102	0,14257	1,185092771	0,00606	KIAA1244	KIAA1244
1,003471749	0,98929	0,639936207	0,00001	KIAA1267	KIAA1267
0,79774524	0,13589	0,860949188	0,02413	KIAA1279	KIAA1279
0,951977908	0,64054	0,894404902	0,01947	KIAA1310	KIAA1310
1,027401439	0,79496	1,143138335	0,02237	KIAA1310	KIAA1310
1,168777249	0,20409	1,187559666	0,00185	KIAA1324	KIAA1324
0,72597914	0,113	0,906261938	0,02385	KIAA1429	KIAA1429
0,840896415	0,46778	0,807201075	0,00174	KIAA1430	KIAA1430
0,976031761	0,8256	0,786762445	0,00077	KIAA1430	KIAA1430
0,777546036	0,12688	0,76101669	0,00102	KIAA1432	KIAA1432
0,995159722	0,95323	1,085229372	0,02705	KIAA1456	KIAA1456
1,301341855	0,11253	1,246601194	0,03017	KIAA1462	KIAA1462
1,470187336	0,06402	1,186736798	0,02071	KIAA1462	KIAA1462
1,003471749	0,97892	1,142346247	0,01091	KIAA1467	KIAA1467

0,802181166	0,08107	0,798851916	0,00282	KIAA1609	KIAA1609
0,960594864	0,62221	1,144724161	0,00846	KIAA1609	KIAA1609
0,821880187	0,35659	0,722465199	0,00066	KIAA1609	KIAA1609
0,925304428	0,58086	0,886381699	0,04954	KIAA1609	KIAA1609
0,828744904	0,18663	0,756283999	0,00373	KIAA1609	KIAA1609
1,155886707	0,42499	1,224336392	0,0007	KIAA1644	KIAA1644
1,231998073	0,2363	1,180174343	0,03616	KIAA1652	KIAA1652 protein
1,163926534	0,11236	1,151887642	0,01467	KIAA1656	KIAA1656 protein
0,77271055	0,07453	0,744838732	0,00039	KIAA1704	KIAA1704
0,935623498	0,76204	0,745872013	0,00138	KIAA1704	KIAA1704
0,848507902	0,23931	0,86934456	0,04509	KIAA1704	KIAA1704
0,862741345	0,52046	0,806082831	0,04931	KIAA1704	KIAA1704
0,685866644	0,05708	0,699792933	0,00001	KIAA1715	KIAA1715
0,89688816	0,44612	0,800514811	0,00178	KIAA1731	KIAA1731
0,824733549	0,11309	0,817902059	0,00252	KIAA1731	KIAA1731
1,134455485	0,25718	1,223488041	0,0168	KIAA1755	KIAA1755
0,729510172	0,0929	0,758909626	0,00009	KIAA1804	mixed lineage kinase 4
0,738157203	0,09794	0,819036698	0,00547	KIAA1841	KIAA1841
1,047536127	0,57569	1,232852325	0,00105	KIAA1908	hypothetical LOC114796
0,929160674	0,56292	0,784584098	0,00423	KIAA1958	KIAA1958
1,035982764	0,69808	1,129747215	0,01438	KIAA2018	KIAA2018
0,821310701	0,4002	0,632878297	0,00074	KIAA2018	KIAA2018
1,264003098	0,3801	0,786762445	0,03452	KIAA2022	KIAA2022
0,714992493	0,17867	0,740719899	0,00009	KIAA2026	KIAA2026
0,747942879	0,13695	0,790589117	0,01009	KIDINS220	kinase D-interacting substrate, 220kDa
0,675487042	0,09891	0,722465199	0,01269	KIF11	kinesin family member 11
0,777546036	0,29457	0,744322628	0,00148	KIF13A	kinesin family member 13A
0,755759964	0,07003	0,734584317	0,00002	KIF13A	kinesin family member 13A
0,813943185	0,27601	0,898132373	0,04121	KIF13B	kinesin family member 13B
0,899378312	0,65166	0,823020345	0,02281	KIF16B	kinesin family member 16B
1,169587664	0,05659	1,186736798	0,00283	KIF17	kinesin family member 17
1,055553718	0,67774	0,887611337	0,01418	KIF18A	kinesin family member 18A
0,805524291	0,21861	0,815637493	0,0026	KIF1B	kinesin family member 1B
0,580351957	0,07291	0,558256481	0,00019	KIF21A	kinesin family member 21A
0,770571108	0,05431	0,809442217	0,00706	KIF23	kinesin family member 23
0,767905135	0,1161	0,84323111	0,00823	KIF23	kinesin family member 23
1,466116757	0,05257	1,279872414	0,00708	KIF26A	kinesin family member 26A
0,734584317	0,3473	0,767905135	0,00002	KIF5B	kinesin family member 5B
0,767905135	0,15581	0,702222438	0,00023	KIF5B	kinesin family member 5B
1,107264584	0,13718	1,190031696	0,01372	KIF6	kinesin family member 6
1,078480432	0,30999	1,142346247	0,03781	KIF6	kinesin family member 6
1,064370182	0,53097	1,215036792	0,00942	KIF9	kinesin family member 9
0,868140228	0,28007	0,746389192	0,00001	KIF9	kinesin family member 9
0,752623374	0,27526	0,724973416	0,00094	KIN	KIN, antigenic determinant of recA protein homolog (mouse)
1,112650121	0,58202	0,800514811	0,04372	KIN	KIN, antigenic determinant of recA protein homolog (mouse)
1,074004472	0,37271	1,187559666	0,00111	KIR2DL1	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 1
1,039579435	0,68551	1,20664392	0,01291	KIR2DL2	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 2
1,210833084	0,18763	1,174461971	0,01211	KIR2DL4	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4
1,167158102	0,12385	1,095052471	0,04192	KIR2DL4	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4
1,120389214	0,29256	1,23370717	0,00109	KIR2DS1	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1
1,104198847	0,28287	1,306765254	0,00066	KIR2DS2	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 2
1,136816973	0,2361	1,172834949	0,03162	KIR2DS3	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 3
1,25092908	0,05307	1,207480591	0,00171	KIR2DS5	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 5
1,083725967	0,24351	1,202469249	0,00109	KIR3DL1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
1,151089491	0,16334	1,225185332	0,0056	KIR3DL3	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 3
1,240567298	0,15177	1,214194884	0,00527	KIRREL	kin of IRRE like (Drosophila)
0,801625329	0,09892	0,832198735	0,00089	KLC1	kinesin light chain 1
0,517991382	0,07134	0,743806881	0,00054	KLC1	kinesin light chain 1
1,071773463	0,51837	1,231998073	0,00139	KLC3	kinesin light chain 3
1,146312186	0,22444	1,354724977	0,0015	KLC4	kinesin light chain 4
0,872362706	0,40611	0,784584098	0,00206	KLF10	Kruppel-like factor 10
1,140763716	0,33622	0,837987135	0,00154	KLF11	Kruppel-like factor 11
1,104198847	0,26293	1,187559666	0,00403	KLF12	Kruppel-like factor 12
0,713012859	0,1251	0,718470088	0,00084	KLF5	Kruppel-like factor 5 (intestinal)
0,580351957	0,29107	0,779704843	0,00289	KLF5	Kruppel-like factor 5 (intestinal)
1,22010051	0,13927	1,251796459	0,00928	KLF6	Kruppel-like factor 6
0,774855931	0,08776	0,755759964	0,01966	KLF6	Kruppel-like factor 6
0,963929808	0,65042	1,210833084	0,03341	KLF7	Kruppel-like factor 7 (ubiquitous)
0,776468875	0,1034	0,763129604	0,00387	KLHDC10	kelch domain containing 10
0,788400174	0,2924	0,862741345	0,00948	KLHDC10	kelch domain containing 10
0,991716731	0,95215	0,856781955	0,03678	KLHDC2	kelch domain containing 2
0,805524291	0,32194	0,846158597	0,02111	KLHDC5	kelch domain containing 5
1,267512522	0,14999	1,411275843	0,00017	KLHDC7B	kelch domain containing 7B
1,088997015	0,54736	1,131314463	0,01545	KLHL11	kelch-like 11 (Drosophila)
0,862143545	0,43263	0,889458994	0,04408	KLHL12	kelch-like 12 (Drosophila)
0,796088099	0,35924	0,731028724	0,00032	KLHL13	kelch-like 13 (Drosophila)
1,375541818	0,10449	1,114966219	0,04246	KLHL14	kelch-like 14 (Drosophila)
1,037419937	0,79384	1,132883885	0,0444	KLHL17	kelch-like 17 (Drosophila)
0,894404902	0,59174	0,71548826	0,00385	KLHL20	kelch-like 20 (Drosophila)
1,265756594	0,05058	1,325007017	0,00027	KLHL22	kelch-like 22 (Drosophila)
1,035264924	0,81182	0,840313752	0,02593	KLHL28	kelch-like 28 (Drosophila)
1,096571589	0,35693	1,133669413	0,03461	KLHL29	kelch-like 29 (Drosophila)
1,00556058	0,94369	1,134455485	0,00332	KLHL3	kelch-like 3 (Drosophila)
0,93109482	0,66493	0,816203046	0,00069	KLHL5	kelch-like 5 (Drosophila)
0,718968266	0,05079	0,709070018	0,00763	KLHL7	kelch-like 7 (Drosophila)
0,915733686	0,33773	0,790589117	0,03686	KLHL7	kelch-like 7 (Drosophila)
0,758383773	0,18025	0,719965659	0,00033	KLHL7	kelch-like 7 (Drosophila)
1,083725967	0,50484	0,872967591	0,04972	KLHL8	kelch-like 8 (Drosophila)
0,984866443	0,93644	0,827023368	0,0033	KLHL8	kelch-like 8 (Drosophila)
0,86934456	0,38338	0,854409741	0,00976	KLHL9	kelch-like 9 (Drosophila)
1,182631	0,11221	1,150291893	0,0046	KLK2	kallikrein-related peptidase 2
0,990342872	0,92044	1,190856849	0,00155	KLK2	kallikrein-related peptidase 2
0,972654947	0,80614	1,141554707	0,04121	KLK4	kallikrein-related peptidase 4
1,198309021	0,08082	1,168777249	0,03856	KLK4	kallikrein-related peptidase 4
1,179356592	0,07159	1,220946513	0,02401	KLK4	kallikrein-related peptidase 4
0,788400174	0,12616	0,840313752	0,0204	KLRAQ1	KLRAQ motif containing 1
1,139183377	0,11329	1,165541198	0,00934	KLRD1	killer cell lectin-like receptor subfamily D, member 1
0,849684999	0,08137	0,874784765	0,0234	KLRG2	killer cell lectin-like receptor subfamily G, member 2
1,155886707	0,2287	1,207480591	0,02763	KNTC1	kinetochore associated 1
0,762072415	0,12436	0,810003474	0,00842	KPNA1	karyopherin alpha 1 (importin alpha 5)
0,827023368	0,42004	0,772175133	0,00389	KPNA1	karyopherin alpha 1 (importin alpha 5)
0,816203046	0,21115	0,756808396	0,00866	KPNA1	karyopherin alpha 1 (importin alpha 5)
0,910669834	0,56337	0,810003474	0,0103	KPNA1	karyopherin alpha 1 (importin alpha 5)
0,69640574	0,06854	0,814507563	0,00524	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)

0,740206649	0,14203	0,739693755	0,00059	KPNA3	karyopherin alpha 3 (importin alpha 4)
0,632878297	0,11293	0,677362489	0,00013	KPNA3	karyopherin alpha 3 (importin alpha 4)
0,710546022	0,13185	0,724973416	0	KPNA4	karyopherin alpha 4 (importin alpha 3)
0,717474767	0,08437	0,71400199	0,00008	KPNA4	karyopherin alpha 4 (importin alpha 3)
0,879649076	0,40762	0,754190038	0,01262	KPNA5	karyopherin alpha 5 (importin alpha 6)
0,689202576	0,07447	0,733566672	0,00007	KPNA6	karyopherin alpha 6 (importin alpha 7)
0,654289036	0,19892	0,820172911	0,00217	KPNB1	karyopherin (importin) beta 1
0,579146403	0,05865	0,815072332	0,01687	KPNB1	karyopherin (importin) beta 1
0,817335328	0,32471	0,811127156	0,00061	KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
0,933032992	0,55354	0,792784137	0,00373	KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
0,96996191	0,93293	0,668500248	0,00002	KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
1,043188594	0,6607	1,146312186	0,01369	KRBA2	KRAB-A domain containing 2
0,945402117	0,7554	0,81056512	0,03299	KRCC1	lysine-rich coiled-coil 1
0,799960128	0,59304	0,836826243	0,02197	KRCC1	lysine-rich coiled-coil 1
0,819604608	0,33399	0,741233505	0,01681	KRCC1	lysine-rich coiled-coil 1
0,677362489	0,07516	0,69399636	0	KREMEN1	kringle containing transmembrane protein 1
0,817902059	0,28143	0,812252396	0,00206	KRIT1	KRIT1, ankyrin repeat containing
0,973329374	0,85209	0,825305409	0,01874	KRIT1	KRIT1, ankyrin repeat containing
0,688247801	0,42241	0,810003474	0,0021	KRIT1	KRIT1, ankyrin repeat containing
0,768437591	0,42907	0,833353207	0,00619	KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast)
0,55632506	0,10427	0,922103118	0,04683	KRT14	keratin 14
1,889494082	0,22922	2,46741434	0,00001	KRT19	keratin 19
1,048989328	0,49623	1,121943481	0,01899	KRT25	keratin 25
0,895025071	0,08203	0,907519155	0,02143	KRT6A	keratin 6A
0,839149637	0,0809	0,85797053	0,00499	KRT6B	keratin 6B
1,191682575	0,16897	1,224336392	0,0004	KRT7	keratin 7
0,942784536	0,81921	1,28788163	0,00023	KRT8	keratin 8
1,099616149	0,28195	1,131314463	0,00972	KRT82	keratin 82
1,212512819	0,08795	1,256142381	0,00682	KRT8P12	keratin 8 pseudogene 12
1,088997015	0,38877	1,208317843	0,00425	KRTAP10-11	keratin associated protein 10-11
1,076986376	0,25746	1,072516617	0,0431	KRTAP2-1	keratin associated protein 2-1
1,145517898	0,07565	1,210833084	0,00489	KRTAP3-1	keratin associated protein 3-1
1,088997015	0,56396	1,32317144	0,00498	KRTAP4-12	keratin associated protein 4-12
1,004167543	0,96077	1,127400412	0,04947	KRTAP4-2	keratin associated protein 4-2
0,961260928	0,75321	1,139973273	0,03459	KRTAP4-5	keratin associated protein 4-5
1,033830736	0,77824	1,199971382	0,00596	KRTAP5-8	keratin associated protein 5-8
1,020304659	0,76618	1,128964405	0,03986	KRTAP5-9	keratin associated protein 5-9
1,04608494	0,66663	1,143138335	0,01784	KRTAP7-1	keratin associated protein 7-1 (gene/pseudogene)
1,264879542	0,40215	1,489677463	0,00003	KRTCAP2	keratinocyte associated protein 2
0,76630998	0,45116	0,758383773	0,00005	KTN1	kinectin 1 (kinesin receptor)
1,108800644	0,51923	1,20664392	0,00192	KY	kyphoscoliosis peptidase
0,917004043	0,29677	0,838568184	0,00376	L2HGDH	L-2-hydroxyglutarate dehydrogenase
1,0181852	0,88015	1,128182137	0,01534	L3MBTL2	l(3)mbt-like 2 (Drosophila)
0,957271458	0,71552	0,792234811	0,02257	LACC1	laccase (multicopper oxidoreductase) domain containing 1
0,934327347	0,75887	0,84264683	0,0409	LACC1	laccase (multicopper oxidoreductase) domain containing 1
0,777007269	0,17724	0,706616822	0,00165	LACTB	lactamase, beta
0,826450318	0,32235	0,796088099	0,02047	LACTB	lactamase, beta
1,00695555	0,97907	0,693034943	0,00329	LACTB2	lactamase, beta 2
1,04608494	0,8333	0,666187413	0,00027	LACTB2	lactamase, beta 2
1,065846736	0,53863	1,205807828	0,00683	LAGE3	L antigen family, member 3
1,337000495	0,05119	1,247465572	0,01369	LAIR1	leukocyte-associated immunoglobulin-like receptor 1
1,155085785	0,19938	1,139973273	0,01995	LAMA3	laminin, alpha 3
1,208317843	0,22436	1,383190629	0,01867	LAMA4	laminin, alpha 4
1,092777739	0,50663	1,4063932	0,00033	LAMA4	laminin, alpha 4
0,783497187	0,2819	1,241427492	0,03503	LAMB2	laminin, beta 2 (laminin S)
0,910038824	0,78217	1,268391399	0,01	LAMB3	laminin, beta 3
0,948684315	0,47542	1,200803427	0,00972	LAMB4	laminin, beta 4
1,262252032	0,08671	1,425037614	0,00003	LAMC1	laminin, gamma 1 (formerly LAMB2)
1,106497353	0,40052	1,200803427	0,01273	LAMC1	laminin, gamma 1 (formerly LAMB2)
1,335148303	0,32474	1,469168633	0,00848	LAMC2	laminin, gamma 2
1,054822317	0,64671	1,121166078	0,04943	LAMC3	laminin, gamma 3
0,752623374	0,13846	0,802737389	0,00245	LAMP2	lysosomal-associated membrane protein 2
0,621574834	0,05111	0,677832163	0,00016	LAMP2	lysosomal-associated membrane protein 2
0,716977624	0,0657	0,726482525	0,00333	LAMTOR3	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
0,736113431	0,15106	0,689202576	0,00089	LAMTOR3	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
0,694477568	0,15797	0,715984371	0,00698	LANCL3	LanC lantibiotic synthetase component C-like 3 (bacterial)
1	0,99859	0,824162085	0,00587	LAP3	leucine aminopeptidase 3
1,251796459	0,48555	1,642621402	0,00015	LAPTM5	lysosomal protein transmembrane 5
1,199971382	0,10971	1,221793102	0,00869	LARGE	like-glycosyltransferase
1,361314116	0,07013	1,131314463	0,01558	LARP1B	La ribonucleoprotein domain family, member 1B
0,780786493	0,13745	0,846745312	0,01549	LARP4B	La ribonucleoprotein domain family, member 4B
0,665264521	0,06939	0,682073917	0,0044	LARP4B	La ribonucleoprotein domain family, member 4B
0,764718139	0,1876	0,743291492	0,01172	LARP4B	La ribonucleoprotein domain family, member 4B
1,194163187	0,20448	1,185092771	0,00134	LASP1	LIM and SH3 protein 1
0,91383145	0,28604	0,893165852	0,04444	LATS1	LATS, large tumor suppressor, homolog 1 (Drosophila)
1,208317843	0,4956	0,854409741	0,0139	LATS2	LATS, large tumor suppressor, homolog 2 (Drosophila)
1,00765376	0,95148	1,121166078	0,02427	LBX1	ladybird homeobox 1
1,178539408	0,36431	1,139183377	0,04099	LCE1E	late cornified envelope 1E
0,727994774	0,14547	0,770571108	0,00179	LCLAT1	lysocardiolipin acyltransferase 1
1,032398535	0,69179	1,159899655	0,03251	LCN15	lipocalin 15
0,974679631	0,89111	0,819604608	0,04775	LCOR	ligand dependent nuclear receptor corepressor
0,891310496	0,61281	0,729510172	0,0002	LCORL	ligand dependent nuclear receptor corepressor-like
1,312211255	0,44024	0,744838732	0,00312	LCORL	ligand dependent nuclear receptor corepressor-like
1,477338064	0,11197	1,563739286	0,00047	LCP1	lymphocyte cytosolic protein 1 (L-plastin)
1,56049096	0,08404	1,41519416	0,00113	LDB2	LIM domain binding 2
1,140763716	0,06554	1,199971382	0,0017	LDB2	LIM domain binding 2
1,251796459	0,13757	1,180174343	0,0114	LDHAL6B	lactate dehydrogenase A-like 6B
0,716480825	0,05471	0,78024548	0,0352	LDLR	low density lipoprotein receptor
0,79940583	0,09658	0,664803554	0,00178	LDLR	low density lipoprotein receptor
0,768437591	0,10256	0,745872013	0,0169	LDLR	low density lipoprotein receptor
0,936272247	0,67457	0,813379198	0,00907	LDLRAD3	low density lipoprotein receptor class A domain containing 3
0,959929261	0,78824	1,160703914	0,01525	LDLRAP1	low density lipoprotein receptor adaptor protein 1
0,829894586	0,13235	0,838568184	0,03634	LDOC1	leucine zipper, down-regulated in cancer 1
1,155085785	0,06996	1,114966219	0,04556	LEF1	lymphoid enhancer-binding factor 1
1,071030823	0,31618	1,121943481	0,03719	LEKR1	leucine, glutamate and lysine rich 1
1,039579435	0,83063	0,845572287	0,01341	LEMD3	LEM domain containing 3
1,285206337	0,18826	1,370782805	0,02302	LEPR	leptin receptor
1,400556321	0,06023	1,427014506	0,03027	LEPR	leptin receptor
0,901250463	0,58711	0,822450069	0,00009	LEPROT	leptin receptor overlapping transcript
0,862143545	0,14014	0,849684999	0,02024	LETM1	leucine zipper-EF-hand containing transmembrane protein 1
1,153485605	0,09529	1,079228237	0,0337	LETM2	leucine zipper-EF-hand containing transmembrane protein 2
1,02313747	0,8335	1,199971382	0,00161	LETMD1	LETM1 domain containing 1
0,831622098	0,59165	1,578987773	0,00093	LGALS1	lectin, galactoside-binding, soluble, 1
1,164733586	0,0713	1,204972315	0,00103	LGALS12	lectin, galactoside-binding, soluble, 12

1,071773463	0,37378	1,121166078	0,02358	LGALS14	lectin, galactoside-binding, soluble, 14
1,134455485	0,30446	1,32592576	0,01449	LGALS2	lectin, galactoside-binding, soluble, 2
1,175276328	0,24568	1,238848698	0,00345	LGALS3	lectin, galactoside-binding, soluble, 3
0,633317127	0,07406	0,771640088	0,00012	LGALS8	lectin, galactoside-binding, soluble, 8
1,179356592	0,0558	1,236275261	0,01875	LGI4	leucine-rich repeat LGI family, member 4
1,241427492	0,05198	1,484523571	0,00018	LGI4	leucine-rich repeat LGI family, member 4
1,095811766	0,4088	1,157490217	0,03806	LGR4	leucine-rich repeat containing G protein-coupled receptor 4
0,982820599	0,85683	1,155886707	0,02832	LGR5	leucine-rich repeat containing G protein-coupled receptor 5
1,080725402	0,58189	1,172022284	0,04064	LHFPL2	lipoma HMGIC fusion partner-like 2
1,057750964	0,68513	1,178539408	0,01	LHX2	LIM homeobox 2
0,860352631	0,25707	0,804966138	0,02701	LIG4	ligase IV, DNA, ATP-dependent
1,092020546	0,36281	1,30224419	0,00084	LILRA2	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2
1,193335743	0,2171	1,316766922	0,00003	LILRA2	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2
0,984866443	0,86821	1,185092771	0,01124	LILRA5	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5
1,110338834	0,46032	1,140763716	0,04073	LILRA6	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6
1,231144413	0,10598	1,340712592	0,00021	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1
1,356604327	0,06906	1,309485423	0,00008	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
0,753667455	0,17585	0,649319301	0,00279	LIMCH1	LIM and calponin homology domains 1
0,684441907	0,19544	0,76684133	0,00306	LIMCH1	LIM and calponin homology domains 1
0,625031151	0,14463	0,636397468	0,0001	LIMCH1	LIM and calponin homology domains 1
1,078480432	0,4663	1,175276328	0,00199	LIMD1	LIM domains containing 1
1,270150983	0,05897	1,273677475	0,02141	LIMD2	LIM domain containing 2
1,230291345	0,23812	1,485552921	0,00012	LIME1	Lck interacting transmembrane adaptor 1
1,125838586	0,28992	1,125838586	0,02503	LIMK1	LIM domain kinase 1
0,96727633	0,78929	0,812815602	0,02395	LIMS1	LIM and senescent cell antigen-like domains 1
0,871154192	0,5787	0,732042848	0,00452	LIMS1	LIM and senescent cell antigen-like domains 1
0,857376037	0,33691	0,808320869	0,0006	LIMS1	LIM and senescent cell antigen-like domains 1
1,244011653	0,05829	1,319507911	0,01273	LIMS2	LIM and senescent cell antigen-like domains 2
1,106497353	0,57007	0,86154616	0,00354	LIN54	lin-54 homolog (C. elegans)
0,698339266	0,08624	0,801069878	0,00272	LIN7C	lin-7 homolog C (C. elegans)
1,116512962	0,47456	1,216722359	0,03266	LINC00032	long intergenic non-protein coding RNA 32
1,125058485	0,32469	1,180992661	0,00578	LINC00085	long intergenic non-protein coding RNA 85
1,093535457	0,46804	1,157490217	0,0017	LINC00085	long intergenic non-protein coding RNA 85
0,934327347	0,59307	0,865736566	0,01597	LINC00115	long intergenic non-protein coding RNA 115
1,091263877	0,23531	1,118837101	0,04452	LINC00163	long intergenic non-protein coding RNA 163
1,237990291	0,0571	1,185914499	0,0103	LINC00165	long intergenic non-protein coding RNA 165
1,110338834	0,4571	1,193335743	0,01867	LINC00176	long intergenic non-protein coding RNA 176
1,019597683	0,90958	0,886996305	0,04622	LINC00230A	long intergenic non-protein coding RNA 230A
1,095052471	0,24067	1,195819797	0,00044	LINC00293	long intergenic non-protein coding RNA 293
0,89688816	0,28212	0,864537231	0,04696	LINC00304	long intergenic non-protein coding RNA 304
0,966606097	0,75296	1,101905116	0,02543	LINC00311	long intergenic non-protein coding RNA 311
1,128182137	0,18642	1,227735684	0,00077	LINC00326	long intergenic non-protein coding RNA 326
1,205807828	0,25127	1,143138335	0,03387	LINC00339	long intergenic non-protein coding RNA 339
1,347233577	0,0765	1,371733289	0,006	LINC00341	long intergenic non-protein coding RNA 341
0,949342121	0,76875	1,21335356	0,04308	LINC00342	long intergenic non-protein coding RNA 342
1,085981856	0,25686	1,132098902	0,00881	LINC00427	long intergenic non-protein coding RNA 427
1,202469249	0,18523	1,23370717	0,00109	LINC00460	long intergenic non-protein coding RNA 460
1,04608494	0,5893	0,886996305	0,04921	LINC00461	long intergenic non-protein coding RNA 461
0,963929808	0,61826	0,906261938	0,01915	LINC00466	long intergenic non-protein coding RNA 466
1,112650121	0,25088	1,123499903	0,0429	LINC00470	long intergenic non-protein coding RNA 470
1,098854218	0,18953	1,113421618	0,04233	LINC00476	long intergenic non-protein coding RNA 476
0,655196702	0,13713	0,668963777	0,0346	LINC00478	long intergenic non-protein coding RNA 478
1,182631	0,19574	1,143138335	0,0113	LINC00479	long intergenic non-protein coding RNA 479
1,090507733	0,32527	1,142346247	0,01703	LINGO3	leucine rich repeat and Ig domain containing 3
1,009751298	0,97884	0,672683604	0,00014	LINS	lines homolog (Drosophila)
0,921464186	0,79981	0,728499557	0,00254	LINS	lines homolog (Drosophila)
1,001387256	0,9907	1,139183377	0,00968	LIPA	lipase A, lysosomal acid, cholesterol esterase
0,713507253	0,15428	0,612592666	0,00596	LIPG	lipase, endothelial
1,196648963	0,20636	1,180992661	0,01319	LITAF	lipopolysaccharide-induced TNF factor
1,249196126	0,11196	1,250062303	0,03385	LLGL1	lethal giant larvae homolog 1 (Drosophila)
0,743291492	0,17279	0,720464874	0,00129	LLPH	LLP homolog, long-term synaptic facilitation (Aplysia)
1,092020546	0,70839	0,844986384	0,03835	LMBRD1	LMBR1 domain containing 1
1,2397077	0,055	1,182631	0,00483	LMCD1	LIM and cysteine-rich domains 1
1,119612889	0,24392	1,122721422	0,0133	LMF1	lipase maturation factor 1
1,143930973	0,346	1,23370717	0,0163	LMF1	lipase maturation factor 1
1,275444392	0,1782	1,333298677	0,00875	LMF1	lipase maturation factor 1
1,090507733	0,42217	0,815072332	0,00129	LMF1	lipase maturation factor 1
1,245737416	0,18325	1,277213759	0,00376	LMF1	lipase maturation factor 1
1,068065408	0,69178	1,209994089	0,02372	LMF2	lipase maturation factor 2
1,021720083	0,85699	1,184271612	0,01608	LMF2	lipase maturation factor 2
0,7944344	0,18774	0,764718139	0,00418	LMLN	leishmanolysin-like (metallopeptidase M8 family)
0,453445164	0,0899	0,762072415	0,04686	LMNA	lamin A/C
0,666187413	0,14277	0,817335328	0,04905	LMNA	lamin A/C
0,812815602	0,23057	0,722966147	0,00303	LMO4	LIM domain only 4
1,00486382	0,97953	0,844400887	0,0148	LMO7	LIM domain 7
0,827596816	0,24927	0,810003474	0,00168	LMTK2	lemur tyrosine kinase 2
1,060687741	0,43468	0,927230546	0,03883	LMTK2	lemur tyrosine kinase 2
1,092777739	0,55419	1,180992661	0,00289	LMX1B	LIM homeobox transcription factor 1, beta
0,724471077	0,17049	0,817902059	0,00175	LNPEP	leucyl/cystinyl aminopeptidase
0,560194607	0,2206	0,60667678	0,00004	LNPEP	leucyl/cystinyl aminopeptidase
0,956608158	0,78477	0,747942879	0,00034	LNPEP	leucyl/cystinyl aminopeptidase
0,810003474	0,28265	0,713507253	0	LNX2	ligand of numb-protein X 2
1,122721422	0,44008	0,882091365	0,03121	LOC10000967	hypothetical LOC100009676
0,84323111	0,08311	1,106497353	0,01684	LOC10012788	hypothetical LOC100127888
1,241427492	0,4157	0,831622098	0,02666	LOC10012798	hypothetical protein LOC100127983
0,887611337	0,29838	1,121943481	0,04321	LOC10012807	hypothetical LOC100128071
1,094293701	0,31581	1,198309021	0,02094	LOC10012812	hypothetical LOC100128126
1,065846736	0,48443	1,278985581	0,00651	LOC10012825	hypothetical LOC100128252
1,039579435	0,55531	1,155886707	0,00276	LOC10012828	hypothetical LOC100128281
1,151887642	0,17355	1,123499903	0,04057	LOC10012833	gap junction protein, gamma 3, 30.2kDa pseudogene
1,120389214	0,30858	1,258757174	0,00147	LOC10012834	hypothetical LOC100128343
1,133669413	0,27659	1,165541198	0,03825	LOC10012878	hypothetical LOC100128788
0,879649076	0,62785	0,581560021	0,00012	LOC10012882	hypothetical LOC100128822
1,223488041	0,06986	1,129747215	0,03551	LOC10012897	hypothetical LOC100128977
1,299539062	0,11014	1,382232207	0	LOC10012903	hypothetical LOC100129034
0,998614666	0,99017	1,164733586	0,00423	LOC10012903	hypothetical LOC100129034
1,180174343	0,09055	1,224336392	0,00362	LOC10012909	hypothetical protein LOC100129098
1,067325338	0,50453	0,865136691	0,01162	LOC10012936	hypothetical LOC100129361
0,738157203	0,20065	0,655196702	0,00033	LOC10012938	hypothetical LOC100129387
1,074749173	0,50192	1,172022284	0,00854	LOC10012942	hypothetical LOC100129427
1,276328769	0,05171	1,180174343	0,03627	LOC10012944	PRO2055
1,142346247	0,16719	1,124278924	0,02102	LOC10012945	hypothetical LOC100129455
0,927230546	0,5816	0,815072332	0,00991	LOC10012950	hypothetical LOC100129502
0,735093668	0,19327	0,809442217	0,03306	LOC10012955	hypothetical LOC100129550

1,0238469	0,90226	1,387992719	0,00078	LOC10012963 hypothetical LOC100129637
0,963929808	0,68031	1,099616149	0,02248	LOC10012971 hypothetical LOC100129716
1,002081605	0,98345	1,110338834	0,04584	LOC10012985 hypothetical LOC100129858
1,190856849	0,16016	1,138394029	0,04999	LOC10012988 hypothetical protein LOC100129884
1,112650121	0,20983	1,145517898	0,00694	LOC10013005 hypothetical protein LOC100130051
1,021012126	0,8336	1,125838586	0,01155	LOC10013011 hypothetical LOC100130111
1,111108729	0,32346	1,108032348	0,03022	LOC10013015 hypothetical LOC100130155
1,093535457	0,29239	1,110338834	0,02324	LOC10013027 hypothetical protein LOC100130278
1,087488391	0,35299	1,147902414	0,00271	LOC10013028 hypothetical LOC100130285
1,078480432	0,27413	1,137605228	0,0165	LOC10013042 IGYY565
1,062895674	0,56658	1,188383105	0,00368	LOC10013045 hypothetical LOC100130456
1,070288698	0,46069	1,188383105	0,002	LOC10013052 hypothetical LOC100130522
0,944747041	0,67321	0,801069878	0,01616	LOC10013070 hypothetical protein LOC100130705
0,968618189	0,76033	1,077733145	0,04316	LOC10013093 hypothetical LOC100130938
0,866336856	0,07107	0,868140228	0,0414	LOC10013098 hypothetical LOC100130987
0,833931044	0,36924	0,751059963	0,00256	LOC10013106 hypothetical LOC100131067
1,087488391	0,50947	1,172834949	0,0276	LOC10013109 hypothetical LOC100131096
1,078480432	0,32146	0,891928519	0,03404	LOC10013118 hypothetical LOC100131180
0,847332435	0,18968	0,79940583	0,01131	LOC10013126 hypothetical LOC100131262
0,999307093	0,99522	1,162314108	0,02569	LOC10013130 hypothetical LOC100131303
1,071030823	0,29513	1,133669413	0,00886	LOC10013134 RAD52 motif 1 pseudogene
1,148698355	0,11555	1,110338834	0,03105	LOC10013136 hypothetical LOC100131366
1,059218335	0,53965	1,232852325	0,00008	LOC10013153 hypothetical LOC100131532
1,204972315	0,28687	1,190856849	0,00813	LOC10013156 hypothetical LOC100131564
1,087488391	0,26609	1,17772279	0,00069	LOC10013186 hypothetical protein LOC100131864
0,828744904	0,09815	0,782954296	0,00607	LOC10013216 hypothetical LOC100132167
1,051172909	0,63732	1,159095952	0,03397	LOC10013227 hypothetical LOC100132273
1,310393404	0,05344	1,260503392	0,00048	LOC10013235 hypothetical LOC100132354
1,016774673	0,8407	1,143138335	0,03021	LOC10013281 hypothetical LOC100132815
0,953298545	0,54123	1,139183377	0,03251	LOC10013298 hypothetical LOC100132987
1,172834949	0,05511	1,149494848	0,00135	LOC10013298 hypothetical LOC100132987
0,964598185	0,5988	0,893785162	0,01321	LOC10013331 PRO1804
1,065108203	0,53069	1,117287138	0,02172	LOC10013346 hypothetical LOC100133461
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1,121166078	0,28944	1,271031689	0,00004	LOC10013398 hypothetical LOC100133985
1,223488041	0,10964	1,151089491	0,02287	LOC10013404 hypothetical LOC100134040
1,17772279	0,21926	1,238848698	0,00888	LOC10013425 hypothetical LOC100134259
0,901875378	0,23419	0,877821798	0,01209	LOC10013493 hypothetical LOC100134937
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0,768970416	0,10315	0,858565436	0,04087	LOC10019093 hypothetical LOC100190938
1,026689546	0,85743	1,29056249	0,00285	LOC10019093 hypothetical LOC100190939
1,189207115	0,1047	1,134455485	0,02883	LOC10019093 hypothetical LOC100190939
1,173648178	0,33387	0,842062954	0,03397	LOC10019093 hypothetical LOC100190939
1,093535457	0,85457	0,709561678	0,02864	LOC10019098 hypothetical LOC100190986
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1,109569472	0,33248	1,207480591	0,01002	LOC10019237 hypothetical LOC100192378
1,218410264	0,14502	1,132883885	0,01139	LOC10021647 hypothetical LOC100216479
0,722465199	0,08354	0,644387315	0,0004	LOC10021654 hypothetical LOC100216546
1,10343374	0,18778	1,140763716	0,03629	LOC10024073 hypothetical LOC100240734
1,195819797	0,18305	0,862741345	0,01092	LOC10027221 hypothetical LOC100272217
0,920187651	0,30735	1,104964485	0,02385	LOC10028692 DnaJ (Hsp40) homolog, subfamily B, member 3 pseudogene
0,988285652	0,91952	1,153485605	0,00158	LOC10028703 hypothetical LOC100287030
1,223488041	0,06675	1,20664392	0,01236	LOC10028755 hypothetical LOC100287558
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1,009751298	0,94092	0,85027416	0,01086	LOC10028819 hypothetical LOC100288198
0,943438251	0,68294	0,84323111	0,01072	LOC10028841 LP9056 protein
1,069547088	0,35884	1,132098902	0,0043	LOC10028849 hypothetical LOC100288490
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1,030968319	0,77662	1,138394029	0,01962	LOC10028904 hypothetical LOC100289045
1,025978145	0,78537	1,116512962	0,04017	LOC10028909 hypothetical protein LOC100289090
1,107264584	0,22486	1,108032348	0,03632	LOC10028909 hypothetical protein LOC100289090
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1,02313747	0,74556	0,920825697	0,02969	LOC10029436 hypothetical LOC100294362
1,215879283	0,09451	1,163120042	0,01091	LOC10042278 hypothetical LOC100422781
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1,060687741	0,57343	0,858565436	0,02919	LOC10049948 hypothetical LOC100499489
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1,117287138	0,24676	1,243149669	0,00082	LOC10062830	hypothetical LOC100628307
1,041021598	0,59452	1,172834949	0,02365	LOC10063137	hypothetical 100631378
1,118837101	0,29481	1,208317843	0,00666	LOC113230	hypothetical LOC113230
1,096571589	0,36519	1,231144413	0,00543	LOC115110	hypothetical LOC115110
1,082224645	0,4062	1,212512819	0,00336	LOC127841	hypothetical LOC127841
0,963929808	0,72051	1,168777249	0,00612	LOC143506	SSU72 RNA polymerase II CTD phosphatase homolog pseudogene
1,208317843	0,13668	1,243149669	0,00208	LOC145845	hypothetical LOC145845
1,164733586	0,06653	1,242288282	0,00279	LOC145945	hypothetical protein LOC145945
1,174461971	0,16094	1,171210181	0,00937	LOC147004	hypothetical protein LOC147004
1,098092814	0,3996	1,197478705	0,00354	LOC147646	hypothetical protein LOC147646
1,187559666	0,332	0,843815796	0,02485	LOC148189	hypothetical LOC148189
0,843815796	0,07371	0,899378312	0,04911	LOC148189	hypothetical LOC148189
1,135242102	0,2587	1,221793102	0,01181	LOC149086	ornithine decarboxylase 1 pseudogene
1,130530567	0,19011	1,199971382	0,01511	LOC149703	hypothetical LOC149703
1,092020546	0,43902	1,170398641	0,00339	LOC149773	hypothetical LOC149773
1,114193651	0,18901	1,139973273	0,0276	LOC150051	hypothetical LOC150051
1,066585781	0,6339	1,163120042	0,0065	LOC151534	hypothetical LOC151534
1,043188594	0,6777	1,149494848	0,00719	LOC151657	hypothetical LOC151657
1,041021598	0,56664	1,132883885	0,01331	LOC153469	hypothetical LOC153469
1,120389214	0,33292	0,867538687	0,0296	LOC153546	hypothetical protein LOC153546
1,071773463	0,44849	1,171210181	0,00643	LOC153910	hypothetical LOC153910
1,159899655	0,29483	1,109569472	0,02058	LOC154822	hypothetical LOC154822
0,927873476	0,50327	0,889458994	0,04269	LOC157381	hypothetical LOC157381
1,127400412	0,15486	1,140763716	0,03649	LOC157627	hypothetical LOC157627
1,057750964	0,37628	1,083725967	0,04373	LOC157740	hypothetical protein C8orf9
1,2397077	0,08168	1,401527449	0	LOC158960	hypothetical protein BC009467
1,23370717	0,06527	1,173648178	0,00988	LOC200261	hypothetical LOC200261
1,009751298	0,88414	1,082224645	0,03089	LOC201477	hypothetical LOC201477
1,067325338	0,63409	0,849096246	0,02755	LOC201651	arylacetamide deacetylase (esterase) pseudogene
1,066585781	0,71539	0,778624691	0,00411	LOC202025	hypothetical LOC202025
0,967947027	0,81942	0,788400174	0,02982	LOC202781	hypothetical LOC202781
1,180992661	0,14028	1,184271612	0,00009	LOC203274	hypothetical protein LOC203274
1,066585781	0,53797	1,240567298	0,00225	LOC203274	hypothetical protein LOC203274
1,163120042	0,10645	1,188383105	0,00739	LOC219690	hypothetical LOC219690
1,125838586	0,193	1,105730653	0,02803	LOC219731	hypothetical LOC219731
0,692074858	0,0975	0,770571108	0,00974	LOC220906	hypothetical LOC220906
1,118837101	0,31546	1,180992661	0,04432	LOC221442	adenylate cyclase 10 pseudogene
1,091263877	0,58478	0,867538687	0,02811	LOC221710	hypothetical protein LOC221710
0,853817714	0,49108	0,755236293	0,00434	LOC221710	hypothetical protein LOC221710
0,993092495	0,95111	0,872362706	0,00219	LOC221710	hypothetical protein LOC221710
1,141554707	0,14326	1,141554707	0,00983	LOC221946	hypothetical LOC221946
1,261377409	0,1931	1,254402205	0,00844	LOC253039	hypothetical LOC253039
1,073260286	0,3001	1,156688184	0,02365	LOC254057	hypothetical protein LOC254057
1,051901779	0,60541	1,215879283	0,0086	LOC254100	hypothetical LOC254100
1,138394029	0,18383	1,169587664	0,00425	LOC255025	hypothetical LOC255025
1,173648178	0,25473	1,140763716	0,03289	LOC255167	hypothetical LOC255167
0,876605721	0,32458	0,844400887	0,00854	LOC280665	anti-CNG alpha 1 cation channel translation product-like
0,949342121	0,50969	1,139183377	0,02142	LOC282980	hypothetical LOC282980
1,040300267	0,72708	1,20163605	0,00502	LOC283070	hypothetical LOC283070
1,110338834	0,28185	1,124278924	0,0393	LOC283089	hypothetical LOC283089
1,082224645	0,38376	1,181811547	0,00106	LOC283140	hypothetical protein LOC283140
1,124278924	0,20435	1,149494848	0,00443	LOC283177	hypothetical LOC283177
1,096571589	0,41051	1,169587664	0,00868	LOC283194	hypothetical LOC283194
1,121943481	0,15362	1,144724161	0,03633	LOC283270	hypothetical protein LOC283270
0,936272247	0,79901	0,71449707	0,02813	LOC283357	hypothetical protein LOC283357
1,231998073	0,13702	1,245737416	0,00129	LOC283392	hypothetical LOC283392
1,10343374	0,32777	1,153485605	0,00647	LOC283403	hypothetical LOC283403
0,937571096	0,69769	0,729004689	0,01849	LOC283483	hypothetical LOC283483
1,076240125	0,52368	1,169587664	0,00615	LOC283501	hypothetical protein LOC283501

1,073260286	0,32352	1,085229372	0,04306	LOC283547	hypothetical LOC283547
0,789493887	0,34572	0,738669032	0,00554	LOC283588	hypothetical LOC283588
1,130530567	0,20174	1,117287138	0,01829	LOC283693	actin, gamma pseudogene
1,026689546	0,88568	0,844986384	0,00949	LOC283713	hypothetical protein LOC283713
1,118061851	0,31724	1,152686347	0,00864	LOC283788	FSHD region gene 1 pseudogene
0,825877665	0,17082	0,86154616	0,01851	LOC283788	FSHD region gene 1 pseudogene
1,055553718	0,74363	1,245737416	0,00209	LOC283887	hypothetical LOC283887
1,017479692	0,84671	1,121943481	0,01958	LOC284080	hypothetical LOC284080
1,105730653	0,30584	1,187559666	0,00177	LOC284100	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide pseudogene
1,041743429	0,63429	1,078480432	0,03833	LOC284240	hypothetical LOC284240
1,122721422	0,1452	1,121166078	0,02926	LOC284276	hypothetical LOC284276
1,076240125	0,24746	1,257013375	0,00256	LOC284276	hypothetical LOC284276
0,997231251	0,98492	1,136816973	0,01628	LOC284373	hypothetical protein LOC284373
1,273677475	0,09766	1,121166078	0,04547	LOC284440	hypothetical LOC284440
1,048262476	0,70944	1,147107024	0,04452	LOC284551	hypothetical LOC284551
1,174461971	0,06103	1,105730653	0,02025	LOC284561	hypothetical LOC284561
1,10343374	0,26492	1,167967395	0,00651	LOC284570	hypothetical protein LOC284570
1,148698355	0,24638	1,170398641	0,01947	LOC284749	hypothetical LOC284749
0,977385766	0,81756	0,815637493	0,04313	LOC284801	hypothetical LOC284801
1,049716684	0,8085	0,735603373	0,00417	LOC284801	hypothetical LOC284801
1,112650121	0,22374	1,136816973	0,01075	LOC284912	hypothetical LOC284912
0,988970916	0,90949	1,136816973	0,03247	LOC284939	hypothetical protein LOC284939
1,107264584	0,51012	1,262252032	0,00549	LOC285084	hypothetical LOC285084
1,118061851	0,52199	0,919550046	0,03796	LOC285147	hypothetical LOC285147
1,149494848	0,18706	1,321338406	0,00082	LOC285286	hypothetical LOC285286
1,062159186	0,3783	1,093535457	0,04123	LOC285423	hypothetical LOC285423
1,158292806	0,08476	1,124278924	0,019	LOC285548	hypothetical LOC285548
1,251796459	0,11358	1,265756594	0,00388	LOC285708	hypothetical LOC285708
0,8962667	0,3225	0,821310701	0,00193	LOC285965	hypothetical LOC285965
0,662044455	0,0973	0,679243142	0,00001	LOC286052	hypothetical protein LOC286052
1,041021598	0,65959	1,140763716	0,00901	LOC286059	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain pseudogene
1,116512962	0,29048	1,128182137	0,03326	LOC286068	hypothetical protein LOC286068
1,053361036	0,46088	1,132883885	0,00705	LOC286121	hypothetical protein LOC286121
1,118837101	0,27505	1,255271991	0,0018	LOC286149	hypothetical LOC286149
0,846745312	0,07789	0,870550563	0,02169	LOC286161	hypothetical protein LOC286161
1,022428531	0,71931	1,099616149	0,0352	LOC286359	hypothetical LOC286359
0,988970916	0,89504	1,100378609	0,0287	LOC338653	hypothetical LOC338653
1,118061851	0,28185	1,402499251	0,00019	LOC338799	hypothetical LOC338799
1,065108203	0,39042	1,127400412	0,04351	LOC339260	hypothetical LOC339260
1,112650121	0,24211	1,095811766	0,02624	LOC339442	hypothetical LOC339442
0,922103118	0,63206	0,870550563	0,04235	LOC339535	hypothetical LOC339535
1,252664439	0,06768	1,130530567	0,01197	LOC339539	hypothetical protein LOC339539
1,059952783	0,41075	1,154285418	0,0024	LOC339568	hypothetical LOC339568
1,076240125	0,44856	1,212512819	0,00065	LOC339666	hypothetical LOC339666
1,017479692	0,80786	1,109569472	0,03991	LOC339685	hypothetical LOC339685
1,019597683	0,83955	1,125058485	0,00911	LOC339822	hypothetical LOC339822
1,00556058	0,94884	1,108800644	0,03195	LOC340239	hypothetical LOC340239
1,165541198	0,06777	1,154285418	0,00918	LOC340340	hypothetical LOC340340
1,145517898	0,16662	1,105730653	0,03011	LOC340581	hypothetical protein LOC340581
1,134455485	0,24104	1,255271991	0,00549	LOC348120	hypothetical LOC348120
1,421092043	0,05858	1,475291457	0,00073	LOC386597	hypothetical LOC386597
0,936272247	0,45321	1,099616149	0,02748	LOC386597	hypothetical LOC386597
1,019597683	0,8224	1,150291893	0,00489	LOC386597	hypothetical LOC386597
1,126619228	0,13952	1,129747215	0,00587	LOC386758	hypothetical LOC386758
1,074004472	0,41598	1,116512962	0,04672	LOC386758	hypothetical LOC386758
1,089752112	0,346	1,202469249	0,01295	LOC387647	patched domain containing 3 pseudogene
0,999307093	0,99482	1,114193651	0,04341	LOC387895	hypothetical LOC387895
1,003471749	0,96487	1,130530567	0,00726	LOC388387	hypothetical LOC388387
1,071030823	0,51209	1,186736798	0,01752	LOC388906	hypothetical LOC388906
1,123499903	0,24679	1,099616149	0,03377	LOC388942	hypothetical LOC388942
0,983502074	0,88647	1,151887642	0,01599	LOC389023	hypothetical LOC389023
1,113421618	0,37067	1,100378609	0,04787	LOC389199	hypothetical LOC389199
0,922742493	0,65714	0,787307977	0,00259	LOC389834	ankyrin repeat domain 57 pseudogene
0,74277646	0,16792	0,71400199	0,00056	LOC400027	hypothetical LOC400027
1,441928871	0,05672	1,139973273	0,01828	LOC400043	hypothetical LOC400043
1,249196126	0,26353	0,804966138	0,014	LOC400099	hypothetical LOC400099
0,939522749	0,47003	1,183451022	0,01506	LOC400238	hypothetical LOC400238
0,973329374	0,70423	0,862143545	0,00365	LOC400238	hypothetical LOC400238
1,052631155	0,42177	1,108032348	0,02319	LOC400550	hypothetical LOC400550
1,042465761	0,7287	0,931740429	0,04888	LOC400590	hypothetical LOC400590
1,064370182	0,45776	0,91319825	0,03936	LOC400655	hypothetical LOC400655
1,076240125	0,27457	0,908148418	0,01849	LOC400768	hypothetical LOC400768
1,04608494	0,60679	1,117287138	0,01296	LOC400794	hypothetical LOC400794
1,229438867	0,09033	1,2397077	0,0005	LOC401022	hypothetical LOC401022
0,750019495	0,19874	0,685391402	0,00014	LOC401093	hypothetical LOC401093
1,00765376	0,96255	1,466116757	0,00003	LOC401320	hypothetical LOC401320
1,111879158	0,3824	1,116512962	0,02582	LOC401431	hypothetical LOC401431
0,950000383	0,67748	0,8962667	0,04715	LOC404266	hypothetical LOC404266
1,132098902	0,22732	1,149494848	0,00263	LOC404266	hypothetical LOC404266
1,217566019	0,07747	0,816203046	0,00229	LOC439911	hypothetical LOC439911
1,254402205	0,20671	1,268391399	0,00306	LOC439949	hypothetical LOC439949
1,186736798	0,0641	1,157490217	0,00661	LOC439949	hypothetical LOC439949
1,092777739	0,39714	1,221793102	0,0007	LOC440028	hypothetical LOC440028
1,21167266	0,14981	1,254402205	0,00085	LOC440104	1110012D08Rik pseudogene
0,795536484	0,15829	0,865136691	0,02739	LOC440288	hypothetical LOC440288
1,088242442	0,31037	1,227735684	0,02438	LOC440330	hypothetical protein LOC440330
0,989656656	0,90152	1,147107024	0,00216	LOC440335	hypothetical LOC440335
0,996540263	0,96788	0,934327347	0,04749	LOC440346	hypothetical LOC440346
1,136029265	0,34544	1,247465572	0,02473	LOC440602	hypothetical LOC440602
1,034547582	0,81823	1,127400412	0,01429	LOC440896	hypothetical LOC440896
0,874784765	0,24112	0,833353207	0,02628	LOC440944	hypothetical LOC440944
1,097331938	0,22536	1,124278924	0,01107	LOC441025	hypothetical LOC441025
1,22603486	0,11662	1,156688184	0,00785	LOC441052	hypothetical LOC441052
1,028113827	0,72338	1,118837101	0,02175	LOC441086	hypothetical LOC441086
1,011152081	0,91393	1,209155676	0,00682	LOC441124	hypothetical gene supported by AK093729; BX647918
1,36983298	0,24763	1,433955248	0,04411	LOC441178	hypothetical LOC441178
1,057018041	0,62023	1,245737416	0,00184	LOC441461	hypothetical LOC441461
0,903752727	0,22637	0,848507902	0,00105	LOC441461	hypothetical LOC441461
1,050444544	0,45059	1,104964485	0,03375	LOC441601	septin 7 pseudogene
1,225185332	0,05986	1,209155676	0,00644	LOC474358	hypothetical BC042079 locus
1,187559666	0,08072	1,125838586	0,00571	LOC493754	RAB guanine nucleotide exchange factor (GEF) 1 pseudogene
1,149494848	0,14184	1,114966219	0,03071	LOC494558	hypothetical locus LOC494558
1,033830736	0,57715	1,102669163	0,03137	LOC541471	hypothetical LOC541471
0,839149637	0,26052	0,798851916	0,0356	LOC642236	FSHD region gene 1 pseudogene

0,911301281	0,43874	0,778085177	0,00158	LOC642361	hypothetical LOC642361
0,798851916	0,05488	0,853817714	0,03668	LOC642826	hypothetical LOC642826
1,185092771	0,06173	1,149494848	0,01384	LOC643714	hypothetical LOC643714
1,162314108	0,15332	1,223488041	0,01237	LOC643733	caspase 4, apoptosis-related cysteine peptidase pseudogene
0,863339559	0,53779	0,778085177	0,01587	LOC643837	hypothetical LOC643837
0,981459064	0,83605	1,209994089	0,00382	LOC644794	hypothetical LOC644794
1,062895674	0,52388	1,089752112	0,0299	LOC644852	hypothetical LOC644852
1,029540083	0,71088	0,908148418	0,03364	LOC645513	hypothetical LOC645513
0,976031761	0,85574	0,84264683	0,01604	LOC645676	hypothetical LOC645676
0,979420298	0,7569	1,085981856	0,02306	LOC646241	hypothetical LOC646241
1,074004472	0,40864	1,139973273	0,02656	LOC646268	hCG1654703
1,22010051	0,05048	1,126619228	0,01614	LOC646324	hypothetical LOC646324
1,098092814	0,22888	1,164733586	0,00625	LOC646627	phospholipase inhibitor
1,024556823	0,79781	1,119612889	0,04064	LOC646701	developmental pluripotency associated 5 pseudogene
1,154285418	0,19497	1,163120042	0,00739	LOC646778	hypothetical LOC646778
1,043188594	0,72361	1,286989247	0,00046	LOC647589	hypothetical protein LOC647589
1,087488391	0,32615	1,092777739	0,04165	LOC647589	hypothetical protein LOC647589
1,071030823	0,74399	0,683020128	0,00071	LOC650794	hypothetical LOC650794
0,827596816	0,06903	0,849096246	0,04244	LOC650794	hypothetical LOC650794
1,169587664	0,09204	1,160703914	0,00706	LOC652276	hypothetical LOC652276
0,618995145	0,19714	0,652477474	0,00668	LOC653602	hypothetical LOC653602
0,924663278	0,68758	0,793883931	0,01806	LOC654433	hypothetical LOC654433
1,120389214	0,27385	1,340712592	0,00005	LOC692247	hypothetical locus LOC692247
1,025978145	0,81312	0,803850991	0,00235	LOC727916	hypothetical protein LOC727916
0,76684133	0,29067	0,669427628	0,00217	LOC728061	hCG2003663
1,078480432	0,43582	1,192508872	0,00127	LOC728175	hypothetical LOC728175
1,056285625	0,65286	0,815637493	0,00197	LOC728342	hypothetical protein LOC728342
1,125838586	0,1468	1,175276328	0,00794	LOC728723	hypothetical LOC728723
0,998614666	0,99014	0,801069878	0,00023	LOC728730	hypothetical LOC728730
1,190856849	0,08387	1,198309021	0,00413	LOC728743	zinc finger protein pseudogene
1,293248932	0,09943	1,330529041	0,00062	LOC728855	hypothetical LOC728855
1,204972315	0,05208	1,199139914	0,00672	LOC728855	hypothetical LOC728855
0,753667455	0,21208	0,763129604	0,00009	LOC729082	hypothetical LOC729082
1,136029265	0,28129	1,238848698	0,00295	LOC729173	hypothetical LOC729173
0,801069878	0,07565	0,821880187	0,01479	LOC729178	hypothetical LOC729178
1,052631155	0,51212	1,142346247	0,0039	LOC729291	hypothetical protein LOC729291
0,940826108	0,49776	0,852634892	0,03164	LOC729570	hypothetical LOC729570
1,25962998	0,10286	1,285206337	0,00854	LOC729678	hypothetical LOC729678
1,107264584	0,25988	1,121943481	0,0256	LOC729683	hypothetical protein LOC729683
1,154285418	0,35358	1,198309021	0,00705	LOC729810	hypothetical protein LOC729810
1,151887642	0,10526	1,147902414	0,0086	LOC729866	hCG1994895
1,086734863	0,50664	0,886381699	0,0059	LOC730102	quinone oxidoreductase-like protein 2 pseudogene
1,105730653	0,23254	1,191682575	0,00229	LOC730139	hypothetical LOC730139
1,128182137	0,11788	1,121943481	0,03161	LOC730227	hypothetical LOC730227
1,018891197	0,88351	1,107264584	0,03934	LOC730441	trypsin X3 pseudogene
1,144724161	0,18784	1,175276328	0,0018	LOC732275	hypothetical LOC732275
1,150291893	0,08358	1,131314463	0,00808	LOC79015	hypothetical LOC79015
1,020304659	0,84252	1,243149669	0,00138	LOC81691	exonuclease NEF-sp
1,182631	0,06698	1,29145735	0,0002	LOC84856	hypothetical LOC84856
1,07997656	0,53535	1,202469249	0,00727	LOC84931	hypothetical LOC84931
1,040300267	0,59296	1,132098902	0,03315	LOC92249	hypothetical LOC92249
1,130530567	0,28992	1,215879283	0,00707	LOC92659	hypothetical LOC92659
1,209155676	0,07295	1,180992661	0,00762	LOC93444	hypothetical protein LOC93444
0,969289817	0,75108	0,895025071	0,03324	LOC93622	hypothetical LOC93622
1,289668251	0,34283	1,370782805	0,00372	LOXL1	lysyl oxidase-like 1
1,143930973	0,33231	1,29145735	0,00236	LOXL2	lysyl oxidase-like 2
1,136029265	0,4014	1,20163605	0,00265	LOXL3	lysyl oxidase-like 3
1,278985581	0,05689	1,182631	0,01326	LOXL4	lysyl oxidase-like 4
1,243149669	0,09261	1,231144413	0,00179	LPAR1	lysophosphatidic acid receptor 1
1,047536127	0,58573	1,143930973	0,01602	LPAR2	lysophosphatidic acid receptor 2
0,832775771	0,28318	0,784040454	0,01068	LPAR5	lysophosphatidic acid receptor 5
0,86154616	0,47157	0,77271055	0,00517	LPCAT2	lysophosphatidylcholine acyltransferase 2
0,76630998	0,31599	0,786762445	0,00606	LPCAT2	lysophosphatidylcholine acyltransferase 2
1,165541198	0,28204	1,262252032	0,00101	LPCAT4	lysophosphatidylcholine acyltransferase 4
0,997922719	0,98777	0,785128119	0,00615	LPCAT4	lysophosphatidylcholine acyltransferase 4
1,111108729	0,28348	1,141554707	0,03783	LPCAT4	lysophosphatidylcholine acyltransferase 4
0,888226796	0,49675	0,643494624	0,00026	LPGAT1	lysophosphatidylglycerol acyltransferase 1
1,092777739	0,64279	1,316766922	0,03596	LPL	lipoprotein lipase
1,043188594	0,66951	1,152686347	0,03791	LPPR2	lipid phosphate phosphatase-related protein type 2
0,682073917	0,13416	0,725476104	0,00038	LRBA	LPS-responsive vesicle trafficking, beach and anchor containing
0,939522749	0,77521	0,77916458	0,00965	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3
1,027401439	0,91609	0,774855931	0,00622	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3
1,063632673	0,51168	1,128182137	0,02462	LRIG1	leucine-rich repeats and immunoglobulin-like domains 1
0,749499801	0,25041	0,837406488	0,03351	LRIG2	leucine-rich repeats and immunoglobulin-like domains 2
1,071030823	0,41487	1,108800644	0,01522	LRIG2	leucine-rich repeats and immunoglobulin-like domains 2
1,163120042	0,12843	1,116512962	0,04198	LRIT1	leucine-rich repeat, immunoglobulin-like and transmembrane domains 1
0,986916546	0,9131	1,238848698	0,03877	LRP1	low density lipoprotein receptor-related protein 1
0,868140228	0,16243	0,835087919	0,01319	LRP10	low density lipoprotein receptor-related protein 10
0,730016005	0,1074	0,738669032	0,00201	LRP10	low density lipoprotein receptor-related protein 10
0,936921447	0,76549	0,806641759	0,01758	LRP12	low density lipoprotein receptor-related protein 12
1,068805991	0,63971	1,252664439	0,03446	LRP5	low density lipoprotein receptor-related protein 5
0,823020345	0,12626	0,866336856	0,01766	LRP6	low density lipoprotein receptor-related protein 6
0,856188285	0,10867	0,84264683	0,00689	LRP6	low density lipoprotein receptor-related protein 6
0,890075733	0,44127	0,752101876	0,0024	LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor
1,172834949	0,17337	1,173648178	0,00068	LRPAP1	low density lipoprotein receptor-related protein associated protein 1
1,060687741	0,54315	1,159095952	0,00155	LRPPRC	leucine-rich PPR-motif containing
0,775393206	0,0951	0,812252396	0,00018	LRPPRC	leucine-rich PPR-motif containing
0,912565489	0,61896	0,775930854	0,00562	LRPPRC	leucine-rich PPR-motif containing
0,982139595	0,78427	1,106497353	0,03839	LRRC14	leucine rich repeat containing 14
0,96727633	0,86452	1,492778383	0,00386	LRRC15	leucine rich repeat containing 15
0,986232704	0,88177	1,135242102	0,02303	LRRC16A	leucine rich repeat containing 16A
1,002776436	0,98296	1,165541198	0,00174	LRRC23	leucine rich repeat containing 23
1,333298677	0,11997	1,364147835	0,0001	LRRC32	leucine rich repeat containing 32
1,028113827	0,74872	1,277213759	0,00261	LRRC37A4	leucine rich repeat containing 37, member A4 (pseudogene)
1,125058485	0,1231	1,121943481	0,04595	LRRC37BP1	leucine rich repeat containing 37B pseudogene 1
1,049716684	0,52131	0,909408252	0,03063	LRRC39	leucine rich repeat containing 39
0,753667455	0,08531	0,812815602	0,00854	LRRC4	leucine rich repeat containing 4
0,848507902	0,43809	0,73153561	0,00218	LRRC40	leucine rich repeat containing 40
1,088997015	0,48871	1,225185332	0,01425	LRRC43	leucine rich repeat containing 43
1,112650121	0,28823	1,208317843	0,00856	LRRC43	leucine rich repeat containing 43
0,790589117	0,06533	0,840313752	0,00215	LRRC47	leucine rich repeat containing 47
1,128964405	0,17041	1,187559666	0,00228	LRRC55	leucine rich repeat containing 55
0,824162085	0,36255	0,660211421	0,00135	LRRC57	leucine rich repeat containing 57
1,175276328	0,12207	1,243149669	0,00125	LRRC6	leucine rich repeat containing 6

1,172022284	0,07943	1,127400412	0,0467	LRRC71	leucine rich repeat containing 71
0,799960128	0,11615	0,890692901	0,01055	LRRC8A	leucine rich repeat containing 8 family, member A
0,77271055	0,31606	0,813379198	0,02096	LRRC8A	leucine rich repeat containing 8 family, member A
0,996540263	0,98906	0,827023368	0,00167	LRRC8B	leucine rich repeat containing 8 family, member B
0,955945318	0,83107	0,835666959	0,01832	LRRC8B	leucine rich repeat containing 8 family, member B
1,300440147	0,21571	1,243149669	0,0383	LRRC8C	leucine rich repeat containing 8 family, member C
0,722966147	0,26289	0,824733549	0,01068	LRRC8E	leucine rich repeat containing 8 family, member E
0,733566672	0,13347	0,713012859	0,00002	LRRC8E	leucine rich repeat containing 8 family, member E
0,548285794	0,05613	0,749499801	0,00162	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
0,631126016	0,0518	0,829894586	0,00365	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
0,798851916	0,14257	0,803293997	0,00579	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
0,759435845	0,17702	0,785128119	0,00349	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
0,712518807	0,09981	0,727490342	0,00233	LRRFIP1	leucine rich repeat (in FLII) interacting protein 1
1,015366101	0,91531	1,437936533	0,00266	LRRN3	leucine rich repeat neuronal 3
1,167158102	0,236	1,250062303	0,00552	LRRN3	leucine rich repeat neuronal 3
1,151887642	0,18347	1,128182137	0,02791	LRTM1	leucine-rich repeats and transmembrane domains 1
1,112650121	0,17503	1,139973273	0,01565	LRTOMT	leucine rich transmembrane and 0-methyltransferase domain containing
1,188383105	0,0799	1,265756594	0,00018	LRTOMT	leucine rich transmembrane and 0-methyltransferase domain containing
1,257013375	0,22503	1,271031689	0,00499	LSAMP	limbic system-associated membrane protein
0,791685866	0,16141	0,866336856	0,00975	LSG1	large subunit GTPase 1 homolog (S. cerevisiae)
1,311302014	0,13585	1,318593614	0,00083	LSM10	LSM10, U7 small nuclear RNA associated
0,878430468	0,48994	0,837406488	0,00896	LSM11	LSM11, U7 small nuclear RNA associated
0,731028724	0,10583	0,812252396	0,00143	LSM14A	LSM14A, SCD6 homolog A (S. cerevisiae)
1,035264924	0,75714	0,911301281	0,04202	LSM3	LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae)
0,919550046	0,72604	0,756283999	0,00647	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)
1,091263877	0,72672	0,755759964	0,00237	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)
0,844986384	0,1449	0,77916458	0,00002	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae)
1,400556321	0,1001	1,568080908	0,00029	LSP1	lymphocyte-specific protein 1
1,307671349	0,10319	1,586667686	0,00001	LST1	leukocyte specific transcript 1
1,303147149	0,21682	1,440929749	0,00033	LST1	leukocyte specific transcript 1
1,271031689	0,15553	1,469168633	0,00116	LST1	leukocyte specific transcript 1
1,274560627	0,20847	1,509425969	0,00008	LST1	leukocyte specific transcript 1
1,293248932	0,09349	1,374588696	0,0007	LST1	leukocyte specific transcript 1
1,172022284	0,09751	1,222640278	0,00094	LTB	lymphotoxin beta (TNF superfamily, member 3)
1,329607108	0,07897	1,304954948	0,01635	LTB	lymphotoxin beta (TNF superfamily, member 3)
1,237132479	0,16181	1,189207115	0,02437	LTC4S	leukotriene C4 synthase
1,074004472	0,48946	1,22603486	0,00119	LTK	leukocyte receptor tyrosine kinase
0,853817714	0,41105	0,87175824	0,01806	LTN1	listerin E3 ubiquitin protein ligase 1
0,909408252	0,30138	0,852044095	0,00097	LTN1	listerin E3 ubiquitin protein ligase 1
0,808320869	0,49738	0,628942486	0,00204	LTN1	listerin E3 ubiquitin protein ligase 1
0,720464874	0,07684	0,792234811	0,00201	LUC7L2	LUC7-like 2 (S. cerevisiae)
0,669427628	0,07463	0,85797053	0,04545	LUC7L2	LUC7-like 2 (S. cerevisiae)
0,817902059	0,16417	0,847919965	0,0033	LUC7L2	LUC7-like 2 (S. cerevisiae)
0,789493887	0,31238	0,834509281	0,04082	LUC7L2	LUC7-like 2 (S. cerevisiae)
0,652025368	0,20494	0,773782497	0,00326	LUC7L3	LUC7-like 3 (S. cerevisiae)
0,853226098	0,37508	0,888226796	0,0394	LUC7L3	LUC7-like 3 (S. cerevisiae)
0,639049682	0,09487	0,635956503	0,00018	LUC7L3	LUC7-like 3 (S. cerevisiae)
1,085981856	0,48919	1,29056249	0,00406	LUM	lumican
0,608361179	0,06854	0,736113431	0,00192	LUZP1	leucine zipper protein 1
1,058484395	0,84209	1,366987452	0,00347	LY6E	lymphocyte antigen 6 complex, locus E
1,019597683	0,8091	1,119612889	0,00913	LY6K	lymphocyte antigen 6 complex, locus K
1,286989247	0,10727	1,375541818	0,00171	LY86	lymphocyte antigen 86
0,610896551	0,15281	0,66296288	0,00057	LYAR	Ly1 antibody reactive homolog (mouse)
0,968618189	0,65499	1,134455485	0,02741	LYG1	lysozyme G-like 1
0,955282936	0,59272	0,926588062	0,04415	LYG2	lysozyme G-like 2
1,463071221	0,2477	1,624504793	0,00004	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
0,96996191	0,67696	0,848507902	0,00789	LYNX1	Ly6/neurotoxin 1
0,588861395	0,05694	0,813379198	0,00062	LYPD3	LY6/PLAUR domain containing 3
0,839149637	0,05744	0,837406488	0,03793	LYPD6	LY6/PLAUR domain containing 6
1,192508872	0,6984	0,794985251	0,00509	LYPLA1	lysophospholipase I
0,872967591	0,4188	0,779704843	0,02127	LYPLA1	lysophospholipase I
1,008352455	0,959	0,85086373	0,03437	LYRM1	LYR motif containing 1
0,66296288	0,12075	0,71946679	0,00263	LYRM2	LYR motif containing 2
0,829894586	0,10548	0,784040454	0	LYRM2	LYR motif containing 2
1,065846736	0,49781	1,149494848	0,0063	LYRM2	LYR motif containing 2
0,89564567	0,5689	0,845572287	0,03288	LYRM5	LYR motif containing 5
1,043911927	0,77862	0,791685866	0,01704	LYRM5	LYR motif containing 5
0,722966147	0,161	0,738669032	0,00364	LYRM7	Lyrm7 homolog (mouse)
0,729004689	0,06579	0,771105413	0,0358	LYRM7	Lyrm7 homolog (mouse)
0,759435845	0,14859	0,754190038	0,01282	LYRM7	Lyrm7 homolog (mouse)
0,682073917	0,12763	0,730016005	0,00016	LYST	lysosomal trafficking regulator
1,078480432	0,40023	1,168777249	0,00101	LYVE1	lymphatic vessel endothelial hyaluronan receptor 1
0,964598185	0,82074	0,841479482	0,0113	LZIC	leucine zipper and CTNNBIP1 domain containing
0,939522749	0,79685	0,851453708	0,04593	LZTFL1	leucine zipper transcription factor-like 1
0,775930854	0,0734	0,837406488	0,04852	LZTFL1	leucine zipper transcription factor-like 1
1,037419937	0,76521	1,168777249	0,03722	LZTR1	leucine-zipper-like transcription regulator 1
1,04608494	0,71204	1,138394029	0,02674	LZTS1	leucine zipper, putative tumor suppressor 1
1,015366101	0,88385	1,120389214	0,01137	LZTS1	leucine zipper, putative tumor suppressor 1
1,155085785	0,26978	1,172834949	0,04469	LZTS2	leucine zipper, putative tumor suppressor 2
1,173648178	0,06631	1,126619228	0,04771	M1	hypothetical LOC100507027
1,121943481	0,24589	1,125838586	0,0122	M6PR	mannose-6-phosphate receptor (cation dependent)
0,875998315	0,27194	0,727490342	0,00904	MAB21L3	mab-21-like 3 (C. elegans)
0,71548826	0,09383	0,800514811	0,0104	MACF1	microtubule-actin crosslinking factor 1
0,696888619	0,06336	0,872967591	0,0042	MACF1	microtubule-actin crosslinking factor 1
0,782411782	0,07359	0,837406488	0,00483	MACF1	microtubule-actin crosslinking factor 1
0,770037174	0,05442	0,76154437	0,00016	MACROD1	MACRO domain containing 1
1,021012126	0,92712	0,773782497	0,04813	MAD2L1	MAD2 mitotic arrest deficient-like 1 (yeast)
1,130530567	0,2023	1,115739322	0,01028	MAD2L1BP	MAD2L1 binding protein
1,114193651	0,60027	1,185914499	0,00827	MAD2L2	MAD2 mitotic arrest deficient-like 2 (yeast)
0,70027816	0,27182	0,806082831	0,00024	MAEA	macrophage erythroblast attacher
0,750019495	0,28585	0,777007269	0,00009	MAFB	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)
1,079228237	0,3833	1,096571589	0,02894	MAGEB2	melanoma antigen family B, 2
1,054091423	0,56818	1,158292806	0,0019	MAGED1	melanoma antigen family D, 1
1,052631155	0,79839	1,219255094	0,00024	MAGED2	melanoma antigen family D, 2
1,311302014	0,16971	0,829894586	0,0313	MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2
0,703684188	0,08033	0,76154437	0,00601	MAGI3	membrane associated guanylate kinase, WW and PDZ domain containing 3
1,146312186	0,15125	1,209994089	0,0156	MAGIX	MAGI family member, X-linked
1,136029265	0,08449	1,154285418	0,00853	MAGIX	MAGI family member, X-linked
0,906890329	0,22403	0,864537231	0,02272	MAGIX	MAGI family member, X-linked
0,727994774	0,08277	0,656560563	0,00552	MAGT1	magnesium transporter 1
0,792234811	0,13394	0,807760778	0,00083	MAK16	MAK16 homolog (S. cerevisiae)
0,951318276	0,71663	0,852634892	0,04762	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
0,732550437	0,16568	0,755236293	0,00213	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
0,936921447	0,86503	0,691595315	0,04	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)

0,653382627	0,22207	0,698823486	0,00011	MALAT1	metastasis associated lung adenocarcinoma transcript 1 (non-protein coding)
0,635075491	0,09547	0,794985251	0,02995	MALL	mal, T-cell differentiation protein-like
0,704660378	0,08922	0,711531731	0,00052	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1
0,536258308	0,07865	0,408951029	0,00016	MAMDC2	MAM domain containing 2
1,079228237	0,55478	1,232852325	0,01512	MAMDC4	MAM domain containing 4
0,637722196	0,15081	0,656560563	0,0001	MAML3	mastermind-like 3 (Drosophila)
1,185092771	0,14298	1,143930973	0,01449	MAMSTR	MEF2 activating motif and SAP domain containing transcriptional regulator
1,28788163	0,08689	1,172022284	0,03882	MAN1C1	mannosidase, alpha, class 1C, member 1
1,063632673	0,56031	1,144724161	0,00641	MAN2A2	mannosidase, alpha, class 2A, member 2
1,382232207	0,13152	1,492778383	0,00056	MAN2B1	mannosidase, alpha, class 2B, member 1
1,035982764	0,74946	1,244011653	0,00654	MAN2C1	mannosidase, alpha, class 2C, member 1
0,785672517	0,25573	0,737134609	0,00082	MANSC1	MANSC domain containing 1
1,136816973	0,26369	1,374588696	0,00154	MAP1A	microtubule-associated protein 1A
1,120389214	0,63251	1,335148303	0,00993	MAP1B	microtubule-associated protein 1B
1,019597683	0,77521	1,125058485	0,01217	MAP1LC3B2	microtubule-associated protein 1 light chain 3 beta 2
0,91383145	0,34513	0,846745312	0,02456	MAP2K3	mitogen-activated protein kinase kinase 3
0,549808075	0,05285	0,733566672	0,00732	MAP2K5	mitogen-activated protein kinase kinase 5
1,089752112	0,49236	1,189207115	0,00267	MAP2K7	mitogen-activated protein kinase kinase 7
0,798298386	0,20106	0,8362464	0,04933	MAP3K1	mitogen-activated protein kinase kinase kinase 1
1,046810282	0,69638	1,139183377	0,01188	MAP3K10	mitogen-activated protein kinase kinase kinase 10
1,216722359	0,15918	1,391846392	0,00026	MAP3K12	mitogen-activated protein kinase kinase kinase 12
1,148698355	0,07356	1,155886707	0,03161	MAP3K12	mitogen-activated protein kinase kinase kinase 12
0,828744904	0,39667	0,812252396	0,00541	MAP3K2	mitogen-activated protein kinase kinase kinase 2
0,879039561	0,38395	0,882091365	0,04351	MAP3K2	mitogen-activated protein kinase kinase kinase 2
1,071030823	0,68861	0,827023368	0,0158	MAP3K2	mitogen-activated protein kinase kinase kinase 2
1,43097652	0,23825	1,232852325	0,00324	MAP3K5	mitogen-activated protein kinase kinase kinase 5
0,986916546	0,95174	0,842062954	0,02623	MAP3K7	mitogen-activated protein kinase kinase kinase 7
0,889458994	0,52868	0,786762445	0,00523	MAP3K7	mitogen-activated protein kinase kinase kinase 7
0,763658749	0,09063	0,802737389	0,01025	MAP4	microtubule-associated protein 4
1,412254404	0,10049	1,463071221	0,0002	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1
1,295042999	0,14242	1,378405153	0,0008	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1
0,78132788	0,40108	0,716480825	0,00822	MAP4K3	mitogen-activated protein kinase kinase kinase kinase 3
0,741747467	0,11345	0,749499801	0,00542	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4
0,961927455	0,72516	1,151887642	0,03082	MAP6	microtubule-associated protein 6
1,145517898	0,07492	1,107264584	0,03059	MAP9	microtubule-associated protein 9
1,131314463	0,25099	1,179356592	0,01146	MAPK11	mitogen-activated protein kinase 11
1,144724161	0,2154	1,32592576	0,00089	MAPK12	mitogen-activated protein kinase 12
1,125838586	0,17278	1,139183377	0,01263	MAPK12	mitogen-activated protein kinase 12
0,837406488	0,23069	0,832775771	0,00274	MAPK14	mitogen-activated protein kinase 14
0,950659101	0,58085	0,814507563	0,00004	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1-like
0,89564567	0,30341	0,85027416	0,00109	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1-like
0,781869643	0,11856	0,779704843	0,00088	MAPK1IP1L	mitogen-activated protein kinase 1 interacting protein 1-like
1,071030823	0,26273	1,155085785	0,00247	MAPK4	mitogen-activated protein kinase 4
0,741233505	0,11827	0,833931044	0,01041	MAPK7	mitogen-activated protein kinase 7
1,216722359	0,1017	1,329607108	0,00025	MAPK8	mitogen-activated protein kinase 8
0,886381699	0,22365	0,814507563	0,0143	MAPK8	mitogen-activated protein kinase 8
0,961260928	0,64235	0,782954296	0,00004	MAPKAP1	mitogen-activated protein kinase associated protein 1
1,162314108	0,22618	1,162314108	0,04883	MAPKAPK2	mitogen-activated protein kinase-activated protein kinase 2
0,746906729	0,10528	0,842062954	0,03221	MAPKAPK5	mitogen-activated protein kinase-activated protein kinase 5
0,604158922	0,06269	0,751580739	0,03363	MAPRE1	microtubule-associated protein, RP/EB family, member 1
0,991716731	0,93751	1,143138335	0,01506	MAPRE3	microtubule-associated protein, RP/EB family, member 3
0,944092419	0,89493	0,732550437	0,00031	MARCH6	membrane-associated ring finger (C3HC4) 6
0,875998315	0,51753	0,837406488	0,0097	MARCH7	membrane-associated ring finger (C3HC4) 7
0,76684133	0,20282	0,76154437	0,00011	MARCH7	membrane-associated ring finger (C3HC4) 7
0,869947353	0,42323	0,85027416	0,02458	MARK1	MAP/microtubule affinity-regulating kinase 1
0,832775771	0,46061	0,77271055	0,00953	MARK1	MAP/microtubule affinity-regulating kinase 1
0,974679631	0,82444	0,864537231	0,03517	MARS2	methionyl-tRNA synthetase 2, mitochondrial
1,121166078	0,36084	1,200803427	0,00126	MARVELD1	MARVEL domain containing 1
1,149494848	0,20445	1,140763716	0,0139	MARVELD1	MARVEL domain containing 1
0,804966138	0,30548	0,825877665	0,00783	MARVELD2	MARVEL domain containing 2
0,762600827	0,06876	0,788400174	0,01112	MARVELD2	MARVEL domain containing 2
1,001387256	0,99065	1,102669163	0,03376	MASP1	mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)
1,203303026	0,32149	1,352848231	0,00304	MASP1	mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)
1,017479692	0,90133	1,168777249	0,01347	MAST3	microtubule associated serine/threonine kinase 3
0,621574834	0,06012	0,686818117	0	MAST4	microtubule associated serine/threonine kinase family member 4
0,700763725	0,20577	0,710053679	0,00001	MAST4	microtubule associated serine/threonine kinase family member 4
0,704172113	0,07212	0,700763725	0,00124	MASTL	microtubule associated serine/threonine kinase-like
1,204972315	0,05272	1,255271991	0,00076	MAT1A	methionine adenosyltransferase I, alpha
1,037419937	0,64772	1,147107024	0,01622	MATL2963	hypothetical LOC283314
0,936272247	0,46158	1,231144413	0,00856	MATL2963	hypothetical LOC283314
0,918276162	0,69848	1,198309021	0,00134	MAVS	mitochondrial antiviral signaling protein
0,957271458	0,66251	0,868742185	0,00716	MAX	MYC associated factor X
1,032398535	0,7865	1,162314108	0,00944	MAZ	MYC-associated zinc finger protein (purine-binding transcription factor)
1,170398641	0,12112	1,135242102	0,012	MB	myoglobin
0,798851916	0,08523	0,805524291	0,00163	MBD2	methyl-CpG binding domain protein 2
1,216722359	0,12087	1,124278924	0,03365	MBD2	methyl-CpG binding domain protein 2
0,892546971	0,5729	0,741233505	0,01485	MBIP	MAP3K12 binding inhibitory protein 1
1,28788163	0,05795	1,151089491	0,02441	MBL1P	mannose-binding lectin (protein A) 1, pseudogene
0,825305409	0,40135	0,710546022	0,00032	MBLAC2	metallo-beta-lactamase domain containing 2
0,842062954	0,40375	0,879039561	0,02792	MBNL1	muscleblind-like (Drosophila)
1,044635763	0,64476	1,261377409	0,00014	MBNL1	muscleblind-like (Drosophila)
0,948026965	0,57002	0,799960128	0,00094	MBNL3	muscleblind-like 3 (Drosophila)
0,723467443	0,17045	0,739693755	0,00014	MBNL3	muscleblind-like 3 (Drosophila)
1,002776436	0,96772	0,8362464	0,00262	MBNL3	muscleblind-like 3 (Drosophila)
0,802737389	0,15241	0,855002178	0,03139	MBOAT2	membrane bound O-acyltransferase domain containing 2
1,041021598	0,78446	1,21335356	0,03213	MBOAT7	membrane bound O-acyltransferase domain containing 7
1,068805991	0,29038	1,159899655	0,02459	MBOAT7	membrane bound O-acyltransferase domain containing 7
0,718968266	0,20033	0,79940583	0,00027	MBP	myelin basic protein
0,91319825	0,5619	1,284315809	0,00678	MBP	myelin basic protein
0,775930854	0,35526	0,672217497	0,00001	MBP	myelin basic protein
0,822450069	0,13949	0,860949188	0,01965	MBP	myelin basic protein
0,807201075	0,34784	0,824733549	0,02336	MBTD1	mbt domain containing 1
0,76154437	0,33587	0,798298386	0,02277	MBTD1	mbt domain containing 1
1,070288698	0,64883	1,168777249	0,0023	MBTPS1	membrane-bound transcription factor peptidase, site 1
1,022428531	0,8956	1,141554707	0,01275	MBTPS1	membrane-bound transcription factor peptidase, site 1
0,961927455	0,86096	0,897510051	0,03439	MBTPS2	membrane-bound transcription factor peptidase, site 2
1,018891197	0,93756	1,257884972	0,00362	MCAM	melanoma cell adhesion molecule
0,790589117	0,13204	0,87539133	0,025	MCCC2	methylcrotonoyl-CoA carboxylase 2 (beta)
0,757333158	0,06524	0,712518807	0,00546	MCCC2	methylcrotonoyl-CoA carboxylase 2 (beta)
0,980779004	0,81366	0,928516852	0,04253	MCF2	MCF.2 cell line derived transforming sequence
1,147902414	0,10368	1,217566019	0,00573	MCF2L	MCF.2 cell line derived transforming sequence-like
1,092777739	0,30389	1,131314463	0,03132	MCF2L	MCF.2 cell line derived transforming sequence-like
1,076240125	0,65575	1,200803427	0,02017	MCF2L	MCF.2 cell line derived transforming sequence-like
0,877821798	0,23011	0,833353207	0,0119	MCM10	minichromosome maintenance complex component 10

0,799960128	0,05396	0,803293997	0,01265	MCM3AP-AS1	MCM3AP antisense RNA 1 (non-protein coding)
0,772175133	0,05465	0,784040454	0,00058	MCM4	minichromosome maintenance complex component 4
0,963929808	0,77894	0,899378312	0,04567	MCM6	minichromosome maintenance complex component 6
1,025978145	0,83765	0,923382311	0,03513	MCM6	minichromosome maintenance complex component 6
0,964598185	0,84739	0,727490342	0,00052	MCM9	minichromosome maintenance complex component 9
0,76950361	0,18018	0,775930854	0,0026	MCMBP	minichromosome maintenance complex binding protein
0,990342872	0,88762	0,908778116	0,03773	MCMBP	minichromosome maintenance complex binding protein
0,897510051	0,56057	0,862741345	0,00863	MCPH1	microcephalin 1
0,859160755	0,15138	1,197478705	0,00382	MCPH1	microcephalin 1
1,70408819	0,075	1,365093718	0,01481	MCTP1	multiple C2 domains, transmembrane 1
1,382232207	0,09695	1,283425898	0,02532	MCTP2	multiple C2 domains, transmembrane 2
1,070288698	0,61592	1,230291345	0,0025	MDC1	mediator of DNA-damage checkpoint 1
1,053361036	0,7535	0,755759964	0,01661	MDFIC	MyoD family inhibitor domain containing
1,058484395	0,56479	0,855595026	0,00242	MDFIC	MyoD family inhibitor domain containing
1,2397077	0,09649	1,275444392	0,01496	MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1
1,120389214	0,19563	1,131314463	0,01872	MDH1B	malate dehydrogenase 1B, NAD (soluble)
1,100378609	0,47442	0,894404902	0,01894	MDM2	Mdm2 p53 binding protein homolog (mouse)
1,476314406	0,09268	1,436940177	0,00606	MDM4	Mdm4 p53 binding protein homolog (mouse)
0,832198735	0,44316	0,689680461	0,0021	MDN1	MDN1, midasin homolog (yeast)
0,787307977	0,24659	0,837406488	0,00249	MDN1	MDN1, midasin homolog (yeast)
1,125838586	0,15932	1,133669413	0,01876	MDS2	myelodysplastic syndrome 2 translocation associated
0,564091069	0,06179	0,621574834	0,00011	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic
1,053361036	0,62808	1,278099363	0,00329	ME3	malic enzyme 3, NADP(+)-dependent, mitochondrial
1,270150983	0,19539	1,257884972	0,02118	MECOM	MDS1 and EVI1 complex locus
1,657489809	0,06792	1,299539062	0,00928	MECOM	MDS1 and EVI1 complex locus
0,809442217	0,455	0,787853886	0,01905	MED1	mediator complex subunit 1
0,929160674	0,78653	0,734075318	0,00033	MED1	mediator complex subunit 1
1,011152081	0,9471	1,164733586	0,03535	MED12	mediator complex subunit 12
0,829894586	0,23095	0,853226098	0,0037	MED13	mediator complex subunit 13
1,059952783	0,50881	1,163120042	0,02415	MED13	mediator complex subunit 13
0,808320869	0,1691	0,800514811	0,00184	MED13	mediator complex subunit 13
0,924022572	0,64753	0,820172911	0,00074	MED13L	mediator complex subunit 13-like
0,843815796	0,35429	0,828170661	0,01985	MED14	mediator complex subunit 14
0,813379198	0,407	0,727490342	0,00398	MED14	mediator complex subunit 14
1,051901779	0,51439	1,088242442	0,04473	MED14	mediator complex subunit 14
0,813379198	0,06118	0,823591017	0,04201	MED16	mediator complex subunit 16
0,809442217	0,12683	0,763658749	0,00507	MED17	mediator complex subunit 17
0,672683604	0,05604	0,710546022	0,00962	MED21	mediator complex subunit 21
1,159899655	0,45271	1,462057448	0,00267	MED22	mediator complex subunit 22
0,832198735	0,46048	0,77916458	0,00058	MED23	mediator complex subunit 23
1,065846736	0,75682	0,808320869	0,0002	MED23	mediator complex subunit 23
1,16634937	0,21217	1,172834949	0,04635	MED25	mediator complex subunit 25
1,074004472	0,4559	0,910669834	0,04554	MED26	mediator complex subunit 26
0,908148418	0,50642	0,797192477	0,00022	MED28	mediator complex subunit 28
0,813379198	0,25351	0,895025071	0,01107	MED29	mediator complex subunit 29
1,250062303	0,19814	0,823591017	0,00522	MED30	mediator complex subunit 30
1,00695555	0,954	0,753667455	0,0014	MED30	mediator complex subunit 30
1,140763716	0,08846	0,892546971	0,02803	MED31	mediator complex subunit 31
0,905633983	0,63123	0,658839976	0,00002	MED31	mediator complex subunit 31
0,827023368	0,41515	0,788946841	0,00463	MED4	mediator complex subunit 4
1,133669413	0,58416	0,878430468	0,04768	MED7	mediator complex subunit 7
1,102669163	0,28229	1,155085785	0,00537	MED7	mediator complex subunit 7
0,668037039	0,05576	0,778624691	0,00279	MED8	mediator complex subunit 8
0,872967591	0,12606	0,845572287	0,00085	MED8	mediator complex subunit 8
0,801069878	0,051	0,791137301	0,01114	MEF2A	myocyte enhancer factor 2A
1,157490217	0,23553	1,2397077	0,01948	MEFV	Mediterranean fever
1,109569472	0,27339	1,209994089	0,00095	MEG3	maternally expressed 3 (non-protein coding)
1,082224645	0,41211	1,143930973	0,03114	MEGF10	multiple EGF-like-domains 10
1,052631155	0,64165	1,229438867	0,00092	MEGF11	multiple EGF-like-domains 11
0,668500248	0,10271	0,723969086	0,01676	MEIS1	Meis homeobox 1
0,796088099	0,17428	0,76418826	0,04291	MEIS2	Meis homeobox 2
1,074004472	0,51788	1,144724161	0,02769	MEIS3	Meis homeobox 3
0,847332435	0,28458	0,840313752	0,01097	MELK	maternal embryonic leucine zipper kinase
1,237990291	0,05035	1,192508872	0,02339	MEPE	matrix extracellular phosphoglycoprotein
0,984184022	0,88623	1,142346247	0,03244	MERTK	c-mer proto-oncogene tyrosine kinase
1,035982764	0,78633	0,906890329	0,02782	MESDC2	mesoderm development candidate 2
1,118061851	0,19268	1,101141598	0,02469	MESDC2	mesoderm development candidate 2
1,121943481	0,22702	1,184271612	0,04702	MESP2	mesoderm posterior 2 homolog (mouse)
0,720464874	0,12881	0,750019495	0,00008	MET	met proto-oncogene (hepatocyte growth factor receptor)
0,906890329	0,41864	1,118837101	0,03993	METAP1D	methionyl aminopeptidase type 1D (mitochondrial)
0,947370071	0,44262	0,899378312	0,02122	METAP2	methionyl aminopeptidase 2
0,676424116	0,12395	0,600818025	0,00001	METAP2	methionyl aminopeptidase 2
0,772175133	0,15649	0,684441907	0,00018	METAP2	methionyl aminopeptidase 2
0,773782497	0,05416	0,888842681	0,01395	METTL13	methyltransferase like 13
0,73153561	0,11951	0,771640088	0,00122	METTL14	methyltransferase like 14
0,873572896	0,42693	0,811127156	0,0011	METTL14	methyltransferase like 14
1,051172909	0,58979	1,159899655	0,01504	METTL17	methyltransferase like 17
0,952637998	0,74241	1,117287138	0,01767	METTL17	methyltransferase like 17
0,918276162	0,47144	1,114966219	0,02215	METTL17	methyltransferase like 17
1,191682575	0,07923	1,160703914	0,0202	METTL20	methyltransferase like 20
0,69640574	0,1854	0,697855382	0,00152	METTL21D	methyltransferase like 21D
1,021012126	0,84085	0,806082831	0,00296	METTL21D	methyltransferase like 21D
0,907519155	0,50588	0,872967591	0,02446	METTL2B	methyltransferase like 2B
0,891310496	0,33647	0,864537231	0,00353	METTL9	methyltransferase like 9
0,819604608	0,31564	0,724973416	0,01862	METTL9	methyltransferase like 9
1,200803427	0,18036	1,174461971	0,01582	MEX3C	mex-3 homolog C (C. elegans)
0,825877665	0,41551	0,713012859	0,00263	MEX3C	mex-3 homolog C (C. elegans)
1,195819797	0,18233	1,245737416	0,00923	MEX3C	mex-3 homolog C (C. elegans)
0,952637998	0,61251	0,85797053	0,04481	MEX3D	mex-3 homolog D (C. elegans)
1,105730653	0,7214	1,353786279	0,0154	MFAP2	microfibrillar-associated protein 2
0,630251696	0,15595	0,52268005	0,00008	MFAP3L	microfibrillar-associated protein 3-like
0,875998315	0,4384	1,300440147	0,02092	MFAP4	microfibrillar-associated protein 4
1,074004472	0,53693	1,172834949	0,0276	MFF	mitochondrial fission factor
0,951318276	0,7313	1,25962998	0,02379	MFGE8	milk fat globule-EGF factor 8 protein
1,134455485	0,24874	0,906261938	0,02033	MFI2	antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5
0,721964598	0,11775	0,725476104	0,00098	MFN1	mitofusin 1
0,745872013	0,08003	0,808320869	0,04512	MFN1	mitofusin 1
1,439931319	0,06448	1,333298677	0,00011	MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
1,076986376	0,39018	1,122721422	0,01308	MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
0,782411782	0,0853	0,760489377	0,00044	MFSD1	major facilitator superfamily domain containing 1
0,988970916	0,92694	0,792784137	0,0058	MFSD4	major facilitator superfamily domain containing 4
0,597909898	0,07331	0,668963777	0,00223	MGA	MAX gene associated
1,303147149	0,05973	1,172834949	0,03799	MGAM	maltase-glucoamylase (alpha-glucosidase)
1,496922987	0,05967	1,351910833	0,00782	MGAT1	mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase

1,116512962	0,24404	1,184271612	0,00456	MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A
1,193335743	0,08869	1,10343374	0,0428	MGAT5B	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase, isozyme B
1,041021598	0,7297	1,164733586	0,02271	MGC16121	hypothetical protein MGC16121
1,146312186	0,08861	1,25092908	0,00195	MGC16703	tubulin, alpha pseudogene
0,957935218	0,64427	0,89688816	0,01963	MGC27345	hypothetical protein MGC27345
0,756808396	0,06212	0,842062954	0,00402	MGC2752	hypothetical LOC65996
1,160703914	0,11127	1,171210181	0,00844	MGC2889	hypothetical protein MGC2889
1,155886707	0,21816	1,240567298	0,00017	MGC34034	hypothetical protein MGC34034
1,139183377	0,16334	1,204972315	0,00727	MGC39584	hypothetical LOC441058
1,065846736	0,41758	1,146312186	0,01919	MGC4473	hypothetical LOC79100
1,002776436	0,98219	1,245737416	0,00026	MGC45922	hypothetical LOC284365
1,0132569	0,87237	1,221793102	0,00242	MGC57346	hypothetical LOC401884
1,333298677	0,21189	1,581178233	0,00894	MGP	matrix Gla protein
0,741233505	0,16266	0,754190038	0,00784	MIB1	mindbomb homolog 1 (Drosophila)
0,91319825	0,69753	0,801625329	0,01717	MIB1	mindbomb homolog 1 (Drosophila)
0,832198735	0,36042	0,726986259	0,02423	MIB1	mindbomb homolog 1 (Drosophila)
0,951318276	0,88877	0,753667455	0,00238	MIB1	mindbomb homolog 1 (Drosophila)
0,778085177	0,08412	0,670821112	0,00006	MIB2	mindbomb homolog 2 (Drosophila)
1,124278924	0,43852	1,185092771	0,01349	MICAL3	microtubule associated monoxygenase, calponin and LIM domain containing 3
1,004167543	0,95201	1,169587664	0,01311	MICAL3	microtubule associated monoxygenase, calponin and LIM domain containing 3
0,698823486	0,05452	0,808320869	0,00791	MICALL1	MICAL-like 1
0,865736566	0,32806	1,130530567	0,03002	MICU1	mitochondrial calcium uptake 1
0,888842681	0,18111	0,874784765	0,00521	MID2	midline 2
0,917004043	0,54609	0,806082831	0,01833	MIER1	mesoderm induction early response 1 homolog (Xenopus laevis)
0,885767519	0,52439	0,847332435	0,03083	MIER1	mesoderm induction early response 1 homolog (Xenopus laevis)
1,105730653	0,39114	1,2397077	0,00391	MIER2	mesoderm induction early response 1, family member 2
1,199139914	0,10634	1,257013375	0,00453	MIER2	mesoderm induction early response 1, family member 2
0,855002178	0,48193	0,709070018	0,04668	MIER3	mesoderm induction early response 1, family member 3
0,877821798	0,52623	0,712518807	0,00016	MIER3	mesoderm induction early response 1, family member 3
0,875998315	0,56972	0,671286251	0,00367	MIER3	mesoderm induction early response 1, family member 3
0,999307093	0,99528	1,17772279	0,00837	MIIP	migration and invasion inhibitory protein
0,986916546	0,89728	0,891928519	0,03773	MINA	MYC induced nuclear antigen
0,61429349	0,05542	0,736623843	0,026	MINK1	misshapen-like kinase 1
0,890075733	0,51301	0,659753955	0,00185	MIOS	missing oocyte, meiosis regulator, homolog (Drosophila)
1,048262476	0,60744	1,096571589	0,03284	MIPOL1	mirror-image polydactyly 1
1,395710764	0,05486	1,561572985	0,00001	MIR143HG	MIR143 host gene (non-protein coding)
0,898132373	0,60226	0,863938187	0,03245	MIR17HG	miR-17-92 cluster host gene (non-protein coding)
0,807760778	0,06561	0,887611337	0,04546	MIR600HG	MIR600 host gene (non-protein coding)
1,053361036	0,57719	1,185092771	0,01312	MIRLET7BHG	MIRLET7B host gene (non-protein coding)
0,933679945	0,43239	0,790041312	0,03361	MIS18A	MIS18 kinetochore protein homolog A (S. pombe)
0,788400174	0,14738	0,768970416	0,00333	MIS18BP1	MIS18 binding protein 1
0,933032992	0,39522	1,195819797	0,00413	MKI67	antigen identified by monoclonal antibody Ki-67
0,836826243	0,21703	0,771640088	0,00001	MKI67IP	MKI67 (FHA domain) interacting nucleolar phosphoprotein
0,775930854	0,05189	0,873572896	0,02422	MKKS	McKusick-Kaufman syndrome
1,010451446	0,94332	0,847919965	0,03255	MKL1	megakaryoblastic leukemia (translocation) 1
1,036701101	0,74011	0,8962667	0,02207	MKL2	MKL/myocardin-like 2
0,971980988	0,86736	0,830470024	0,017	MKNK1	MAP kinase interacting serine/threonine kinase 1
1,049716684	0,80225	0,860352631	0,02544	MKRN1	makorin ring finger protein 1
0,981459064	0,8972	0,859756486	0,00289	MKRN2	makorin ring finger protein 2
1,048989328	0,54293	0,906890329	0,01553	MKRN3	makorin ring finger protein 3
1,146312186	0,12861	1,118837101	0,03858	MKS1	Meckel syndrome, type 1
0,971307496	0,91744	1,174461971	0,0412	MLEC	malectin
1,30224419	0,14417	1,383190629	0,00057	MLEC	malectin
1,083725967	0,64409	0,752101876	0,00029	MLF1	myeloid leukemia factor 1
0,696888619	0,07921	0,607518396	0	MLF1IP	MLF1 interacting protein
0,999307093	0,99477	1,121943481	0,04561	MLH3	mutL homolog 3 (E. coli)
0,771640088	0,12559	0,709561678	0,00013	MLIP	muscular LMNA-interacting protein
0,91383145	0,26169	0,888226796	0,02281	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
1,160703914	0,1518	1,17772279	0,00542	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
0,999307093	0,99776	1,21335356	0,01357	MLL	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila)
0,77271055	0,37984	0,71449707	0,00782	MLL3	myeloid/lymphoid or mixed-lineage leukemia 3
0,885153765	0,66073	0,873572896	0,02228	MLL3	myeloid/lymphoid or mixed-lineage leukemia 3
0,830470024	0,4062	0,815072332	0,00303	MLL3	myeloid/lymphoid or mixed-lineage leukemia 3
0,740206649	0,52573	0,846158597	0,0171	MLL5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)
0,817902059	0,41723	0,796088099	0,00149	MLL5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)
0,89564567	0,64148	0,829894586	0,0396	MLL5	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax homolog, Drosophila)
0,863938187	0,09681	0,873572896	0,00892	MLLT1	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 1
0,571965487	0,08673	0,688247801	0,00225	MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
0,736113431	0,14852	0,78132788	0,03041	MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
0,898132373	0,53911	0,791685866	0,00026	MLLT10	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 10
0,764718139	0,06839	0,67877249	0,00168	MLLT4	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
1,155886707	0,05577	1,25962998	0,00074	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6
1,0453601	0,58413	1,159899655	0,04056	MLPH	melanophilin
1,215036792	0,29904	1,348167732	0,00208	MLXIP	MLX interacting protein
1,350037985	0,08502	1,208317843	0,01427	MLXIP	MLX interacting protein
1,257884972	0,13937	1,370782805	0,00196	MLXIP	MLX interacting protein
0,819604608	0,17344	0,866336856	0,00842	MMAA	methylmalonic aciduria (cobalamin deficiency) cblA type
0,955945318	0,70919	0,854409741	0,00312	MMAA	methylmalonic aciduria (cobalamin deficiency) cblA type
0,732042848	0,10484	0,784040454	0,00825	MMAA	methylmalonic aciduria (cobalamin deficiency) cblA type
1,602139755	0,05431	1,125838586	0,04945	MMD	monocyte to macrophage differentiation-associated
0,990342872	0,89744	1,094293701	0,04286	MMEL1	membrane metallo-endopeptidase-like 1
2,229932437	0,08872	1,980685744	0,01304	MMP13	matrix metallopeptidase 13 (collagenase 3)
1,316766922	0,06358	1,460032011	0,00024	MMP14	matrix metallopeptidase 14 (membrane-inserted)
1,076986376	0,49968	1,163120042	0,01902	MMP16	matrix metallopeptidase 16 (membrane-inserted)
1,014662547	0,93663	1,32408891	0,0108	MMP19	matrix metallopeptidase 19
1,004167543	0,98785	1,605474777	0,00128	MMP2	matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)
1,399585866	0,19753	1,689972769	0,00011	MMP28	matrix metallopeptidase 28
1,217566019	0,23654	1,729074463	0	MMP28	matrix metallopeptidase 28
1,327765158	0,07403	1,412254404	0,00001	MMP28	matrix metallopeptidase 28
1,224336392	0,13633	1,235418637	0,00479	MMP28	matrix metallopeptidase 28
1,147902414	0,34848	1,261377409	0,01792	MMRN2	multimerin 2
1,121943481	0,24396	1,158292806	0,03862	MMRN2	multimerin 2
1,427014506	0,05159	1,304050735	0,00529	MMRN2	multimerin 2
0,964598185	0,66347	0,886381699	0,02212	MND1	meiotic nuclear divisions 1 homolog (S. cerevisiae)
0,888842681	0,40343	0,811127156	0,0004	MNS1	meiosis-specific nuclear structural 1
0,787853886	0,11887	0,789493887	0,0002	MNT	MAX binding protein
1,387030969	0,17334	1,418140036	0,002	MOBKL2A	MOB1, Mps One Binder kinase activator-like 2A (yeast)
0,832775771	0,33128	0,717474767	0,00072	MOBKL2B	MOB1, Mps One Binder kinase activator-like 2B (yeast)
1,199139914	0,30093	1,439931319	0,00024	MOCS1	molybdenum cofactor synthesis 1
0,868742185	0,30381	0,890075733	0,02893	MOCS2	molybdenum cofactor synthesis 2
1,019597683	0,80594	0,847332435	0,01009	MOCS2	molybdenum cofactor synthesis 2
1,086734863	0,45442	1,106497353	0,03906	MOGAT1	monoacylglycerol O-acyltransferase 1
1,155085785	0,16068	1,124278924	0,01878	MOGAT2	monoacylglycerol O-acyltransferase 2
1,163120042	0,11424	1,169587664	0,02178	MOGAT2	monoacylglycerol O-acyltransferase 2

1,348167732	0,15095	1,313121125	0,00221	MOGS	mannosyl-oligosaccharide glucosidase
0,947370071	0,52891	1,121943481	0,03386	MOK	MOK protein kinase
0,838568184	0,27118	0,865136691	0,03136	MON1B	MON1 homolog B (yeast)
0,965267025	0,75169	1,137605228	0,03819	MON1B	MON1 homolog B (yeast)
0,844400887	0,37412	0,813943185	0,0357	MORC3	MORC family CW-type zinc finger 3
1,275444392	0,42971	0,844986384	0,02997	MORF4L2	mortality factor 4 like 2
1,084477409	0,40444	1,210833084	0,00003	MORN1	MORN repeat containing 1
0,863938187	0,0565	0,794985251	0,01091	MORN2	MORN repeat containing 2
1,123499903	0,18009	1,194991205	0,01084	MORN4	MORN repeat containing 4
1,161508732	0,23617	1,150291893	0,00762	MOS	v-mos Moloney murine sarcoma viral oncogene homolog
1,043188594	0,58187	1,127400412	0,04966	MOSC1	MOCO sulphurase C-terminal domain containing 1
1,368883813	0,05336	1,159899655	0,04399	MOSC2	MOCO sulphurase C-terminal domain containing 2
0,728499557	0,21371	0,72597914	0,04208	MOSPD1	motile sperm domain containing 1
0,854409741	0,49459	0,792234811	0,0083	MOSPD1	motile sperm domain containing 1
1,140763716	0,13466	1,197478705	0,00068	MOV10L1	Mov10l1, Moloney leukemia virus 10-like 1, homolog (mouse)
0,964598185	0,87476	1,182631	0,02519	MPG	N-methylpurine-DNA glycosylase
0,718968266	0,32185	0,747942879	0,00058	MPHOSPH8	M-phase phosphoprotein 8
1,184271612	0,06179	1,16634937	0,02286	MPHOSPH9	M-phase phosphoprotein 9
1,346300069	0,09637	1,169587664	0,02357	MPHOSPH9	M-phase phosphoprotein 9
1,01395948	0,89038	1,208317843	0,00642	MPHOSPH9	M-phase phosphoprotein 9
1,209155676	0,05188	1,207480591	0,00846	MPI	mannose phosphate isomerase
1,065846736	0,65947	1,203303026	0,00306	MPP1	membrane protein, palmitoylated 1, 55kDa
0,87417862	0,341	0,872967591	0,01492	MPP4	membrane protein, palmitoylated 4 (MAGUK p55 subfamily member 4)
0,989656656	0,95565	0,847919965	0,00132	MPP5	membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)
1,057750964	0,43048	1,125058485	0,04395	MPRIP	myosin phosphatase Rho interacting protein
0,968618189	0,87685	1,138394029	0,03358	MPV17	MpV17 mitochondrial inner membrane protein
1,219255094	0,09556	1,278099363	0,00369	MPV17L	MPV17 mitochondrial membrane protein-like
1,181811547	0,1988	1,150291893	0,01854	MPV17L2	MPV17 mitochondrial membrane protein-like 2
1,132098902	0,19525	1,246601194	0,00112	MR1	major histocompatibility complex, class I-related
1,053361036	0,52372	1,17609125	0,00075	MR1	major histocompatibility complex, class I-related
1,041743429	0,66772	1,136816973	0,01592	MRAP	melanocortin 2 receptor accessory protein
1,142346247	0,28015	1,436940177	0,00028	MRC2	mannose receptor, C type 2
0,846158597	0,22796	0,87175824	0,00747	MRE11A	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)
0,730016005	0,0734	0,643048742	0,00026	MREG	melanoregulin
0,692554734	0,10785	0,641712949	0,00091	MREG	melanoregulin
1,313121125	0,18628	1,459020344	0,00345	MRGPRF	MAS-related GPR, member F
1,167158102	0,15809	1,145517898	0,00923	MRI1	methylthioribose-1-phosphate isomerase homolog (S. cerevisiae)
0,863938187	0,16156	0,827023368	0,00027	MRP63	mitochondrial ribosomal protein 63
0,792784137	0,07407	0,852634892	0,00472	MRP63	mitochondrial ribosomal protein 63
0,802737389	0,28198	0,89688816	0,02237	MRPL17	mitochondrial ribosomal protein L17
0,742261785	0,11023	0,854409741	0,02666	MRPL18	mitochondrial ribosomal protein L18
0,771640088	0,05372	0,61813763	0,00001	MRPL19	mitochondrial ribosomal protein L19
0,899378312	0,22667	0,848507902	0,01482	MRPL20	mitochondrial ribosomal protein L20
0,91383145	0,26862	0,897510051	0,02226	MRPL30	mitochondrial ribosomal protein L30
0,743806881	0,08002	0,822450069	0,03195	MRPL30	mitochondrial ribosomal protein L30
0,772175133	0,15226	0,744838732	0,00003	MRPL30	mitochondrial ribosomal protein L30
0,982139595	0,81521	0,910669834	0,01745	MRPL33	mitochondrial ribosomal protein L33
0,793883931	0,17409	0,734584317	0,00532	MRPL42	mitochondrial ribosomal protein L42
0,737134609	0,07536	0,887611337	0,00962	MRPL45	mitochondrial ribosomal protein L45
0,931740429	0,43673	0,911933166	0,0458	MRPL46	mitochondrial ribosomal protein L46
0,782954296	0,16674	0,738157203	0,01618	MRPL50	mitochondrial ribosomal protein L50
0,828744904	0,25285	0,780786493	0,00259	MRPL50	mitochondrial ribosomal protein L50
0,943438251	0,52808	0,872362706	0,01316	MRPL9	mitochondrial ribosomal protein L9
0,855002178	0,44926	0,87175824	0,03215	MRPL9	mitochondrial ribosomal protein L9
0,879039561	0,44677	0,798851916	0,00277	MRPS10	mitochondrial ribosomal protein S10
0,691116103	0,11211	0,76154437	0,02243	MRPS10	mitochondrial ribosomal protein S10
0,624165274	0,13656	0,744838732	0,03629	MRPS10	mitochondrial ribosomal protein S10
0,76950361	0,10131	0,763129604	0,00131	MRPS11	mitochondrial ribosomal protein S11
0,963929808	0,73765	0,821880187	0,01399	MRPS12	mitochondrial ribosomal protein S12
0,982139595	0,87662	0,863339559	0,02817	MRPS12	mitochondrial ribosomal protein S12
0,933032992	0,61267	0,755759964	0,01027	MRPS15	mitochondrial ribosomal protein S15
0,893165852	0,1953	0,835666959	0,00024	MRPS18B	mitochondrial ribosomal protein S18B
0,934975198	0,55586	0,826450318	0,00066	MRPS22	mitochondrial ribosomal protein S22
0,829894586	0,0614	0,804966138	0,00017	MRPS22	mitochondrial ribosomal protein S22
0,96727633	0,68761	0,821880187	0,00139	MRPS23	mitochondrial ribosomal protein S23
0,74277646	0,18506	0,612168196	0,00007	MRPS25	mitochondrial ribosomal protein S25
0,884540435	0,17774	0,816203046	0,00561	MRPS30	mitochondrial ribosomal protein S30
0,812252396	0,11048	0,840313752	0,00176	MRPS35	mitochondrial ribosomal protein S35
0,912565489	0,51375	0,815072332	0,00752	MRPS5	mitochondrial ribosomal protein S5
1,066585781	0,5644	0,87417862	0,03138	MRPS5	mitochondrial ribosomal protein S5
0,937571096	0,7349	0,715984371	0,00032	MRS2	MRS2 magnesium homeostasis factor homolog (S. cerevisiae)
0,713012859	0,05192	0,774855931	0,00064	MRTO4	mRNA turnover 4 homolog (S. cerevisiae)
1,343503426	0,07585	1,437936533	0,00043	MRVI1	murine retrovirus integration site 1 homolog
1,133669413	0,24338	1,165541198	0,01022	MS4A5	membrane-spanning 4-domains, subfamily A, member 5
1,381274448	0,08463	1,293248932	0,01727	MS4A7	membrane-spanning 4-domains, subfamily A, member 7
1,51887169	0,12815	1,209155676	0,04812	MSI2	musashi homolog 2 (Drosophila)
0,808881348	0,16658	0,899378312	0,04441	MSL1	male-specific lethal 1 homolog (Drosophila)
0,735093668	0,1735	0,768437591	0,001	MSMO1	methylsterol monooxygenase 1
1,027401439	0,81902	1,167967395	0,02836	MSN	moesin
1,051172909	0,68196	1,219255094	0,00405	MSRB2	methionine sulfoxide reductase B2
0,920187651	0,535	1,159899655	0,03935	MSRB3	methionine sulfoxide reductase B3
1,173648178	0,24728	1,194991205	0,02916	MSRB3	methionine sulfoxide reductase B3
1,035982764	0,70786	1,172834949	0,01094	MSRB3	methionine sulfoxide reductase B3
0,857376037	0,13566	1,118837101	0,04716	MST1	macrophage stimulating 1 (hepatocyte growth factor-like)
0,818469182	0,43952	0,772175133	0,00494	MST4	serine/threonine protein kinase MST4
0,928516852	0,54352	1,241427492	0,0018	MT1F	metallothionein 1F
1,017479692	0,90753	1,278099363	0,04188	MTA1	metastasis associated 1
0,940826108	0,73167	0,664803554	0,00016	MTAP	methylthioadenosine phosphorylase
1,151887642	0,24894	1,199971382	0,01831	MTAP	methylthioadenosine phosphorylase
0,700763725	0,11514	0,829894586	0,01232	MTCH2	mitochondrial carrier 2
0,85797053	0,05354	0,839731493	0,00021	MTCP1NB	mature T-cell proliferation 1 neighbor
0,91383145	0,20055	0,835087919	0,00006	MTCP1NB	mature T-cell proliferation 1 neighbor
0,885153765	0,48386	0,865136691	0,02084	MTDH	metadherin
0,952637998	0,83098	0,7944344	0,03413	MTDH	metadherin
0,856188285	0,05055	0,831045862	0,00422	MTERF	mitochondrial transcription termination factor
0,788400174	0,13553	0,774855931	0,00045	MTERFD1	MTERF domain containing 1
0,715984371	0,09554	0,824162085	0,00478	MTF1	metal-regulatory transcription factor 1
0,78024548	0,36105	0,798851916	0,0029	MTF2	metal response element binding transcription factor 2
0,839149637	0,41264	0,819036698	0,02449	MTF2	metal response element binding transcription factor 2
1,118061851	0,60542	0,832198735	0,01512	MTF2	metal response element binding transcription factor 2
0,995159722	0,96075	0,792234811	0,01056	MTFMT	mitochondrial methionyl-tRNA formyltransferase
0,823020345	0,15014	0,729004689	0,00043	MTFR1	mitochondrial fission regulator 1
0,78024548	0,15814	0,773782497	0,00063	MTFR1	mitochondrial fission regulator 1
0,802181166	0,06478	0,842062954	0,00119	MTHFD1	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate synthetase

1,076986376	0,31886	0,898755127	0,02179	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like
0,812252396	0,39897	0,674551267	0,00031	MTHFD2L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2-like
1,181811547	0,17407	1,258757174	0,00026	MTHFR	methylenetetrahydrofolate reductase (NAD(P)H)
0,949342121	0,61791	0,811127156	0,003	MTHFR	methylenetetrahydrofolate reductase (NAD(P)H)
0,988285652	0,9161	0,849684999	0,04076	MTM1	myotubularin 1
0,737645729	0,19603	0,671286251	0,00038	MTM1	myotubularin 1
0,754712984	0,16113	0,765248385	0,0027	MTMR12	myotubularin related protein 12
0,752101876	0,17901	0,77916458	0,00014	MTMR2	myotubularin related protein 2
0,882702996	0,25896	0,909408252	0,02644	MTMR3	myotubularin related protein 3
0,995849753	0,98485	0,865736566	0,01807	MTMR6	myotubularin related protein 6
1,140763716	0,21197	1,108032348	0,03517	MTMR8	myotubularin related protein 8
0,790589117	0,27245	0,778085177	0,00008	MTMR9	myotubularin related protein 9
0,991716731	0,93714	0,893785162	0,01779	MTNR1A	melatonin receptor 1A
0,73153561	0,12073	0,793333843	0,00359	MTPAP	mitochondrial poly(A) polymerase
0,715984371	0,10512	0,673150035	0,00001	MTPAP	mitochondrial poly(A) polymerase
0,573156093	0,11412	0,690637224	0,00992	MTPAP	mitochondrial poly(A) polymerase
0,732550437	0,06233	0,85027416	0,00711	MTRF1	mitochondrial translational release factor 1
1,044635763	0,7102	0,870550563	0,02401	MTRF1	mitochondrial translational release factor 1
1,061423209	0,6996	0,89564567	0,03643	MTRF1	mitochondrial translational release factor 1
0,925304428	0,32163	0,929804943	0,03695	MTRF1L	mitochondrial translational release factor 1-like
0,97874165	0,89852	0,915099168	0,03034	MTUS2	microtubule associated tumor suppressor candidate 2
1,093535457	0,19356	1,150291893	0,00451	MTUS2	microtubule associated tumor suppressor candidate 2
0,821310701	0,11469	0,832775771	0,00695	MTX2	metaxin 2
0,883927531	0,54168	0,875998315	0,0413	MTX3	metaxin 3
0,97874165	0,82893	0,86154616	0,02715	MUC13	mucin 13, cell surface associated
1,167967395	0,13797	1,155886707	0,007	MUC13	mucin 13, cell surface associated
1,02313747	0,75778	1,191682575	0,01959	MUC17	mucin 17, cell surface associated
1,41029796	0,06131	1,433955248	0,00389	MUC20	mucin 20, cell surface associated
1,219255094	0,43517	1,400556321	0,00762	MUC20	mucin 20, cell surface associated
1,148698355	0,07606	1,180174343	0,01072	MUC4	mucin 4, cell surface associated
0,832198735	0,12182	0,837987135	0,00449	MUC4	mucin 4, cell surface associated
1,152686347	0,10733	1,152686347	0,01816	MUC6	mucin 6, oligomeric mucus/gel-forming
1,083725967	0,5575	0,892546971	0,01923	MUC7	mucin 7, secreted
1,095052471	0,26241	1,163120042	0,00243	MUC8	mucin 8
0,819036698	0,22806	0,752101876	0,00464	MUDENG	MU-2/AP1M2 domain containing, death-inducing
0,781869643	0,26019	0,784584098	0,00045	MUDENG	MU-2/AP1M2 domain containing, death-inducing
0,732550437	0,16258	0,743291492	0,00039	MUM1	melanoma associated antigen (mutated) 1
0,910669834	0,57959	0,779704843	0,03481	MUM1	melanoma associated antigen (mutated) 1
1,087488391	0,41054	1,127400412	0,02636	MUS81	MUS81 endonuclease homolog (S. cerevisiae)
0,660211421	0,07067	0,71449707	0,00008	MUT	methylmalonyl CoA mutase
0,67877249	0,05781	0,722465199	0,00061	MUTED	muted homolog (mouse)
1,067325338	0,59849	1,185092771	0,00099	MUTYH	mutY homolog (E. coli)
1,015366101	0,88497	0,837987135	0,01803	MVD	mevalonate (diphospho) decarboxylase
0,78132788	0,0755	0,783497187	0,00809	MVK	mevalonate kinase
0,955945318	0,67158	1,140763716	0,02366	MVK	mevalonate kinase
1,004167543	0,98442	1,225185332	0,01604	MVP	major vault protein
0,69495911	0,17186	0,767373048	0,04683	MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)
0,816768991	0,23362	0,84323111	0,03936	MXD1	MAX dimerization protein 1
1,060687741	0,67549	1,22858698	0,02277	MXRA5	matrix-remodelling associated 5
1,217566019	0,30585	1,440929749	0,00125	MXRA8	matrix-remodelling associated 8
1,142346247	0,18692	1,358486285	0,00007	MYBL1	v-myb myeloblastosis viral oncogene homolog (avian)-like 1
1,111879158	0,37976	1,189207115	0,04045	MYBL2	v-myb myeloblastosis viral oncogene homolog (avian)-like 2
0,948026965	0,55911	1,126619228	0,03888	MYBPC2	myosin binding protein C, fast type
0,917004043	0,58803	0,856781955	0,02191	MYCBP	c-myc binding protein
0,817902059	0,07894	0,816768991	0,00901	MYCBP	c-myc binding protein
1	0,99932	0,885767519	0,01272	MYCBP	c-myc binding protein
0,493800431	0,12436	0,757858283	0,02199	MYCBP2	MYC binding protein 2
0,683020128	0,16634	0,738669032	0,00033	MYCBP2	MYC binding protein 2
0,630688704	0,05857	0,712518807	0,0002	MYCBP2	MYC binding protein 2
1,158292806	0,09515	1,121166078	0,04845	MYCNOS	MYCN opposite strand/antisense RNA (non-protein coding)
1,07997656	0,39327	1,122721422	0,01599	MYCNOS	MYCN opposite strand/antisense RNA (non-protein coding)
0,885767519	0,36769	0,860352631	0,00597	MYD88	myeloid differentiation primary response gene (88)
0,742261785	0,11592	0,828744904	0,02138	MYH14	myosin, heavy chain 14, non-muscle
1,106497353	0,3714	1,113421618	0,02304	MYL7	myosin, light chain 7, regulatory
1,471206746	0,16294	1,956126947	0,00011	MYL9	myosin, light chain 9, regulatory
1,180992661	0,09338	1,221793102	0,00469	MYLK	myosin light chain kinase
1,137605228	0,15221	1,139973273	0,03707	MYLK2	myosin light chain kinase 2
1,130530567	0,14687	1,164733586	0,00129	MYLK4	myosin light chain kinase family, member 4
1,198309021	0,05692	1,122721422	0,01531	MYLPF	myosin light chain, phosphorylatable, fast skeletal muscle
0,932386486	0,65602	0,807760778	0,01582	MYNN	myoneurin
0,823020345	0,38939	0,829319546	0,00215	MYNN	myoneurin
1,156688184	0,52375	0,819036698	0,00727	MYNN	myoneurin
0,777007269	0,07792	0,833353207	0,00692	MYO10	myosin X
1,02313747	0,89202	1,246601194	0,00175	MYO15B	myosin XVB pseudogene
1,154285418	0,26241	1,311302014	0,00043	MYO15B	myosin XVB pseudogene
0,741233505	0,05895	0,627201102	0,00001	MYO19	myosin XIX
0,786217292	0,31082	0,747942879	0,00043	MYO5A	myosin VA (heavy chain 12, myoxin)
0,759435845	0,14448	0,74277646	0,00256	MYO5A	myosin VA (heavy chain 12, myoxin)
0,744322628	0,27682	0,804408371	0,02876	MYO6	myosin VI
1,294145654	0,05722	1,184271612	0,04312	MYO7B	myosin VIIB
1,242288282	0,19833	1,292352831	0,00428	MYO9B	myosin IXB
0,805524291	0,06446	0,784040454	0,00092	MYOF	myoferlin
1,199139914	0,05072	1,299539062	0,00614	MYOZ1	myozenin 1
1,261377409	0,11324	1,186736798	0,00226	MYOZ3	myozenin 3
1,107264584	0,2539	1,30224419	0,00005	MYOZ3	myozenin 3
1,07997656	0,45104	1,255271991	0,00167	MYOZ3	myozenin 3
1,102669163	0,29717	1,139973273	0,02715	MYOZ3	myozenin 3
1,019597683	0,83385	0,87417862	0,03971	MYSM1	Myb-like, SWIRM and MPN domains 1
0,922103118	0,72249	0,772175133	0,03986	MYSM1	Myb-like, SWIRM and MPN domains 1
0,982820599	0,87235	1,20163605	0,00257	MZF1	myeloid zinc finger 1
0,990342872	0,94186	1,154285418	0,03796	MZF1	myeloid zinc finger 1
0,784040454	0,05854	0,776468875	0,00366	N4BP1	NEDD4 binding protein 1
0,754712984	0,06547	0,878430468	0,04016	N4BP1	NEDD4 binding protein 1
0,888842681	0,56849	0,793883931	0,00278	N4BP1	NEDD4 binding protein 1
0,971980988	0,77976	1,154285418	0,02092	N4BP1	NEDD4 binding protein 1
0,963261894	0,84702	0,735603373	0,01151	N4BP2	NEDD4 binding protein 2
0,720964436	0,13634	0,802737389	0,02009	N4BP2	NEDD4 binding protein 2
1,184271612	0,44709	0,829894586	0,04423	NA	NA
1,180992661	0,18164	1,147902414	0,02922	NA	NA
0,776468875	0,19455	0,787853886	0,0025	NA	NA
0,950000383	0,50926	0,886381699	0,01821	NA	NA
0,977385766	0,76056	1,231998073	0,00142	NA	NA
1,04608494	0,55968	1,099616149	0,02909	NA	NA
1,076986376	0,38261	1,386069886	0,00768	NA	NA

0,843815796	0,23201	0,683493726	0,01277	NA	NA
1,063632673	0,47333	1,139183377	0,02784	NA	NA
1,070288698	0,40532	1,084477409	0,03498	NA	NA
1,011853201	0,90831	1,258757174	0,00137	NA	NA
0,947370071	0,41625	1,151887642	0,03883	NA	NA
1,077733145	0,36277	1,20163605	0,00717	NA	NA
0,91383145	0,25149	0,836826243	0,00131	NA	NA
1,111108729	0,28241	1,136816973	0,01673	NA	NA
1,050444544	0,69408	1,149494848	0,00073	NA	NA
1,002776436	0,96347	1,145517898	0,02721	NA	NA
1,076986376	0,57727	1,240567298	0,00044	NA	NA
1,134455485	0,6289	0,784040454	0,04099	NA	NA
1,058484395	0,58738	1,168777249	0,00293	NA	NA
0,780786493	0,24259	0,713012859	0,00229	NA	NA
1,319507911	0,21105	1,568080908	0,00006	NA	NA
1,113421618	0,31179	1,155085785	0,00694	NA	NA
1,125838586	0,18473	0,841479482	0,02599	NA	NA
1,015366101	0,88549	1,133669413	0,03116	NA	NA
1,119612889	0,18341	1,140763716	0,03737	NA	NA
0,960594864	0,52454	1,145517898	0,02893	NA	NA
0,993092495	0,92866	1,119612889	0,0345	NA	NA
1,128964405	0,20208	1,151887642	0,0206	NA	NA
0,86154616	0,09037	0,79940583	0,00188	NA	NA
1,071773463	0,6776	0,787853886	0,013	NA	NA
0,879649076	0,22373	0,723467443	0,00245	NA	NA
0,972654947	0,77868	1,156688184	0,02162	NA	NA
0,922742493	0,38961	0,858565436	0,01238	NA	NA
0,939522749	0,79582	1,143930973	0,04722	NA	NA
1,120389214	0,26958	1,165541198	0,00333	NA	NA
1,01395948	0,82551	0,931740429	0,02633	NA	NA
1,252664439	0,10539	1,216722359	0,04344	NA	NA
1,322254605	0,05079	1,442928687	0,00063	NA	NA
0,938871747	0,74598	0,720464874	0,00005	NA	NA
0,961260928	0,84245	0,788946841	0,00224	NA	NA
0,739693755	0,10709	0,674083866	0,00055	NA	NA
0,906261938	0,16527	0,901250463	0,00632	NA	NA
0,505225723	0,10334	0,514770042	0,00007	NA	NA
0,836826243	0,35146	0,695923196	0,00227	NA	NA
1,038139271	0,61557	0,89688816	0,01788	NA	NA
0,993781093	0,92752	0,859160755	0,00517	NA	NA
0,601651513	0,07461	0,595841287	0,00018	NA	NA
1,037419937	0,68836	0,876605721	0,00857	NA	NA
1,072516617	0,28837	1,110338834	0,03098	NA	NA
0,952637998	0,64179	0,856188285	0,01256	NA	NA
0,829894586	0,05647	0,817335328	0,0039	NA	NA
0,855002178	0,24185	0,84264683	0,02304	NA	NA
1,150291893	0,34164	0,862143545	0,0039	NA	NA
1,095052471	0,32156	1,093535457	0,04015	NA	NA
1,085229372	0,37956	1,127400412	0,03538	NA	NA
1,104964485	0,26964	1,165541198	0,00826	NA	NA
0,904379378	0,67935	0,765778999	0,01342	NA	NA
0,85797053	0,35235	0,777007269	0,01862	NA	NA
1,108800644	0,48958	0,661127303	0,00015	NA	NA
1,25353302	0,20295	0,793883931	0,00369	NA	NA
1,601029621	0,06162	1,161508732	0,02803	NA	NA
0,863938187	0,18913	0,740206649	0,00725	NA	NA
0,773782497	0,31179	0,816768991	0,01745	NA	NA
1,128182137	0,3201	1,157490217	0,04574	NA	NA
0,894404902	0,45747	0,831045862	0,02425	NA	NA
1,094293701	0,42102	1,210833084	0,00717	NA	NA
1,130530567	0,16359	1,120389214	0,02969	NA	NA
1,160703914	0,0969	1,136816973	0,01083	NA	NA
1,172834949	0,25886	1,314031627	0,00028	NA	NA
1,142346247	0,23305	1,209155676	0,00959	NA	NA
1,086734863	0,52334	1,215879283	0,00385	NA	NA
1,222640278	0,06615	1,121943481	0,02378	NA	NA
1,108800644	0,35444	1,339783602	0,00745	NA	NA
1,125838586	0,22014	1,126619228	0,01464	NA	NA
0,976708529	0,79013	1,099616149	0,0355	NA	NA
1,240567298	0,08243	1,278099363	0,00138	NA	NA
0,76154437	0,12089	0,786217292	0,00628	NA	NA
0,890075733	0,21362	0,890075733	0,04251	NA	NA
1,145517898	0,08221	1,205807828	0,00257	NA	NA
1,176906737	0,15711	1,156688184	0,00828	NA	NA
1,060687741	0,44041	1,163120042	0,00378	NA	NA
1,088242442	0,34058	1,118061851	0,03531	NA	NA
1,028113827	0,80688	1,131314463	0,02239	NA	NA
1,226884977	0,08027	1,200803427	0,00448	NA	NA
1,125838586	0,17471	1,102669163	0,03127	NA	NA
1,146312186	0,05589	1,136029265	0,03552	NA	NA
1,345367209	0,10033	1,297738767	0,00019	NA	NA
0,941478465	0,6812	0,889458994	0,00419	NA	NA
0,97063447	0,71925	0,921464186	0,02957	NA	NA
0,877213549	0,59792	0,627201102	0,0003	NA	NA
1,131314463	0,15254	1,104198847	0,00409	NA	NA
1,190031696	0,11512	1,278985581	0,00056	NA	NA
1,299539062	0,06528	1,157490217	0,00565	NA	NA
0,767373048	0,05986	0,736113431	0,00117	NA	NA
0,734075318	0,31439	0,572758949	0	NA	NA
1,016070143	0,83325	0,915733686	0,04368	NA	NA
0,991716731	0,93997	0,91319825	0,01907	NA	NA
0,986232704	0,89578	1,223488041	0,00059	NA	NA
1,133669413	0,09655	1,363202607	0,00003	NA	NA
1,039579435	0,62766	1,172834949	0,00165	NA	NA
1,136029265	0,22127	1,266634254	0,00044	NA	NA
0,897510051	0,11762	0,897510051	0,01013	NA	NA
0,868742185	0,23621	0,84323111	0,04077	NA	NA
0,819604608	0,16664	0,824733549	0,02319	NA	NA
1,245737416	0,35616	0,833931044	0,01727	NA	NA
1,142346247	0,16741	1,111108729	0,03589	NA	NA
0,915733686	0,5486	0,819036698	0,00267	NA	NA
0,69640574	0,06109	0,785128119	0,00383	NA	NA
0,85027416	0,18097	0,844400887	0,01577	NA	NA
1,121166078	0,13437	1,128964405	0,00581	NA	NA

1,063632673	0,49883	1,215036792	0,00194	NA	NA
1,107264584	0,4797	1,225185332	0,01015	NA	NA
0,929804943	0,75702	0,704660378	0,00188	NA	NA
1,110338834	0,22642	1,163120042	0,01723	NA	NA
1,192508872	0,28884	0,915733686	0,04732	NA	NA
1,059952783	0,33424	0,907519155	0,04385	NA	NA
1,098092814	0,22097	1,118837101	0,00613	NA	NA
1,035264924	0,68562	0,932386486	0,03729	NA	NA
0,898755127	0,42633	0,813943185	0,00083	NA	NA
0,70270935	0,19777	0,731028724	0,02722	NA	NA
1,00765376	0,94104	1,07997656	0,04701	NA	NA
0,733566672	0,16685	0,756283999	0,00065	NA	NA
1,00556058	0,97756	1,325007017	0,01293	NA	NA
1,242288282	0,32321	1,238848698	0,0176	NA	NA
0,682073917	0,16138	0,722465199	0,01721	NA	NA
1,151089491	0,09549	1,156688184	0,0463	NA	NA
0,986916546	0,96286	0,804966138	0,0294	NA	NA
1,041021598	0,59033	1,132883885	0,04312	NA	NA
1,00486382	0,95361	1,131314463	0,01561	NA	NA
1,02313747	0,83849	1,234562607	0,00079	NA	NA
0,927230546	0,51742	0,857376037	0,04376	NA	NA
0,901875378	0,68111	0,730016005	0,00029	NA	NA
0,948026965	0,45132	0,868140228	0,01407	NA	NA
0,963261894	0,80291	0,701735863	0,00154	NA	NA
1,191682575	0,08921	1,092777739	0,03299	NA	NA
0,998614666	0,98345	1,17609125	0,00237	NA	NA
1,110338834	0,26646	1,137605228	0,01883	NA	NA
1,112650121	0,24818	1,127400412	0,0079	NA	NA
0,933032992	0,70416	0,84323111	0,02402	NA	NA
1,085981856	0,41511	1,195819797	0,0118	NA	NA
1,163926534	0,15552	1,163120042	0,00474	NA	NA
0,940174203	0,43943	1,144724161	0,04655	NA	NA
1,085229372	0,29073	1,140763716	0,01542	NA	NA
1,006257823	0,97633	0,812252396	0,02671	NA	NA
1,074749173	0,29471	0,885153765	0,0012	NA	NA
1,035264924	0,66171	1,136816973	0,00541	NA	NA
1,032398535	0,70493	0,932386486	0,03862	NA	NA
1,25092908	0,42358	1,337000495	0,00826	NA	NA
0,994470169	0,96195	0,885767519	0,00735	NA	NA
1,162314108	0,16761	1,156688184	0,01047	NA	NA
0,617281303	0,10553	0,755236293	0,00178	NA	NA
0,767905135	0,23128	0,843815796	0,02725	NA	NA
1,099616149	0,65086	0,868140228	0,03116	NA	NA
0,993781093	0,95195	1,133669413	0,00828	NA	NA
1,167158102	0,11519	1,129747215	0,01829	NA	NA
1,0132569	0,84908	1,096571589	0,01481	NA	NA
0,980779004	0,92883	0,770571108	0,00146	NA	NA
0,796640096	0,44471	0,719965659	0,01103	NA	NA
0,750019495	0,11237	0,742261785	0,00002	NA	NA
1,017479692	0,84557	0,858565436	0,01863	NA	NA
1,100378609	0,39726	1,185914499	0,00721	NA	NA
1,082224645	0,75797	0,855002178	0,02058	NA	NA
0,755759964	0,08952	0,646624466	0,00002	NA	NA
1,054822317	0,53444	1,127400412	0,00228	NA	NA
1,360370852	0,0611	1,399585866	0,00015	NA	NA
0,927230546	0,79544	0,820172911	0,04141	NA	NA
1,040300267	0,70224	0,872967591	0,0359	NA	NA
0,864537231	0,14816	0,751059963	0,00004	NA	NA
1,079228237	0,45373	1,243149669	0,01852	NA	NA
0,886996305	0,08004	0,893785162	0,00751	NA	NA
0,912565489	0,69398	0,880259014	0,03983	NA	NA
1,104964485	0,54141	0,847332435	0,00897	NA	NA
1,10343374	0,35894	0,833353207	0,01098	NA	NA
1,063632673	0,73759	0,740719899	0,00268	NA	NA
0,996540263	0,96898	1,133669413	0,02213	NA	NA
1,202469249	0,19911	1,244874235	0,01005	NA	NA
1,120389214	0,29845	1,210833084	0,01845	NA	NA
1,024556823	0,8798	0,845572287	0,00477	NA	NA
1,063632673	0,49167	1,22010051	0,00351	NA	NA
0,951318276	0,68399	1,168777249	0,02107	NA	NA
1,028826708	0,78328	1,144724161	0,01464	NA	NA
0,984184022	0,82378	1,150291893	0,00895	NA	NA
0,938871747	0,48121	0,809442217	0,00815	NA	NA
0,831045862	0,19591	0,743291492	0,00358	NA	NA
0,718470088	0,0744	0,621144141	0,00005	NA	NA
0,768437591	0,44241	0,724471077	0,00381	NA	NA
0,944092419	0,59508	0,799960128	0,00964	NA	NA
0,974679631	0,76598	0,910038824	0,00719	NA	NA
0,874784765	0,6232	0,715984371	0,01805	NA	NA
0,780786493	0,11643	0,790589117	0,04229	NA	NA
0,688725023	0,07698	0,728499557	0,0073	NA	NA
1,195819797	0,13024	1,136029265	0,02426	NA	NA
0,852044095	0,347	0,805524291	0,0121	NA	NA
0,839149637	0,18434	0,829894586	0,01358	NA	NA
1,258757174	0,10239	1,276328769	0,00339	NA	NA
1,134455485	0,16194	1,138394029	0,02295	NA	NA
1,118837101	0,33841	1,121943481	0,00732	NA	NA
1,018891197	0,81366	1,154285418	0,01692	NA	NA
1,050444544	0,62037	0,901875378	0,04249	NA	NA
1,199139914	0,07789	1,139973273	0,02494	NA	NA
1,146312186	0,16873	1,2397077	0,00022	NA	NA
0,990342872	0,89862	0,887611337	0,0337	NA	NA
1,060687741	0,44872	1,237132479	0,00524	NA	NA
1,033114388	0,75627	1,316766922	0,00086	NA	NA
1,020304659	0,77582	1,25962998	0	NA	NA
1,027401439	0,6794	1,123499903	0,00585	NA	NA
1,016070143	0,84668	0,915733686	0,01603	NA	NA
0,933679945	0,4128	1,209994089	0,00411	NA	NA
1,070288698	0,56025	1,151089491	0,00193	NA	NA
1,093535457	0,47048	1,230291345	0,00362	NA	NA
1,139183377	0,09817	1,094293701	0,04178	NA	NA
1,012554807	0,89793	1,160703914	0,01468	NA	NA
0,562139462	0,12301	0,440129507	0	NA	NA
0,972654947	0,67453	0,869947353	0,00691	NA	NA

0,789493887	0,10948	0,849096246	0,03192	NA	NA
0,8962667	0,43942	0,859756486	0,02785	NA	NA
1,232852325	0,05825	1,237132479	0,00033	NA	NA
0,781869643	0,33338	0,738669032	0,01101	NA	NA
1,218410264	0,08354	1,220946513	0,00089	NA	NA
0,853817714	0,23718	0,865136691	0,00911	NA	NA
0,785672517	0,37564	0,771640088	0,01562	NA	NA
0,883315051	0,44938	0,823020345	0,00884	NA	NA
0,618995145	0,10441	0,687294348	0,00337	NA	NA
1,136816973	0,21253	1,092020546	0,03648	NA	NA
1,147902414	0,35759	1,309485423	0,00272	NA	NA
1,015366101	0,84999	0,935623498	0,03517	NA	NA
1,131314463	0,57517	1,242288282	0,03432	NA	NA
0,746389192	0,14306	0,848507902	0,03951	NA	NA
0,927873476	0,30729	0,909408252	0,01706	NA	NA
0,892546971	0,47851	0,802737389	0,01724	NA	NA
0,922103118	0,5109	1,157490217	0,03848	NA	NA
1,010451446	0,882	0,915733686	0,04435	NA	NA
0,745355193	0,29505	0,61301743	0,00001	NA	NA
1,10343374	0,34214	1,121166078	0,01693	NA	NA
1,138394029	0,25278	1,209994089	0,00589	NA	NA
1,078480432	0,36057	0,937571096	0,04661	NA	NA
1,086734863	0,41708	1,120389214	0,01908	NA	NA
1,040300267	0,66991	1,143138335	0,01667	NA	NA
0,862143545	0,14749	1,127400412	0,03362	NA	NA
1,100378609	0,37613	1,193335743	0,00198	NA	NA
1,129747215	0,21245	1,231998073	0,00374	NA	NA
0,894404902	0,64806	0,797192477	0,03137	NA	NA
1,058484395	0,58415	1,198309021	0,00773	NA	NA
1,058484395	0,42686	0,901250463	0,04334	NA	NA
0,877821798	0,19642	0,859160755	0,00723	NA	NA
0,957935218	0,73408	1,097331938	0,04746	NA	NA
0,959929261	0,69234	1,096571589	0,02882	NA	NA
0,940826108	0,44536	0,875998315	0,01903	NA	NA
1,114966219	0,21594	1,131314463	0,01217	NA	NA
0,974004269	0,81292	1,159095952	0,00569	NA	NA
1,122721422	0,16102	1,222640278	0,00102	NA	NA
1,115739322	0,21186	1,134455485	0,04845	NA	NA
1,085229372	0,47768	1,176906737	0,01467	NA	NA
1,071773463	0,29036	1,190031696	0,00125	NA	NA
1,078480432	0,44949	1,147107024	0,00358	NA	NA
1,101905116	0,26956	1,152686347	0,01093	NA	NA
0,944747041	0,54405	0,863339559	0,01457	NA	NA
1,061423209	0,8582	0,716977624	0,00732	NA	NA
1,079228237	0,28564	0,915733686	0,02377	NA	NA
1,216722359	0,12449	1,203303026	0,00102	NA	NA
1,041021598	0,6893	1,150291893	0,02625	NA	NA
1,074749173	0,35288	1,179356592	0,00357	NA	NA
1,208317843	0,06075	1,185914499	0,0107	NA	NA
0,934975198	0,3714	1,106497353	0,04955	NA	NA
1,271031689	0,06254	1,281647924	0,01001	NA	NA
0,993092495	0,95393	1,132098902	0,0292	NA	NA
1,101905116	0,36613	1,169587664	0,04425	NA	NA
0,978063473	0,83939	1,146312186	0,03958	NA	NA
1,059218335	0,52588	1,093535457	0,03969	NA	NA
0,879649076	0,30904	0,820741609	0,0105	NA	NA
0,66158572	0,10991	0,66158572	0,00326	NA	NA
1,057018041	0,54348	1,189207115	0,00023	NA	NA
1,062895674	0,40346	1,121943481	0,04074	NA	NA
1,131314463	0,18819	1,200803427	0,001	NA	NA
1,118837101	0,24437	1,145517898	0,04281	NA	NA
1,132098902	0,16807	1,250062303	0,0002	NA	NA
0,942784536	0,53474	1,188383105	0,00316	NA	NA
1,025267238	0,77931	0,872362706	0,03947	NA	NA
0,743806881	0,10906	0,876605721	0,03175	NA	NA
1,095052471	0,25981	1,163926534	0,02838	NA	NA
0,679714121	0,131	0,819604608	0,03633	NA	NA
0,980779004	0,7903	0,918276162	0,03813	NA	NA
1,072516617	0,5226	1,112650121	0,02792	NA	NA
0,982139595	0,82027	1,174461971	0,01482	NA	NA
1,001387256	0,98666	1,274560627	0,00612	NA	NA
1,104198847	0,34198	1,111879158	0,02574	NA	NA
1,120389214	0,16182	1,191682575	0,00016	NA	NA
1,139973273	0,11826	1,097331938	0,02182	NA	NA
1,155085785	0,07128	1,29056249	0,00286	NA	NA
1,084477409	0,46402	1,147107024	0,01734	NA	NA
1,051172909	0,6249	1,080725402	0,02554	NA	NA
1,178539408	0,05751	1,183451022	0,03898	NA	NA
1,185092771	0,10451	1,117287138	0,04277	NA	NA
1,057018041	0,54381	1,133669413	0,01087	NA	NA
1,106497353	0,19974	1,115739322	0,02349	NA	NA
1,134455485	0,2633	1,168777249	0,01701	NA	NA
1,113421618	0,24337	1,244874235	0,00375	NA	NA
1,154285418	0,19608	1,179356592	0,00735	NA	NA
1,081474763	0,29356	1,146312186	0,01127	NA	NA
0,982820599	0,86311	1,147107024	0,02511	NA	NA
1,114966219	0,32026	1,120389214	0,017	NA	NA
1,026689546	0,71632	1,143930973	0,00675	NA	NA
1,092777739	0,32802	1,175276328	0,00101	NA	NA
1,167158102	0,12545	1,167967395	0,01816	NA	NA
1,058484395	0,4096	1,129747215	0,00971	NA	NA
1,043911927	0,51086	1,088242442	0,01736	NA	NA
1,113421618	0,20828	1,123499903	0,02735	NA	NA
1,020304659	0,76566	1,245737416	0,00027	NA	NA
1,035982764	0,73693	1,157490217	0,00589	NA	NA
1,123499903	0,36095	1,108800644	0,01071	NA	NA
1,133669413	0,34267	1,128964405	0,02819	NA	NA
1,242288282	0,09476	1,121166078	0,04436	NA	NA
0,922103118	0,44184	0,815072332	0,01011	NA	NA
0,937571096	0,33471	0,89564567	0,04246	NA	NA
1,122721422	0,22332	1,140763716	0,03161	NA	NA
0,866336856	0,29155	0,856781955	0,00959	NA	NA
0,809442217	0,06191	0,820741609	0,00132	NA	NA
1,167967395	0,14963	1,099616149	0,04656	NA	NA

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1,104964485	0,29239	1,147107024	0,02478	NA	NA
1,055553718	0,49598	1,102669163	0,04744	NA	NA
1,092777739	0,3491	1,135242102	0,0263	NA	NA
1,008352455	0,93024	1,159095952	0,01313	NA	NA
1,036701101	0,73631	1,186736798	0,00663	NA	NA
0,965936329	0,78206	1,092020546	0,04027	NA	NA
1,07549439	0,32951	1,100378609	0,04237	NA	NA
0,89688816	0,68813	0,727490342	0,00219	NA	NA
1,220946513	0,09462	1,143138335	0,00183	NA	NA
0,953959551	0,61339	1,107264584	0,02012	NA	NA
1,114193651	0,29353	1,142346247	0,02195	NA	NA
0,97874165	0,83033	1,165541198	0,04515	NA	NA
1,21335356	0,06957	1,266634254	0,00029	NA	NA
1,004167543	0,96521	1,118837101	0,02248	NA	NA
1,054822317	0,64465	1,097331938	0,02272	NA	NA
1,016070143	0,87678	1,119612889	0,04525	NA	NA
0,930449658	0,43111	0,894404902	0,02071	NA	NA
1,136029265	0,2334	1,142346247	0,04141	NA	NA
0,960594864	0,58631	0,905006463	0,03993	NA	NA
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0,928516852	0,42144	1,145517898	0,03883	NA	NA
0,848507902	0,11583	0,901875378	0,02692	NA	NA
0,727994774	0,07416	0,782954296	0,00608	NA	NA
1,043911927	0,72106	1,128182137	0,03119	NA	NA
0,990342872	0,88475	0,901875378	0,04144	NA	NA
0,982139595	0,89277	0,829319546	0,00189	NA	NA
0,920187651	0,60052	0,765778999	0,02069	NA	NA
1,193335743	0,0659	1,121166078	0,0131	NA	NA
0,762600827	0,23137	0,777007269	0,00786	NA	NA
0,992404375	0,91087	1,121943481	0,04269	NA	NA
0,758383773	0,20921	0,635075491	0,00003	NA	NA
1,121943481	0,35921	1,231144413	0,00189	NA	NA
1,317679952	0,11656	1,188383105	0,02251	NA	NA
1,193335743	0,24662	1,198309021	0,01579	NA	NA
0,908778116	0,63572	0,789493887	0,01776	NA	NA
1,00556058	0,95889	1,180174343	0,01771	NA	NA
0,73153561	0,06377	0,792784137	0,00267	NA	NA
1,118837101	0,28298	1,118061851	0,03414	NA	NA
0,963261894	0,58124	0,936921447	0,04298	NA	NA
0,828170661	0,46611	0,750019495	0,00803	NA	NA
0,985549337	0,81079	0,880869374	0,00813	NA	NA
0,796088099	0,08499	0,828744904	0,01758	NA	NA
1,104964485	0,22127	1,159095952	0,01889	NA	NA
1,117287138	0,27155	1,116512962	0,02882	NA	NA
0,984184022	0,80483	0,872362706	0,00607	NA	NA
1,104198847	0,15059	1,104964485	0,0305	NA	NA
0,890692901	0,55175	0,800514811	0,01379	NA	NA
1,019597683	0,76622	1,093535457	0,04071	NA	NA
0,982139595	0,8275	1,115739322	0,03913	NA	NA
1,221793102	0,07744	1,165541198	0,01935	NA	NA
1,131314463	0,22687	1,151887642	0,02012	NA	NA
1,088242442	0,46829	1,223488041	0,00529	NA	NA
1,136816973	0,23814	1,169587664	0,00411	NA	NA
0,984184022	0,86525	1,224336392	0,03908	NA	NA
0,982139595	0,85471	1,116512962	0,04703	NA	NA
1,180174343	0,06044	1,195819797	0,01133	NA	NA
1,021012126	0,89038	1,218410264	0,01813	NA	NA
1,022428531	0,81709	1,17772279	0,0206	NA	NA
1,011152081	0,8822	1,101141598	0,01846	NA	NA
1,065846736	0,4758	1,20163605	0,00589	NA	NA
0,946713631	0,38651	1,121943481	0,00842	NA	NA
1,072516617	0,28945	1,078480432	0,04932	NA	NA
0,991716731	0,94047	1,159095952	0,00454	NA	NA
1,076240125	0,44753	1,159899655	0,00719	NA	NA
1,185914499	0,15148	1,147107024	0,01286	NA	NA
1,199971382	0,12454	1,278099363	0,00081	NA	NA
0,914465089	0,65999	0,708087719	0,0007	NA	NA
1,127400412	0,12197	1,173648178	0,00095	NA	NA
1,147107024	0,26142	1,141554707	0,0311	NA	NA
1,044635763	0,60523	1,121943481	0,02545	NA	NA
1,109569472	0,24106	1,150291893	0,00872	NA	NA
1,066585781	0,48446	1,140763716	0,02335	NA	NA
1,057750964	0,54521	1,134455485	0,04834	NA	NA
0,996540263	0,96728	1,114193651	0,04118	NA	NA
1,071773463	0,37149	1,105730653	0,01785	NA	NA
1,019597683	0,87091	1,173648178	0,02551	NA	NA
1,149494848	0,24703	1,109569472	0,03164	NA	NA
1,111108729	0,30683	1,151887642	0,00453	NA	NA
1,064370182	0,4232	1,193335743	0,00392	NA	NA
1,043911927	0,54683	1,132098902	0,04086	NA	NA
1,091263877	0,60687	1,210833084	0,00086	NA	NA
1,032398535	0,66462	1,111108729	0,01653	NA	NA
1,066585781	0,5002	1,167967395	0,00601	NA	NA
0,835666959	0,20306	0,798298386	0,00446	NA	NA
0,934327347	0,80515	0,610050255	0,00124	NA	NA
1,158292806	0,05277	1,122721422	0,02853	NA	NA
1,125838586	0,2257	1,150291893	0,01062	NA	NA
1,098092814	0,3849	1,122721422	0,02862	NA	NA
1,025267238	0,77753	1,153485605	0,02993	NA	NA
0,982820599	0,88266	1,204972315	0,00381	NA	NA
1,161508732	0,06297	1,102669163	0,02481	NA	NA
1,011152081	0,88748	1,110338834	0,03917	NA	NA
0,981459064	0,78568	1,092020546	0,0435	NA	NA
0,901875378	0,25448	0,86934456	0,03049	NA	NA
0,84323111	0,05114	0,866336856	0,04849	NA	NA
1,126619228	0,41484	1,22603486	0,04108	NA	NA
1,065108203	0,44798	1,125058485	0,02737	NA	NA
0,89564567	0,20998	0,755236293	0,00001	NA	NA
1,136816973	0,28174	1,197478705	0,00214	NA	NA
1,125058485	0,1646	1,129747215	0,03965	NA	NA
1,020304659	0,78797	0,90062598	0,02967	NA	NA
1,106497353	0,31046	1,145517898	0,01878	NA	NA
1,098092814	0,31918	1,184271612	0,0025	NA	NA

1,163120042	0,05671	1,121166078	0,03413	NA	NA
0,995159722	0,95976	1,170398641	0,02372	NA	NA
1,022428531	0,73237	0,933032992	0,03651	NA	NA
1,260503392	0,09982	1,168777249	0,01377	NA	NA
1,143930973	0,29077	1,158292806	0,02974	NA	NA
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0,968618189	0,65858	0,925304428	0,04416	NA	NA
1,069547088	0,51774	1,104964485	0,03376	NA	NA
0,930449658	0,4935	1,162314108	0,01987	NA	NA
0,975355462	0,74624	1,151089491	0,00597	NA	NA
1,07549439	0,40735	1,086734863	0,02728	NA	NA
1,307671349	0,06131	1,319507911	0,00034	NA	NA
1,116512962	0,30153	1,194163187	0,01063	NA	NA
0,954621014	0,80689	0,772175133	0,01151	NA	NA
1,10343374	0,36765	1,225185332	0,0003	NA	NA
0,609205132	0,11513	0,541487523	0,00001	NA	NA
1,179356592	0,07325	1,241427492	0,00089	NA	NA
1,088242442	0,39281	1,171210181	0,00697	NA	NA
0,969289817	0,63193	0,886381699	0,01554	NA	NA
1,085981856	0,3291	1,155886707	0,03297	NA	NA
1,058484395	0,45322	1,139973273	0,00157	NA	NA
1,176906737	0,06275	1,109569472	0,01895	NA	NA
1,071030823	0,47404	1,156688184	0,00892	NA	NA
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1,058484395	0,47952	1,091263877	0,04584	NA	NA
0,927230546	0,2471	0,897510051	0,01275	NA	NA
1,022428531	0,75557	1,148698355	0,01634	NA	NA
1,026689546	0,75425	1,132098902	0,00101	NA	NA
1,118061851	0,1434	1,091263877	0,03087	NA	NA
1,189207115	0,05523	1,147107024	0,00447	NA	NA
1,072516617	0,77649	0,758383773	0,03257	NA	NA
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1,129747215	0,33432	0,842062954	0,00626	NA	NA
1,112650121	0,15108	1,101905116	0,04099	NA	NA
1,183451022	0,07095	1,155085785	0,00684	NA	NA
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1,058484395	0,54126	1,16634937	0,01905	NA	NA
0,934327347	0,40672	0,87175824	0,02143	NA	NA
0,969289817	0,70535	1,151089491	0,00183	NA	NA
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1,265756594	0,22138	1,255271991	0,00397	NA	NA
1,125838586	0,23783	1,32592576	0,00009	NA	NA
1,043188594	0,68423	1,159899655	0,03067	NA	NA
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0,908148418	0,46396	0,824733549	0,0048	NA	NA
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0,887611337	0,42392	0,897510051	0,02622	NA	NA
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1,091263877	0,36748	1,136816973	0,00628	NA	NA
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0,959264119	0,74585	0,876605721	0,0318	NA	NA
1,200803427	0,25653	0,906890329	0,017	NA	NA
1,161508732	0,20961	1,172834949	0,01155	NA	NA
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1,122721422	0,28569	1,181811547	0,01174	NA	NA
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1,142346247	0,28582	1,157490217	0,03587	NA	NA
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1,241427492	0,05997	1,214194884	0,00721	NA	NA
1,054822317	0,62616	1,132098902	0,00243	NA	NA
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0,910669834	0,21344	1,119612889	0,0251	NA	NA
1,053361036	0,80401	0,796640096	0,00287	NA	NA
1,028826708	0,74765	1,132098902	0,03634	NA	NA
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1,081474763	0,45027	1,20664392	0,0008	NA	NA
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1,057018041	0,54858	1,185914499	0,01319	NA	NA
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1,078480432	0,36584	1,151887642	0,00967	NA	NA
0,929804943	0,32059	0,879649076	0,04889	NA	NA
1,017479692	0,85897	1,121943481	0,0236	NA	NA
0,907519155	0,20744	1,124278924	0,04208	NA	NA
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1,020304659	0,8448	1,2397077	0,0009	NA	NA
1,160703914	0,10751	1,173648178	0,00191	NA	NA
1,057750964	0,54682	1,131314463	0,01538	NA	NA
1,110338834	0,19842	1,136029265	0,02336	NA	NA
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1,072516617	0,51186	1,126619228	0,04257	NA	NA
1,065108203	0,39368	1,134455485	0,03475	NA	NA
1,016774673	0,88313	1,158292806	0,03955	NA	NA
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1,057750964	0,47432	1,101905116	0,0202	NA	NA
1,0238469	0,79867	1,089752112	0,04143	NA	NA
1,057018041	0,54845	1,225185332	0,00017	NA	NA
1,161508732	0,24324	1,218410264	0,00058	NA	NA
1,057750964	0,41377	1,139183377	0,04379	NA	NA
1,101905116	0,14171	1,121943481	0,01303	NA	NA
0,937571096	0,43271	1,097331938	0,03397	NA	NA
0,776468875	0,094	0,765248385	0,02991	NA	NA
1,179356592	0,08345	1,202469249	0,00174	NA	NA
1,087488391	0,39163	1,195819797	0,01276	NA	NA

1,067325338	0,54208	1,098092814	0,0245	NA	NA
1,240567298	0,05091	1,116512962	0,03661	NA	NA
1,121943481	0,40022	1,215036792	0,00151	NA	NA
0,962594443	0,66836	0,906890329	0,02487	NA	NA
1,00486382	0,94814	1,275444392	0,00041	NA	NA
0,805524291	0,3462	0,762072415	0,03148	NA	NA
0,926588062	0,56124	0,775930854	0,00003	NA	NA
1,048989328	0,65744	1,168777249	0,02698	NA	NA
1,056285625	0,65671	1,188383105	0,00539	NA	NA
1,168777249	0,08277	1,20163605	0,00188	NA	NA
1,132098902	0,22613	1,139973273	0,00389	NA	NA
1,204137381	0,11745	1,117287138	0,03867	NA	NA
0,883927531	0,26407	0,816768991	0,00123	NA	NA
1,247465572	0,29168	1,230291345	0,02208	NA	NA
1,089752112	0,32291	1,185092771	0,00393	NA	NA
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0,865736566	0,14982	0,920187651	0,04135	NA	NA
1,220946513	0,07769	1,30224419	0,00612	NA	NA
0,947370071	0,47227	0,893165852	0,0184	NA	NA
0,984184022	0,82435	1,070288698	0,04301	NA	NA
0,940826108	0,58171	1,265756594	0,00227	NA	NA
0,938221197	0,42002	1,188383105	0,01045	NA	NA
0,974004269	0,79288	1,151887642	0,01531	NA	NA
0,991029563	0,93819	0,710053679	0,00003	NA	NA
1,046810282	0,58267	0,825877665	0,00016	NA	NA
1,057018041	0,4454	1,092020546	0,02787	NA	NA
1,016070143	0,89163	1,154285418	0,00659	NA	NA
1,127400412	0,10908	1,133669413	0,02823	NA	NA
0,923382311	0,26084	0,89688816	0,01509	NA	NA
0,897510051	0,1128	0,911301281	0,02309	NA	NA
1,098854218	0,19905	1,178539408	0,00153	NA	NA
1,063632673	0,45493	1,136816973	0,02645	NA	NA
1,148698355	0,0791	1,111879158	0,02001	NA	NA
0,985549337	0,85525	1,116512962	0,04667	NA	NA
0,760489377	0,09105	0,758909626	0,01306	NA	NA
1,149494848	0,23052	1,187559666	0,00256	NA	NA
0,815072332	0,14224	1,133669413	0,03583	NA	NA
0,823020345	0,2892	0,797192477	0,00184	NA	NA
0,730522189	0,32543	0,57236208	0,00007	NA	NA
1,161508732	0,09555	1,155085785	0,00269	NA	NA
1	0,99869	1,136029265	0,00971	NA	NA
1,002081605	0,98076	0,905006463	0,0235	NA	NA
1,124278924	0,20216	1,225185332	0,00262	NA	NA
1,161508732	0,26598	1,112650121	0,04849	NA	NA
0,956608158	0,65891	1,183451022	0,00568	NA	NA
1,057018041	0,68204	1,122721422	0,02788	NA	NA
1,139183377	0,20668	1,198309021	0,00613	NA	NA
1,178539408	0,14903	1,131314463	0,0171	NA	NA
1,252664439	0,05603	1,346300069	0,00029	NA	NA
0,857376037	0,16804	0,876605721	0,01665	NA	NA
0,976708529	0,84685	1,216722359	0,00089	NA	NA
0,988285652	0,90706	0,872967591	0,04444	NA	NA
1,098854218	0,28021	1,184271612	0,0125	NA	NA
0,991716731	0,95478	0,844986384	0,01484	NA	NA
1,060687741	0,56462	1,200803427	0,00207	NA	NA
1,168777249	0,11734	1,140763716	0,02593	NA	NA
1,030253954	0,7785	0,870550563	0,00638	NA	NA
0,907519155	0,51641	0,680657058	0,00016	NA	NA
0,89688816	0,33831	0,830470024	0,00297	NA	NA
1,043911927	0,53465	1,186736798	0,02048	NA	NA
1,194991205	0,15944	1,240567298	0,00034	NA	NA
1,078480432	0,40955	1,074749173	0,04592	NA	NA
1,170398641	0,16342	1,145517898	0,01807	NA	NA
1,150291893	0,12891	1,227735684	0,01024	NA	NA
1,041021598	0,61373	1,111108729	0,00427	NA	NA
1,002081605	0,97543	1,084477409	0,02014	NA	NA
1,079228237	0,39048	1,092020546	0,03944	NA	NA
1,108032348	0,31269	1,185092771	0,00119	NA	NA
0,883315051	0,23898	0,879039561	0,02999	NA	NA
1,104964485	0,36185	1,106497353	0,00748	NA	NA
0,979420298	0,84731	0,837987135	0,01785	NA	NA
1,165541198	0,12126	1,163926534	0,01854	NA	NA
1,169587664	0,0575	1,163120042	0,00094	NA	NA
0,787853886	0,28031	0,730522189	0,00348	NA	NA
1,204972315	0,11205	1,132883885	0,04844	NA	NA
1,000693387	0,99289	0,928516852	0,04242	NA	NA
1,111108729	0,1352	1,127400412	0,0477	NA	NA
1,105730653	0,36381	1,207480591	0,00406	NA	NA
1,066585781	0,48907	1,151089491	0,01137	NA	NA
1,133669413	0,26028	1,226884977	0,00166	NA	NA
1,071030823	0,44967	1,279872414	0,00057	NA	NA
0,953959551	0,52376	0,90062598	0,01631	NA	NA
1,219255094	0,15001	1,216722359	0,04247	NA	NA
1,035264924	0,58724	1,099616149	0,01741	NA	NA
1,098854218	0,31873	1,231998073	0,00176	NA	NA
1,051172909	0,53776	1,110338834	0,02721	NA	NA
1,136029265	0,1496	1,135242102	0,00723	NA	NA
1,123499903	0,41797	1,139973273	0,02816	NA	NA
1,043911927	0,48175	1,22010051	0,00147	NA	NA
1,069547088	0,60768	1,187559666	0,01179	NA	NA
0,791685866	0,07123	0,853226098	0,0181	NA	NA
0,988970916	0,8809	1,198309021	0,01181	NA	NA
1,237990291	0,05877	1,2397077	0,00048	NA	NA
1,008352455	0,929	1,114193651	0,01572	NA	NA
0,974679631	0,79553	1,115739322	0,03972	NA	NA
1,070288698	0,69327	1,158292806	0,04027	NA	NA
1,082224645	0,38167	1,125058485	0,04202	NA	NA
1,136816973	0,19477	1,110338834	0,02051	NA	NA
0,936272247	0,49069	1,171210181	0,00425	NA	NA
1,030253954	0,62774	1,084477409	0,02267	NA	NA
1,117287138	0,10503	1,102669163	0,01581	NA	NA
0,891928519	0,28187	0,844400887	0,01233	NA	NA
1,147902414	0,14543	1,113421618	0,02142	NA	NA
1,016070143	0,86849	1,121943481	0,04517	NA	NA

0,971307496	0,69745	0,877213549	0,01721	NA	NA
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0,858565436	0,3114	0,885767519	0,02461	NA	NA
1,183451022	0,10389	1,175276328	0,02173	NA	NA
1,189207115	0,06435	1,215879283	0,00004	NA	NA
1,124278924	0,13761	1,111879158	0,04394	NA	NA
0,843815796	0,07631	0,751059963	0,0001	NA	NA
1,010451446	0,88609	1,108032348	0,04432	NA	NA
1,021012126	0,80024	0,85086373	0,00692	NA	NA
0,921464186	0,39724	0,898755127	0,01455	NA	NA
0,943438251	0,83079	1,230291345	0,00256	NA	NA
0,929804943	0,68681	0,817335328	0,00284	NA	NA
1,314031627	0,24598	1,345367209	0,00133	NA	NA
0,959929261	0,67994	1,108800644	0,03727	NA	NA
1,388955136	0,09106	1,370782805	0,00001	NA	NA
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1,217566019	0,30966	1,599920257	0,00474	NA	NA
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1,390881972	0,10715	1,393777239	0,00268	NA	NA
1,009051634	0,91338	1,151089491	0,02845	NA	NA
0,744322628	0,1017	0,718968266	0,00036	NA	NA
1,459020344	0,53178	2,391639594	0,00814	NA	NA
1,665551542	0,06814	1,808758755	0,00174	NA	NA
1,088997015	0,75485	1,420107359	0,00026	NA	NA
1,617762697	0,05551	1,69466487	0,00424	NA	NA
1,412254404	0,05648	1,449946833	0,001	NA	NA
1,143930973	0,28815	1,169587664	0,01952	NA	NA
1,215036792	0,14657	1,155886707	0,01618	NA	NA
1,279872414	0,32375	1,583371732	0,00289	NA	NA
1,275444392	0,08635	1,198309021	0,01742	NA	NA
0,922103118	0,6777	1,132098902	0,04584	NA	NA
0,812252396	0,37979	0,740719899	0,01795	NA	NA
0,941478465	0,33871	0,905006463	0,03301	NA	NA
1,168777249	0,53623	1,209994089	0,02063	NA	NA
0,968618189	0,82198	1,178539408	0,04794	NA	NA
0,804408371	0,37655	0,635956503	0,00004	NA	NA
1,131314463	0,15673	1,23370717	0,00313	NA	NA
0,886381699	0,53192	0,677362489	0,00203	NA	NA
1,119612889	0,2763	1,172022284	0,00996	NA	NA
0,752101876	0,06543	0,763658749	0,04565	NA	NA
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0,990342872	0,9164	1,137605228	0,02069	NA	NA
1,096571589	0,3768	1,172834949	0,02992	NA	NA
0,925946023	0,66922	1,159899655	0,00635	NA	NA
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1,033830736	0,71549	1,114193651	0,0222	NA	NA
1,025267238	0,87715	1,260503392	0,00317	NA	NA
1,142346247	0,24432	1,167967395	0,00179	NA	NA
0,828744904	0,15215	0,884540435	0,03763	NA	NA
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1,137605228	0,24371	1,229438867	0,00041	NA	NA
1,017479692	0,85516	1,238848698	0,00402	NA	NA
1,036701101	0,69729	1,153485605	0,01347	NA	NA
1,02313747	0,74773	1,124278924	0,04299	NA	NA
1,076240125	0,37777	1,235418637	0,02727	NA	NA
0,885767519	0,67384	1,370782805	0,00047	NA	NA
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1,172834949	0,05188	1,191682575	0,00969	NA	NA
1,195819797	0,12808	1,167158102	0,02126	NA	NA
1,205807828	0,05332	1,119612889	0,02649	NA	NA
1,004167543	0,975	1,312211255	0,01506	NA	NA
0,742261785	0,41145	0,831622098	0,0029	NA	NA
0,815637493	0,19832	0,837987135	0,00804	NA	NA
1,149494848	0,53099	1,295940965	0,00311	NA	NA
1,306765254	0,30629	2,089271526	0,00089	NA	NA
0,907519155	0,78097	1,43296165	0,00032	NA	NA
1,446934886	0,56387	2,524504064	0,00818	NA	NA
0,709561678	0,18615	0,712025098	0,0112	NA	NA
0,994470169	0,97851	1,301341855	0,00588	NA	NA
1,4063932	0,05998	1,423063461	0,00828	NA	NA
0,927873476	0,61479	0,835666959	0,02154	NA	NA
0,981459064	0,93129	1,309485423	0,00326	NA	NA
0,960594864	0,65638	0,85086373	0,00549	NA	NA
0,682546859	0,06515	0,816768991	0,00268	NA	NA
1,128964405	0,09158	1,172022284	0,0137	NA	NA
1,21335356	0,18498	1,125838586	0,02179	NA	NA
1,087488391	0,49713	1,227735684	0,01762	NA	NA
1,092020546	0,444	1,081474763	0,02886	NA	NA
1,048262476	0,72132	0,854409741	0,01381	NA	NA
1,025267238	0,72704	0,852634892	0,02963	NA	NA
1,059218335	0,50821	1,241427492	0,00237	NA	NA
0,967947027	0,86072	1,245737416	0,01656	NA	NA
1,146312186	0,6698	0,808881348	0,04626	NA	NA
1,382232207	0,07234	1,308578071	0,00334	NA	NA
1,140763716	0,11622	1,111108729	0,01607	NA	NA
1,360370852	0,15702	1,366987452	0,01882	NA	NA
1,146312186	0,44495	1,274560627	0,03256	NA	NA
1,120389214	0,09789	1,154285418	0,00536	NA	NA
1,02313747	0,94611	1,785093943	0,00134	NA	NA
1,062895674	0,49657	1,097331938	0,03684	NA	NA
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1,344434994	0,67844	2,633533844	0,00567	NA	NA
1,483494934	0,51888	2,406606052	0,00888	NA	NA
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0,755759964	0,05476	0,815072332	0,01418	NA	NA
0,780786493	0,13761	0,690637224	0,00009	NA	NA
1,207480591	0,38819	1,317679952	0,02049	NA	NA
1,052631155	0,80887	0,865136691	0,00735	NA	NA
0,8962667	0,27253	0,816768991	0,01297	NA	NA
0,61813763	0,22552	0,845572287	0,01599	NA	NA
0,8962667	0,77204	1,569168196	0,00947	NA	NA
1,150291893	0,23645	1,261377409	0,00735	NA	NA
1,104198847	0,39991	0,885153765	0,03804	NA	NA
0,812252396	0,54917	0,758909626	0,00495	NA	NA

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1,17609125	0,13598	1,159899655	0,04979	NA	NA
1,073260286	0,69593	1,366987452	0,00077	NA	NA
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1,025978145	0,83494	1,182631	0,02872	NA	NA
1,057018041	0,64564	1,303147149	0,0007	NA	NA
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1,01395948	0,86294	0,895025071	0,0093	NA	NA
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0,892546971	0,51523	0,853817714	0,00469	NA	NA
0,704172113	0,10638	0,768970416	0,00551	NA	NA
0,763129604	0,22599	0,87539133	0,04499	NA	NA
0,890075733	0,16401	1,111108729	0,0418	NA	NA
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1,110338834	0,32073	0,919550046	0,03539	NA	NA
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1,038139271	0,72044	1,180174343	0,03213	NA	NA
1,433955248	0,09721	1,991699506	0,00103	NA	NA
0,798298386	0,28219	0,843815796	0,03765	NA	NA
0,558643569	0,16352	0,805524291	0,02288	NA	NA
0,787307977	0,29561	1,235418637	0,00152	NA	NA
0,538120062	0,05375	0,457549584	0	NA	NA
1,28788163	0,06741	1,237990291	0,00418	NA	NA
1,421092043	0,20778	2,168954818	0,00012	NA	NA
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0,616853585	0,0887	0,710546022	0,00141	NA	NA
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1,599920257	0,05257	1,356604327	0,01013	NA	NA
0,74277646	0,10432	0,791685866	0,00096	NA	NA
1,125838586	0,16411	1,114966219	0,04175	NA	NA
1,250062303	0,06761	1,25962998	0,00133	NA	NA
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0,812815602	0,40466	0,716977624	0,0008	NA	NA
1,781385801	0,23714	3,140512475	0,00069	NA	NA
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1,114966219	0,42659	1,342572503	0,0316	NA	NA
0,765248385	0,57091	1,424050196	0,00043	NA	NA
0,87417862	0,60613	0,79940583	0,04103	NA	NA
0,76101669	0,15834	0,838568184	0,01673	NA	NA
0,664803554	0,13165	0,899378312	0,03897	NA	NA
1,089752112	0,27962	1,21167266	0,00088	NA	NA
1,102669163	0,34534	1,222640278	0,00284	NA	NA
1,081474763	0,53193	1,22603486	0,00583	NA	NA
0,950659101	0,7788	0,742261785	0,00313	NA	NA
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1,088997015	0,35019	0,879649076	0,01367	NA	NA
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1,069547088	0,41504	1,224336392	0,00096	NA	NA
1,356604327	0,10454	1,903955817	0,00068	NA	NA
0,897510051	0,48773	0,872967591	0,02238	NA	NA
0,904379378	0,36593	1,10343374	0,04692	NA	NA
0,713507253	0,13312	0,555554364	0,00012	NA	NA
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0,955945318	0,62816	1,102669163	0,01996	NA	NA
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0,889458994	0,20418	0,84323111	0,02182	NA	NA
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1,00556058	0,96563	1,101141598	0,03826	NA	NA
0,899378312	0,20952	0,894404902	0,03746	NA	NA
1,171210181	0,08988	1,226884977	0,00386	NA	NA
1,048262476	0,60398	1,122721422	0,00839	NA	NA
1,002081605	0,98013	1,152686347	0,01149	NA	NA
0,815072332	0,21335	0,72597914	0,00079	NA	NA
1,072516617	0,51622	1,140763716	0,0258	NA	NA
0,991029563	0,94498	1,29145735	0,00053	NA	NA
0,965267025	0,79757	1,192508872	0,00516	NA	NA
0,891310496	0,5829	0,697371833	0,00249	NA	NA
0,974004269	0,84605	0,77271055	0,0001	NA	NA
1,186736798	0,07261	1,22858698	0,0078	NA	NA
1,164733586	0,10205	1,172834949	0,01349	NA	NA
1,139183377	0,32441	1,105730653	0,04004	NA	NA
0,874784765	0,26556	0,76101669	0,00023	NA	NA
1,251796459	0,05035	1,245737416	0,00753	NA	NA
0,869947353	0,20255	0,845572287	0,03185	NA	NA
1,043911927	0,6691	1,110338834	0,04629	NA	NA
0,986232704	0,85787	1,128182137	0,04596	NA	NA
1,041743429	0,681	1,153485605	0,02311	NA	NA
1,120389214	0,1236	1,156688184	0,0135	NA	NA
1,165541198	0,23046	1,149494848	0,01252	NA	NA
1,178539408	0,10948	1,145517898	0,01387	NA	NA
0,944092419	0,51883	0,852634892	0,03777	NA	NA
1,139973273	0,1227	1,194991205	0,01071	NA	NA
1,176906737	0,06334	1,088242442	0,04379	NA	NA
0,918912883	0,41758	0,886996305	0,03852	NA	NA
1,257884972	0,07213	1,151887642	0,03878	NA	NA
1,093535457	0,31724	1,10343374	0,0184	NA	NA
0,881480158	0,43652	0,87417862	0,0152	NA	NA
1,058484395	0,58327	1,141554707	0,00909	NA	NA
1,060687741	0,79859	0,839149637	0,02026	NA	NA
1,170398641	0,17449	0,883315051	0,00963	NA	NA
1,188383105	0,19739	1,250062303	0,00539	NA	NA
0,73153561	0,10936	0,733566672	0,01374	NA	NA
0,922742493	0,73911	0,595015848	0,00002	NA	NA
0,906261938	0,31002	0,8362464	0,01427	NA	NA

1,027401439	0,88532	1,162314108	0,02451	NA	NA
1,095811766	0,41581	1,111108729	0,03905	NA	NA
1,25353302	0,11992	1,199139914	0,02549	NA	NA
1,048262476	0,55011	1,140763716	0,04864	NA	NA
1,025978145	0,72074	1,181811547	0,01773	NA	NA
0,820172911	0,42372	0,695440986	0,00062	NA	NA
0,867538687	0,14864	0,868742185	0,04001	NA	NA
1,097331938	0,19073	1,146312186	0,02847	NA	NA
1,0238469	0,75568	1,114966219	0,03089	NA	NA
0,852044095	0,3469	0,782954296	0,01626	NA	NA
0,602486157	0,13226	0,81056512	0,02865	NA	NA
0,946057647	0,48166	1,125838586	0,02022	NA	NA
0,922103118	0,26174	0,931740429	0,03491	NA	NA
1,051172909	0,70394	1,379360922	0,02159	NA	NA
1,002776436	0,97942	1,193335743	0,02344	NA	NA
1,059952783	0,36414	1,217566019	0,01754	NA	NA
0,704660378	0,22811	0,84264683	0,02476	NA	NA
0,848507902	0,05859	0,891310496	0,0303	NA	NA
1,143138335	0,17785	1,191682575	0,01913	NA	NA
1,151089491	0,29913	1,167158102	0,00846	NA	NA
2,360348687	0,05819	4,00832642	0,00009	NA	NA
1,028826708	0,77386	1,125058485	0,03047	NA	NA
0,831045862	0,07041	0,884540435	0,02118	NA	NA
0,954621014	0,44263	0,899378312	0,0453	NA	NA
1,0181852	0,77959	0,934327347	0,04747	NA	NA
1,058484395	0,48857	1,180992661	0,00991	NA	NA
0,998614666	0,99461	1,43893358	0,01195	NA	NA
1,0238469	0,77282	1,132883885	0,03018	NA	NA
1,012554807	0,89573	1,194163187	0,02366	NA	NA
1,10343374	0,24158	1,106497353	0,03652	NA	NA
0,936921447	0,33441	1,117287138	0,04073	NA	NA
1,024556823	0,79335	1,127400412	0,03723	NA	NA
1,00765376	0,962	0,872362706	0,02241	NA	NA
1,25962998	0,10327	1,173648178	0,04278	NA	NA
0,787853886	0,10234	0,828170661	0,01845	NA	NA
1,164733586	0,22562	1,120389214	0,04635	NA	NA
0,991716731	0,939	1,158292806	0,0204	NA	NA
0,968618189	0,84167	1,317679952	0,00047	NA	NA
0,955945318	0,49326	1,241427492	0,00049	NA	NA
1,098092814	0,30492	1,185914499	0,00303	NA	NA
1,246601194	0,07086	1,261377409	0,00474	NA	NA
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1,106497353	0,31733	1,116512962	0,04822	NA	NA
1,114966219	0,18128	1,076240125	0,0475	NA	NA
0,827023368	0,33675	0,704172113	0,00843	NA	NA
1,159899655	0,05707	1,160703914	0,01682	NA	NA
1,167158102	0,11072	1,244874235	0,00576	NA	NA
1,10343374	0,27344	1,153485605	0,00924	NA	NA
1,219255094	0,10741	1,327765158	0,00017	NA	NA
1,094293701	0,36655	1,095811766	0,02105	NA	NA
0,813943185	0,15089	0,821310701	0,00215	NA	NA
1,063632673	0,49381	1,178539408	0,03518	NA	NA
1,131314463	0,21563	1,106497353	0,04954	NA	NA
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1,009051634	0,92338	1,102669163	0,02469	NA	NA
0,856188285	0,29674	0,867538687	0,02529	NA	NA
1,25962998	0,05971	1,359428242	0,0011	NA	NA
1,104198847	0,41155	1,333298677	0,03359	NA	NA
1,097331938	0,34602	1,099616149	0,03074	NA	NA
1,0238469	0,84577	1,180992661	0,0047	NA	NA
1,113421618	0,25043	1,159095952	0,00687	NA	NA
1,210833084	0,14432	0,898132373	0,02715	NA	NA
1,304050735	0,57926	2,624422509	0,00023	NA	NA
1,0132569	0,94825	1,339783602	0,02998	NA	NA
1,254402205	0,08365	1,223488041	0,00145	NA	NA
1,139183377	0,17493	1,147902414	0,00534	NA	NA
1,311302014	0,07015	1,203303026	0,0173	NA	NA
1,097331938	0,34929	1,165541198	0,00353	NA	NA
1,17772279	0,21523	1,200803427	0,00444	NA	NA
0,987600861	0,90385	1,100378609	0,02563	NA	NA
1,423063461	0,07737	1,396678532	0,00873	NA	NA
1,215879283	0,05823	1,264879542	0,00056	NA	NA
1,118061851	0,32159	1,21167266	0,01129	NA	NA
1,027401439	0,76467	1,092777739	0,04846	NA	NA
0,872362706	0,29134	0,823591017	0,00223	NA	NA
1,0132569	0,92287	0,86154616	0,00464	NA	NA
1,208317843	0,11735	1,17609125	0,04319	NA	NA
0,790041312	0,15171	0,793883931	0,00014	NA	NA
2,507066041	0,05276	3,845043714	0,00014	NA	NA
1,094293701	0,38289	1,190031696	0,00492	NA	NA
0,998614666	0,9783	0,912565489	0,03534	NA	NA
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1,390881972	0,59075	2,339175328	0,0105	NA	NA
0,953959551	0,65227	1,173648178	0,00579	NA	NA
1,106497353	0,21736	1,098092814	0,03551	NA	NA
1,059952783	0,82901	1,236275261	0,00434	NA	NA
1,266634254	0,09029	1,269270886	0,00633	NA	NA
1,089752112	0,16437	1,132883885	0,01421	NA	NA
1,040300267	0,73391	0,882702996	0,01034	NA	NA
0,745355193	0,08891	0,827023368	0,02658	NA	NA
1,110338834	0,1832	1,127400412	0,00787	NA	NA
1,204972315	0,40718	0,79774524	0,0006	NA	NA
0,885767519	0,54372	0,721464343	0,00021	NA	NA
1,00765376	0,92231	1,133669413	0,04357	NA	NA
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0,683967652	0,08481	0,786217292	0,01017	NA	NA
1,054091423	0,58353	0,854409741	0,04764	NA	NA
1,085229372	0,54332	0,885767519	0,00736	NA	NA
0,903752727	0,23825	0,888226796	0,01147	NA	NA
1,130530567	0,12783	1,172834949	0,02931	NA	NA
0,838568184	0,19278	0,824162085	0,00115	NA	NA
0,752623374	0,07676	0,800514811	0,04159	NA	NA
1,090507733	0,48682	1,277213759	0,00164	NA	NA
0,988285652	0,95074	0,790589117	0,00365	NA	NA

1,021012126	0,90137	0,874784765	0,0449	NA	NA
0,859756486	0,11825	0,855595026	0,01922	NA	NA
1,155886707	0,2531	1,219255094	0,00079	NA	NA
0,866937564	0,13545	0,90062598	0,04761	NA	NA
0,473356816	0,07196	0,613867842	0,00011	NA	NA
1,143138335	0,14664	1,119612889	0,0322	NA	NA
1,051172909	0,62361	1,189207115	0,00198	NA	NA
0,538866573	0,17264	0,699792933	0,0226	NA	NA
1,090507733	0,32388	1,110338834	0,03443	NA	NA
1,068805991	0,41717	1,098854218	0,0488	NA	NA
0,870550563	0,4612	0,848507902	0,01479	NA	NA
0,929804943	0,49907	1,130530567	0,02829	NA	NA
0,85027416	0,08595	0,8962667	0,03195	NA	NA
0,944747041	0,5291	0,87539133	0,03884	NA	NA
1,098854218	0,32395	1,132883885	0,04401	NA	NA
0,944747041	0,72488	1,153485605	0,02079	NA	NA
1,072516617	0,36067	1,136816973	0,00903	NA	NA
1,133669413	0,11515	1,143138335	0,04202	NA	NA
1,07997656	0,4222	1,124278924	0,03942	NA	NA
1,194991205	0,10478	1,129747215	0,01352	NA	NA
1,054822317	0,58807	1,175276328	0,00523	NA	NA
1,028826708	0,64658	1,088997015	0,04415	NA	NA
0,821310701	0,19507	0,808320869	0,00705	NA	NA
1,278099363	0,09002	1,212512819	0,00793	NA	NA
1,0238469	0,84089	0,886996305	0,01194	NA	NA
1,107264584	0,18529	1,181811547	0,00415	NA	NA
0,962594443	0,62708	1,140763716	0,02154	NA	NA
1,106497353	0,22106	1,087488391	0,03015	NA	NA
1,132883885	0,24096	1,132883885	0,04483	NA	NA
1,068065408	0,55107	1,138394029	0,01771	NA	NA
1,138394029	0,07234	1,095052471	0,02597	NA	NA
1,087488391	0,43071	1,176906737	0,01512	NA	NA
1,078480432	0,56944	1,209994089	0,04181	NA	NA
1,041743429	0,58544	1,107264584	0,04353	NA	NA
1,096571589	0,38974	1,285206337	0,00177	NA	NA
1,22858698	0,05866	1,22603486	0,00393	NA	NA
0,959264119	0,89434	1,623379162	0,00063	NA	NA
0,929804943	0,82038	1,569168196	0,00096	NA	NA
1,159095952	0,13198	1,209155676	0,01048	NA	NA
1,224336392	0,14568	1,277213759	0,00288	NA	NA
1,053361036	0,83674	1,205807828	0,00584	NA	NA
0,974679631	0,82466	1,098854218	0,04365	NA	NA
1,387030969	0,13453	1,494849249	0,00034	NA	NA
0,791685866	0,25851	0,831045862	0,03849	NA	NA
1,090507733	0,50521	1,119612889	0,04627	NA	NA
0,885153765	0,42112	0,885153765	0,03124	NA	NA
1,000693387	0,99824	0,70514898	0,0004	NA	NA
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1	0,99966	0,677832163	0,0042	NA	NA
1,136816973	0,68319	0,741747467	0,02224	NA	NA
1,00486382	0,96082	0,892546971	0,01959	NA	NA
1,251796459	0,30679	0,844986384	0,00163	NA	NA
1,155085785	0,148	1,173648178	0,03027	NA	NA
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0,910038824	0,66429	0,697371833	0,01015	NA	NA
1,010451446	0,91528	0,880259014	0,04493	NA	NA
0,803850991	0,33264	0,852634892	0,04517	NA	NA
1,780151467	0,05485	1,42800398	0,01625	NA	NA
0,959264119	0,83386	0,775393206	0,02441	NA	NA
1,051901779	0,66004	1,172834949	0,0438	NA	NA
1,209155676	0,10364	1,355664327	0,00113	NA	NA
0,975355462	0,83311	1,092777739	0,02693	NA	NA
1,10343374	0,57868	1,232852325	0,00155	NA	NA
1,114966219	0,19781	1,121166078	0,0153	NA	NA
1,335148303	0,07382	1,489677463	0,00288	NA	NA
0,875998315	0,29749	0,732550437	0	NA	NA
0,886996305	0,25508	0,72597914	0,00206	NA	NA
0,738669032	0,12842	0,860352631	0,04079	NA	NA
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1,033830736	0,76294	1,098092814	0,03942	NA	NA
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1,020304659	0,89414	0,798851916	0,01926	NA	NA
1,161508732	0,16341	1,219255094	0,00665	NA	NA
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1,137605228	0,1246	1,085981856	0,04663	NA	NA
1,16634937	0,09289	1,286989247	0,00129	NA	NA
0,969289817	0,67661	0,906261938	0,02323	NA	NA
1,261377409	0,05106	1,109569472	0,04899	NA	NA
1,068805991	0,33243	1,16634937	0,00103	NA	NA
1,065108203	0,66669	1,139183377	0,03539	NA	NA
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0,821880187	0,12758	0,792234811	0,00649	NA	NA
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1,07549439	0,26897	1,122721422	0,01426	NA	NA
1,011152081	0,90695	1,184271612	0,00106	NA	NA
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0,897510051	0,61789	0,805524291	0,00397	NA	NA

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0,85797053	0,16791	0,784040454	0,00534	NA	NA
0,693515485	0,23512	0,839149637	0,00867	NA	NA
0,890075733	0,51177	0,856781955	0,01996	NA	NA
0,849096246	0,27008	0,831622098	0,04118	NA	NA
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0,889458994	0,56919	1,128182137	0,03607	NA	NA
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1,187559666	0,25426	1,301341855	0,00328	NA	NA
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1,193335743	0,08014	1,146312186	0,00924	NA	NA
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0,814507563	0,1674	0,845572287	0,02046	NA	NA
0,924663278	0,58132	0,759435845	0,01299	NA	NA
1,158292806	0,60473	0,840313752	0,01611	NA	NA
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0,959929261	0,7046	1,175276328	0,01567	NA	NA
0,934327347	0,65256	0,681601304	0,00287	NA	NA
0,732042848	0,12964	0,76101669	0,01802	NA	NA
0,882702996	0,20366	0,755236293	0,00038	NA	NA
1,235418637	0,20111	1,414213562	0,0131	NA	NA
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1,051901779	0,74863	0,767373048	0,00422	NA	NA
0,840896415	0,30923	0,849096246	0,03488	NA	NA
0,669427628	0,07363	0,710053679	0,00326	NA	NA
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1,139973273	0,43025	1,168777249	0,04282	NA	NA
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0,770571108	0,16434	0,76154437	0,00001	NA	NA
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1,041021598	0,79315	0,827023368	0,00928	NA	NA
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0,844986384	0,37708	0,804408371	0,00875	NA	NA
0,688725023	0,07339	0,826450318	0,00388	NA	NA
0,971307496	0,87347	0,741747467	0	NA	NA
0,786762445	0,38607	0,733566672	0,00498	NA	NA
1,115739322	0,62043	0,802181166	0,0048	NA	NA
1,098854218	0,76246	1,263127262	0,00365	NA	NA
0,74277646	0,24867	0,799960128	0,01758	NA	NA
1,076986376	0,46584	1,140763716	0,024	NA	NA
1,065846736	0,55765	1,130530567	0,01689	NA	NA
1,094293701	0,52286	1,187559666	0,00856	NA	NA
0,732042848	0,36028	0,833931044	0,0257	NA	NA
0,925304428	0,29449	0,880259014	0,02443	NA	NA
0,995159722	0,95139	1,121166078	0,03713	NA	NA
0,89564567	0,56031	0,844986384	0,0453	NA	NA
0,997922719	0,98625	1,126619228	0,04764	NA	NA
1,490710387	0,07743	1,332374825	0,00312	NA	NA
0,828744904	0,31741	0,729004689	0,00001	NA	NA
1,161508732	0,45144	0,794985251	0,01146	NA	NA
1,095052471	0,27558	1,207480591	0,00366	NA	NA
1,054091423	0,831	0,807201075	0,0141	NA	NA
0,90000193	0,6606	0,732042848	0,00168	NA	NA
1,180992661	0,09156	1,124278924	0,04914	NA	NA
1,350037985	0,10929	1,191682575	0,00264	NA	NA
0,892546971	0,51434	0,818469182	0,00767	NA	NA
0,797192477	0,6505	0,683020128	0,01441	NA	NA
1,096571589	0,31986	1,282536603	0,00431	NA	NA
0,755759964	0,14461	0,810003474	0,00627	NA	NA
0,865736566	0,49886	0,78132788	0,02451	NA	NA
0,567621051	0,05081	0,640823962	0,00001	NA	NA
0,950000383	0,61484	0,765248385	0,00103	NA	NA
0,883315051	0,13685	0,858565436	0,00457	NA	NA
1,188383105	0,08507	1,256142381	0,00545	NA	NA
0,76684133	0,28821	0,632001549	0,00046	NA	NA
1,476314406	0,07295	1,42800398	0,00577	NA	NA
1,095052471	0,41029	1,158292806	0,00715	NA	NA
1,074004472	0,66234	1,163926534	0,04466	NA	NA
1,099616149	0,47158	1,227735684	0,00037	NA	NA
0,863339559	0,14693	0,856188285	0,00967	NA	NA
1,136029265	0,21249	1,261377409	0,00871	NA	NA
0,834509281	0,14433	0,698339266	0,00082	NA	NA
0,934975198	0,3928	0,791685866	0,0005	NA	NA
0,711038705	0,1198	0,690158677	0,00037	NA	NA
0,917639882	0,61213	0,892546971	0,04197	NA	NA
1,064370182	0,88977	0,725476104	0,00107	NA	NA
0,87175824	0,29433	0,860949188	0,01864	NA	NA
0,765778999	0,20888	0,747942879	0,00008	NA	NA
0,779704843	0,17389	0,773246337	0,00406	NA	NA
1,537940831	0,11904	1,215036792	0,04734	NA	NA
1,029540083	0,84576	0,77916458	0,0005	NA	NA
1,381274448	0,31604	1,399585866	0,04735	NA	NA
0,995159722	0,97764	1,266634254	0,02388	NA	NA
0,924022572	0,68432	0,84323111	0,03202	NA	NA
0,868140228	0,09959	0,849684999	0,00797	NA	NA
1,092020546	0,52301	1,22858698	0,04178	NA	NA
1,068065408	0,54785	1,139973273	0,01403	NA	NA
0,721964598	0,11062	0,669891801	0	NA	NA
0,927873476	0,55571	0,849096246	0,00848	NA	NA
0,843815796	0,36511	0,862143545	0,02528	NA	NA
1,015366101	0,84132	1,157490217	0,03522	NA	NA
1,144724161	0,22141	1,115739322	0,0408	NA	NA
1,202469249	0,1661	1,185092771	0,03717	NA	NA
1,258757174	0,05381	1,132098902	0,00597	NA	NA
0,849096246	0,31213	0,90000193	0,02366	NA	NA
0,880869374	0,29043	0,878430468	0,03377	NA	NA
0,70270935	0,12067	0,689202576	0,00711	NA	NA
0,806641759	0,07085	0,795536484	0,00484	NA	NA

0,930449658	0,557	0,826450318	0,0007	NA	NA
0,937571096	0,63748	1,128964405	0,04191	NA	NA
0,801625329	0,10712	0,823591017	0,03245	NA	NA
0,816203046	0,09754	0,856781955	0,02329	NA	NA
1,035982764	0,73799	0,839149637	0,00764	NA	NA
0,853226098	0,39859	0,734075318	0,00034	NA	NA
0,750539549	0,18818	0,702222438	0	NA	NA
0,903752727	0,65266	0,817335328	0,04114	NA	NA
0,863938187	0,51689	0,77916458	0,04137	NA	NA
1,096571589	0,3786	1,147107024	0,0036	NA	NA
0,89688816	0,62378	0,777546036	0,00273	NA	NA
1,222640278	0,06021	1,21167266	0,0097	NA	NA
1,040300267	0,78657	0,81056512	0,01803	NA	NA
0,695923196	0,20155	0,671751713	0,00001	NA	NA
1,094293701	0,491	0,796088099	0,00426	NA	NA
0,890692901	0,58523	0,760489377	0,00074	NA	NA
0,925304428	0,48062	0,856188285	0,00783	NA	NA
0,936272247	0,6604	0,76630998	0,00006	NA	NA
0,982820599	0,90462	0,827023368	0,00307	NA	NA
0,849684999	0,28505	0,808881348	0,00343	NA	NA
1,122721422	0,30655	1,146312186	0,01158	NA	NA
1,244874235	0,0691	1,209994089	0,00335	NA	NA
1,098854218	0,49748	0,79774524	0,0165	NA	NA
0,818469182	0,24662	0,791137301	0,00433	NA	NA
1,267512522	0,0531	1,139973273	0,01051	NA	NA
0,866336856	0,55127	0,721964598	0,00528	NA	NA
0,839149637	0,46828	0,854409741	0,01103	NA	NA
1,064370182	0,40532	1,171210181	0,03294	NA	NA
1,175276328	0,57324	0,745872013	0,00355	NA	NA
1,120389214	0,23808	1,165541198	0,02875	NA	NA
0,998614666	0,99466	0,802737389	0,01635	NA	NA
0,988970916	0,92802	1,172834949	0,0281	NA	NA
1,116512962	0,23251	1,242288282	0,01994	NA	NA
0,843815796	0,28825	0,817902059	0,01168	NA	NA
1,085981856	0,46265	1,120389214	0,0042	NA	NA
0,77271055	0,37044	0,630251696	0	NA	NA
1,150291893	0,15544	1,229438867	0,002	NA	NA
1,021012126	0,82083	0,910038824	0,04308	NA	NA
0,86934456	0,08552	0,768970416	0,01538	NA	NA
1,164733586	0,08778	1,108800644	0,02997	NA	NA
0,773782497	0,17436	0,693515485	0,00038	NA	NA
0,997231251	0,9738	0,872362706	0,01022	NA	NA
0,905633983	0,48943	0,817902059	0,01195	NA	NA
0,995849753	0,9849	0,849096246	0,02999	NA	NA
0,667574152	0,07222	0,748461493	0,00053	NA	NA
0,819036698	0,62389	0,608783009	0,00066	NA	NA
0,922742493	0,28093	0,883927531	0,04818	NA	NA
0,993092495	0,97745	0,77916458	0,00054	NA	NA
0,748461493	0,10905	0,73153561	0	NA	NA
1,181811547	0,18558	1,375541818	0,00076	NA	NA
1,000693387	0,99546	0,86154616	0,00831	NA	NA
0,942131274	0,69975	0,793883931	0,03834	NA	NA
0,709070018	0,14591	0,814507563	0,02849	NA	NA
0,847332435	0,20526	0,800514811	0,02164	NA	NA
0,912565489	0,4763	0,845572287	0,01561	NA	NA
0,853226098	0,18984	0,854409741	0,00493	NA	NA
1,194991205	0,32115	1,208317843	0,01309	NA	NA
0,76418826	0,37677	0,774855931	0,01543	NA	NA
0,812252396	0,17791	0,753667455	0,00022	NA	NA
0,940174203	0,76894	0,743806881	0,00029	NA	NA
0,717972255	0,10075	0,655196702	0,00002	NA	NA
0,806641759	0,09334	0,827023368	0,01421	NA	NA
0,757333158	0,30373	0,60667678	0,0012	NA	NA
1,110338834	0,2577	1,136029265	0,01653	NA	NA
1,104198847	0,18773	1,101141598	0,04893	NA	NA
0,796640096	0,16124	0,727994774	0,02834	NA	NA
1,159899655	0,33836	1,424050196	0,00656	NA	NA
1,084477409	0,43075	1,178539408	0,02252	NA	NA
0,965267025	0,72032	1,151887642	0,00604	NA	NA
1,161508732	0,05546	1,104964485	0,0431	NA	NA
0,801625329	0,39237	0,720964436	0,0001	NA	NA
0,636397468	0,13801	0,708087719	0,00051	NA	NA
1,207480591	0,5674	0,747942879	0,0032	NA	NA
1,092020546	0,50399	1,165541198	0,01868	NA	NA
0,936272247	0,38027	0,807760778	0,00249	NA	NA
1,246601194	0,14053	1,350974085	0,00031	NA	NA
1,0132569	0,88853	1,179356592	0,01073	NA	NA
0,978063473	0,93357	0,60667678	0,00001	NA	NA
0,907519155	0,43413	0,759435845	0,00201	NA	NA
1,164733586	0,13543	1,131314463	0,00976	NA	NA
1,199139914	0,15537	1,197478705	0,03778	NA	NA
1,085981856	0,75496	0,74277646	0,03344	NA	NA
1,319507911	0,27623	1,236275261	0,0245	NA	NA
0,680657058	0,22612	0,688247801	0,00142	NA	NA
1,026689546	0,91536	0,745872013	0,002	NA	NA
1,085229372	0,44111	1,160703914	0,00155	NA	NA
0,812252396	0,08952	0,823591017	0,00312	NA	NA
1,070288698	0,69347	0,841479482	0,01439	NA	NA
1,174461971	0,27001	1,318593614	0,0016	NA	NA
0,743291492	0,2019	0,699308041	0,00146	NA	NA
1,235418637	0,05641	1,22010051	0,00808	NA	NA
1,101141598	0,62931	0,857376037	0,01168	NA	NA
0,86934456	0,16519	1,123499903	0,04396	NA	NA
0,833931044	0,39944	0,718968266	0,00022	NA	NA
0,86154616	0,14813	0,764718139	0,03818	NA	NA
1,030253954	0,86571	0,883315051	0,0248	NA	NA
1,088997015	0,28867	1,133669413	0,01521	NA	NA
0,666187413	0,1099	0,662044455	0,00018	NA	NA
1,254402205	0,09783	1,163926534	0,00756	NA	NA
1,01395948	0,87115	1,121166078	0,0314	NA	NA
1,140763716	0,25465	1,208317843	0,0012	NA	NA
0,856188285	0,28677	0,787307977	0,0158	NA	NA
1,163926534	0,1105	1,123499903	0,02782	NA	NA
1,305859787	0,16822	0,853226098	0,04959	NA	NA

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0,842062954	0,14046	0,819604608	0,00248	NA	NA
0,915733686	0,50705	0,833931044	0,00216	NA	NA
0,881480158	0,16714	1,127400412	0,02875	NA	NA
1,038859103	0,67757	0,919550046	0,04748	NA	NA
0,816203046	0,37525	0,779704843	0,04866	NA	NA
1,028826708	0,70616	1,131314463	0,0216	NA	NA
1,07549439	0,25544	0,863938187	0,03259	NA	NA
1,060687741	0,79898	0,637280314	0,00025	NA	NA
1,068805991	0,43139	1,154285418	0,0272	NA	NA
1,016070143	0,88518	1,131314463	0,03742	NA	NA
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0,923382311	0,52533	0,788400174	0,00056	NA	NA
1,07997656	0,43071	1,089752112	0,04836	NA	NA
0,76101669	0,09206	0,87175824	0,03066	NA	NA
0,799960128	0,34459	0,785128119	0,03183	NA	NA
1,21335356	0,19634	1,283425898	0,00055	NA	NA
1,009051634	0,92486	0,86934456	0,01822	NA	NA
0,922103118	0,40694	0,904379378	0,04055	NA	NA
1,170398641	0,10732	1,079228237	0,04289	NA	NA
1,073260286	0,51107	1,102669163	0,03618	NA	NA
0,934327347	0,51426	0,888226796	0,01711	NA	NA
1,018891197	0,80793	1,138394029	0,00207	NA	NA
1,057018041	0,54619	1,322254605	0,00359	NA	NA
1,093535457	0,28432	1,147902414	0,00376	NA	NA
1,190031696	0,07865	1,232852325	0,00159	NA	NA
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1,159899655	0,30329	1,231144413	0,01703	NA	NA
1	0,99949	1,111879158	0,00948	NA	NA
0,881480158	0,24332	0,922103118	0,02765	NA	NA
1,207480591	0,06129	1,127400412	0,04508	NA	NA
0,917639882	0,73453	0,746906729	0,0037	NA	NA
0,939522749	0,53967	0,778085177	0,00967	NA	NA
1,041021598	0,57674	0,922742493	0,04293	NA	NA
1,060687741	0,50278	1,098092814	0,043	NA	NA
1,160703914	0,18069	1,186736798	0,01918	NA	NA
1,113421618	0,31861	1,286097483	0,00177	NA	NA
1,108032348	0,40173	1,113421618	0,03294	NA	NA
1,085981856	0,42349	1,264879542	0,00218	NA	NA
0,717474767	0,07614	0,796640096	0,03309	NA	NA
1,159095952	0,10819	1,195819797	0,00639	NA	NA
1,242288282	0,05371	1,196648963	0,00017	NA	NA
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1,018891197	0,94294	0,753145233	0,00053	NA	NA
0,875998315	0,14287	0,8362464	0,00291	NA	NA
0,600401714	0,0548	0,76630998	0,00686	NA	NA
1,00556058	0,98112	0,835087919	0,03048	NA	NA
0,656560563	0,15913	0,721464343	0,01061	NA	NA
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0,953298545	0,70995	0,857376037	0,03652	NA	NA
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0,817335328	0,15623	0,771105413	0,00034	NA	NA
1,180992661	0,35429	1,231144413	0,00747	NA	NA
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0,668500248	0,07014	0,641712949	0,00011	NA	NA
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1,459020344	0,11234	1,294145654	0,02262	NA	NA
0,865136691	0,40071	0,775930854	0,02823	NA	NA
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1,136029265	0,34113	1,345367209	0,00302	NA	NA
1,072516617	0,33847	1,108800644	0,00822	NA	NA
1,176906737	0,23058	1,240567298	0,0008	NA	NA
0,947370071	0,63814	0,853817714	0,00884	NA	NA
0,840896415	0,27834	0,812252396	0,00736	NA	NA
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0,825305409	0,1735	0,796088099	0,02064	NA	NA
0,722465199	0,44324	0,635075491	0,00004	NA	NA
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1,076240125	0,42511	1,167967395	0,00789	NA	NA
1,098854218	0,39947	1,169587664	0,01224	NA	NA
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1,025267238	0,76385	0,885767519	0,04319	NA	NA
1,178539408	0,11518	1,200803427	0,00224	NA	NA
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1,237132479	0,08193	1,215879283	0,00164	NA	NA
0,96996191	0,77131	0,76418826	0,00811	NA	NA
0,837406488	0,18185	0,847332435	0,01533	NA	NA
0,860949188	0,45661	0,812252396	0,03283	NA	NA
0,917639882	0,3576	1,169587664	0,00537	NA	NA
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1,160703914	0,1314	1,157490217	0,00866	NA	NA
1,230291345	0,08673	1,195819797	0,02241	NA	NA
1,137605228	0,13739	1,169587664	0,01433	NA	NA
0,993781093	0,96309	0,887611337	0,03011	NA	NA
1,051172909	0,74955	0,874784765	0,0295	NA	NA
1,016774673	0,96038	0,789493887	0,01422	NA	NA
1,338855257	0,1458	1,258757174	0,00466	NA	NA
0,832198735	0,13152	0,841479482	0,03463	NA	NA
0,993092495	0,94471	1,188383105	0,00905	NA	NA
0,822450069	0,21929	0,774319028	0,00009	NA	NA
1,079228237	0,40736	1,155085785	0,00171	NA	NA
0,888842681	0,59277	0,841479482	0,04991	NA	NA
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1,063632673	0,51905	1,107264584	0,01349	NA	NA
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1,01395948	0,90519	1,107264584	0,03546	NA	NA
0,971980988	0,90658	0,829894586	0,02882	NA	NA
0,76418826	0,11206	0,731028724	0,02662	NA	NA
1,147107024	0,16009	1,242288282	0,00473	NA	NA
0,757858283	0,1601	0,864537231	0,04449	NA	NA
0,992404375	0,97114	0,717474767	0,01063	NA	NA
0,890075733	0,3509	0,760489377	0,00015	NA	NA
1,051901779	0,56781	1,198309021	0,00637	NA	NA
1,185092771	0,38219	1,243149669	0,00686	NA	NA
0,97874165	0,75898	0,90000193	0,01469	NA	NA
0,740719899	0,19058	0,673150035	0,00011	NA	NA
1,076986376	0,40716	0,883927531	0,00398	NA	NA
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0,985549337	0,84917	0,907519155	0,0238	NA	NA
1,181811547	0,05797	1,163926534	0,0065	NA	NA
1,072516617	0,41932	1,180174343	0,00276	NA	NA
1,071773463	0,61444	1,123499903	0,02182	NA	NA
0,830470024	0,15208	0,825877665	0,00657	NA	NA
0,87539133	0,56064	0,679243142	0,00006	NA	NA
0,893785162	0,15008	0,872967591	0,0138	NA	NA
1,092020546	0,2513	0,885767519	0,02885	NA	NA
0,953298545	0,82062	0,837987135	0,02854	NA	NA
0,758383773	0,13353	0,78132788	0,00022	NA	NA
1,002081605	0,9767	1,092777739	0,04568	NA	NA
0,908148418	0,32026	0,85027416	0,01359	NA	NA
0,86934456	0,21988	0,914465089	0,02875	NA	NA
1,017479692	0,88405	1,146312186	0,02096	NA	NA
0,684441907	0,14351	0,862143545	0,01094	NA	NA
1,008352455	0,91743	1,104198847	0,04883	NA	NA
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0,924022572	0,67741	0,788400174	0,02236	NA	NA
0,57236208	0,05701	0,635956503	0,00033	NA	NA
0,776468875	0,06135	0,886381699	0,02146	NA	NA
1,154285418	0,14397	1,215879283	0,04443	NA	NA
1,047536127	0,73097	1,21167266	0,00407	NA	NA
1,167158102	0,1118	1,143930973	0,02011	NA	NA
0,90000193	0,28109	0,808320869	0,01292	NA	NA
0,863339559	0,20531	0,828744904	0,0121	NA	NA
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1,011853201	0,8323	0,914465089	0,02343	NA	NA
1,167158102	0,21519	1,157490217	0,0258	NA	NA
1,187559666	0,10891	1,144724161	0,01572	NA	NA
1,078480432	0,5553	1,180174343	0,02122	NA	NA
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1,149494848	0,05251	1,127400412	0,02045	NA	NA
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0,804408371	0,26475	0,765778999	0,04357	NA	NA
1,002776436	0,97396	1,172022284	0,0131	NA	NA
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0,835087919	0,1095	0,878430468	0,00756	NA	NA
1,018891197	0,85412	1,241427492	0,00122	NA	NA
1,21335356	0,06419	1,134455485	0,00551	NA	NA
0,975355462	0,90101	1,179356592	0,02678	NA	NA
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0,84323111	0,1903	0,778085177	0,00049	NA	NA
1,190856849	0,10278	0,844986384	0,0312	NA	NA
0,701735863	0,17998	0,527776859	0	NA	NA
1,159095952	0,12898	1,178539408	0,00469	NA	NA
1,068805991	0,35135	1,17609125	0,00158	NA	NA
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1,071773463	0,29937	1,118837101	0,01842	NA	NA
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1,040300267	0,73097	1,222640278	0,00409	NA	NA
0,879649076	0,16906	0,87175824	0,00602	NA	NA
1,035982764	0,54196	1,10343374	0,02388	NA	NA
1,248330549	0,05531	1,170398641	0,02499	NA	NA
1,086734863	0,30671	1,092777739	0,03335	NA	NA
1,068065408	0,48264	1,104198847	0,04808	NA	NA
1,073260286	0,68363	0,839731493	0,03071	NA	NA
0,794985251	0,08888	0,777546036	0,00044	NA	NA
1,035982764	0,77226	0,888226796	0,04234	NA	NA
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1,040300267	0,61698	1,182631	0,02262	NA	NA
0,905633983	0,31151	0,841479482	0,01531	NA	NA
0,992404375	0,93191	1,185914499	0,00177	NA	NA
1,20664392	0,6525	0,822450069	0,04136	NA	NA
1,004167543	0,98089	0,774319028	0,00567	NA	NA
1,059952783	0,411	1,147107024	0,02169	NA	NA
0,827596816	0,11238	0,883315051	0,01087	NA	NA
1,015366101	0,82803	1,123499903	0,02335	NA	NA
1,128964405	0,22099	1,108800644	0,02541	NA	NA
1,147902414	0,12053	1,142346247	0,01322	NA	NA
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0,912565489	0,34545	1,137605228	0,04647	NA	NA
0,917004043	0,37278	0,776468875	0,02253	NA	NA
1,038139271	0,74793	1,120389214	0,03617	NA	NA
1,100378609	0,40008	1,111108729	0,04171	NA	NA
0,860949188	0,28169	0,839149637	0,02102	NA	NA
1,104964485	0,29045	1,101905116	0,04934	NA	NA
1,038139271	0,7674	1,185092771	0,02657	NA	NA
1,052631155	0,59499	1,073260286	0,04778	NA	NA
1,119612889	0,27803	1,160703914	0,01389	NA	NA
1,199139914	0,15569	1,159095952	0,04061	NA	NA
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0,740719899	0,12483	0,786762445	0,00456	NA	NA
1,058484395	0,51845	1,124278924	0,03708	NA	NA

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1,114966219	0,27868	1,192508872	0,00771	NA	NA
1,033830736	0,67368	0,901250463	0,0138	NA	NA
1,157490217	0,20315	1,171210181	0,02926	NA	NA
1,141554707	0,22065	1,20163605	0,00292	NA	NA
0,995159722	0,95124	1,114966219	0,01891	NA	NA
1,088997015	0,38638	1,185914499	0,00577	NA	NA
1,17772279	0,09849	1,244874235	0,0002	NA	NA
0,956608158	0,51551	1,138394029	0,01595	NA	NA
1,208317843	0,06233	1,140763716	0,02358	NA	NA
1,158292806	0,11681	1,186736798	0,02009	NA	NA
1,255271991	0,35708	0,755759964	0,01139	NA	NA
0,732550437	0,17464	0,618566239	0,00025	NA	NA
1,057018041	0,60826	1,235418637	0,00072	NA	NA
0,825305409	0,09423	0,862143545	0,03228	NA	NA
1,091263877	0,25902	1,140763716	0,01277	NA	NA
1,151089491	0,16276	1,190856849	0,00968	NA	NA
1,082975046	0,48619	1,192508872	0,00565	NA	NA
1,093535457	0,28654	1,134455485	0,04382	NA	NA
1,030968319	0,69776	1,162314108	0,01542	NA	NA
1,150291893	0,14479	1,361314116	0,00104	NA	NA
0,948026965	0,57577	1,139183377	0,03944	NA	NA
1,16634937	0,15522	1,296839555	0,00007	NA	NA
1,232852325	0,11423	1,256142381	0,00017	NA	NA
1,090507733	0,3549	1,148698355	0,02893	NA	NA
1,126619228	0,18368	1,159899655	0,00822	NA	NA
1,084477409	0,38498	1,111879158	0,04036	NA	NA
1,082975046	0,33764	1,202469249	0,01611	NA	NA
1,041021598	0,70967	1,123499903	0,03949	NA	NA
0,888226796	0,60966	0,768970416	0,01715	NA	NA
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1,07997656	0,45713	1,131314463	0,00739	NA	NA
1,041021598	0,74943	1,135242102	0,01782	NA	NA
1,138394029	0,20725	1,134455485	0,02424	NA	NA
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1,056285625	0,56489	1,171210181	0,00502	NA	NA
1,133669413	0,0876	1,172022284	0,00034	NA	NA
0,982820599	0,85479	1,123499903	0,0347	NA	NA
1,064370182	0,44917	1,132883885	0,02143	NA	NA
1,037419937	0,62995	1,125838586	0,02717	NA	NA
1,121943481	0,21248	1,221793102	0,0002	NA	NA
0,948026965	0,73758	0,800514811	0,01064	NA	NA
0,891310496	0,2078	0,802737389	0,01263	NA	NA
0,717474767	0,0639	0,72597914	0,00307	NA	NA
1,014662547	0,87875	1,136816973	0,03032	NA	NA
1,262252032	0,08845	1,403471726	0,0002	NA	NA
1,215036792	0,08157	1,123499903	0,03012	NA	NA
1,156688184	0,29525	1,356604327	0,00022	NA	NA
1,212512819	0,24665	1,465100875	0,00636	NA	NA
1,084477409	0,46648	1,234562607	0,00021	NA	NA
1,155085785	0,08758	1,165541198	0,02254	NA	NA
1,051901779	0,53629	1,168777249	0,03479	NA	NA
1,111879158	0,15124	1,163120042	0,019	NA	NA
1,070288698	0,53838	1,114966219	0,0439	NA	NA
1,012554807	0,85957	1,130530567	0,0262	NA	NA
1,106497353	0,19684	1,193335743	0,00096	NA	NA
0,980779004	0,7905	1,138394029	0,04027	NA	NA
1,017479692	0,81385	1,134455485	0,03669	NA	NA
1,080725402	0,54659	1,318593614	0,00008	NA	NA
1,0181852	0,81472	1,149494848	0,00881	NA	NA
1,059952783	0,57162	1,121166078	0,03476	NA	NA
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1,128964405	0,14011	1,2397077	0,00162	NA	NA
0,984866443	0,89611	1,132883885	0,00361	NA	NA
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1,053361036	0,63924	1,125058485	0,0394	NA	NA
0,89688816	0,38233	0,851453708	0,03068	NA	NA
1,111879158	0,21272	1,275444392	0,00045	NA	NA
0,941478465	0,77399	0,860352631	0,04386	NA	NA
1,145517898	0,68079	1,286097483	0,0124	NA	NA
0,711038705	0,08028	0,87175824	0,0492	NA	NA
1,124278924	0,59376	0,758383773	0,00043	NA	NA
1,087488391	0,16296	1,152686347	0,00475	NA	NA
1,028826708	0,878	0,787853886	0,00113	NA	NA
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0,765248385	0,17104	0,723467443	0,00013	NA	NA
0,876605721	0,21579	0,776468875	0,00218	NA	NA
0,669427628	0,05326	0,721464343	0,01158	NA	NA
1,006257823	0,92566	0,909408252	0,02294	NA	NA
0,975355462	0,81971	0,833353207	0,02449	NA	NA
0,879649076	0,57582	0,839731493	0,01615	NA	NA
0,764718139	0,13842	0,804408371	0,00716	NA	NA
0,807760778	0,06753	0,778085177	0,00074	NA	NA
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1,339783602	0,12647	1,265756594	0,00131	NA	NA
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1,009051634	0,97281	0,725476104	0,0049	NA	NA
0,988970916	0,87037	0,892546971	0,0178	NA	NA
1,160703914	0,18919	1,180992661	0,02105	NA	NA
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0,816768991	0,10453	0,788400174	0,00322	NA	NA
1,088997015	0,68613	0,862143545	0,0041	NA	NA
0,933679945	0,75844	0,853226098	0,01483	NA	NA
1,237132479	0,17375	1,160703914	0,01281	NA	NA
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1,21167266	0,06684	1,142346247	0,01201	NA	NA
1,057018041	0,82461	0,823020345	0,0329	NA	NA
0,815637493	0,21426	0,748980467	0,00743	NA	NA
0,802737389	0,29688	0,768437591	0,00075	NA	NA
1,050444544	0,59796	1,150291893	0,00605	NA	NA

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1,043911927	0,58046	1,118837101	0,01826	NA	NA
1,065108203	0,77705	0,775393206	0,00967	NA	NA
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1,00556058	0,94549	1,200803427	0,00976	NA	NA
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0,698823486	0,07339	0,801625329	0,00681	NA	NA
0,501040803	0,15236	0,603740296	0,00001	NA	NA
0,717474767	0,10277	0,808320869	0,00971	NA	NA
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0,806082831	0,10161	0,718470088	0,00077	NA	NA
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1,014662547	0,86847	0,860949188	0,02474	NA	NA
1,372684431	0,0725	1,10343374	0,03209	NA	NA
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1,234562607	0,29338	0,891310496	0,03396	NA	NA
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1,221793102	0,08262	1,137605228	0,03621	NA	NA
1,094293701	0,38785	1,163926534	0,01421	NA	NA
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0,886381699	0,53846	0,738157203	0,00129	NA	NA
1,232852325	0,56575	0,735603373	0,00115	NA	NA
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0,78132788	0,26754	0,675955417	0,00043	NA	NA
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1,024556823	0,80352	1,17772279	0,00185	NA	NA
0,931740429	0,4339	0,867538687	0,00534	NA	NA
1,0132569	0,94294	0,768970416	0,00331	NA	NA
1,241427492	0,07973	1,111879158	0,01951	NA	NA
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0,927230546	0,68837	0,784040454	0,00236	NA	NA
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1,037419937	0,67836	1,151089491	0,02018	NA	NA
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1,231144413	0,08818	0,914465089	0,04876	NA	NA
0,948684315	0,73119	0,746389192	0,00124	NA	NA
1,066585781	0,43403	1,130530567	0,03622	NA	NA
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0,922103118	0,55523	0,802737389	0,00542	NA	NA
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0,85086373	0,08586	0,85797053	0,01036	NA	NA
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1,0181852	0,92441	0,840313752	0,01535	NA	NA
1,472226862	0,10289	1,197478705	0,0425	NA	NA
1,009751298	0,9317	1,089752112	0,04139	NA	NA
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0,730522189	0,11417	0,639492791	0,00004	NA	NA
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1,122721422	0,23461	1,167967395	0,00041	NA	NA
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1,064370182	0,42879	0,921464186	0,03252	NA	NA
1,108032348	0,30653	1,120389214	0,03619	NA	NA
1,115739322	0,1485	1,118837101	0,03705	NA	NA
0,730522189	0,199	0,63860688	0,00005	NA	NA
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1,121943481	0,18188	1,146312186	0,01096	NA	NA
1,051901779	0,8076	0,797192477	0,01309	NA	NA
0,940174203	0,8466	0,829894586	0,0317	NA	NA
0,937571096	0,77154	0,701249625	0,00251	NA	NA
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0,953959551	0,8362	0,668963777	0,00003	NA	NA
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0,971307496	0,92788	0,740206649	0,0041	NA	NA
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1,256142381	0,12664	1,282536603	0,00134	NA	NA
0,891928519	0,31777	0,837406488	0,00875	NA	NA
0,819604608	0,13303	0,753145233	0,00055	NA	NA
0,922742493	0,54368	0,842062954	0,00457	NA	NA
0,758909626	0,13324	0,685391402	0,00019	NA	NA
0,961260928	0,59427	0,905633983	0,01284	NA	NA
0,966606097	0,69345	0,877821798	0,00251	NA	NA
0,908778116	0,5041	0,866336856	0,01932	NA	NA
0,911933166	0,44646	0,764718139	0,02344	NA	NA
1,030253954	0,64406	1,078480432	0,0324	NA	NA
1,118837101	0,58787	0,831622098	0,03517	NA	NA
1,176906737	0,08697	1,193335743	0,00863	NA	NA
0,858565436	0,1351	0,758383773	0,0019	NA	NA
0,788946841	0,09534	0,768970416	0,00017	NA	NA
0,990342872	0,97735	0,705637922	0,00206	NA	NA
0,971307496	0,79206	1,102669163	0,01929	NA	NA
0,93109482	0,72494	0,744838732	0,00456	NA	NA
1,124278924	0,29981	0,905006463	0,03619	NA	NA
1,147902414	0,50427	0,829319546	0,00415	NA	NA

1,054822317	0,4698	0,882091365	0,00935	NA	NA
0,683493726	0,25834	0,559418551	0,00018	NA	NA
1,296839555	0,15847	1,311302014	0,00034	NA	NA
0,919550046	0,71442	0,828170661	0,02114	NA	NA
0,937571096	0,83722	0,583174685	0,00008	NA	NA
1,35754498	0,08518	1,269270886	0,00893	NA	NA
0,911933166	0,38239	0,841479482	0,00549	NA	NA
1,044635763	0,89833	0,693515485	0,00041	NA	NA
1,074749173	0,43185	1,139973273	0,02358	NA	NA
0,958599438	0,82531	0,716480825	0,00007	NA	NA
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1,079228237	0,26962	1,088997015	0,04466	NA	NA
1,054091423	0,52336	1,146312186	0,00646	NA	NA
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0,745872013	0,1712	0,716977624	0,00229	NA	NA
1,256142381	0,0508	1,278099363	0,00449	NA	NA
1,146312186	0,2002	1,151089491	0,01247	NA	NA
0,907519155	0,25628	0,832198735	0,00447	NA	NA
0,97874165	0,90789	0,677362489	0,00002	NA	NA
0,8962667	0,59836	0,847919965	0,01838	NA	NA
0,783497187	0,13228	0,814507563	0,01495	NA	NA
1,111879158	0,25693	1,17609125	0,01021	NA	NA
1,099616149	0,37871	1,130530567	0,03683	NA	NA
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0,845572287	0,22579	0,753145233	0,00368	NA	NA
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0,87417862	0,4046	0,756283999	0,00339	NA	NA
1,040300267	0,88814	0,69399636	0,00014	NA	NA
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1,555092072	0,08261	1,195819797	0,02802	NA	NA
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1,054822317	0,80767	0,839149637	0,0212	NA	NA
0,934975198	0,67988	0,752623374	0,00148	NA	NA
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0,697855382	0,33911	0,466516496	0,00043	NA	NA
1,025978145	0,83597	0,8962667	0,02305	NA	NA
0,965267025	0,85311	0,840313752	0,00641	NA	NA
0,974679631	0,79075	1,139183377	0,02585	NA	NA
0,997231251	0,98076	0,893165852	0,04837	NA	NA
1,170398641	0,42736	0,866336856	0,03291	NA	NA
0,915099168	0,2701	0,870550563	0,00942	NA	NA
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1,101905116	0,42227	1,120389214	0,04308	NA	NA
0,906261938	0,55662	0,793333843	0,0236	NA	NA
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1,048989328	0,60015	1,160703914	0,00337	NA	NA
0,89688816	0,57711	0,654742712	0,00001	NA	NA
0,91319825	0,45651	0,885153765	0,03927	NA	NA
0,940174203	0,33901	1,096571589	0,04105	NA	NA
1,21335356	0,06217	1,161508732	0,00178	NA	NA
0,725476104	0,22044	0,651573575	0,00017	NA	NA
0,832775771	0,09137	0,787307977	0,00119	NA	NA
1,014662547	0,90623	0,79774524	0,00117	NA	NA
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1,044635763	0,80956	0,846158597	0,0294	NA	NA
1,061423209	0,59234	0,831622098	0,00362	NA	NA
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1,038859103	0,69378	1,113421618	0,04819	NA	NA
0,817335328	0,51643	0,599569957	0,00005	NA	NA
0,945402117	0,7713	0,840896415	0,01917	NA	NA
1,074749173	0,46498	1,234562607	0,00184	NA	NA
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0,96996191	0,69982	1,180174343	0,00985	NA	NA
1,173648178	0,12414	1,107264584	0,02009	NA	NA
0,991029563	0,90163	0,868140228	0,03155	NA	NA
1,216722359	0,23219	1,204972315	0,03633	NA	NA
0,682073917	0,16407	0,602486157	0	NA	NA
0,929160674	0,39379	1,083725967	0,04601	NA	NA
1,082975046	0,56012	1,355664327	0,00058	NA	NA
1,171210181	0,20967	1,271031689	0,00108	NA	NA
1,132883885	0,2632	1,23370717	0,00277	NA	NA
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1,17772279	0,07286	1,120389214	0,01499	NA	NA
0,758383773	0,21686	0,590087172	0,00001	NA	NA
0,986916546	0,95036	0,81056512	0,0023	NA	NA
1,140763716	0,17604	1,128182137	0,04323	NA	NA
1,120389214	0,26169	1,189207115	0,01754	NA	NA
1,107264584	0,35725	1,160703914	0,02149	NA	NA
0,824733549	0,28903	0,818469182	0,00432	NA	NA
0,987600861	0,89475	1,136816973	0,00515	NA	NA
1,011853201	0,92059	1,126619228	0,02262	NA	NA
1,024556823	0,78966	1,237132479	0,00046	NA	NA
1,301341855	0,05566	1,112650121	0,00831	NA	NA
0,986916546	0,81288	1,101141598	0,02192	NA	NA
1,2397077	0,38562	0,697371833	0,0218	NA	NA
0,91383145	0,21716	0,918276162	0,03516	NA	NA
1,057750964	0,67749	0,872362706	0,02258	NA	NA
0,976708529	0,76133	0,921464186	0,03466	NA	NA
0,662044455	0,10091	0,772175133	0,00837	NA	NA
1,017479692	0,85503	1,108800644	0,03098	NA	NA
1,400556321	0,15441	1,179356592	0,04143	NA	NA
1,158292806	0,09497	1,170398641	0,0221	NA	NA
1,120389214	0,42656	1,199139914	0,00312	NA	NA
1,146312186	0,13794	1,231144413	0,01164	NA	NA
1,018891197	0,77485	0,876605721	0,00488	NA	NA
0,961927455	0,82971	0,735603373	0,00001	NA	NA
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1,035264924	0,74476	1,112650121	0,01629	NA	NA
1,178539408	0,28738	0,8362464	0,003	NA	NA
0,767905135	0,1387	0,823020345	0,0134	NA	NA
1,227735684	0,1716	0,844986384	0,008	NA	NA

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0,757858283	0,05081	0,739181216	0,00225	NA	NA
1,055553718	0,45117	1,132883885	0,01106	NA	NA
0,90000193	0,18329	0,764718139	0,00316	NA	NA
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1,160703914	0,15635	1,147902414	0,03541	NA	NA
1,178539408	0,08313	1,140763716	0,0386	NA	NA
1,121943481	0,24708	1,189207115	0,01135	NA	NA
1,096571589	0,26908	1,200803427	0,00656	NA	NA
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1,246601194	0,05285	1,164733586	0,0243	NA	NA
1,105730653	0,29981	1,096571589	0,04854	NA	NA
1,085981856	0,35497	1,143930973	0,02866	NA	NA
0,810003474	0,23855	0,744838732	0,0042	NA	NA
1,128182137	0,60443	0,796640096	0,01585	NA	NA
1,130530567	0,10939	1,120389214	0,02779	NA	NA
1,155085785	0,26646	1,390881972	0,00003	NA	NA
1,232852325	0,15165	1,181811547	0,00242	NA	NA
1,179356592	0,05562	1,092020546	0,03781	NA	NA
1,236275261	0,0532	1,172022284	0,00399	NA	NA
0,78024548	0,24068	0,651122095	0,00015	NA	NA
1,114966219	0,33685	1,191682575	0,00121	NA	NA
1,132098902	0,43739	1,195819797	0,00739	NA	NA
1,144724161	0,18912	1,153485605	0,00917	NA	NA
1,164733586	0,061	1,167967395	0,0166	NA	NA
0,840896415	0,30351	0,655196702	0,0003	NA	NA
1,027401439	0,77629	1,133669413	0,04233	NA	NA
1,024556823	0,76295	1,152686347	0,01867	NA	NA
1,097331938	0,17415	1,083725967	0,03859	NA	NA
0,901875378	0,28836	0,816203046	0,00797	NA	NA
0,914465089	0,29896	0,890692901	0,00896	NA	NA
1,163120042	0,08868	1,182631	0,00053	NA	NA
1,245737416	0,08653	1,20163605	0,0219	NA	NA
1,07549439	0,3268	1,104198847	0,04185	NA	NA
1,078480432	0,35973	1,151887642	0,00929	NA	NA
1,115739322	0,34068	1,209155676	0,0028	NA	NA
0,681601304	0,30077	0,4181232	0,00002	NA	NA
1,059218335	0,56102	1,181811547	0,00697	NA	NA
1,234562607	0,10246	1,231144413	0,00226	NA	NA
1,065108203	0,69239	1,168777249	0,0299	NA	NA
1,236275261	0,11297	1,22010051	0,01773	NA	NA
1,111879158	0,45689	1,309485423	0,00068	NA	NA
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1,157490217	0,19041	1,181811547	0,00997	NA	NA
0,8962667	0,38523	0,862741345	0,01877	NA	NA
0,794985251	0,17973	0,783497187	0,02839	NA	NA
1,185092771	0,44974	0,871154192	0,03081	NA	NA
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0,944092419	0,65187	0,757858283	0,00064	NA	NA
0,867538687	0,19819	0,888842681	0,01205	NA	NA
1,157490217	0,45441	0,823020345	0,00995	NA	NA
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1,156688184	0,27238	1,180174343	0,0052	NA	NA
1,084477409	0,38736	1,131314463	0,03004	NA	NA
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1,152686347	0,26777	1,243149669	0,00385	NA	NA
1,000693387	0,9952	0,849096246	0,03818	NA	NA
1,029540083	0,76572	0,844400887	0,00763	NA	NA
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1,131314463	0,15572	1,138394029	0,02715	NA	NA
1,22010051	0,18667	0,877821798	0,00081	NA	NA
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1,038139271	0,79119	0,815072332	0,00871	NA	NA
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0,79774524	0,30356	0,574349177	0,00039	NA	NA
0,97874165	0,88177	0,87175824	0,01176	NA	NA
1,080725402	0,40907	1,113421618	0,04148	NA	NA
0,926588062	0,46686	0,84323111	0,02359	NA	NA
1,159095952	0,08117	1,178539408	0,00152	NA	NA
1,076986376	0,53322	0,827596816	0,00081	NA	NA
0,891310496	0,10707	0,847332435	0,00496	NA	NA
0,756808396	0,06391	0,782411782	0,02363	NA	NA
0,928516852	0,333	0,887611337	0,00978	NA	NA
0,885153765	0,33073	0,755759964	0,01575	NA	NA
1,113421618	0,32753	1,264879542	0,00042	NA	NA
0,904379378	0,24664	0,81056512	0,00167	NA	NA
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0,877821798	0,62564	0,671286251	0,00038	NA	NA
1,085229372	0,3167	1,137605228	0,00049	NA	NA
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1,010451446	0,92763	1,138394029	0,01007	NA	NA
0,981459064	0,78205	0,905633983	0,04832	NA	NA
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0,995159722	0,98405	0,698823486	0,00185	NA	NA
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0,822450069	0,0617	0,820741609	0,0355	NA	NA
0,917639882	0,4483	0,866336856	0,00544	NA	NA
0,774855931	0,10881	0,843815796	0,0321	NA	NA
1,266634254	0,18065	1,174461971	0,01891	NA	NA
1,101141598	0,38549	1,167967395	0,00361	NA	NA
1,015366101	0,91075	0,734075318	0,00168	NA	NA
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0,866336856	0,45215	0,679714121	0,00244	NA	NA
0,744322628	0,20871	0,599569957	0,00017	NA	NA
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1,012554807	0,90252	0,811689581	0,00165	NA	NA
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0,895025071	0,58149	0,697855382	0,00001	NA	NA

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0,794985251	0,42458	0,575145947	0,00009	NA	NA
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1,278099363	0,05329	1,214194884	0,01325	NA	NA
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0,828170661	0,14476	0,677832163	0,00003	NA	NA
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0,820741609	0,21341	0,642157904	0,00001	NA	NA
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0,706127202	0,13274	0,758383773	0,00185	NA	NA
1,315854525	0,08736	1,179356592	0,03303	NA	NA
1,091263877	0,23185	1,118061851	0,04885	NA	NA
1,217566019	0,06835	1,178539408	0,00878	NA	NA
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0,820172911	0,20748	0,66158572	0	NA	NA
1,039579435	0,68443	1,080725402	0,04251	NA	NA
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0,831622098	0,40725	0,664342907	0,00665	NA	NA
0,810003474	0,2297	0,778624691	0,02232	NA	NA
1,118061851	0,3506	0,891310496	0,02261	NA	NA
1,082224645	0,34428	1,216722359	0,00278	NA	NA
1,101905116	0,22817	1,10343374	0,0427	NA	NA
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1,022428531	0,91102	0,787307977	0,0071	NA	NA
1,062159186	0,81548	0,79940583	0,03397	NA	NA
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1,012554807	0,90189	1,20163605	0,0462	NA	NA
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1,095811766	0,25504	1,133669413	0,0178	NA	NA
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1,064370182	0,57873	1,160703914	0,00644	NA	NA
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1,327765158	0,06727	1,312211255	0,00164	NA	NA
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1,048262476	0,65295	1,164733586	0,00756	NA	NA
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1,074004472	0,54877	1,090507733	0,02843	NA	NA
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1,129747215	0,3229	1,174461971	0,01766	NA	NA
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0,738669032	0,29851	0,716480825	0,00132	NA	NA
0,919550046	0,58175	0,78024548	0,00625	NA	NA
0,910669834	0,23195	0,847332435	0,01646	NA	NA
0,942131274	0,44628	1,120389214	0,03657	NA	NA
1,234562607	0,05679	1,128182137	0,0311	NA	NA
1,112650121	0,62595	0,646624466	0,00002	NA	NA
0,880869374	0,18061	0,790589117	0,00192	NA	NA
1,008352455	0,93865	0,841479482	0,04133	NA	NA
0,967947027	0,80475	0,810003474	0,02013	NA	NA
1,036701101	0,83251	0,812252396	0,01582	NA	NA
1,186736798	0,13038	1,25353302	0,00749	NA	NA
0,988285652	0,86299	0,837406488	0,01978	NA	NA
0,87539133	0,40045	0,799960128	0,00211	NA	NA
0,917004043	0,63974	0,796640096	0,00037	NA	NA
0,788946841	0,41191	0,726986259	0,00088	NA	NA
0,869947353	0,21415	0,844400887	0,01909	NA	NA
0,952637998	0,5516	0,87417862	0,02015	NA	NA
0,829894586	0,0793	0,813379198	0,0322	NA	NA
0,727994774	0,2449	0,726986259	0,00108	NA	NA
1,099616149	0,38151	1,129747215	0,00742	NA	NA
1,032398535	0,89995	0,70270935	0,00432	NA	NA
0,972654947	0,74103	1,169587664	0,00199	NA	NA
1,151089491	0,16831	1,202469249	0,00688	NA	NA
1,011152081	0,90516	1,16634937	0,00775	NA	NA
0,997231251	0,97721	0,870550563	0,01055	NA	NA
1,111879158	0,28921	1,143930973	0,03398	NA	NA
1,044635763	0,71725	1,111879158	0,0362	NA	NA
0,966606097	0,88671	0,750539549	0,00047	NA	NA
1,743516479	0,05075	1,249196126	0,03064	NA	NA
0,798851916	0,27646	0,661127303	0,00016	NA	NA
0,814507563	0,32649	0,735603373	0,00259	NA	NA
0,736623843	0,1352	0,599569957	0,00024	NA	NA
1,030253954	0,65514	1,112650121	0,03955	NA	NA
1,090507733	0,40479	1,120389214	0,04676	NA	NA
0,880869374	0,6093	0,796640096	0,01338	NA	NA
0,887611337	0,20022	0,821310701	0,00961	NA	NA
1,119612889	0,44596	1,235418637	0,01499	NA	NA
1,374588696	0,07662	1,156688184	0,02031	NA	NA
1,244011653	0,22419	0,844986384	0,01818	NA	NA
1,124278924	0,61938	0,735093668	0,00088	NA	NA
1,051901779	0,6074	1,169587664	0,00666	NA	NA
0,993781093	0,95906	1,120389214	0,0343	NA	NA
0,842062954	0,4239	0,680185426	0,00045	NA	NA
1,048989328	0,68252	1,234562607	0,03644	NA	NA
1,125838586	0,32034	0,905633983	0,01945	NA	NA
0,974004269	0,83223	1,158292806	0,01428	NA	NA
0,812815602	0,09724	0,78132788	0,00109	NA	NA
1,0132569	0,89353	1,161508732	0,00486	NA	NA
1,189207115	0,30023	0,827596816	0,01896	NA	NA

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0,780786493	0,2341	0,674551267	0,00006	NA	NA
1,050444544	0,59195	1,141554707	0,00843	NA	NA
1,361314116	0,14143	0,832198735	0,04064	NA	NA
1,118061851	0,47028	1,162314108	0,03324	NA	NA
0,778624691	0,27357	0,588045625	0,00003	NA	NA
0,790589117	0,05339	0,815072332	0,00734	NA	NA
0,90000193	0,62953	0,750539549	0,00116	NA	NA
1,00486382	0,94755	1,121166078	0,02906	NA	NA
0,959264119	0,82806	0,760489377	0,00545	NA	NA
0,977385766	0,87886	0,910038824	0,04971	NA	NA
1,033114388	0,77084	1,155886707	0,00845	NA	NA
1,00765376	0,94226	1,215036792	0,00827	NA	NA
1,070288698	0,43108	1,203303026	0,02635	NA	NA
1,037419937	0,65713	1,200803427	0,01162	NA	NA
0,86154616	0,5032	0,685391402	0,00129	NA	NA
1,209994089	0,10302	1,246601194	0,02323	NA	NA
1,242288282	0,0635	1,125838586	0,01825	NA	NA
1,20163605	0,12638	1,306765254	0,03617	NA	NA
0,874784765	0,60988	0,66158572	0,00135	NA	NA
1,054822317	0,67312	0,862741345	0,01445	NA	NA
0,971980988	0,71872	0,823020345	0,00042	NA	NA
1,011853201	0,93242	0,853226098	0,00143	NA	NA
1,172834949	0,3292	1,387992719	0,00125	NA	NA
1,118061851	0,51818	0,775393206	0,02429	NA	NA
0,958599438	0,75475	0,817335328	0,0302	NA	NA
0,899378312	0,29233	0,819604608	0,01731	NA	NA
1,058484395	0,62121	0,886996305	0,03934	NA	NA
1,191682575	0,07506	1,232852325	0,02029	NA	NA
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0,933032992	0,76015	0,630251696	0,00107	NA	NA
1,07997656	0,36372	1,244011653	0,00024	NA	NA
0,981459064	0,86488	0,893165852	0,0496	NA	NA
1,093535457	0,3614	1,257884972	0,00014	NA	NA
1,083725967	0,41306	1,082224645	0,04964	NA	NA
1,062159186	0,55944	1,216722359	0,0074	NA	NA
0,844400887	0,39909	0,815637493	0,04929	NA	NA
0,740206649	0,16546	0,582770599	0,00001	NA	NA
0,929160674	0,84774	0,687770909	0,01602	NA	NA
1,054091423	0,50325	1,105730653	0,04827	NA	NA
1,107264584	0,79598	0,505225723	0,00018	NA	NA
1,162314108	0,29583	1,128964405	0,02199	NA	NA
0,959264119	0,67708	0,892546971	0,02768	NA	NA
0,833353207	0,33881	0,556710809	0,01307	NA	NA
0,91319825	0,30936	0,931740429	0,04733	NA	NA
0,925304428	0,34462	0,864537231	0,00912	NA	NA
1,072516617	0,47932	1,121166078	0,03566	NA	NA
0,583174685	0,21375	0,739693755	0,00051	NA	NA
0,903752727	0,18935	0,844986384	0,00266	NA	NA
0,783497187	0,16712	0,639936207	0,00001	NA	NA
1,053361036	0,56369	1,147107024	0,03906	NA	NA
0,813943185	0,37524	0,736623843	0,03137	NA	NA
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0,67877249	0,06398	0,799960128	0,03382	NA	NA
0,885767519	0,27081	0,886381699	0,03081	NA	NA
1,011853201	0,86319	1,165541198	0,00705	NA	NA
1,051901779	0,62794	1,131314463	0,03602	NA	NA
0,71449707	0,30647	0,727994774	0,00043	NA	NA
0,79774524	0,08193	0,884540435	0,01155	NA	NA
1,011152081	0,89289	1,125838586	0,03242	NA	NA
0,979420298	0,85717	1,111879158	0,03398	NA	NA
1,095052471	0,35634	1,130530567	0,04695	NA	NA
0,952637998	0,56726	1,118061851	0,03785	NA	NA
0,711038705	0,13048	0,745355193	0,0074	NA	NA
1,132098902	0,12394	1,153485605	0,00939	NA	NA
1,182631	0,08258	1,123499903	0,0169	NA	NA
0,955945318	0,61312	1,132098902	0,03206	NA	NA
1,016070143	0,81434	1,163926534	0,00107	NA	NA
1,002081605	0,97433	0,884540435	0,00956	NA	NA
0,915733686	0,60264	0,747942879	0,00397	NA	NA
1,07549439	0,39494	1,118837101	0,0336	NA	NA
1,069547088	0,53269	1,136816973	0,00658	NA	NA
0,886996305	0,13811	0,875998315	0,04828	NA	NA
1,047536127	0,58436	1,137605228	0,00924	NA	NA
1,074004472	0,50579	0,87539133	0,04273	NA	NA
1,224336392	0,05384	1,110338834	0,01977	NA	NA
1,152686347	0,09442	1,317679952	0,00005	NA	NA
1,180174343	0,10135	1,185914499	0,02039	NA	NA
1,060687741	0,48234	1,151089491	0,00562	NA	NA
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0,633756261	0,1402	0,504525817	0,00002	NA	NA
0,967947027	0,7912	1,172022284	0,01386	NA	NA
0,904379378	0,24516	0,849684999	0,02581	NA	NA
0,841479482	0,30875	0,755236293	0,02507	NA	NA
1,039579435	0,57659	1,091263877	0,02605	NA	NA
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1,174461971	0,06154	1,155085785	0,04417	NA	NA
0,925946023	0,55104	1,172834949	0,0001	NA	NA
0,912565489	0,56848	0,727994774	0,00018	NA	NA
0,995159722	0,94239	1,119612889	0,03064	NA	NA
1,046810282	0,71994	0,78024548	0,00058	NA	NA
1,073260286	0,44314	1,155085785	0,01334	NA	NA
0,745355193	0,0887	0,667111585	0,00004	NA	NA
0,863339559	0,22819	0,773782497	0,02596	NA	NA
1,157490217	0,15574	1,146312186	0,01014	NA	NA
0,954621014	0,52799	1,263127262	0,00103	NA	NA
0,984866443	0,92523	0,730522189	0,00008	NA	NA
1,0181852	0,94166	0,746906729	0,00091	NA	NA
1,053361036	0,42997	1,106497353	0,01544	NA	NA
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0,734584317	0,07735	0,595428425	0	NA	NA
1,021720083	0,84201	0,866336856	0,00285	NA	NA
0,990342872	0,88326	0,798851916	0,00039	NA	NA
1,025267238	0,91018	0,784040454	0,00299	NA	NA

1,096571589	0,31365	1,176906737	0,00129	NA	NA
1,058484395	0,5547	1,130530567	0,0113	NA	NA
1,016070143	0,93638	0,762600827	0,00312	NA	NA
1,124278924	0,16374	1,180992661	0,0059	NA	NA
0,983502074	0,8052	1,128182137	0,02947	NA	NA
1,20163605	0,0704	1,161508732	0,01159	NA	NA
0,96727633	0,71541	1,139973273	0,0142	NA	NA
1,054822317	0,43422	1,128182137	0,02498	NA	NA
1,269270886	0,08016	1,261377409	0,00021	NA	NA
0,727994774	0,21759	0,573156093	0,00001	NA	NA
1,041021598	0,6415	1,104198847	0,03481	NA	NA
0,767373048	0,16449	0,765778999	0,00094	NA	NA
1,049716684	0,67648	1,121943481	0,04072	NA	NA
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1,092777739	0,30592	0,924663278	0,02796	NA	NA
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0,969289817	0,64903	0,800514811	0,00001	NA	NA
0,682073917	0,09878	0,555169417	0,00009	NA	NA
0,786762445	0,11959	0,639049682	0,0007	NA	NA
0,969289817	0,74376	1,114966219	0,03878	NA	NA
0,897510051	0,32822	0,8962667	0,02882	NA	NA
0,877213549	0,55156	0,712025098	0,01253	NA	NA
0,962594443	0,67612	0,84323111	0,00661	NA	NA
1,231998073	0,0884	1,242288282	0,00168	NA	NA
1,096571589	0,37667	1,192508872	0,009	NA	NA
0,947370071	0,83971	0,771640088	0,01174	NA	NA
0,993781093	0,98282	0,757333158	0,02016	NA	NA
0,846158597	0,33802	0,830470024	0,01351	NA	NA
0,724471077	0,13762	0,695923196	0,0002	NA	NA
1,115739322	0,57056	0,803850991	0,00058	NA	NA
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1,015366101	0,85942	1,099616149	0,04281	NA	NA
1,196648963	0,06436	1,159095952	0,02757	NA	NA
0,858565436	0,62763	0,71548826	0,00687	NA	NA
1,072516617	0,34692	1,196648963	0,0075	NA	NA
0,882091365	0,11014	0,854409741	0,00322	NA	NA
0,632001549	0,05422	0,517273791	0	NA	NA
0,999307093	0,99094	1,095811766	0,03501	NA	NA
1,422077411	0,27658	1,565908593	0,04295	NA	NA
1,25353302	0,0594	1,115739322	0,02407	NA	NA
0,905006463	0,55415	0,804966138	0,01149	NA	NA
1,066585781	0,47145	1,087488391	0,03372	NA	NA
1,050444544	0,5401	1,101141598	0,0488	NA	NA
1,0132569	0,89318	0,898132373	0,00959	NA	NA
0,937571096	0,35038	0,920187651	0,04505	NA	NA
0,627635996	0,09539	0,457232545	0	NA	NA
0,518350551	0,06419	0,471719125	0,0001	NA	NA
1,131314463	0,38724	1,183451022	0,01857	NA	NA
1,063632673	0,35137	1,141554707	0,00936	NA	NA
1,0453601	0,56078	1,120389214	0,03741	NA	NA
1,091263877	0,28457	1,257013375	0,00084	NA	NA
0,859160755	0,21107	0,853817714	0,00082	NA	NA
0,863938187	0,2419	0,804966138	0,0112	NA	NA
1,116512962	0,21053	1,246601194	0,00186	NA	NA
1,040300267	0,57905	1,110338834	0,04944	NA	NA
0,883315051	0,40874	0,846158597	0,02376	NA	NA
1,147902414	0,20402	1,252664439	0,00044	NA	NA
1,092777739	0,35492	1,209994089	0,00562	NA	NA
1,115739322	0,31781	1,136816973	0,00246	NA	NA
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1,008352455	0,93605	1,190031696	0,00148	NA	NA
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1,043911927	0,7592	0,859160755	0,01695	NA	NA
1,04608494	0,56038	1,159095952	0,01472	NA	NA
1,07997656	0,66275	0,744838732	0	NA	NA
1,136029265	0,05088	1,200803427	0,00695	NA	NA
1,009751298	0,96923	0,77271055	0,0095	NA	NA
1,073260286	0,42027	1,168777249	0,01843	NA	NA
1,133669413	0,18019	1,185092771	0,0028	NA	NA
1,183451022	0,06075	1,138394029	0,02237	NA	NA
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1,088997015	0,58383	0,828744904	0,00691	NA	NA
0,862741345	0,16237	0,836826243	0,0095	NA	NA
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0,936272247	0,36303	0,901875378	0,04041	NA	NA
1,111879158	0,26906	1,156688184	0,01416	NA	NA
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0,647072827	0,18914	0,6341957	0,00163	NA	NA
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1,044635763	0,62145	0,890075733	0,04728	NA	NA
0,880259014	0,51833	0,752101876	0,00884	NA	NA
0,767373048	0,15465	0,862143545	0,03156	NA	NA
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1,245737416	0,2633	1,113421618	0,01078	NA	NA
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1,096571589	0,23577	1,108800644	0,02869	NA	NA
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1,073260286	0,75441	0,841479482	0,04508	NA	NA

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0,976031761	0,93438	0,807760778	0,02865	NA	NA
0,580351957	0,0702	0,623300597	0,0003	NA	NA
1,039579435	0,68577	1,171210181	0,01522	NA	NA
1,132883885	0,13869	1,159899655	0,01272	NA	NA
0,892546971	0,10906	0,825877665	0,00226	NA	NA
1,053361036	0,53078	0,901875378	0,02484	NA	NA
1,016070143	0,8828	0,90312651	0,01749	NA	NA
0,918912883	0,5364	1,209155676	0,02	NA	NA
1,019597683	0,81071	0,924022572	0,01585	NA	NA
1,129747215	0,19381	1,164733586	0,0019	NA	NA
1,115739322	0,33166	1,168777249	0,00369	NA	NA
1,059952783	0,60296	1,195819797	0,01856	NA	NA
1,071773463	0,38571	1,129747215	0,01168	NA	NA
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1,200803427	0,05423	1,114193651	0,04634	NA	NA
0,940826108	0,59921	0,821880187	0,00061	NA	NA
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0,87539133	0,52894	0,650670928	0,00001	NA	NA
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0,788946841	0,34012	0,765248385	0,01111	NA	NA
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0,81056512	0,37302	0,574349177	0,00002	NA	NA
0,745355193	0,24043	0,720464874	0,02854	NA	NA
0,881480158	0,35525	0,728499557	0,0003	NA	NA
1,090507733	0,82988	0,786762445	0,00477	NA	NA
0,801069878	0,07301	0,856188285	0,00693	NA	NA
0,988970916	0,90003	0,897510051	0,03927	NA	NA
1,070288698	0,7514	0,855002178	0,02835	NA	NA
1,098092814	0,28276	1,252664439	0,00569	NA	NA
1,190031696	0,49564	0,838568184	0,03256	NA	NA
0,7944344	0,09422	0,773782497	0,00398	NA	NA
0,76101669	0,1218	0,846745312	0,01443	NA	NA
0,924022572	0,30262	0,906261938	0,03592	NA	NA
0,837987135	0,5019	0,700763725	0,00292	NA	NA
1,038859103	0,65908	0,898132373	0,02635	NA	NA
1,458009379	0,12185	1,229438867	0,03739	NA	NA
0,916368645	0,64269	0,749499801	0,00612	NA	NA
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0,996540263	0,97347	1,192508872	0,02201	NA	NA
1,114966219	0,30317	1,190856849	0,00517	NA	NA
0,828744904	0,12699	0,838568184	0,02727	NA	NA
1,000693387	0,99344	0,911933166	0,04126	NA	NA
1,341642225	0,10823	1,16634937	0,02669	NA	NA
0,734075318	0,10893	0,782411782	0,00388	NA	NA
1,043911927	0,58841	1,147902414	0,03247	NA	NA
1,071773463	0,67109	0,817902059	0,00312	NA	NA
0,777007269	0,27836	0,731028724	0,01488	NA	NA
1,216722359	0,12772	1,129747215	0,02855	NA	NA
0,773782497	0,07384	0,726482525	0,00211	NA	NA
1,070288698	0,65689	0,868140228	0,04686	NA	NA
0,678302164	0,0753	0,624598063	0,00036	NA	NA
1,101141598	0,35234	0,836826243	0,0151	NA	NA
0,917639882	0,25628	0,785672517	0,0061	NA	NA
1,062159186	0,66676	0,785672517	0,02018	NA	NA
1,110338834	0,27188	1,20163605	0,00683	NA	NA
1,087488391	0,48809	0,851453708	0,0223	NA	NA
0,828744904	0,21875	0,767373048	0,00086	NA	NA
0,974004269	0,79861	1,172834949	0,02499	NA	NA
1,040300267	0,59662	0,870550563	0,01102	NA	NA
1,101905116	0,81744	0,808320869	0,02972	NA	NA
1,067325338	0,71068	0,770571108	0,00027	NA	NA
0,877213549	0,67676	0,571173123	0,00059	NA	NA
1,085229372	0,41214	1,123499903	0,03947	NA	NA
0,841479482	0,39665	0,832775771	0,02862	NA	NA
0,937571096	0,6244	0,780786493	0,00506	NA	NA
0,983502074	0,95866	0,783497187	0,00494	NA	NA
1,057018041	0,37227	1,097331938	0,03801	NA	NA
0,622437118	0,08614	0,790041312	0,03556	NA	NA
0,910038824	0,62189	0,849096246	0,00988	NA	NA
0,804408371	0,1849	0,825877665	0,00712	NA	NA
0,825305409	0,49295	0,794985251	0,0444	NA	NA
0,859756486	0,26473	0,741747467	0,00023	NA	NA
0,811127156	0,05219	0,865736566	0,00705	NA	NA
0,852044095	0,32392	0,796640096	0,01897	NA	NA
0,889458994	0,42831	1,316766922	0,00119	NA	NA
0,91383145	0,45543	0,825877665	0,00035	NA	NA
1,100378609	0,73816	0,837406488	0,03582	NA	NA
1,285206337	0,07597	1,17609125	0,01795	NA	NA
0,828170661	0,37582	0,785128119	0,00924	NA	NA
0,984866443	0,86197	1,101141598	0,01354	NA	NA
1,091263877	0,67849	0,813379198	0,00506	NA	NA
0,924663278	0,57453	0,771640088	0,00096	NA	NA
0,87175824	0,33681	0,819036698	0,00383	NA	NA
1,146312186	0,202	1,163926534	0,02938	NA	NA
0,873572896	0,63096	0,709070018	0,00046	NA	NA
1,059952783	0,4804	1,118837101	0,03697	NA	NA
0,76418826	0,14715	0,679714121	0,00381	NA	NA
0,747424624	0,25571	0,631126016	0	NA	NA
1,078480432	0,48315	0,79774524	0,01042	NA	NA
0,955945318	0,83375	0,839731493	0,00923	NA	NA
0,844986384	0,21578	0,817335328	0,02504	NA	NA
0,751580739	0,05876	0,755236293	0,00401	NA	NA
0,841479482	0,17587	0,771640088	0,01344	NA	NA
1,027401439	0,93665	0,71548826	0,00683	NA	NA
0,984866443	0,94958	0,821880187	0,04902	NA	NA
0,933679945	0,6901	0,813943185	0,02	NA	NA
1,110338834	0,29092	1,127400412	0,04256	NA	NA
0,743806881	0,15046	0,845572287	0,03461	NA	NA

0,793333843	0,07842	0,86934456	0,02466	NA	NA
0,943438251	0,63403	0,882702996	0,02405	NA	NA
0,753145233	0,24508	0,748980467	0,00043	NA	NA
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1,042465761	0,86522	0,673616788	0,0113	NA	NA
0,801069878	0,15655	0,860352631	0,02914	NA	NA
1,048989328	0,46226	1,123499903	0,03784	NA	NA
1,190031696	0,08261	1,138394029	0,01098	NA	NA
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0,852044095	0,34017	0,7944344	0,00226	NA	NA
0,737645729	0,07251	0,645281245	0	NA	NA
1,175276328	0,10719	1,156688184	0,04364	NA	NA
1,170398641	0,10064	1,20163605	0,00076	NA	NA
1,184271612	0,05541	1,136029265	0,01933	NA	NA
0,957271458	0,7889	0,826450318	0,03802	NA	NA
0,812252396	0,16951	0,827023368	0,02517	NA	NA
0,770037174	0,40052	0,627635996	0,00079	NA	NA
1,489677463	0,06328	1,20163605	0,00663	NA	NA
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0,957935218	0,55832	0,837987135	0,00317	NA	NA
0,926588062	0,49859	0,680657058	0,00067	NA	NA
0,943438251	0,61288	0,888226796	0,00781	NA	NA
0,78132788	0,25763	0,565657231	0,0001	NA	NA
0,979420298	0,93432	0,650220073	0,00067	NA	NA
1,016774673	0,86416	1,126619228	0,03528	NA	NA
1,143930973	0,17256	0,89688816	0,04522	NA	NA
0,778624691	0,18612	0,76154437	0,00017	NA	NA
1,112650121	0,44452	1,171210181	0,00619	NA	NA
1,093535457	0,2164	1,102669163	0,03524	NA	NA
0,893785162	0,52806	0,801069878	0,0094	NA	NA
0,825877665	0,4903	0,630688704	0,00641	NA	NA
1,015366101	0,84005	1,117287138	0,01228	NA	NA
0,804966138	0,26846	0,736623843	0,00479	NA	NA
0,819604608	0,17716	0,801069878	0,00438	NA	NA
1,147902414	0,19875	1,17609125	0,00305	NA	NA
0,741233505	0,0535	0,634635443	0	NA	NA
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0,977385766	0,76325	0,888842681	0,0454	NA	NA
1,332374825	0,05616	1,162314108	0,00558	NA	NA
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0,852634892	0,29166	0,730016005	0,00241	NA	NA
1,037419937	0,55039	1,125058485	0,03047	NA	NA
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0,792784137	0,29011	0,65747138	0,00205	NA	NA
1,085981856	0,56707	1,235418637	0,01221	NA	NA
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0,800514811	0,25197	0,762600827	0,0095	NA	NA
0,893785162	0,3244	1,127400412	0,03824	NA	NA
1,092777739	0,70558	1,408344227	0,00194	NA	NA
0,881480158	0,1718	0,768970416	0,00029	NA	NA
0,721964598	0,09855	0,775930854	0,00353	NA	NA
0,846745312	0,44402	0,641712949	0,00004	NA	NA
0,918276162	0,75049	0,722966147	0,00673	NA	NA
1,263127262	0,11645	1,196648963	0,04436	NA	NA
0,974004269	0,8709	0,817335328	0,04132	NA	NA
0,97874165	0,80516	1,170398641	0,01236	NA	NA
1,052631155	0,75137	0,898132373	0,02087	NA	NA
1,038859103	0,86478	0,811689581	0,00216	NA	NA
0,905006463	0,49677	0,843815796	0,03846	NA	NA
1,081474763	0,69817	0,898132373	0,03397	NA	NA
1,048989328	0,57952	1,152686347	0,02598	NA	NA
0,886996305	0,49335	0,843815796	0,00847	NA	NA
1,095811766	0,43859	1,159095952	0,02393	NA	NA
0,898132373	0,55765	0,844400887	0,01863	NA	NA
0,824162085	0,18559	0,759435845	0,00327	NA	NA
1,266634254	0,0647	1,247465572	0,00461	NA	NA
0,759435845	0,18919	0,7031966	0,00426	NA	NA
0,890075733	0,36236	0,806082831	0,00779	NA	NA
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0,661127303	0,09836	0,756808396	0,00872	NA	NA
1,070288698	0,51544	0,792784137	0,0207	NA	NA
0,828170661	0,43304	0,748980467	0,00001	NA	NA
0,918276162	0,29022	0,869947353	0,00984	NA	NA
1,102669163	0,3584	1,255271991	0,00022	NA	NA
0,851453708	0,17287	0,837987135	0,01517	NA	NA
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0,895025071	0,28622	0,886381699	0,02629	NA	NA
0,898132373	0,59575	0,774855931	0,00015	NA	NA
1,379360922	0,08488	1,173648178	0,00746	NA	NA
1,099616149	0,36462	1,118061851	0,01261	NA	NA
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0,815072332	0,45965	0,782411782	0,01197	NA	NA
1,299539062	0,49756	0,825305409	0,02654	NA	NA
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0,806082831	0,07705	0,899378312	0,02681	NA	NA
1,162314108	0,14793	1,116512962	0,00619	NA	NA
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0,986232704	0,91349	0,762600827	0,00416	NA	NA
0,918276162	0,41363	0,869947353	0,03061	NA	NA
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1,251796459	0,0536	1,135242102	0,01996	NA	NA
1,080725402	0,41801	1,171210181	0,01166	NA	NA
0,853226098	0,32641	0,784584098	0,00211	NA	NA
0,951318276	0,77938	0,69399636	0,00359	NA	NA
1,129747215	0,12013	1,151887642	0,03083	NA	NA
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1,118837101	0,46211	0,890692901	0,03363	NA	NA
1,131314463	0,48345	0,885767519	0,03714	NA	NA
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0,920825697	0,32052	0,910038824	0,03592	NA	NA
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1,092777739	0,32055	1,147107024	0,01062	NA	NA
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1,154285418	0,21246	1,142346247	0,04006	NA	NA
1,112650121	0,29768	1,190031696	0,00745	NA	NA
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1,173648178	0,15828	1,194163187	0,00429	NA	NA
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0,85027416	0,26563	0,777546036	0,02775	NA	NA
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1,199971382	0,10113	1,172022284	0,01321	NA	NA
1,043911927	0,68117	1,132883885	0,0205	NA	NA
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0,886381699	0,22548	0,77916458	0,00887	NA	NA
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1,033830736	0,6956	1,180992661	0,00574	NA	NA
1,057018041	0,46549	1,199139914	0,00201	NA	NA

0,89688816	0,21739	0,853226098	0,00551	NA	NA
1,093535457	0,32516	1,215879283	0,00384	NA	NA
1,052631155	0,8067	0,783497187	0,0013	NA	NA
0,884540435	0,43958	0,778085177	0,00793	NA	NA
1,000693387	0,99673	0,863339559	0,01968	NA	NA
1,155886707	0,13795	1,157490217	0,01375	NA	NA
0,992404375	0,95427	0,782954296	0,00051	NA	NA
0,840313752	0,45288	0,782411782	0,00293	NA	NA
0,971307496	0,80844	1,128964405	0,03175	NA	NA
0,957935218	0,63774	1,129747215	0,03969	NA	NA
0,910669834	0,39113	0,824733549	0,01024	NA	NA
0,90312651	0,59838	0,762600827	0,03592	NA	NA
1,077733145	0,4683	0,877821798	0,02377	NA	NA
1,014662547	0,90311	1,209994089	0,00186	NA	NA
1,091263877	0,31117	1,113421618	0,02967	NA	NA
0,935623498	0,62092	1,190856849	0,04457	NA	NA
0,809442217	0,17886	0,864537231	0,039	NA	NA
0,816203046	0,07015	0,886381699	0,02815	NA	NA
0,840313752	0,28846	0,827596816	0,00572	NA	NA
1,011853201	0,88159	1,139973273	0,00226	NA	NA
0,988970916	0,91113	0,856188285	0,00176	NA	NA
1,123499903	0,26039	1,184271612	0,00491	NA	NA
0,880259014	0,63949	0,644834125	0,00001	NA	NA
0,986916546	0,87095	0,8962667	0,023	NA	NA
0,936272247	0,74837	0,826450318	0,04416	NA	NA
0,952637998	0,83298	0,713507253	0,0012	NA	NA
0,693515485	0,05571	0,702222438	0,00245	NA	NA
0,973329374	0,82969	0,802737389	0,00409	NA	NA
1,039579435	0,68939	0,901875378	0,01751	NA	NA
1,137605228	0,4205	0,87417862	0,01736	NA	NA
1,155886707	0,18459	1,185914499	0,0029	NA	NA
1,043911927	0,83687	0,876605721	0,00819	NA	NA
1,100378609	0,38682	1,205807828	0,00021	NA	NA
0,822450069	0,12376	0,757858283	0,00012	NA	NA
0,980099415	0,7681	0,87175824	0,00201	NA	NA
1,035982764	0,69423	1,194163187	0,00736	NA	NA
1,200803427	0,08634	1,129747215	0,01922	NA	NA
0,991029563	0,92817	1,148698355	0,0459	NA	NA
0,704660378	0,14184	0,787307977	0,00568	NA	NA
0,974004269	0,81157	1,119612889	0,04989	NA	NA
0,684441907	0,10723	0,708578698	0,00035	NA	NA
1,125838586	0,33063	1,180992661	0,02154	NA	NA
0,890692901	0,28995	0,856188285	0,02637	NA	NA
0,853226098	0,56078	0,693034943	0,01064	NA	NA
1,114966219	0,34969	1,209155676	0,00636	NA	NA
0,733058379	0,14535	0,859756486	0,02644	NA	NA
1,080725402	0,55116	1,112650121	0,04131	NA	NA
0,844400887	0,1784	0,808881348	0,02783	NA	NA
0,938221197	0,50063	0,79774524	0,04119	NA	NA
0,993781093	0,937	1,167158102	0,0114	NA	NA
0,849684999	0,18918	0,789493887	0,00094	NA	NA
1,038139271	0,74354	1,121166078	0,02307	NA	NA
0,76630998	0,22979	0,682073917	0,00018	NA	NA
0,89688816	0,27412	0,783497187	0,00065	NA	NA
0,713012859	0,06793	0,672217497	0,00012	NA	NA
0,923382311	0,55793	0,785672517	0,02522	NA	NA
0,847332435	0,15175	0,791685866	0,00446	NA	NA
1,149494848	0,1853	1,152686347	0,02723	NA	NA
1,080725402	0,66878	0,872967591	0,02309	NA	NA
1,190856849	0,09498	1,187559666	0,00612	NA	NA
0,717972255	0,18177	0,652929894	0,00149	NA	NA
1,088997015	0,37474	1,230291345	0,0016	NA	NA
0,74277646	0,19213	0,855002178	0,04375	NA	NA
1,002776436	0,98641	0,790041312	0,006	NA	NA
0,823591017	0,28605	0,774855931	0,03693	NA	NA
1,008352455	0,92908	1,175276328	0,0052	NA	NA
1,025978145	0,8149	1,116512962	0,04619	NA	NA
1,029540083	0,88018	0,774319028	0,00256	NA	NA
1,035264924	0,68681	1,118061851	0,03143	NA	NA
0,862143545	0,35713	0,842062954	0,01107	NA	NA
1,121166078	0,11863	1,118837101	0,0327	NA	NA
0,905633983	0,54531	0,634635443	0,00863	NA	NA
1,0453601	0,76875	0,734075318	0,01241	NA	NA
0,802181166	0,10552	0,785672517	0,00171	NA	NA
1,154285418	0,28849	1,141554707	0,02174	NA	NA
1,143930973	0,18426	1,150291893	0,01266	NA	NA
0,984866443	0,91109	0,846745312	0,02085	NA	NA
0,695923196	0,22635	0,552865327	0,00375	NA	NA
0,753145233	0,33096	0,631126016	0,00967	NA	NA
0,750019495	0,29072	0,61301743	0,00923	NA	NA
0,752101876	0,28458	0,651573575	0,01321	NA	NA
0,778085177	0,33502	0,645281245	0,01489	NA	NA
0,779704843	0,29661	0,698823486	0,01183	NA	NA
0,768970416	0,27046	0,676424116	0,01893	NA	NA
0,809442217	0,23316	0,733058379	0,006	NA	NA
0,852634892	0,36754	0,763658749	0,01718	NA	NA
0,724471077	0,52581	0,550570799	0,02094	NA	NA
0,699792933	0,30655	0,616853585	0,0082	NA	NA
1,02313747	0,824	1,208317843	0,00182	NA	NA
0,351354675	0,12935	0,285982743	0,00026	NA	NA
0,656560563	0,1403	0,670356296	0,01825	NA	NA
0,658839976	0,44501	0,625898229	0,0377	NA	NA
0,867538687	0,59343	0,648869383	0,03576	NA	NA
0,798298386	0,35643	0,639492791	0,00387	NA	NA
0,719965659	0,27204	0,571569168	0,00485	NA	NA
0,726986259	0,2355	0,570777354	0,0031	NA	NA
0,771640088	0,29044	0,657927263	0,00887	NA	NA
0,781869643	0,36115	0,671751713	0,01314	NA	NA
0,829319546	0,40949	0,705637922	0,00819	NA	NA
0,797192477	0,26449	0,703684188	0,01481	NA	NA
0,85027416	0,25935	0,801625329	0,00516	NA	NA
0,864537231	0,31661	0,780786493	0,0092	NA	NA
0,553632292	0,13021	0,607097442	0	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit
0,767373048	0,11227	0,681129017	0,01495	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit

0,885153765	0,59056	0,774855931	0,00145	NAA15	N(alpha)-acetyltransferase 15, NatA auxiliary subunit
0,809442217	0,464	0,819604608	0,00485	NAA16	N(alpha)-acetyltransferase 16, NatA auxiliary subunit
0,820741609	0,07684	0,790589117	0,01804	NAA25	N(alpha)-acetyltransferase 25, NatB auxiliary subunit
0,813943185	0,3489	0,835666959	0,00373	NAA30	N(alpha)-acetyltransferase 30, NatC catalytic subunit
0,798851916	0,05474	0,839149637	0,02042	NAA35	N(alpha)-acetyltransferase 35, NatC auxiliary subunit
0,724471077	0,31992	0,747942879	0,00004	NAA35	N(alpha)-acetyltransferase 35, NatC auxiliary subunit
0,912565489	0,26965	0,875998315	0,00222	NAA38	N(alpha)-acetyltransferase 38, NatC auxiliary subunit
0,96996191	0,8655	0,729004689	0,00128	NAA38	N(alpha)-acetyltransferase 38, NatC auxiliary subunit
1,132883885	0,44994	1,220946513	0,00591	NAA40	N(alpha)-acetyltransferase 40, NatD catalytic subunit, homolog (S. cerevisiae)
1,427014506	0,07642	1,269270886	0,00117	NAA40	N(alpha)-acetyltransferase 40, NatD catalytic subunit, homolog (S. cerevisiae)
0,838568184	0,55158	0,726482525	0,00012	NAA50	N(alpha)-acetyltransferase 50, NatE catalytic subunit
1,114966219	0,27187	1,142346247	0,02222	NAAA	N-acylethanolamine acid amidase
1,088997015	0,4182	1,185092771	0,012	NAALADL1	N-acetylated alpha-linked acidic dipeptidase-like 1
0,752623374	0,10472	0,802181166	0,00099	NAB1	NGFI-A binding protein 1 (EGR1 binding protein 1)
0,908778116	0,21787	0,923382311	0,04083	NACAP1	nascent-polypeptide-associated complex alpha polypeptide pseudogene 1
0,86934456	0,33447	0,830470024	0,00654	NACC2	NACC family member 2, BEN and BTB (POZ) domain containing
1,118061851	0,25856	1,186736798	0,01755	NACC2	NACC family member 2, BEN and BTB (POZ) domain containing
1,07549439	0,55558	1,132098902	0,04011	NADK	NAD kinase
0,846745312	0,35221	0,770571108	0,00126	NADKD1	NAD kinase domain containing 1
0,981459064	0,92119	0,77271055	0,01123	NADKD1	NAD kinase domain containing 1
0,739181216	0,06803	0,790041312	0,00107	NADSYN1	NAD synthetase 1
0,974004269	0,8942	0,756283999	0,00549	NAF1	nuclear assembly factor 1 homolog (S. cerevisiae)
1,424050196	0,05192	1,402499251	0,00067	NAGLU	N-acetylglucosaminidase, alpha
1,179356592	0,05301	1,111108729	0,04185	NAIF1	nuclear apoptosis inducing factor 1
0,943438251	0,77073	0,76630998	0,00877	NAMPT	nicotinamide phosphoribosyltransferase
0,906890329	0,65743	0,827023368	0,02189	NANOG	Nanog homeobox
1,042465761	0,87659	0,797192477	0,00415	NANOS1	nanos homolog 1 (Drosophila)
0,933679945	0,56788	0,870550563	0,02444	NANP	N-acetylneuraminic acid phosphatase
1	0,99878	0,76418826	0,00197	NAP1L1	nucleosome assembly protein 1-like 1
0,89688816	0,49525	0,848507902	0,01616	NAP1L1	nucleosome assembly protein 1-like 1
0,815072332	0,31634	0,848507902	0,01837	NAP1L1	nucleosome assembly protein 1-like 1
1,20664392	0,17733	0,853817714	0,02708	NAP1L2	nucleosome assembly protein 1-like 2
0,988285652	0,96392	0,713507253	0,00026	NAP1L5	nucleosome assembly protein 1-like 5
0,917004043	0,62906	0,810003474	0,04355	NAPG	N-ethylmaleimide-sensitive factor attachment protein, gamma
1,135242102	0,08921	1,106497353	0,03956	NAPSA	napsin A aspartic peptidase
0,813379198	0,16983	0,863938187	0,00148	NARS	asparaginyl-tRNA synthetase
0,740206649	0,08881	0,862741345	0,03128	NASP	nuclear autoantigenic sperm protein (histone-binding)
0,831045862	0,32865	0,711038705	0,00658	NAT1	N-acetyltransferase 1 (arylamine N-acetyltransferase)
0,898755127	0,48352	0,832775771	0,00882	NAV1	neuron navigator 1
1,009051634	0,96551	0,722465199	0,00019	NAV1	neuron navigator 1
1,16634937	0,06383	1,154285418	0,02132	NAV2-AS4	NAV2 antisense RNA 4 (non-protein coding)
0,866336856	0,09438	0,831045862	0,03828	NBAS	neuroblastoma amplified sequence
0,681601304	0,0721	0,712518807	0,02319	NBEAL1	neurobeachin-like 1
0,804966138	0,29331	0,90000193	0,03809	NBN	nibrin
0,940826108	0,68051	0,816203046	0,01626	NBN	nibrin
0,929160674	0,70423	0,81056512	0,0054	NBPF1	neuroblastoma breakpoint family, member 1
1,062895674	0,79058	1,601029621	0,00001	NBPF10	neuroblastoma breakpoint family, member 10
0,781869643	0,07723	0,827596816	0,00706	NBPF3	neuroblastoma breakpoint family, member 3
0,701735863	0,05258	0,811689581	0,01125	NCAPG	non-SMC condensin I complex, subunit G
0,856188285	0,26684	0,881480158	0,03058	NCBP2	nuclear cap binding protein subunit 2, 20kDa
0,734584317	0,21021	0,759435845	0,00332	NCKAP1	NCK-associated protein 1
0,724973416	0,35369	0,675955417	0,02327	NCKAP1	NCK-associated protein 1
1,033114388	0,90667	0,746906729	0,00038	NCKAP5	NCK-associated protein 5
1,052631155	0,61911	1,146312186	0,01979	NCKIPSD	NCK interacting protein with SH3 domain
0,784584098	0,17362	0,804408371	0,00151	NCOA1	nuclear receptor coactivator 1
0,955945318	0,56147	0,89688816	0,01308	NCOA3	nuclear receptor coactivator 3
1,167967395	0,10199	1,224336392	0,013	NCOA3	nuclear receptor coactivator 3
0,948026965	0,74563	0,851453708	0,01806	NCOR1	nuclear receptor corepressor 1
0,851453708	0,21129	0,855002178	0,01206	NCOR1	nuclear receptor corepressor 1
1,171210181	0,18731	1,179356592	0,01517	NCOR2	nuclear receptor corepressor 2
1,161508732	0,14407	1,264879542	0,00011	NCOR2	nuclear receptor corepressor 2
1,193335743	0,23321	1,190031696	0,0055	NCR1	natural cytotoxicity triggering receptor 1
0,965936329	0,78675	0,897510051	0,03815	NCR2	natural cytotoxicity triggering receptor 2
1,116512962	0,31457	1,117287138	0,01341	NCSTN	nicastrin
0,723969086	0,05444	0,736623843	0,00006	NDC80	NDC80 homolog, kinetochore complex component (S. cerevisiae)
0,743291492	0,0845	0,78024548	0,00038	NDE1	nudE nuclear distribution gene E homolog 1 (A. nidulans)
0,771640088	0,07654	0,806082831	0,00846	NDE1	nudE nuclear distribution gene E homolog 1 (A. nidulans)
0,778085177	0,16328	0,790041312	0,03633	NDFIP2	Nedd4 family interacting protein 2
0,90062598	0,63502	0,816768991	0,04677	NDFIP2	Nedd4 family interacting protein 2
1,190856849	0,10585	1,212512819	0,00307	NDOR1	NADPH dependent diflavin oxidoreductase 1
0,621574834	0,06064	0,813943185	0,0135	NDRG1	N-myc downstream regulated 1
0,978063473	0,86663	0,792234811	0,01009	NDST1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1
1,16634937	0,15289	0,859756486	0,00398	NDST2	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2
1,089752112	0,19444	1,095052471	0,04224	NDUFA10	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa
1,116512962	0,28412	1,149494848	0,00981	NDUFA2	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa
0,793883931	0,36949	1,175276328	0,03894	NDUFA3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa
0,867538687	0,22776	0,883927531	0,01278	NDUFA4	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa
0,777007269	0,17241	0,750019495	0,00038	NDUFA5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa
0,811127156	0,09266	0,883927531	0,01614	NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa
1,048989328	0,75821	1,20664392	0,00146	NDUFAF3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 3
0,887611337	0,58385	1,124278924	0,0283	NDUFB11	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17.3kDa
1,125838586	0,27508	0,906890329	0,04677	NDUFB4	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
1,101141598	0,57	0,868742185	0,02682	NDUFB6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa
0,823020345	0,05159	0,780786493	0,00006	NDUFB6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa
0,839731493	0,06537	0,860949188	0,00433	NDUFB8	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa
0,81056512	0,19206	0,855002178	0,01233	NDUFC1	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa
0,792234811	0,08262	0,817335328	0,01407	NDUFS1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)
0,733566672	0,21117	0,620713746	0,00074	NDUFS1	NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase)
0,615999037	0,34948	0,566834706	0,00001	NEAT1	nuclear paraspeckle assembly transcript 1 (non-protein coding)
0,57236208	0,05649	0,580351957	0,00001	NEBL	nebulette
1,011152081	0,89693	1,245737416	0,00053	NECAB2	N-terminal EF-hand calcium binding protein 2
1,189207115	0,23244	1,31494276	0,00064	NECAB3	N-terminal EF-hand calcium binding protein 3
1,057018041	0,63031	1,186736798	0,02234	NECAB3	N-terminal EF-hand calcium binding protein 3
0,929804943	0,73296	0,849096246	0,02463	NEDD1	neural precursor cell expressed, developmentally down-regulated 1
0,804408371	0,24938	0,755236293	0,0083	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like
0,960594864	0,60023	0,87539133	0,04204	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like
1,104198847	0,23259	1,143930973	0,0108	NEDD9	neural precursor cell expressed, developmentally down-regulated 9
0,883315051	0,48578	0,736113431	0,0461	NEGR1	neuronal growth regulator 1
1,156688184	0,17768	1,180174343	0,00115	NEIL3	nei endonuclease VIII-like 3 (E. coli)
0,71449707	0,11208	0,780786493	0,00036	NEK1	NIMA (never in mitosis gene a)-related kinase 1
1,084477409	0,39675	1,133669413	0,03213	NEK1	NIMA (never in mitosis gene a)-related kinase 1
1,194163187	0,0786	1,247465572	0,00848	NEK6	NIMA (never in mitosis gene a)-related kinase 6
1,062895674	0,51005	1,200803427	0,00733	NEK6	NIMA (never in mitosis gene a)-related kinase 6
1,063632673	0,38911	1,135242102	0,02378	NEK6	NIMA (never in mitosis gene a)-related kinase 6

0,846158597	0,37258	0,821880187	0,01315	NEK7	NIMA (never in mitosis gene a)-related kinase 7
1,056285625	0,55355	1,151089491	0,01146	NEK9	NIMA (never in mitosis gene a)- related kinase 9
0,957271458	0,7099	1,199139914	0,00716	NEK9	NIMA (never in mitosis gene a)- related kinase 9
0,68491649	0,25722	0,841479482	0,04901	NEMF	nuclear export mediator factor
0,730522189	0,10072	0,799960128	0,02061	NEMF	nuclear export mediator factor
0,628942486	0,28713	0,770571108	0,00006	NEMF	nuclear export mediator factor
0,840896415	0,45724	0,808320869	0,01551	NEMF	nuclear export mediator factor
1,234562607	0,05066	1,178539408	0,00577	NENF	neudesin neurotrophic factor
1,059218335	0,47282	1,157490217	0,03186	NENF	neudesin neurotrophic factor
0,952637998	0,78394	1,20163605	0,01592	NENF	neudesin neurotrophic factor
1,080725402	0,26725	1,090507733	0,03143	NEO1	neogenin 1
1,350037985	0,07407	1,576800348	0,00087	NES	nestin
1,035982764	0,84518	0,76154437	0,00487	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2
0,890075733	0,20249	0,787307977	0,0073	NETO2	neuropilin (NRP) and tolloid (TLL)-like 2
1,491744027	0,16952	1,564823563	0,00003	NEU1	sialidase 1 (lysosomal sialidase)
1,050444544	0,59927	1,149494848	0,0059	NEU2	sialidase 2 (cytosolic sialidase)
1,071773463	0,44766	1,160703914	0,03448	NEU3	sialidase 3 (membrane sialidase)
1,383190629	0,08619	1,182631	0,02013	NEURL1B	neuralized homolog 1B (Drosophila)
0,951977908	0,76394	1,196648963	0,03133	NEURL4	neuralized homolog 4 (Drosophila)
1,138394029	0,23911	1,127400412	0,01535	NEUROD4	neurogenic differentiation 4
1,076240125	0,53654	1,316766922	0,00011	NF1	neurofibromin 1
1,060687741	0,62392	1,183451022	0,0081	NF1	neurofibromin 1
1,009751298	0,90714	0,839731493	0,00351	NF2	neurofibromin 2 (merlin)
1,039579435	0,738	0,84323111	0,03439	NF2	neurofibromin 2 (merlin)
0,640823962	0,15928	0,577142709	0,00009	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive
0,70759708	0,07748	0,830470024	0,00447	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive
1,264879542	0,05524	1,20664392	0,00544	NFATC1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
1,25092908	0,13565	1,230291345	0,00553	NFATC1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
1,049716684	0,64937	1,180992661	0,01121	NFATC2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
0,816203046	0,37215	0,776468875	0,00834	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein
0,854409741	0,36342	1,140763716	0,04012	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
1,194163187	0,06635	1,138394029	0,00578	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
1,180174343	0,17076	1,197478705	0,04222	NFATC4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
0,87417862	0,39697	0,787853886	0,00438	NFIA	nuclear factor I/A
0,975355462	0,91558	0,731028724	0,00089	NFIA	nuclear factor I/A
0,828170661	0,24441	0,811689581	0,01313	NFIA	nuclear factor I/A
0,987600861	0,88735	0,788946841	0,00023	NFIB	nuclear factor I/B
0,866937564	0,68248	0,694477568	0,01369	NFIB	nuclear factor I/B
0,672683604	0,08007	0,806641759	0,03139	NFIC	nuclear factor I/C (CCAAT-binding transcription factor)
1,089752112	0,60699	1,219255094	0,02733	NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
0,929160674	0,52626	1,162314108	0,00775	NFKBID	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, delta
1,230291345	0,21332	1,341642225	0,00008	NFKBID	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, delta
0,767373048	0,05883	0,79774524	0,00222	NFU1	NFU1 iron-sulfur cluster scaffold homolog (S. cerevisiae)
0,969289817	0,87645	0,738669032	0,00065	NFYB	nuclear transcription factor Y, beta
0,840313752	0,44749	0,790589117	0,01601	NFYB	nuclear transcription factor Y, beta
0,961260928	0,72555	1,17772279	0,01137	NFYC	nuclear transcription factor Y, gamma
0,917004043	0,39538	0,839149637	0,00862	NFYC	nuclear transcription factor Y, gamma
0,890075733	0,42792	0,770037174	0,00278	NGDN	neuroguidin, EIF4E binding protein
0,815072332	0,12705	0,816768991	0,01174	NGEF	neuronal guanine nucleotide exchange factor
0,849684999	0,28035	0,886996305	0,01667	NGRN	neugrin, neurite outgrowth associated
0,8362464	0,52337	0,599569957	0,00002	NHLH2	nescient helix loop helix 2
0,949342121	0,81309	0,830470024	0,03115	NHLRC2	NHL repeat containing 2
0,936272247	0,73737	0,844400887	0,02622	NHLRC3	NHL repeat containing 3
0,684441907	0,18171	0,665725807	0,00024	NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)
0,7944344	0,13669	0,78132788	0,00094	NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies)
0,922103118	0,40659	1,210833084	0,00067	NHSL2	NHS-like 2
1,138394029	0,28062	1,173648178	0,02353	NICN1	nicolin 1
0,992404375	0,93439	1,120389214	0,038	NID1	nidogen 1
1,616641738	0,05607	1,59549048	0,00201	NID1	nidogen 1
0,925946023	0,41346	0,865136691	0,02702	NIF3L1	NIF3 NGG1 interacting factor 3-like 1 (S. pombe)
0,846158597	0,41076	0,84323111	0,00675	NIN	ninein (GSK3B interacting protein)
0,997922719	0,98857	1,236275261	0,00173	NINJ1	ninjurin 1
0,984184022	0,91759	1,167158102	0,02832	NINJ2	ninjurin 2
0,62546454	0,07216	0,573553512	0	NIP7	nuclear import 7 homolog (S. cerevisiae)
0,751580739	0,16981	0,610050255	0	NIP7	nuclear import 7 homolog (S. cerevisiae)
0,562919293	0,05809	0,757333158	0,0487	NIPBL	Nipped-B homolog (Drosophila)
0,837406488	0,48644	0,738157203	0,00207	NIPBL	Nipped-B homolog (Drosophila)
1,033830736	0,84906	1,176906737	0,01139	NIPSNAP1	nipsnap homolog 1 (C. elegans)
0,70027816	0,13729	0,608361179	0,00123	NIPSNAP3A	nipsnap homolog 3A (C. elegans)
1,110338834	0,15686	1,147902414	0,0478	NISCH	nischarin
0,945402117	0,70344	1,097331938	0,04162	NIT1	nitrilase 1
1,032398535	0,62121	1,152686347	0,00877	NKAIN4	Na+/K+ transporting ATPase interacting 4
0,86154616	0,33979	0,858565436	0,01986	NKAP	NFKB activating protein
0,924022572	0,59218	0,845572287	0,00442	NKIRAS1	NFKB inhibitor interacting Ras-like 1
0,665264521	0,16478	0,739181216	0,0018	NKTR	natural killer-tumor recognition sequence
0,790041312	0,53889	0,665725807	0,00046	NKTR	natural killer-tumor recognition sequence
1,003471749	0,98102	0,879039561	0,00563	NKTR	natural killer-tumor recognition sequence
0,988970916	0,97468	0,590496331	0,00104	NKTR	natural killer-tumor recognition sequence
1,196648963	0,17767	1,28877463	0,00237	NKX1-1	NK1 homeobox 1
1,04608494	0,65077	0,862741345	0,02734	NKX3-1	NK3 homeobox 1
1,187559666	0,1333	1,297738767	0,00041	NKX3-1	NK3 homeobox 1
1,17609125	0,12763	1,181811547	0,0042	NKX3-1	NK3 homeobox 1
1,00695555	0,946	1,092777739	0,04002	NKX6-3	NK6 homeobox 3
1,095052471	0,3958	1,121166078	0,03998	NLE1	notchless homolog 1 (Drosophila)
1,147902414	0,17638	1,147902414	0,0054	NLGN2	neuroligin 2
1,088242442	0,64756	1,328685814	0,01991	NLGN2	neuroligin 2
0,925946023	0,67988	0,853817714	0,0186	NLK	nemo-like kinase
0,892546971	0,1509	0,884540435	0,01499	NLN	neurolysin (metallopeptidase M3 family)
0,90062598	0,31212	0,778624691	0,00003	NLN	neurolysin (metallopeptidase M3 family)
0,720464874	0,07921	0,743806881	0,00016	NLN	neurolysin (metallopeptidase M3 family)
1,143138335	0,32989	1,225185332	0,00032	NLRP12	NLR family, pyrin domain containing 12
1,065846736	0,47878	1,21167266	0,01451	NLRP13	NLR family, pyrin domain containing 13
1,052631155	0,5666	1,118837101	0,03351	NLRP4	NLR family, pyrin domain containing 4
0,985549337	0,87153	1,159899655	0,01022	NLRP5	NLR family, pyrin domain containing 5
1,176906737	0,23879	1,162314108	0,02106	NMB	neuromedin B
0,889458994	0,52852	0,89688816	0,02562	NMD3	NMD3 homolog (S. cerevisiae)
0,708087719	0,07442	0,874784765	0,02791	NME1	non-metastatic cells 1, protein (NM23A) expressed in
0,808320869	0,0704	0,807201075	0,00409	NMI	N-myc (and STAT) interactor
0,860949188	0,13372	1,137605228	0,0328	NMNAT2	nicotinamide nucleotide adenylyltransferase 2
0,738669032	0,06247	0,670356296	0,00005	NMT2	N-myristoyltransferase 2
0,842062954	0,51178	0,76418826	0,02229	NMT2	N-myristoyltransferase 2
1,28788163	0,33933	1,666706414	0,00132	NNMT	nicotinamide N-methyltransferase
0,637722196	0,0887	0,84264683	0,00337	NOB1	NIN1/RPN12 binding protein 1 homolog (S. cerevisiae)
0,710546022	0,05449	0,860949188	0,03573	NOC2L	nucleolar complex associated 2 homolog (S. cerevisiae)

0,948684315	0,74272	0,833353207	0,00141	NOC3L	nucleolar complex associated 3 homolog (S. cerevisiae)
0,976708529	0,82045	1,168777249	0,01959	NOD1	nucleotide-binding oligomerization domain containing 1
1,04608494	0,67044	1,121943481	0,04582	NOD1	nucleotide-binding oligomerization domain containing 1
0,893785162	0,1767	0,873572896	0,00401	NOL10	nucleolar protein 10
0,778085177	0,20418	0,756808396	0,00008	NOL11	nucleolar protein 11
0,813943185	0,15304	0,856781955	0,01305	NOL7	nucleolar protein 7, 27kDa
0,855002178	0,20423	0,897510051	0,04388	NOL7	nucleolar protein 7, 27kDa
0,754190038	0,22227	0,870550563	0,02946	NOL8	nucleolar protein 8
0,793883931	0,09979	0,757858283	0,00623	NOM1	nucleolar protein with MIF4G domain 1
0,846158597	0,31544	0,782954296	0,0005	NOM1	nucleolar protein with MIF4G domain 1
0,885767519	0,18954	0,846745312	0,00693	NOP14	NOP14 nucleolar protein homolog (yeast)
0,770571108	0,08811	0,839149637	0,00629	NOP58	NOP58 ribonucleoprotein homolog (yeast)
0,902500727	0,2215	0,837406488	0,01382	NOS1	nitric oxide synthase 1 (neuronal)
1,00486382	0,9699	1,16634937	0,00789	NOS1	nitric oxide synthase 1 (neuronal)
1,094293701	0,15729	1,146312186	0,02176	NOS1	nitric oxide synthase 1 (neuronal)
0,930449658	0,60412	1,143138335	0,03411	NOSIP	nitric oxide synthase interacting protein
1,22858698	0,0764	1,38991822	0,00006	NOSTRIN	nitric oxide synthase trafficker
0,671751713	0,16764	0,613867842	0	NOV	nephroblastoma overexpressed gene
1,182631	0,20975	1,146312186	0,0282	NOVA1	neuro-oncological ventral antigen 1
0,976708529	0,77356	0,882091365	0,00802	NPAS2	neuronal PAS domain protein 2
0,882091365	0,59161	0,77271055	0,00423	NPAS2	neuronal PAS domain protein 2
0,952637998	0,64437	1,281647924	0,00478	NPAS3	neuronal PAS domain protein 3
1,22010051	0,09171	1,198309021	0,00837	NPB	neuropeptide B
1,189207115	0,09549	1,143138335	0,01332	NPBWR2	neuropeptides B/W receptor 2
0,796088099	0,1233	0,770571108	0,00101	NPC1	Niemann-Pick disease, type C1
0,865136691	0,6251	1,270150983	0,00256	NPC2	Niemann-Pick disease, type C2
0,920187651	0,61566	0,76101669	0,00084	NPEPL1	aminopeptidase-like 1
0,664803554	0,05959	0,828170661	0,01268	NPEPPS	aminopeptidase puromycin sensitive
0,66158572	0,11018	0,712518807	0,01268	NPEPPS	aminopeptidase puromycin sensitive
0,91319825	0,33158	1,210833084	0,02235	NPFF	neuropeptide FF-amide peptide precursor
1,174461971	0,1451	1,111108729	0,04697	NPHP4	nephronophthisis 4
1,332374825	0,51587	1,366987452	0,0006	NPIPL3	nuclear pore complex interacting protein-like 3
1,182631	0,27811	1,226884977	0,04817	NPL	N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)
0,777007269	0,16442	0,827023368	0,00137	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)
1,136816973	0,27298	1,187559666	0,00573	NPM2	nucleophosmin/nucleoplasmin 2
1,163120042	0,31734	1,265756594	0,00606	NPPA	natriuretic peptide A
1,132098902	0,2486	1,274560627	0,0166	NPRL3	nitrogen permease regulator-like 3 (S. cerevisiae)
1,143930973	0,10879	1,125058485	0,02412	NR0B2	nuclear receptor subfamily 0, group B, member 2
0,827596816	0,65614	0,633317127	0,00079	NR1D2	nuclear receptor subfamily 1, group D, member 2
0,575145947	0,053	0,763129604	0,0159	NR1D2	nuclear receptor subfamily 1, group D, member 2
1,412254404	0,06272	1,375541818	0,00022	NR1H3	nuclear receptor subfamily 1, group H, member 3
1,169587664	0,13326	1,134455485	0,02485	NR1I2	nuclear receptor subfamily 1, group I, member 2
0,79774524	0,30656	0,785672517	0,01936	NR2C1	nuclear receptor subfamily 2, group C, member 1
1,160703914	0,32409	0,842062954	0,00671	NR2C1	nuclear receptor subfamily 2, group C, member 1
1,095052471	0,30034	1,185092771	0,0116	NR2F1	nuclear receptor subfamily 2, group F, member 1
1,466116757	0,089	1,377450046	0,00974	NR2F2	nuclear receptor subfamily 2, group F, member 2
1,143138335	0,11823	1,355664327	0,0133	NR4A3	nuclear receptor subfamily 4, group A, member 3
1,104964485	0,26663	1,139183377	0,0033	NR6A1	nuclear receptor subfamily 6, group A, member 1
1,070288698	0,5594	1,143138335	0,04362	NR6A1	nuclear receptor subfamily 6, group A, member 1
1,056285625	0,41892	1,095052471	0,0181	NRAP	nebulin-related anchoring protein
0,798298386	0,10544	0,789493887	0,0103	NRARP	NOTCH-regulated ankyrin repeat protein
0,78024548	0,08136	0,811127156	0,00212	NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog
0,910038824	0,60195	0,738669032	0,01219	NRBF2	nuclear receptor binding factor 2
0,91383145	0,75986	0,681601304	0,03085	NRBF2	nuclear receptor binding factor 2
1,466116757	0,07947	1,374588696	0,04741	NRCAM	neuronal cell adhesion molecule
1,117287138	0,30774	1,220946513	0,00881	NRF1	nuclear respiratory factor 1
0,720964436	0,12111	0,711038705	0,00081	NRIP1	nuclear receptor interacting protein 1
0,735603373	0,46535	0,59295725	0,00001	NRIP1	nuclear receptor interacting protein 1
1,257884972	0,05696	1,314031627	0,00141	NRIP3	nuclear receptor interacting protein 3
1,095811766	0,31949	1,121166078	0,03246	NRL	neural retina leucine zipper
1,242288282	0,07025	1,175276328	0,01478	NRP1	neuropilin 1
0,940826108	0,56134	1,216722359	0,01805	NRP2	neuropilin 2
0,989656656	0,91894	1,147107024	0,01038	NSAP11	nervous system abundant protein 11
1,161508732	0,55875	0,792784137	0,00259	NSD1	nuclear receptor binding SET domain protein 1
0,840896415	0,12614	0,87417862	0,04994	NSFL1C	NSFL1 (p97) cofactor (p47)
0,641712949	0,185	0,819036698	0,00226	NSFL1C	NSFL1 (p97) cofactor (p47)
0,927230546	0,61314	0,849684999	0,00445	NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor
0,716480825	0,17028	0,805524291	0,00632	NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor
0,788946841	0,10655	0,877213549	0,02009	NSMCE2	non-SMC element 2, MMS21 homolog (S. cerevisiae)
0,904379378	0,45399	0,885767519	0,0043	NSMCE4A	non-SMC element 4 homolog A (S. cerevisiae)
0,882091365	0,45563	0,822450069	0,02971	NSMCE4A	non-SMC element 4 homolog A (S. cerevisiae)
0,849684999	0,42365	1,135242102	0,04189	NSUN5	NOP2/Sun domain family, member 5
1,111108729	0,43631	1,311302014	0,00257	NSUN5P1	NOP2/Sun domain family, member 5 pseudogene 1
1,059952783	0,72993	1,227735684	0,00594	NSUN5P1	NOP2/Sun domain family, member 5 pseudogene 1
0,920187651	0,63751	1,230291345	0,00258	NSUN5P2	NOP2/Sun domain family, member 5 pseudogene 2
0,771105413	0,14233	0,757333158	0,00033	NT5DC1	5'-nucleotidase domain containing 1
0,824162085	0,30296	0,649319301	0,00001	NT5DC1	5'-nucleotidase domain containing 1
1,002081605	0,97894	0,85797053	0,01199	NTF4	neurotrophin 4
0,932386486	0,54734	1,119612889	0,04319	NTN1	netrin 1
1,262252032	0,15241	1,221793102	0,00804	NTN1	netrin 1
1,043188594	0,6646	1,140763716	0,00522	NTN1	netrin 1
0,954621014	0,53232	1,149494848	0,01064	NTN5	netrin 5
0,825305409	0,19924	0,832775771	0,00071	NTPCR	nucleoside-triphosphatase, cancer-related
1,185914499	0,08412	1,183451022	0,00584	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
1,156688184	0,12454	1,155886707	0,0085	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
0,937571096	0,79903	1,265756594	0,0231	NUCB1	nucleobindin 1
0,804966138	0,2283	0,876605721	0,03772	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1
0,754712984	0,23601	0,734584317	0,01431	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1
0,59295725	0,05235	0,693515485	0,00143	NUCKS1	nuclear casein kinase and cyclin-dependent kinase substrate 1
1,126619228	0,16901	1,121943481	0,01015	NUDT10	nudix (nucleoside diphosphate linked moiety X)-type motif 10
0,982820599	0,92156	0,670356296	0,00082	NUDT12	nudix (nucleoside diphosphate linked moiety X)-type motif 12
0,845572287	0,24588	0,755236293	0,00193	NUDT16	nudix (nucleoside diphosphate linked moiety X)-type motif 16
1,111879158	0,18756	1,203303026	0,00766	NUDT16	nudix (nucleoside diphosphate linked moiety X)-type motif 16
0,882091365	0,17084	0,856781955	0,03466	NUDT16L1	nudix (nucleoside diphosphate linked moiety X)-type motif 16-like 1
1,019597683	0,81727	1,147107024	0,00606	NUDT16P1	nudix (nucleoside diphosphate linked moiety X)-type motif 16 pseudogene 1
0,921464186	0,63624	0,832198735	0,00152	NUDT19	nudix (nucleoside diphosphate linked moiety X)-type motif 19
0,783497187	0,21411	0,758383773	0,00819	NUDT21	nudix (nucleoside diphosphate linked moiety X)-type motif 21
0,946713631	0,79398	1,29056249	0,00158	NUDT22	nudix (nucleoside diphosphate linked moiety X)-type motif 22
0,789493887	0,25768	0,737134609	0,00046	NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5
0,951977908	0,73837	0,823591017	0,02991	NUDT7	nudix (nucleoside diphosphate linked moiety X)-type motif 7
0,755759964	0,08588	0,832198735	0,00143	NUDT9	nudix (nucleoside diphosphate linked moiety X)-type motif 9
0,817902059	0,26653	0,684441907	0,00112	NUF2	NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae)
0,865136691	0,25507	0,802737389	0,0081	NUFIP1	nuclear fragile X mental retardation protein interacting protein 1
0,907519155	0,50673	0,724471077	0,00007	NUFIP1	nuclear fragile X mental retardation protein interacting protein 1

1,038859103	0,78898	0,859756486	0,00607	NUFIP1	nuclear fragile X mental retardation protein interacting protein 1
0,990342872	0,96144	0,828170661	0,02589	NUFIP2	nuclear fragile X mental retardation protein interacting protein 2
0,763658749	0,06358	0,786217292	0,00107	NUFIP2	nuclear fragile X mental retardation protein interacting protein 2
0,881480158	0,3362	0,821880187	0,02413	NUFIP2	nuclear fragile X mental retardation protein interacting protein 2
0,834509281	0,20279	0,770571108	0,00159	NUMA1	nuclear mitotic apparatus protein 1
1,159095952	0,39399	0,804408371	0,01952	NUMB	numb homolog (Drosophila)
0,863938187	0,13618	0,843815796	0,04041	NUMBL	numb homolog (Drosophila)-like
0,835666959	0,4398	0,800514811	0,00197	NUP107	nucleoporin 107kDa
0,707106781	0,07305	0,826450318	0,00797	NUP133	nucleoporin 133kDa
0,758383773	0,23268	0,691595315	0,00034	NUP153	nucleoporin 153kDa
0,820741609	0,23167	0,725476104	0,00035	NUP153	nucleoporin 153kDa
0,726482525	0,05536	0,760489377	0,00444	NUP155	nucleoporin 155kDa
0,853226098	0,50459	0,768437591	0,01861	NUP160	nucleoporin 160kDa
0,831045862	0,22005	0,836826243	0,04951	NUP205	nucleoporin 205kDa
0,898755127	0,09172	0,862143545	0,01474	NUP205	nucleoporin 205kDa
1,35754498	0,12661	1,497960934	0,00002	NUP210	nucleoporin 210kDa
0,84264683	0,11683	0,887611337	0,02441	NUP37	nucleoporin 37kDa
0,934975198	0,54601	0,904379378	0,00735	NUP54	nucleoporin 54kDa
0,765248385	0,16574	0,788400174	0,00165	NUP54	nucleoporin 54kDa
1,162314108	0,14459	0,816768991	0,01756	NUP88	nucleoporin 88kDa
0,872967591	0,29478	0,857376037	0,01236	NUP98	nucleoporin 98kDa
0,780786493	0,23428	0,781869643	0,00668	NUP98	nucleoporin 98kDa
0,910038824	0,65302	0,760489377	0,00028	NUPL1	nucleoporin like 1
0,646176415	0,0736	0,542238704	0,00005	NUPL1	nucleoporin like 1
1,22858698	0,52678	0,735603373	0,00053	NUPL1	nucleoporin like 1
0,946057647	0,48361	1,170398641	0,02439	NXF2	nuclear RNA export factor 2
1,237990291	0,11894	1,127400412	0,04856	NXF3	nuclear RNA export factor 3
1,120389214	0,16389	1,260503392	0,00121	NXPH3	neurexophilin 3
0,71946679	0,22663	0,702222438	0,00001	NXT2	nuclear transport factor 2-like export factor 2
1,350974085	0,07278	1,294145654	0,03205	OAF	OAF homolog (Drosophila)
0,737645729	0,18752	0,822450069	0,038	OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa
0,792784137	0,44758	1,118061851	0,02031	OAZ1	ornithine decarboxylase antizyme 1
0,905006463	0,68207	1,203303026	0,0197	OAZ2	ornithine decarboxylase antizyme 2
1,139973273	0,35137	1,136029265	0,01461	OAZ2	ornithine decarboxylase antizyme 2
0,60332196	0,06182	0,833931044	0,02147	OBFC1	oligonucleotide/oligosaccharide-binding fold containing 1
0,888226796	0,19393	0,895025071	0,01581	OCIAD2	OCIA domain containing 2
0,763658749	0,26432	0,694477568	0,00035	OCLN	occludin
0,991029563	0,92087	1,121943481	0,0228	OCM2	oncomodulin 2
1,787570325	0,25953	2,391639594	0,0003	ODAM	odontogenic, ameloblast asssociated
0,998614666	0,987	1,135242102	0,04606	ODF1	outer dense fiber of sperm tails 1
0,857376037	0,34954	0,814507563	0,01174	ODF2L	outer dense fiber of sperm tails 2-like
1,082975046	0,75441	1,330529041	0,00288	ODF3B	outer dense fiber of sperm tails 3B
1,070288698	0,49194	1,184271612	0,03122	ODF3L2	outer dense fiber of sperm tails 3-like 2
1,089752112	0,2876	1,172022284	0,00966	OFCC1	orofacial cleft 1 candidate 1
1,0181852	0,76967	1,086734863	0,0148	OFCC1	orofacial cleft 1 candidate 1
1,070288698	0,79497	0,742261785	0,00721	OFD1	oral-facial-digital syndrome 1
0,781869643	0,09096	0,816203046	0,00138	OGFOD1	2-oxoglutarate and iron-dependent oxygenase domain containing 1
1,160703914	0,14682	1,165541198	0,03437	OGFOD2	2-oxoglutarate and iron-dependent oxygenase domain containing 2
1,095811766	0,4987	1,216722359	0,00036	OGFOD2	2-oxoglutarate and iron-dependent oxygenase domain containing 2
0,948684315	0,70303	0,823591017	0,00313	OGFRL1	opioid growth factor receptor-like 1
0,666187413	0,09005	0,688725023	0,00002	OGFRL1	opioid growth factor receptor-like 1
1,02313747	0,88498	1,247465572	0,03349	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
1,029540083	0,8503	1,268391399	0,02291	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)
0,859160755	0,29228	0,750539549	0,00019	OIP5	Opa interacting protein 5
1,184271612	0,07341	1,185914499	0,0082	OK/SW-CL.36	OK/SW-CL.36
0,740206649	0,10595	0,852044095	0,01133	OLA1	Obg-like ATPase 1
1,004167543	0,96587	0,859160755	0,00535	OLA1	Obg-like ATPase 1
0,936272247	0,57045	1,146312186	0,03606	OLFM1	olfactomedin 1
1,199971382	0,37121	1,500038989	0,00292	OLFML3	olfactomedin-like 3
1,156688184	0,15104	1,184271612	0,01557	ONECUT2	one cut homeobox 2
0,905633983	0,75041	0,738669032	0,00082	OPA1	optic atrophy 1 (autosomal dominant)
1,07997656	0,57328	0,79940583	0,00251	OPA1	optic atrophy 1 (autosomal dominant)
1,174461971	0,11497	1,212512819	0,00494	OPN4	opsin 4
1,101141598	0,30674	1,116512962	0,01331	OPN5	opsin 5
1,114193651	0,24207	1,155085785	0,04441	OPRL1	opiate receptor-like 1
1,061423209	0,52329	1,168777249	0,01604	OR10D1P	olfactory receptor, family 10, subfamily D, member 1 pseudogene
0,976708529	0,77365	1,152686347	0,04398	OR13C4	olfactory receptor, family 13, subfamily C, member 4
1,041743429	0,73026	1,249196126	0,00111	OR1D2	olfactory receptor, family 1, subfamily D, member 2
1,074749173	0,43638	1,224336392	0,00324	OR1I1	olfactory receptor, family 1, subfamily I, member 1
1,263127262	0,0609	1,237132479	0,00051	OR2H1	olfactory receptor, family 2, subfamily H, member 1
0,981459064	0,83149	1,141554707	0,0451	OR2S2	olfactory receptor, family 2, subfamily S, member 2
1,061423209	0,53192	1,23370717	0,00265	OR4D2	olfactory receptor, family 4, subfamily D, member 2
1,0238469	0,8607	1,118061851	0,03017	OR51B4	olfactory receptor, family 51, subfamily B, member 4
1,185914499	0,08299	1,143930973	0,00494	OR51B5	olfactory receptor, family 51, subfamily B, member 5
1,094293701	0,45331	1,108800644	0,01748	OR51E2	olfactory receptor, family 51, subfamily E, member 2
1,244874235	0,06183	1,185092771	0,00556	OR51I1	olfactory receptor, family 51, subfamily I, member 1
1,122721422	0,2985	1,267512522	0,00007	OR51I2	olfactory receptor, family 51, subfamily I, member 2
1,147107024	0,30449	1,130530567	0,02125	OR51M1	olfactory receptor, family 51, subfamily M, member 1
1,105730653	0,20329	1,142346247	0,00537	OR52A1	olfactory receptor, family 52, subfamily A, member 1
1,101141598	0,24663	1,127400412	0,01921	OR52K3P	olfactory receptor, family 52, subfamily K, member 3 pseudogene
1,07997656	0,35593	1,151089491	0,01524	OR5V1	olfactory receptor, family 5, subfamily V, member 1
1,118061851	0,18502	1,127400412	0,01985	OR6W1P	olfactory receptor, family 6, subfamily W, member 1 pseudogene
1,092777739	0,37407	1,29056249	0,00077	OR7A5	olfactory receptor, family 7, subfamily A, member 5
0,995849753	0,96235	1,116512962	0,01297	OR7C1	olfactory receptor, family 7, subfamily C, member 1
1,027401439	0,71647	0,858565436	0,02482	OR7D2	olfactory receptor, family 7, subfamily D, member 2
1,10343374	0,35758	1,185092771	0,01256	OR7E156P	olfactory receptor, family 7, subfamily E, member 156 pseudogene
1,158292806	0,40824	1,22858698	0,01196	ORAI2	ORAI calcium release-activated calcium modulator 2
1,169587664	0,23573	1,199139914	0,00188	ORAI2	ORAI calcium release-activated calcium modulator 2
0,817335328	0,08236	0,867538687	0,00375	ORAOV1	oral cancer overexpressed 1
0,840313752	0,15594	0,840896415	0,00495	ORC2	origin recognition complex, subunit 2
0,946713631	0,75624	0,772175133	0,00057	ORC2	origin recognition complex, subunit 2
0,899378312	0,40279	0,815637493	0,00979	ORC3	origin recognition complex, subunit 3
0,819604608	0,31952	0,821310701	0,00589	ORC4	origin recognition complex, subunit 4
0,8362464	0,31123	0,880259014	0,01719	ORC5	origin recognition complex, subunit 5
1,264003098	0,18474	1,138394029	0,0062	ORMDL3	ORM1-like 3 (S. cerevisiae)
1,025267238	0,86252	1,202469249	0,00589	OS9	osteosarcoma amplified 9, endoplasmic reticulum lectin
1,001387256	0,99569	1,319507911	0,00013	OS9	osteosarcoma amplified 9, endoplasmic reticulum lectin
1,138394029	0,12022	1,178539408	0,01982	OSBPL10	oxysterol binding protein-like 10
0,826450318	0,4071	0,774319028	0,02679	OSBPL11	oxysterol binding protein-like 11
0,856188285	0,4179	0,771105413	0,00119	OSBPL11	oxysterol binding protein-like 11
1,058484395	0,57239	1,143138335	0,00764	OSBPL1A	oxysterol binding protein-like 1A
0,813943185	0,16145	0,862741345	0,02871	OSBPL5	oxysterol binding protein-like 5
1,128964405	0,19342	1,230291345	0,01479	OSBPL7	oxysterol binding protein-like 7
0,963929808	0,9171	0,774855931	0,00315	OSBPL8	oxysterol binding protein-like 8

0,787307977	0,2537	0,738157203	0,00046	OSBPL8	oxysterol binding protein-like 8
0,735603373	0,13961	0,733566672	0,00055	OSBPL8	oxysterol binding protein-like 8
0,958599438	0,65086	0,879039561	0,01359	OSTalpha	organic solute transporter alpha
0,816203046	0,06163	0,859756486	0,02856	OSTF1	osteoclast stimulating factor 1
1,145517898	0,16229	1,136029265	0,01606	OTC	ornithine carbamoyltransferase
1,077733145	0,3954	1,113421618	0,00933	OTOF	otoferlin
1,122721422	0,26484	1,279872414	0,00043	OTUB2	OTU domain, ubiquitin aldehyde binding 2
0,880869374	0,44895	0,864537231	0,04291	OTUD1	OTU domain containing 1
0,853226098	0,51677	0,76418826	0,00343	OTUD1	OTU domain containing 1
0,776468875	0,12131	0,798851916	0,00001	OTUD4	OTU domain containing 4
1,067325338	0,64751	1,182631	0,00655	OTUD5	OTU domain containing 5
1,140763716	0,34051	1,243149669	0,00229	OTUD5	OTU domain containing 5
0,810003474	0,3852	0,658383461	0,00014	OTUD6B	OTU domain containing 6B
1,121943481	0,22478	1,195819797	0,00412	OTUD7B	OTU domain containing 7B
0,946057647	0,5229	0,828744904	0,00303	OVOL2	ovo-like 2 (Drosophila)
0,773246337	0,3595	1,114966219	0,01165	OXA1L	oxidase (cytochrome c) assembly 1-like
1,154285418	0,23761	1,148698355	0,03066	OXCT2	3-oxoacid CoA transferase 2
0,914465089	0,38912	0,87539133	0,02545	OXGR1	oxoglutarate (alpha-ketoglutarate) receptor 1
0,936272247	0,86671	0,656560563	0,0006	OXR1	oxidation resistance 1
0,838568184	0,41824	0,702222438	0,02682	OXR1	oxidation resistance 1
1,002776436	0,98133	0,873572896	0,01211	OXSM	3-oxoacyl-ACP synthase, mitochondrial
1,23370717	0,05067	1,143930973	0,01917	P2RX2	purinergic receptor P2X, ligand-gated ion channel, 2
1,041021598	0,65546	1,16634937	0,00999	P2RX2	purinergic receptor P2X, ligand-gated ion channel, 2
0,750539549	0,09798	0,680657058	0,00347	P2RY1	purinergic receptor P2Y, G-protein coupled, 1
0,699792933	0,11428	0,79774524	0,00094	P2RY2	purinergic receptor P2Y, G-protein coupled, 2
1,030968319	0,78175	1,255271991	0,00017	P2RY4	pyrimidinergic receptor P2Y, G-protein coupled, 4
1,383190629	0,17215	1,198309021	0,04722	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I
1,002776436	0,96373	0,922103118	0,02392	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I
1,002776436	0,97555	1,16634937	0,0092	P4HA2	prolyl 4-hydroxylase, alpha polypeptide II
1,282536603	0,09722	1,286989247	0,00153	P4HTM	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)
1,063632673	0,70546	1,197478705	0,02082	PABPC1L	poly(A) binding protein, cytoplasmic 1-like
0,86934456	0,4688	0,680657058	0,00004	PACRGL	PARK2 co-regulated-like
0,984866443	0,88973	1,218410264	0,0311	PACS1	phosphofurin acidic cluster sorting protein 1
1,085981856	0,60276	1,303147149	0,00301	PACS2	phosphofurin acidic cluster sorting protein 2
1,0453601	0,65595	1,227735684	0,00435	PACS2	phosphofurin acidic cluster sorting protein 2
1,034547582	0,82844	1,17772279	0,01701	PACS2	phosphofurin acidic cluster sorting protein 2
1,000693387	0,99701	1,131314463	0,01524	PACSIN2	protein kinase C and casein kinase substrate in neurons 2
1,531557997	0,12473	1,900000766	0,00515	PADI1	peptidyl arginine deiminase, type I
1,126619228	0,16185	1,151887642	0,01952	PADI2	peptidyl arginine deiminase, type II
1,01395948	0,86382	1,246601194	0,00063	PAEP	progestagen-associated endometrial protein
1,264003098	0,05784	1,246601194	0,01989	PAG1	phosphoprotein associated with glycosphingolipid microdomains 1
0,790589117	0,08145	0,782954296	0,00157	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase
1,02313747	0,80396	0,898132373	0,04387	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase
0,781869643	0,34671	0,685391402	0,00001	PAIP1	poly(A) binding protein interacting protein 1
0,72597914	0,09278	0,824162085	0,00429	PAIP1	poly(A) binding protein interacting protein 1
0,811127156	0,34331	0,704172113	0,00009	PAIP1	poly(A) binding protein interacting protein 1
0,717972255	0,08576	0,802737389	0,01082	PAIP1	poly(A) binding protein interacting protein 1
0,824733549	0,21755	0,692074858	0,00003	PAIP1	poly(A) binding protein interacting protein 1
0,709070018	0,11086	0,771105413	0,00625	PAIP2	poly(A) binding protein interacting protein 2
0,833353207	0,13999	0,817335328	0,00122	PAIP2	poly(A) binding protein interacting protein 2
1,089752112	0,21877	1,163120042	0,00083	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1
1,058484395	0,71771	0,864537231	0,00988	PAK2	p21 protein (Cdc42/Rac)-activated kinase 2
0,842062954	0,34514	0,825877665	0,0036	PALLD	palladin, cytoskeletal associated protein
0,803850991	0,4031	0,78024548	0,00094	PALLD	palladin, cytoskeletal associated protein
1,080725402	0,36808	0,853226098	0,02191	PALMD	palmdelphin
1,141554707	0,13559	1,231144413	0,02226	PAMR1	peptidase domain containing associated with muscle regeneration 1
0,818469182	0,35731	0,863339559	0,01545	PAN3	PAN3 poly(A) specific ribonuclease subunit homolog (S. cerevisiae)
0,636397468	0,12619	0,635075491	0,00102	PANK1	pantothenate kinase 1
0,827596816	0,26903	0,877213549	0,02078	PANK2	pantothenate kinase 2
0,858565436	0,27296	0,833931044	0,00664	PANK2	pantothenate kinase 2
1,250062303	0,21678	0,772175133	0,03005	PANK2	pantothenate kinase 2
1,188383105	0,07084	1,196648963	0,00926	PANX2	pannexin 2
0,84264683	0,48733	0,720964436	0,00211	PAPD4	PAP associated domain containing 4
0,976708529	0,91597	0,832198735	0,00821	PAPD5	PAP associated domain containing 5
0,777007269	0,07022	0,876605721	0,00318	PAPD7	PAP associated domain containing 7
0,772175133	0,1207	0,732042848	0,00054	PAPOLA	poly(A) polymerase alpha
0,670356296	0,06325	0,675955417	0,00005	PAPOLA	poly(A) polymerase alpha
1,059218335	0,60374	1,193335743	0,00562	PAPOLG	poly(A) polymerase gamma
0,792234811	0,37508	0,644834125	0,00009	PAPOLG	poly(A) polymerase gamma
1,081474763	0,49033	1,30224419	0,01198	PAPOLG	poly(A) polymerase gamma
1,197478705	0,05839	1,191682575	0,0384	PAPPA	pregnancy-associated plasma protein A, pappalysin 1
1,066585781	0,55565	1,190856849	0,02288	PAPPA	pregnancy-associated plasma protein A, pappalysin 1
1,144724161	0,09826	1,219255094	0,00484	PAPPA2	pappalysin 2
0,671286251	0,14363	0,562139462	0,00004	PAQR3	progestin and adipoQ receptor family member III
0,808881348	0,05738	0,804966138	0,00172	PARD3	par-3 partitioning defective 3 homolog (C. elegans)
1,124278924	0,211	1,210833084	0,00017	PARD3B	par-3 partitioning defective 3 homolog B (C. elegans)
0,724471077	0,05057	0,781869643	0,00096	PARD3B	par-3 partitioning defective 3 homolog B (C. elegans)
0,869947353	0,64274	0,76684133	0,01507	PARD6B	par-6 partitioning defective 6 homolog beta (C. elegans)
1,108800644	0,35472	1,111108729	0,03656	PARP1	poly (ADP-ribose) polymerase 1
1,032398535	0,64785	1,132098902	0,0076	PARP10	poly (ADP-ribose) polymerase family, member 10
1,130530567	0,19848	1,194163187	0,00528	PARP16	poly (ADP-ribose) polymerase family, member 16
0,919550046	0,41461	1,10343374	0,03206	PARP2	poly (ADP-ribose) polymerase 2
0,955945318	0,65004	1,137605228	0,02556	PART1	prostate androgen-regulated transcript 1 (non-protein coding)
1,07549439	0,50597	1,112650121	0,03079	PARVA	parvin, alpha
1,108800644	0,53426	1,156688184	0,01822	PARVA	parvin, alpha
1,159899655	0,09139	1,155085785	0,0095	PARVB	parvin, beta
1,232852325	0,11617	1,344434994	0,00277	PARVB	parvin, beta
0,888842681	0,27998	0,841479482	0,02766	PATE1	prostate and testis expressed 1
0,928516852	0,53705	0,854409741	0,00849	PATL1	protein associated with topoisomerase II homolog 1 (yeast)
1,068805991	0,58329	1,181811547	0,00156	PATL2	protein associated with topoisomerase II homolog 2 (yeast)
1,230291345	0,05519	1,172834949	0,01952	PATZ1	POZ (BTB) and AT hook containing zinc finger 1
1,088242442	0,36284	1,136816973	0,03618	PATZ1	POZ (BTB) and AT hook containing zinc finger 1
0,715984371	0,14155	0,695440986	0,01414	PAWR	PRKC, apoptosis, WT1, regulator
1,092777739	0,52517	1,161508732	0,00415	PAX1	paired box 1
0,85797053	0,09594	0,771640088	0,01486	PAX3	paired box 3
1,048262476	0,54903	1,095811766	0,03248	PAX4	paired box 4
1,126619228	0,21955	1,094293701	0,04024	PAX7	paired box 7
1,152686347	0,06193	1,129747215	0,0271	PAX7	paired box 7
1,109569472	0,38746	1,128964405	0,01775	PAX8	paired box 8
0,757333158	0,17029	0,748461493	0,01155	PBK	PDZ binding kinase
1,172022284	0,08428	1,151089491	0,03506	PBOV1	prostate and breast cancer overexpressed 1
0,744838732	0,10728	0,831045862	0,00373	PBRM1	polybromo 1
1,267512522	0,06941	1,200803427	0,03153	PBX2	pre-B-cell leukemia homeobox 2
1,128182137	0,28883	1,167967395	0,00258	PBX4	pre-B-cell leukemia homeobox 4

1,158292806	0,43516	1,616641738	0	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1
1,258757174	0,17349	1,465100875	0,00006	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1
1,190031696	0,05335	1,226884977	0,03273	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1
1,093535457	0,51321	1,225185332	0,02552	PC	pyruvate carboxylase
0,906261938	0,65584	0,775930854	0,00104	PCBD2	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2
0,931740429	0,8371	0,730016005	0,0021	PCBP2	poly(rC) binding protein 2
0,958599438	0,83216	0,823020345	0,02968	PCBP2	poly(rC) binding protein 2
0,738669032	0,13278	0,733566672	0,00039	PCBP2	poly(rC) binding protein 2
1,231144413	0,06474	1,172834949	0,03998	PCBP3	poly(rC) binding protein 3
0,901250463	0,36358	0,817902059	0,02699	PCDH1	protocadherin 1
1,245737416	0,0986	1,215036792	0,00683	PCDH12	protocadherin 12
1,339783602	0,20272	1,248330549	0,02484	PCDH18	protocadherin 18
0,730522189	0,14305	0,734584317	0,00199	PCDH7	protocadherin 7
1,162314108	0,12592	1,157490217	0,02531	PCDHB1	protocadherin beta 1
0,751580739	0,33381	0,641268301	0,00002	PCDHB14	protocadherin beta 14
1,092777739	0,2978	1,136029265	0,04616	PCDHB6	protocadherin beta 6
1,138394029	0,1573	1,154285418	0,01544	PCDHGA1	protocadherin gamma subfamily A, 1
1,148698355	0,14714	1,121943481	0,02848	PCDHGA9	protocadherin gamma subfamily A, 9
1,125838586	0,2805	1,159899655	0,01724	PCDP1	primary ciliary dyskinesia protein 1
0,758909626	0,18915	0,657015814	0,00001	PCF11	PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)
1,109569472	0,49488	1,188383105	0,02054	PCGF2	polycomb group ring finger 2
1,162314108	0,12195	1,16634937	0,02113	PCGF2	polycomb group ring finger 2
1,07997656	0,42566	0,804966138	0,01251	PCGF6	polycomb group ring finger 6
0,899378312	0,34079	0,789493887	0,00914	PCLO	piccolo (presynaptic cytomatrix protein)
0,995159722	0,98275	0,823591017	0,04598	PCLO	piccolo (presynaptic cytomatrix protein)
0,829894586	0,1423	0,805524291	0,00123	PCM1	pericentriolar material 1
1,055553718	0,42332	1,205807828	0,00225	PCM1	pericentriolar material 1
0,808881348	0,1626	0,890692901	0,04674	PCM1	pericentriolar material 1
0,667111585	0,05686	0,773782497	0,00088	PCM1	pericentriolar material 1
0,932386486	0,69393	0,730522189	0,00858	PCM1	pericentriolar material 1
0,846745312	0,37666	0,768437591	0,00002	PCMT1	protein-L-isoaspartate (D-aspartate) O-methyltransferase
0,859756486	0,23916	0,793883931	0,00152	PCMT1	protein-L-isoaspartate (D-aspartate) O-methyltransferase
0,812815602	0,07195	0,806082831	0,00109	PCNA	proliferating cell nuclear antigen
0,860949188	0,40037	0,787853886	0,00226	PCNP	PEST proteolytic signal containing nuclear protein
0,790589117	0,19733	0,731028724	0,00155	PCNP	PEST proteolytic signal containing nuclear protein
0,795536484	0,44055	0,817335328	0,02699	PCNX	pecanex homolog (Drosophila)
0,960594864	0,77389	0,87175824	0,0392	PCNX	pecanex homolog (Drosophila)
0,932386486	0,80327	1,427014506	0,01763	PCOLCE	procollagen C-endopeptidase enhancer
0,941478465	0,73118	0,866937564	0,04767	PCSK2	proprotein convertase subtilisin/kexin type 2
1,032398535	0,90018	0,872967591	0,04095	PCSK5	proprotein convertase subtilisin/kexin type 5
0,729510172	0,17729	0,690158677	0,00133	PCSK6	proprotein convertase subtilisin/kexin type 6
1,147107024	0,19867	1,279872414	0,00199	PCSK7	proprotein convertase subtilisin/kexin type 7
0,885767519	0,24546	0,863938187	0,00903	PCSK9	proprotein convertase subtilisin/kexin type 9
0,474013483	0,09589	0,645281245	0,00012	PCYOX1	prenylcysteine oxidase 1
0,716480825	0,10742	0,772175133	0,00057	PCYOX1	prenylcysteine oxidase 1
1,183451022	0,13534	1,159899655	0,0131	PDCD1	programmed cell death 1
0,828170661	0,21424	0,772175133	0,00849	PDCD10	programmed cell death 10
1,025978145	0,77897	1,231998073	0,00068	PDCD1LG2	programmed cell death 1 ligand 2
1,016070143	0,90931	0,81056512	0,00812	PDCD2	programmed cell death 2
0,844400887	0,12187	0,823020345	0,00729	PDCD2	programmed cell death 2
1,035264924	0,61299	0,880869374	0,01935	PDCD2	programmed cell death 2
0,670821112	0,07198	0,71548826	0,00003	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor)
0,887611337	0,47468	0,830470024	0,04918	PDCD5	programmed cell death 5
0,81056512	0,06378	0,802737389	0,02255	PDCD6	programmed cell death 6
0,979420298	0,91919	0,771105413	0,00179	PDCL	phosducin-like
0,863339559	0,19678	0,719965659	0,00002	PDE12	phosphodiesterase 12
0,930449658	0,67493	0,880259014	0,01181	PDE12	phosphodiesterase 12
1,130530567	0,26546	1,141554707	0,02114	PDE1B	phosphodiesterase 1B, calmodulin-dependent
1,146312186	0,30538	1,187559666	0,00847	PDE2A	phosphodiesterase 2A, cGMP-stimulated
1,17772279	0,29435	1,215879283	0,00032	PDE4A	phosphodiesterase 4A, cAMP-specific
1,304954948	0,39698	1,686462221	0,00037	PDE4B	phosphodiesterase 4B, cAMP-specific
1,202469249	0,20125	1,209994089	0,002	PDE4D	phosphodiesterase 4D, cAMP-specific
0,90000193	0,36529	1,172022284	0,04033	PDE4DIP	phosphodiesterase 4D interacting protein
1,186736798	0,21634	1,329607108	0,00086	PDE4DIP	phosphodiesterase 4D interacting protein
1,199971382	0,22584	1,336074078	0,00098	PDE4DIP	phosphodiesterase 4D interacting protein
1,133669413	0,17085	1,117287138	0,04422	PDE4DIP	phosphodiesterase 4D interacting protein
1,186736798	0,12367	1,134455485	0,03892	PDE5A	phosphodiesterase 5A, cGMP-specific
1,043188594	0,57177	1,119612889	0,0187	PDE5A	phosphodiesterase 5A, cGMP-specific
1,097331938	0,36068	1,190856849	0,006	PDE6B	phosphodiesterase 6B, cGMP-specific, rod, beta
1,125838586	0,26146	1,197478705	0,00993	PDE6G	phosphodiesterase 6G, cGMP-specific, rod, gamma
1,264879542	0,06195	1,231998073	0,00186	PDE7B	phosphodiesterase 7B
0,736623843	0,14124	0,69640574	0,00012	PDE8A	phosphodiesterase 8A
1,116512962	0,14593	1,133669413	0,01609	PDE8B	phosphodiesterase 8B
1,207480591	0,10107	1,307671349	0,00187	PDGFB	platelet-derived growth factor beta polypeptide
1,160703914	0,37836	1,240567298	0,04622	PDGFRA	platelet-derived growth factor receptor, alpha polypeptide
1,339783602	0,13451	1,509425969	0,00011	PDGFRB	platelet-derived growth factor receptor, beta polypeptide
0,86154616	0,23081	0,908148418	0,04398	PDHA1	pyruvate dehydrogenase (lipoamide) alpha 1
0,817902059	0,14222	0,863339559	0,03861	PDHB	pyruvate dehydrogenase (lipoamide) beta
0,831622098	0,15297	0,876605721	0,02434	PDHB	pyruvate dehydrogenase (lipoamide) beta
0,873572896	0,46292	0,789493887	0,00046	PDHX	pyruvate dehydrogenase complex, component X
1,450952208	0,10648	1,370782805	0,00202	PDIA4	protein disulfide isomerase family A, member 4
1,25353302	0,10635	1,169587664	0,00399	PDIA6	protein disulfide isomerase family A, member 6
1,286989247	0,08853	1,195819797	0,00387	PDIA6	protein disulfide isomerase family A, member 6
0,831622098	0,32835	0,7944344	0,00502	PDIK1L	PDLIM1 interacting kinase 1 like
1,307671349	0,2007	1,373636233	0,00398	PDK1	pyruvate dehydrogenase kinase, isozyme 1
1,016070143	0,84912	1,156688184	0,04576	PDK2	pyruvate dehydrogenase kinase, isozyme 2
0,943438251	0,59722	1,272794935	0,00155	PDK2	pyruvate dehydrogenase kinase, isozyme 2
1,093535457	0,27941	1,119612889	0,03394	PDK4	pyruvate dehydrogenase kinase, isozyme 4
0,885153765	0,6046	0,751059963	0,01506	PDLIM5	PDZ and LIM domain 5
1,098092814	0,27905	0,847919965	0,02166	PDLIM5	PDZ and LIM domain 5
0,982139595	0,8996	1,262252032	0,0127	PDLIM7	PDZ and LIM domain 7 (enigma)
0,904379378	0,21771	0,879649076	0,02635	PDP2	pyruvate dehyrogenase phosphatase catalytic subunit 2
0,759435845	0,3926	0,77271055	0,00773	PDPK1	3-phosphoinositide dependent protein kinase-1
0,802181166	0,07162	0,779704843	0,00029	PDPK1	3-phosphoinositide dependent protein kinase-1
1,204137381	0,27262	1,22858698	0,01343	PDPN	podoplanin
1,325007017	0,08462	1,217566019	0,02389	PDPN	podoplanin
1,089752112	0,46359	1,184271612	0,0328	PDPN	podoplanin
1,189207115	0,17008	1,151887642	0,01387	PDPR	pyruvate dehydrogenase phosphatase regulatory subunit
0,651122095	0,08581	0,741747467	0,00164	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)
0,890692901	0,48434	0,654289036	0,0006	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)
0,873572896	0,37058	0,718470088	0,00857	PDSS1	prenyl (decaprenyl) diphosphate synthase, subunit 1
1,051172909	0,56389	1,180992661	0,04142	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1
0,860949188	0,25191	0,739181216	0,00017	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1
0,955945318	0,71528	0,79774524	0,00783	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1

1,002776436	0,97278	1,121166078	0,04861	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase
0,778085177	0,17403	0,754190038	0,01993	PDZD2	PDZ domain containing 2
0,963929808	0,65789	1,146312186	0,03673	PDZD3	PDZ domain containing 3
0,683493726	0,13882	0,660669203	0,00194	PDZD8	PDZ domain containing 8
0,939522749	0,71317	0,816203046	0,0126	PDZD8	PDZ domain containing 8
0,988285652	0,88219	1,090507733	0,02274	PDZK1	PDZ domain containing 1
0,909408252	0,45104	1,245737416	0,00112	PEAK1	NKF3 kinase family member
1,012554807	0,94691	1,143138335	0,0365	PEAK1	NKF3 kinase family member
1,938579634	0,08423	2,174976782	0,00004	PECAM1	platelet/endothelial cell adhesion molecule
1,191682575	0,08198	1,22603486	0,00331	PECR	peroxisomal trans-2-enoyl-CoA reductase
1,10343374	0,22996	1,125838586	0,02597	PEG10	paternally expressed 10
0,890075733	0,59356	0,72597914	0,00137	PELI1	pellino homolog 1 (Drosophila)
1,156688184	0,25121	1,113421618	0,01951	PEPD	peptidase D
0,821310701	0,31121	0,778624691	0,00379	PER2	period homolog 2 (Drosophila)
0,659296807	0,25704	0,661127303	0,00227	PER3	period homolog 3 (Drosophila)
0,700763725	0,20318	0,746389192	0,00194	PER3	period homolog 3 (Drosophila)
0,91383145	0,74275	0,801625329	0,01473	PERP	PERP, TP53 apoptosis effector
0,778624691	0,05517	0,87175824	0,01207	PERP	PERP, TP53 apoptosis effector
0,87417862	0,18262	0,801625329	0,00127	PET112	PET112 homolog (yeast)
1,02313747	0,8997	0,84323111	0,02913	PET117	cytochrome c oxidase assembly factor-like
0,793883931	0,32422	0,792784137	0,02528	PEX1	peroxisomal biogenesis factor 1
0,802181166	0,13957	0,85027416	0,02439	PEX1	peroxisomal biogenesis factor 1
1,127400412	0,14846	1,172022284	0,01133	PEX11A	peroxisomal biogenesis factor 11 alpha
1,028826708	0,72485	1,109569472	0,04253	PEX11G	peroxisomal biogenesis factor 11 gamma
1,037419937	0,76902	0,820172911	0,00306	PEX12	peroxisomal biogenesis factor 12
0,951318276	0,56731	0,815072332	0,00157	PEX14	peroxisomal biogenesis factor 14
1,07549439	0,326	1,140763716	0,01494	PEX16	peroxisomal biogenesis factor 16
0,848507902	0,13718	0,736623843	0,00003	PEX3	peroxisomal biogenesis factor 3
0,800514811	0,42632	0,669891801	0,00018	PEX3	peroxisomal biogenesis factor 3
0,903752727	0,60173	0,688725023	0,00058	PEX7	peroxisomal biogenesis factor 7
0,86934456	0,20765	0,863339559	0,02246	PEX7	peroxisomal biogenesis factor 7
1,118837101	0,27228	1,095811766	0,0484	PF4V1	platelet factor 4 variant 1
1,029540083	0,76692	0,860949188	0,02062	PFAS	phosphoribosylformylglycinamidine synthase
0,887611337	0,27469	0,756283999	0,00017	PFDN4	prefoldin subunit 4
1,004167543	0,97719	1,174461971	0,03923	PFDN6	prefoldin subunit 6
1,050444544	0,7198	1,181811547	0,04074	PFDN6	prefoldin subunit 6
1,136029265	0,10943	1,124278924	0,03325	PFDN6	prefoldin subunit 6
0,853226098	0,17039	0,798298386	0,00786	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
0,753145233	0,25044	0,671751713	0,00042	PGAP1	post-GPI attachment to proteins 1
0,846158597	0,50902	0,754190038	0,01528	PGAP1	post-GPI attachment to proteins 1
0,793883931	0,39261	0,674551267	0,00128	PGAP1	post-GPI attachment to proteins 1
0,739181216	0,13098	0,574747424	0,00018	PGAP1	post-GPI attachment to proteins 1
0,836826243	0,18374	0,87417862	0,03087	PGAP3	post-GPI attachment to proteins 3
1,138394029	0,11871	1,20163605	0,00212	PGBD2	piggyBac transposable element derived 2
0,8962667	0,47879	0,781869643	0,00402	PGBD3	piggyBac transposable element derived 3
1,059952783	0,62446	1,224336392	0,00419	PGCP	plasma glutamate carboxypeptidase
0,990342872	0,92625	1,113421618	0,0249	PGD	phosphogluconate dehydrogenase
1,249196126	0,13764	1,419123356	0,0026	PGF	placental growth factor
0,734584317	0,17493	0,679714121	0,00002	PGGT1B	protein geranylgeranyltransferase type I, beta subunit
0,698339266	0,09507	0,676424116	0,00656	PGGT1B	protein geranylgeranyltransferase type I, beta subunit
1,027401439	0,79055	0,887611337	0,02613	PGK1	phosphoglycerate kinase 1
0,906890329	0,70526	0,763658749	0,01395	PGK1	phosphoglycerate kinase 1
0,628506687	0,13667	0,69399636	0,00035	PGM2	phosphoglucomutase 2
0,561749952	0,06436	0,640379931	0,00003	PGM2	phosphoglucomutase 2
1,043911927	0,61967	1,180174343	0,01563	PGM2L1	phosphoglucomutase 2-like 1
1,307671349	0,07384	1,249196126	0,00482	PGS1	phosphatidylglycerophosphate synthase 1
1,087488391	0,47341	1,247465572	0,0016	PHACTR1	phosphatase and actin regulator 1
0,87417862	0,62485	0,76154437	0,0068	PHACTR2	phosphatase and actin regulator 2
0,855002178	0,30005	0,838568184	0,03028	PHACTR4	phosphatase and actin regulator 4
0,697855382	0,07839	0,713012859	0,00017	PHAX	phosphorylated adaptor for RNA export
0,784584098	0,32714	0,729004689	0,00784	PHAX	phosphorylated adaptor for RNA export
1,180174343	0,18118	1,278099363	0,00072	PHC2	polyhomeotic homolog 2 (Drosophila)
0,933679945	0,47104	0,898132373	0,03791	PHC3	polyhomeotic homolog 3 (Drosophila)
1,175276328	0,34563	1,271913007	0,01133	PHF1	PHD finger protein 1
1,092777739	0,61163	0,877821798	0,00608	PHF14	PHD finger protein 14
0,887611337	0,48215	0,803850991	0,01078	PHF16	PHD finger protein 16
1,090507733	0,55694	1,197478705	0,00559	PHF20	PHD finger protein 20
0,782954296	0,25945	0,746389192	0,00052	PHF20	PHD finger protein 20
0,848507902	0,26388	0,785672517	0,04859	PHF20L1	PHD finger protein 20-like 1
0,697855382	0,26039	0,832198735	0,02836	PHF20L1	PHD finger protein 20-like 1
1,095052471	0,41102	1,150291893	0,00595	PHF21A	PHD finger protein 21A
0,960594864	0,55806	0,879039561	0,01742	PHF3	PHD finger protein 3
0,888226796	0,43236	0,846158597	0,00423	PHF3	PHD finger protein 3
1,163926534	0,05677	1,189207115	0,00029	PHF6	PHD finger protein 6
1,111108729	0,34027	1,125838586	0,02166	PHF8	PHD finger protein 8
0,772175133	0,2093	0,824733549	0,00932	PHKA1	phosphorylase kinase, alpha 1 (muscle)
0,846158597	0,44357	0,779704843	0,00161	PHKB	phosphorylase kinase, beta
1,040300267	0,71231	1,17609125	0,00214	PHKG1	phosphorylase kinase, gamma 1 (muscle)
0,990342872	0,94969	1,234562607	0,00224	PHLDA3	pleckstrin homology-like domain, family A, member 3
1,193335743	0,13319	1,125058485	0,02551	PHLDB1	pleckstrin homology-like domain, family B, member 1
0,632001549	0,06206	0,750539549	0,01032	PHLPP1	PH domain and leucine rich repeat protein phosphatase 1
0,827596816	0,21354	0,711531731	0,00058	PHOSPHO2	phosphatase, orphan 2
0,808320869	0,50964	1,231144413	0,00071	PHPT1	phosphohistidine phosphatase 1
1,062159186	0,63574	1,215879283	0,00781	PHPT1	phosphohistidine phosphatase 1
0,829319546	0,19579	0,840896415	0,01186	PHRF1	PHD and ring finger domains 1
1,120389214	0,23215	1,167158102	0,00261	PHTF1	putative homeodomain transcription factor 1
1,181811547	0,07011	1,154285418	0,01507	PI15	peptidase inhibitor 15
1,23370717	0,05897	1,260503392	0,00398	PI16	peptidase inhibitor 16
0,942784536	0,51768	0,844400887	0,01586	PI4K2B	phosphatidylinositol 4-kinase type 2 beta
0,863938187	0,28695	0,827023368	0,00657	PI4K2B	phosphatidylinositol 4-kinase type 2 beta
0,954621014	0,85171	1,122721422	0,04733	PI4KA	phosphatidylinositol 4-kinase, catalytic, alpha
0,882091365	0,57676	0,810003474	0,0033	PIAS1	protein inhibitor of activated STAT, 1
1,108032348	0,30037	1,143930973	0,02441	PIAS2	protein inhibitor of activated STAT, 2
1,108800644	0,53816	0,810003474	0,00216	PIAS2	protein inhibitor of activated STAT, 2
0,787853886	0,06042	0,816768991	0,00498	PIAS3	protein inhibitor of activated STAT, 3
0,855595026	0,23775	0,70027816	0,004	PIBF1	progesterone immunomodulatory binding factor 1
0,751580739	0,1354	0,814507563	0,03385	PID1	phosphotyrosine interaction domain containing 1
1,07997656	0,28987	1,105730653	0,0492	PIEZO1	piezo-type mechanosensitive ion channel component 1
0,597909898	0,08671	0,639049682	0,00027	PIGA	phosphatidylinositol glycan anchor biosynthesis, class A
0,899378312	0,25417	0,805524291	0,04847	PIGB	phosphatidylinositol glycan anchor biosynthesis, class B
0,954621014	0,50406	0,865736566	0,01263	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C
0,714992493	0,0652	0,786217292	0,03605	PIGC	phosphatidylinositol glycan anchor biosynthesis, class C
0,708578698	0,08294	0,820741609	0,02939	PIGF	phosphatidylinositol glycan anchor biosynthesis, class F
1,109569472	0,25198	1,195819797	0,01829	PIGG	phosphatidylinositol glycan anchor biosynthesis, class G

0,965267025	0,7737	0,863339559	0,00798	PIGG	phosphatidylinositol glycan anchor biosynthesis, class G
0,914465089	0,24387	0,897510051	0,03787	PIGG	phosphatidylinositol glycan anchor biosynthesis, class G
0,675487042	0,11178	0,698823486	0,00016	PIGN	phosphatidylinositol glycan anchor biosynthesis, class N
1,136029265	0,37118	1,210833084	0,01344	PIGR	polymeric immunoglobulin receptor
1,153485605	0,13816	1,236275261	0,00211	PIGT	phosphatidylinositol glycan anchor biosynthesis, class T
0,953298545	0,7164	0,85086373	0,00608	PIGV	phosphatidylinositol glycan anchor biosynthesis, class V
0,864537231	0,42083	0,707106781	0,00079	PIGX	phosphatidylinositol glycan anchor biosynthesis, class X
0,953959551	0,52205	0,892546971	0,03811	PIGX	phosphatidylinositol glycan anchor biosynthesis, class X
0,815072332	0,08427	0,743806881	0,00006	PIGY	phosphatidylinositol glycan anchor biosynthesis, class Y
0,941478465	0,75019	0,854409741	0,01995	PIK3C2A	phosphoinositide-3-kinase, class 2, alpha polypeptide
0,818469182	0,236	0,876605721	0,00454	PIK3C3	phosphoinositide-3-kinase, class 3
0,76154437	0,18975	0,748461493	0,00761	PIK3C3	phosphoinositide-3-kinase, class 3
1,064370182	0,61187	0,873572896	0,04719	PIK3CA	phosphoinositide-3-kinase, catalytic, alpha polypeptide
1,22603486	0,1544	1,247465572	0,01283	PIK3CD	phosphoinositide-3-kinase, catalytic, delta polypeptide
1,076240125	0,47121	1,256142381	0,00163	PIK3IP1	phosphoinositide-3-kinase interacting protein 1
0,93109482	0,82047	0,746389192	0,02921	PIK3R1	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
1,232852325	0,0635	1,318593614	0,00125	PIK3R3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)
0,791685866	0,11406	0,801625329	0,00366	PIK3R4	phosphoinositide-3-kinase, regulatory subunit 4
1,304954948	0,063	1,308578071	0,00144	PIK3R5	phosphoinositide-3-kinase, regulatory subunit 5
1,165541198	0,16409	1,311302014	0,00136	PIKFYVE	phosphoinositide kinase, FYVE finger containing
1,250062303	0,13031	1,319507911	0,00097	PILRA	paired immunoglobin-like type 2 receptor alpha
0,808320869	0,38471	1,194991205	0,04767	PILRB	paired immunoglobin-like type 2 receptor beta
0,871154192	0,07668	0,815072332	0,00338	PIN4	protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)
1,071030823	0,43205	1,117287138	0,03459	PIP4K2A	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
1,152686347	0,22184	1,209155676	0,00144	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1
1,232852325	0,21746	1,199139914	0,04095	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1
1,286989247	0,05158	1,403471726	0,00013	PITPNM1	phosphatidylinositol transfer protein, membrane-associated 1
0,863938187	0,27406	0,881480158	0,01429	PITRM1	pitrilysin metallopeptidase 1
1,004167543	0,96631	1,168777249	0,0313	PITRM1	pitrilysin metallopeptidase 1
0,70759708	0,13487	0,835087919	0,03674	PITX1	paired-like homeodomain 1
1,120389214	0,25505	1,23370717	0,00844	PIWIL2	piwi-like 2 (Drosophila)
1,038139271	0,89603	0,880259014	0,00937	PJA2	praja ring finger 2
1,133669413	0,23908	1,143138335	0,03306	PKD1L2	polycystic kidney disease 1-like 2
0,995849753	0,95075	1,094293701	0,03447	PKD1L2	polycystic kidney disease 1-like 2
1,028113827	0,81883	1,098854218	0,03035	PKD2L1	polycystic kidney disease 2-like 1
0,869947353	0,40888	0,793333843	0,01947	PKIB	protein kinase (cAMP-dependent, catalytic) inhibitor beta
1,139183377	0,22621	1,187559666	0,00888	PKLR	pyruvate kinase, liver and RBC
1,136029265	0,21713	1,256142381	0,00136	PKLR	pyruvate kinase, liver and RBC
0,816768991	0,59646	1,282536603	0,04441	PKM2	pyruvate kinase, muscle
1,07549439	0,45528	1,237132479	0,00158	PKN3	protein kinase N3
1,028113827	0,81553	1,141554707	0,03764	PLA2G10	phospholipase A2, group X
0,675955417	0,05234	0,688725023	0,00018	PLA2G12A	phospholipase A2, group XIIA
1,212512819	0,18688	1,314031627	0,00083	PLA2G16	phospholipase A2, group XVI
0,846745312	0,20098	0,852044095	0,04045	PLA2G4F	phospholipase A2, group IVF
1,247465572	0,06609	1,296839555	0,00026	PLA2G5	phospholipase A2, group V
1,030968319	0,76039	1,204137381	0,0014	PLA2G6	phospholipase A2, group VI (cytosolic, calcium-independent)
1,037419937	0,70418	1,127400412	0,01956	PLA2G6	phospholipase A2, group VI (cytosolic, calcium-independent)
0,668500248	0,07763	0,679714121	0,00162	PLA2R1	phospholipase A2 receptor 1, 180kDa
0,899378312	0,33361	0,762600827	0,00014	PLA2R1	phospholipase A2 receptor 1, 180kDa
0,927230546	0,4096	0,882702996	0,0397	PLAA	phospholipase A2-activating protein
1,147902414	0,51709	0,7944344	0,00364	PLAA	phospholipase A2-activating protein
0,835666959	0,08013	0,897510051	0,01435	PLAC2	placenta-specific 2 (non-protein coding)
1,130530567	0,29475	1,25092908	0,00166	PLAC4	placenta-specific 4
0,698339266	0,24294	0,668963777	0,00063	PLAGL1	pleiomorphic adenoma gene-like 1
0,887611337	0,58439	0,795536484	0,01814	PLAGL1	pleiomorphic adenoma gene-like 1
0,953959551	0,8508	0,650220073	0,00001	PLAGL1	pleiomorphic adenoma gene-like 1
0,857376037	0,28319	0,852634892	0,00486	PLAGL2	pleiomorphic adenoma gene-like 2
1,011853201	0,901	1,296839555	0,00028	PLCB1	phospholipase C, beta 1 (phosphoinositide-specific)
1,113421618	0,21692	1,198309021	0,00009	PLCB4	phospholipase C, beta 4
0,928516852	0,59819	1,216722359	0,00015	PLCG1	phospholipase C, gamma 1
0,924022572	0,64818	0,796640096	0,01417	PLD1	phospholipase D1, phosphatidylcholine-specific
0,703684188	0,13359	0,758383773	0,00504	PLD1	phospholipase D1, phosphatidylcholine-specific
1,202469249	0,54753	1,490710387	0,00097	PLD3	phospholipase D family, member 3
1,143930973	0,15895	1,17772279	0,0039	PLD4	phospholipase D family, member 4
0,732550437	0,49787	0,70759708	0,00064	PLDN	pallidin homolog (mouse)
1,363202607	0,09321	1,2397077	0,00124	PLEK	pleckstrin
0,878430468	0,39717	0,882091365	0,04239	PLEKHA5	pleckstrin homology domain containing, family A member 5
0,740719899	0,20514	0,712518807	0,00107	PLEKHA5	pleckstrin homology domain containing, family A member 5
1,0132569	0,93428	0,899378312	0,0202	PLEKHA8	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 8
1,102669163	0,2451	1,146312186	0,00612	PLEKHA8P1	pleckstrin homology domain containing, family A member 8 pseudogene 1
0,738157203	0,44143	0,819604608	0,0049	PLEKHB2	pleckstrin homology domain containing, family B (evectins) member 2
1,217566019	0,255	1,308578071	0,00068	PLEKHF1	pleckstrin homology domain containing, family F (with FYVE domain) member 1
0,640379931	0,07131	0,591725511	0,00054	PLEKHF2	pleckstrin homology domain containing, family F (with FYVE domain) member 2
1,242288282	0,174	1,372684431	0,00043	PLEKHG2	pleckstrin homology domain containing, family G (with RhoGef domain) member 2
1,074004472	0,37172	1,151089491	0,04729	PLEKHJ1	pleckstrin homology domain containing, family J member 1
0,837406488	0,42567	0,775930854	0,01465	PLEKHM3	pleckstrin homology domain containing, family M, member 3
1,342572503	0,13256	1,488645255	0,00284	PLEKHO1	pleckstrin homology domain containing, family O member 1
1,263127262	0,06553	1,341642225	0,00072	PLEKHO2	pleckstrin homology domain containing, family O member 2
1,033114388	0,81307	1,246601194	0,0013	PLK1	polo-like kinase 1
1,222640278	0,27932	1,143930973	0,04825	PLK1S1	polo-like kinase 1 substrate 1
1,171210181	0,37395	1,180174343	0,00658	PLK3	polo-like kinase 3
1,044635763	0,78135	0,84323111	0,01897	PLK4	polo-like kinase 4
1,285206337	0,13151	1,424050196	0,00067	PLOD1	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1
1,336074078	0,0751	1,459020344	0,00018	PLOD3	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3
0,762600827	0,185	0,748461493	0,00041	PLRG1	pleiotropic regulator 1
0,682073917	0,06027	0,742261785	0,00347	PLS3	plastin 3
1,164733586	0,68443	1,436940177	0,00328	PLTP	phospholipid transfer protein
1,569168196	0,06197	1,568080908	0,00138	PLVAP	plasmalemma vesicle associated protein
1,168777249	0,40628	1,421092043	0,00829	PLXDC1	plexin domain containing 1
0,989656656	0,89199	1,118837101	0,04993	PLXNA3	plexin A3
1,171210181	0,27021	1,254402205	0,00302	PLXNA3	plexin A3
1,015366101	0,8721	0,823591017	0,04479	PLXNA4	plexin A4
1,17772279	0,24657	1,25962998	0,02969	PLXNC1	plexin C1
1,306765254	0,08802	1,444930398	0,00047	PLXND1	plexin D1
1,092020546	0,40294	1,125058485	0,00325	PM20D1	peptidase M20 domain containing 1
0,782954296	0,31521	0,737134609	0,00084	PM20D2	peptidase M20 domain containing 2
0,804966138	0,32441	0,770571108	0,00213	PM20D2	peptidase M20 domain containing 2
1,192508872	0,27312	1,362258035	0,00053	PMEPA1	prostate transmembrane protein, androgen induced 1
1,331451613	0,15627	1,4063932	0,00034	PMEPA1	prostate transmembrane protein, androgen induced 1
1,156688184	0,27975	1,293248932	0,00495	PMEPA1	prostate transmembrane protein, androgen induced 1
1,049716684	0,67272	1,212512819	0,00483	PML	promyelocytic leukemia
1,081474763	0,49861	1,143930973	0,04173	PML	promyelocytic leukemia
1,07997656	0,30797	1,180992661	0,00539	PML	promyelocytic leukemia
0,79774524	0,05642	0,886381699	0,02924	PMS2L2	postmeiotic segregation increased 2-like 2 pseudogene

0,828744904	0,27929	1,114193651	0,02859	PMS2P1	postmeiotic segregation increased 2 pseudogene 1
1,061423209	0,6017	1,147107024	0,00194	PNCK	pregnancy up-regulated non-ubiquitously expressed CaM kinase
0,711038705	0,19595	0,627635996	0,0006	PNISR	PNN-interacting serine/arginine-rich protein
0,893165852	0,45108	0,800514811	0,00118	PNMA1	paraneoplastic antigen MA1
1,018891197	0,82543	1,164733586	0,01583	PNMA3	paraneoplastic antigen MA3
1,024556823	0,79089	1,154285418	0,00735	PNMAL2	PNMA-like 2
0,732550437	0,1987	0,845572287	0,0235	PNN	pinin, desmosome associated protein
1,084477409	0,69805	0,716977624	0,00021	PNO1	partner of NOB1 homolog (S. cerevisiae)
0,76101669	0,34499	0,848507902	0,02963	PNP	purine nucleoside phosphorylase
1,167158102	0,1933	1,25962998	0,00441	PNPLA2	patatin-like phospholipase domain containing 2
0,741233505	0,2794	0,805524291	0,00325	PNPLA8	patatin-like phospholipase domain containing 8
0,791685866	0,27482	0,738157203	0,00021	PNPLA8	patatin-like phospholipase domain containing 8
0,754712984	0,20938	0,713507253	0,00052	PNPLA8	patatin-like phospholipase domain containing 8
0,933032992	0,66439	1,147902414	0,00834	PNPO	pyridoxamine 5'-phosphate oxidase
0,827023368	0,22239	0,839149637	0,04865	PNPT1	polyribonucleotide nucleotidyltransferase 1
0,810003474	0,26863	0,795536484	0,00637	POC1B	POC1 centriolar protein homolog B (Chlamydomonas)
1,111108729	0,48239	1,237990291	0,01298	PODN	podocan
1,245737416	0,12643	1,424050196	0,00602	PODXL	podocalyxin-like
1,161508732	0,15645	1,251796459	0,00037	POFUT2	protein O-fucosyltransferase 2
1,086734863	0,33542	1,146312186	0,02076	POFUT2	protein O-fucosyltransferase 2
0,730016005	0,31872	0,568408487	0,00015	POGK	pogo transposable element with KRAB domain
0,664803554	0,08368	0,79774524	0,00077	POGLUT1	protein O-glucosyltransferase 1
0,754712984	0,05032	0,847332435	0,00557	POLA1	polymerase (DNA directed), alpha 1, catalytic subunit
1,180992661	0,15479	1,225185332	0,00334	POLA2	polymerase (DNA directed), alpha 2 (70kD subunit)
1,012554807	0,91534	1,151887642	0,0261	POLA2	polymerase (DNA directed), alpha 2 (70kD subunit)
0,916368645	0,53915	0,824162085	0,00018	POLD3	polymerase (DNA-directed), delta 3, accessory subunit
0,928516852	0,6264	1,153485605	0,01216	POLD4	polymerase (DNA-directed), delta 4
1,070288698	0,53206	1,121166078	0,04667	POLDIP3	polymerase (DNA-directed), delta interacting protein 3
0,816203046	0,18587	0,763658749	0,00324	POLE2	polymerase (DNA directed), epsilon 2 (p59 subunit)
0,845572287	0,07733	0,886381699	0,04576	POLG	polymerase (DNA directed), gamma
0,810003474	0,11429	0,819036698	0,03978	POLH	polymerase (DNA directed), eta
0,90000193	0,44731	0,838568184	0,00524	POLH	polymerase (DNA directed), eta
0,948684315	0,67436	1,181811547	0,04134	POLL	polymerase (DNA directed), lambda
0,93109482	0,49671	1,185092771	0,028	POLM	polymerase (DNA directed), mu
0,79940583	0,18261	0,732550437	0,00033	POLR1B	polymerase (RNA) I polypeptide B, 128kDa
1,096571589	0,59083	0,823020345	0,01084	POLR1B	polymerase (RNA) I polypeptide B, 128kDa
0,866937564	0,15691	0,841479482	0,00252	POLR1D	polymerase (RNA) I polypeptide D, 16kDa
0,868742185	0,18219	0,876605721	0,01775	POLR1E	polymerase (RNA) I polypeptide E, 53kDa
0,963261894	0,58212	0,883927531	0,02328	POLR2B	polymerase (RNA) II (DNA directed) polypeptide B, 140kDa
0,78132788	0,17554	0,7944344	0,0147	POLR2B	polymerase (RNA) II (DNA directed) polypeptide B, 140kDa
0,76950361	0,05685	0,880869374	0,01903	POLR2B	polymerase (RNA) II (DNA directed) polypeptide B, 140kDa
1,004167543	0,97776	1,173648178	0,00414	POLR2C	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa
0,999307093	0,99194	1,111108729	0,01659	POLR2C	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa
1,118061851	0,33647	0,863339559	0,02002	POLR2D	polymerase (RNA) II (DNA directed) polypeptide D
0,798851916	0,37065	0,792234811	0,02512	POLR2J4	polymerase (RNA) II (DNA directed) polypeptide J4, pseudogene
0,915733686	0,35103	0,901250463	0,02164	POLR3B	polymerase (RNA) III (DNA directed) polypeptide B
0,735093668	0,21906	0,727490342	0,00001	POLR3B	polymerase (RNA) III (DNA directed) polypeptide B
0,775930854	0,08712	0,905006463	0,04124	POLR3C	polymerase (RNA) III (DNA directed) polypeptide C (62kD)
1,096571589	0,35618	1,151089491	0,00887	POLR3D	polymerase (RNA) III (DNA directed) polypeptide D, 44kDa
0,815637493	0,18549	0,897510051	0,01848	POLR3E	polymerase (RNA) III (DNA directed) polypeptide E (80kD)
0,866937564	0,42045	0,76950361	0,00556	POLR3E	polymerase (RNA) III (DNA directed) polypeptide E (80kD)
0,807201075	0,1725	0,864537231	0,04829	POLR3F	polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa
0,647072827	0,08379	0,635515845	0,00001	POLR3G	polymerase (RNA) III (DNA directed) polypeptide G (32kD)
0,844986384	0,1131	0,788400174	0,01081	POLR3G	polymerase (RNA) III (DNA directed) polypeptide G (32kD)
0,965936329	0,61096	0,868742185	0,00204	POLR3G	polymerase (RNA) III (DNA directed) polypeptide G (32kD)
1,080725402	0,45667	1,20664392	0,00729	POM121L9P	POM121 membrane glycoprotein-like 9, pseudogene
0,936921447	0,75675	0,729510172	0,00165	POMP	proteasome maturation protein
0,503477775	0,09337	0,749499801	0,00768	PON2	paraoxonase 2
1,148698355	0,39576	1,258757174	0,00356	PORCN	porcupine homolog (Drosophila)
1,057750964	0,68348	1,104198847	0,04255	POU2F1	POU class 2 homeobox 1
0,62546454	0,10277	0,612592666	0,00009	POU2F3	POU class 2 homeobox 3
0,96996191	0,75134	1,147902414	0,04047	POU5F1B	POU class 5 homeobox 1B
0,950659101	0,66737	1,114966219	0,03204	POU5F1P3	POU class 5 homeobox 1 pseudogene 3
1,086734863	0,37542	1,20664392	0,00059	POU5F2	POU domain class 5, transcription factor 2
1,152686347	0,08592	1,283425898	0,00067	POU6F1	POU class 6 homeobox 1
1,078480432	0,39264	1,168777249	0,00987	POU6F1	POU class 6 homeobox 1
1,025267238	0,79576	1,121943481	0,03948	POU6F2	POU class 6 homeobox 2
1,054091423	0,59495	1,185092771	0,01597	PP13	hypothetical LOC100129503
0,922742493	0,29882	0,855002178	0,00335	PPA2	pyrophosphatase (inorganic) 2
0,937571096	0,83298	0,784584098	0,02173	PPA2	pyrophosphatase (inorganic) 2
1,033830736	0,92604	0,820741609	0,01686	PPA2	pyrophosphatase (inorganic) 2
0,755236293	0,05239	0,764718139	0,00005	PPA2	pyrophosphatase (inorganic) 2
1,32592576	0,10253	1,252664439	0,00074	PPAPDC1A	phosphatidic acid phosphatase type 2 domain containing 1A
0,797192477	0,21165	0,815072332	0,00409	PPAPDC2	phosphatidic acid phosphatase type 2 domain containing 2
0,804408371	0,07192	0,85797053	0,01113	PPARA	peroxisome proliferator-activated receptor alpha
0,788400174	0,05512	0,801625329	0,00069	PPARD	peroxisome proliferator-activated receptor delta
0,934975198	0,79818	0,823591017	0,00203	PPARGC1B	peroxisome proliferator-activated receptor gamma, coactivator 1 beta
0,856188285	0,42413	0,821310701	0,02255	PPAT	phosphoribosyl pyrophosphate amidotransferase
0,906890329	0,42442	0,846745312	0,02845	PPAT	phosphoribosyl pyrophosphate amidotransferase
1,171210181	0,07273	1,340712592	0	PPEF1	protein phosphatase, EF-hand calcium binding domain 1
0,804966138	0,30372	0,773246337	0,00078	PPFIA1	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1
0,776468875	0,14187	0,821880187	0,04465	PPFIA1	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1
0,849096246	0,15938	0,857376037	0,02059	PPFIA1	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1
1,162314108	0,13552	1,219255094	0,00067	PPFIA2	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 2
0,824162085	0,0663	0,738669032	0,00128	PPFIA3	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3
0,745355193	0,08304	0,585605091	0,00013	PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin beta 1)
1,031683179	0,72769	1,125838586	0,01744	PPFIBP2	PTPRF interacting protein, binding protein 2 (liprin beta 2)
0,883927531	0,11321	0,922742493	0,04639	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,828744904	0,19684	0,783497187	0,00017	PPIA	peptidylprolyl isomerase A (cyclophilin A)
0,869947353	0,76316	1,204972315	0,04909	PPIB	peptidylprolyl isomerase B (cyclophilin B)
0,690158677	0,07331	0,815637493	0,00953	PPIC	peptidylprolyl isomerase C (cyclophilin C)
0,688725023	0,43707	0,670821112	0,02362	PPIF	peptidylprolyl isomerase F
0,733566672	0,39633	0,731028724	0,0004	PPIG	peptidylprolyl isomerase G (cyclophilin G)
0,677362489	0,08053	0,823020345	0,00105	PPIG	peptidylprolyl isomerase G (cyclophilin G)
0,824162085	0,34172	0,785128119	0,00089	PPIG	peptidylprolyl isomerase G (cyclophilin G)
1,055553718	0,59092	1,121166078	0,01827	PPIH	peptidylprolyl isomerase H (cyclophilin H)
1,00765376	0,93851	1,189207115	0,01653	PPIL2	peptidylprolyl isomerase (cyclophilin)-like 2
1,112650121	0,3254	1,157490217	0,00376	PPIL2	peptidylprolyl isomerase (cyclophilin)-like 2
1,058484395	0,61785	1,192508872	0,00146	PPIL2	peptidylprolyl isomerase (cyclophilin)-like 2
1,118061851	0,30977	1,17609125	0,00163	PPIL2	peptidylprolyl isomerase (cyclophilin)-like 2
0,940826108	0,73928	0,838568184	0,04494	PPIL4	peptidylprolyl isomerase (cyclophilin)-like 4
0,858565436	0,19699	0,817335328	0,00601	PPIP5K1	diphosphoinositol pentakisphosphate kinase 1
0,983502074	0,91168	0,819036698	0,00732	PPM1A	protein phosphatase, Mg2+/Mn2+ dependent, 1A
0,844400887	0,5261	0,65747138	0,00021	PPM1A	protein phosphatase, Mg2+/Mn2+ dependent, 1A

0,78024548	0,22717	0,809442217	0,00705	PPM1A	protein phosphatase, Mg2+/Mn2+ dependent, 1A
0,730522189	0,22249	0,683967652	0,00025	PPM1A	protein phosphatase, Mg2+/Mn2+ dependent, 1A
0,903752727	0,53009	0,846745312	0,0191	PPM1B	protein phosphatase, Mg2+/Mn2+ dependent, 1B
1,0132569	0,94956	0,825305409	0,04126	PPM1B	protein phosphatase, Mg2+/Mn2+ dependent, 1B
0,727994774	0,17957	0,70514898	0,00625	PPM1D	protein phosphatase, Mg2+/Mn2+ dependent, 1D
1,014662547	0,87298	1,167158102	0,0156	PPM1F	protein phosphatase, Mg2+/Mn2+ dependent, 1F
1,199139914	0,32992	1,208317843	0,03675	PPM1G	protein phosphatase, Mg2+/Mn2+ dependent, 1G
0,893785162	0,15159	0,895025071	0,01986	PPM1H	protein phosphatase, Mg2+/Mn2+ dependent, 1H
0,866336856	0,53258	1,271913007	0,04191	PPM1K	protein phosphatase, Mg2+/Mn2+ dependent, 1K
1,038139271	0,83639	0,732550437	0,00129	PPM1L	protein phosphatase, Mg2+/Mn2+ dependent, 1L
1,113421618	0,31404	1,20664392	0,01008	PPM1N	protein phosphatase, Mg2+/Mn2+ dependent, 1N (putative)
1,136029265	0,25223	1,132883885	0,02357	PPOX	protoporphyrinogen oxidase
0,796088099	0,34226	0,77916458	0,0074	PPP1CB	protein phosphatase 1, catalytic subunit, beta isozyme
0,737134609	0,0882	0,767905135	0,00193	PPP1CB	protein phosphatase 1, catalytic subunit, beta isozyme
0,968618189	0,83468	1,204972315	0,01338	PPP1R10	protein phosphatase 1, regulatory (inhibitor) subunit 10
0,967947027	0,73506	0,837987135	0,00758	PPP1R11	protein phosphatase 1, regulatory (inhibitor) subunit 11
0,772175133	0,18896	0,735093668	0,00011	PPP1R12A	protein phosphatase 1, regulatory (inhibitor) subunit 12A
0,985549337	0,94709	0,839731493	0,01525	PPP1R12A	protein phosphatase 1, regulatory (inhibitor) subunit 12A
1,126619228	0,27879	1,161508732	0,02414	PPP1R12B	protein phosphatase 1, regulatory (inhibitor) subunit 12B
0,716977624	0,05479	0,757858283	0,0005	PPP1R13L	protein phosphatase 1, regulatory (inhibitor) subunit 13 like
0,571965487	0,06469	0,820172911	0,04757	PPP1R14B	protein phosphatase 1, regulatory (inhibitor) subunit 14B
1,126619228	0,19965	1,140763716	0,01479	PPP1R14D	protein phosphatase 1, regulatory (inhibitor) subunit 14D
0,951977908	0,68733	0,803850991	0,02654	PPP1R15B	protein phosphatase 1, regulatory (inhibitor) subunit 15B
0,90312651	0,55768	0,806082831	0,0106	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subunit 2
1,02313747	0,81037	1,152686347	0,04676	PPP1R2P9	protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudogene 9
1,057018041	0,53863	1,125058485	0,03702	PPP1R3B	protein phosphatase 1, regulatory (inhibitor) subunit 3B
0,552099424	0,1068	0,81056512	0,00029	PPP1R7	protein phosphatase 1, regulatory (inhibitor) subunit 7
0,812815602	0,09041	0,839731493	0,00442	PPP1R8	protein phosphatase 1, regulatory (inhibitor) subunit 8
1,122721422	0,27054	1,139973273	0,00871	PPP1R9A	protein phosphatase 1, regulatory (inhibitor) subunit 9A
1,155085785	0,32458	1,311302014	0,04438	PPP1R9B	protein phosphatase 1, regulatory (inhibitor) subunit 9B
0,894404902	0,39587	0,735093668	0,00152	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isozyme
0,806082831	0,41714	0,607097442	0	PPP2CA	protein phosphatase 2, catalytic subunit, alpha isozyme
0,808320869	0,12415	0,716977624	0,0001	PPP2CB	protein phosphatase 2, catalytic subunit, beta isozyme
0,899378312	0,47569	0,790041312	0,01191	PPP2R2A	protein phosphatase 2, regulatory subunit B, alpha
1,032398535	0,78336	1,240567298	0,0027	PPP2R2B	protein phosphatase 2, regulatory subunit B, beta
1,00695555	0,96492	0,786762445	0,00288	PPP2R3C	protein phosphatase 2, regulatory subunit B'', gamma
0,72597914	0,38407	0,817335328	0,04026	PPP2R5C	protein phosphatase 2, regulatory subunit B', gamma
0,839731493	0,29729	0,820741609	0,00947	PPP2R5C	protein phosphatase 2, regulatory subunit B', gamma
0,935623498	0,73823	0,839149637	0,00649	PPP2R5E	protein phosphatase 2, regulatory subunit B', epsilon isoform
0,915099168	0,6604	0,886996305	0,01411	PPP2R5E	protein phosphatase 2, regulatory subunit B', epsilon isoform
0,885153765	0,40051	0,794985251	0,00657	PPP3CA	protein phosphatase 3, catalytic subunit, alpha isozyme
1,127400412	0,07294	1,120389214	0,02	PPP3CC	protein phosphatase 3, catalytic subunit, gamma isozyme
0,731028724	0,06362	0,767905135	0,00027	PPP4R1	protein phosphatase 4, regulatory subunit 1
1,038139271	0,70564	1,161508732	0,00903	PPP4R1L	protein phosphatase 4, regulatory subunit 1-like
0,844400887	0,27222	0,748980467	0,00144	PPP4R2	protein phosphatase 4, regulatory subunit 2
1,051172909	0,55359	1,165541198	0,00894	PPP5C	protein phosphatase 5, catalytic subunit
0,907519155	0,55106	0,865736566	0,0034	PPP6C	protein phosphatase 6, catalytic subunit
0,897510051	0,56815	0,833931044	0,02272	PPP6C	protein phosphatase 6, catalytic subunit
0,948026965	0,7061	0,906261938	0,02065	PPPDE1	PPPDE peptidase domain containing 1
0,736113431	0,26012	0,699308041	0,00005	PPPDE1	PPPDE peptidase domain containing 1
0,77271055	0,06317	0,847332435	0,01161	PPPDE1	PPPDE peptidase domain containing 1
0,773782497	0,17025	0,835666959	0,03106	PPRC1	peroxisome proliferator-activated receptor gamma, coactivator-related 1
0,819604608	0,30282	0,811689581	0,00094	PPTC7	PTC7 protein phosphatase homolog (S. cerevisiae)
0,827596816	0,33799	0,806641759	0,01068	PPTC7	PTC7 protein phosphatase homolog (S. cerevisiae)
0,91319825	0,27472	0,848507902	0,01434	PPWD1	peptidylprolyl isomerase domain and WD repeat containing 1
1,090507733	0,29417	1,132883885	0,03461	PPY2	pancreatic polypeptide 2
1,251796459	0,05003	1,225185332	0,00004	PQLC3	PQ loop repeat containing 3
0,982139595	0,90385	1,137605228	0,03028	PRADC1	protease-associated domain containing 1
1,189207115	0,06881	1,220946513	0,00006	PRAMEF10	PRAME family member 10
0,959264119	0,68708	1,174461971	0,02571	PRAP1	proline-rich acidic protein 1
1,053361036	0,76521	1,319507911	0,00076	PRB1	proline-rich protein BstNI subfamily 1
1,157490217	0,39098	1,219255094	0,00593	PRB1	proline-rich protein BstNI subfamily 1
1,094293701	0,51144	1,279872414	0,00024	PRB1	proline-rich protein BstNI subfamily 1
1,115739322	0,29537	1,215036792	0,00449	PRB4	proline-rich protein BstNI subfamily 4
1,114966219	0,28616	1,181811547	0,01108	PRCD	progressive rod-cone degeneration
1,20163605	0,09224	1,204137381	0,01227	PRCD	progressive rod-cone degeneration
1,339783602	0,22085	1,424050196	0,00139	PRDM1	PR domain containing 1, with ZNF domain
0,824733549	0,40499	0,775930854	0,00177	PRDM10	PR domain containing 10
0,976031761	0,88236	1,098854218	0,03434	PRDM15	PR domain containing 15
0,992404375	0,95351	0,868742185	0,02847	PRDM2	PR domain containing 2, with ZNF domain
0,905006463	0,42848	0,852044095	0,00139	PRDM4	PR domain containing 4
0,857376037	0,28306	0,812252396	0,00016	PRDM4	PR domain containing 4
1,100378609	0,27773	1,099616149	0,03088	PRDM9	PR domain containing 9
0,578745108	0,08227	0,879649076	0,02138	PRDX2	peroxiredoxin 2
0,709561678	0,05418	0,859160755	0,04076	PRELID1	PRELI domain containing 1
1,078480432	0,34052	1,124278924	0,01845	PRELID2	PRELI domain containing 2
1,049716684	0,62916	1,188383105	0,01016	PRELP	proline/arginine-rich end leucine-rich repeat protein
1,125058485	0,19934	0,84264683	0,0173	PREP	prolyl endopeptidase
0,74277646	0,14742	0,863938187	0,01756	PREPL	prolyl endopeptidase-like
1,108800644	0,2153	0,863339559	0,03995	PRG2	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)
0,931740429	0,66929	1,164733586	0,04053	PRIC285	peroxisomal proliferator-activated receptor A interacting complex 285
1,02313747	0,85802	1,126619228	0,04964	PRIC285	peroxisomal proliferator-activated receptor A interacting complex 285
0,982820599	0,84478	1,123499903	0,03829	PRINS	psoriasis associated RNA induced by stress (non-protein coding)
0,778624691	0,30794	0,881480158	0,04982	PRKAB2	protein kinase, AMP-activated, beta 2 non-catalytic subunit
0,742261785	0,22506	0,822450069	0,00875	PRKAB2	protein kinase, AMP-activated, beta 2 non-catalytic subunit
1,219255094	0,08969	1,175276328	0,01821	PRKACB	protein kinase, cAMP-dependent, catalytic, beta
1,099616149	0,27744	1,107264584	0,01738	PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit
0,81056512	0,28982	0,828170661	0,00234	PRKAR2A	protein kinase, cAMP-dependent, regulatory, type II, alpha
1,107264584	0,28171	1,139183377	0,0222	PRKCB	protein kinase C, beta
1,003471749	0,98888	1,222640278	0,0113	PRKCD	protein kinase C, delta
0,97874165	0,86797	1,111108729	0,02371	PRKCE	protein kinase C, epsilon
1,096571589	0,20084	1,124278924	0,01518	PRKCG	protein kinase C, gamma
0,84323111	0,51413	0,728499557	0,00023	PRKCI	protein kinase C, iota
0,715984371	0,14537	0,802181166	0,01706	PRKCI	protein kinase C, iota
1,107264584	0,48259	1,25353302	0,01192	PRKCSH	protein kinase C substrate 80K-H
1,244874235	0,39116	1,257884972	0,02717	PRKD2	protein kinase D2
1,237990291	0,39338	1,255271991	0,01868	PRKD2	protein kinase D2
1,105730653	0,43353	1,134455485	0,0238	PRKD3	protein kinase D3
0,85797053	0,62931	0,69640574	0,00413	PRKRA	protein kinase, interferon-inducible double stranded RNA dependent activator
0,740719899	0,19604	0,870550563	0,04066	PRKXP1	protein kinase, X-linked, pseudogene 1
0,873572896	0,17189	0,782411782	0,00702	PRKY	protein kinase, Y-linked
0,905006463	0,38181	0,807201075	0,01275	PRMT10	protein arginine methyltransferase 10 (putative)
0,953959551	0,78534	1,159899655	0,00948	PRMT2	protein arginine methyltransferase 2
0,814507563	0,11632	0,818469182	0,00669	PRMT2	protein arginine methyltransferase 2

0,723969086	0,20723	0,631563631	0,00026	PRMT3	protein arginine methyltransferase 3
1,138394029	0,37968	0,817902059	0,00021	PRMT5	protein arginine methyltransferase 5
0,916368645	0,53655	0,798851916	0,03734	PRMT6	protein arginine methyltransferase 6
0,825305409	0,22926	0,828744904	0,00836	PRNP	prion protein
1,147902414	0,21987	1,173648178	0,00449	PRO1768	PRO1768
0,979420298	0,88063	1,320422841	0,00962	PRODH	proline dehydrogenase (oxidase) 1
1,137605228	0,09011	1,108800644	0,04245	PROK1	prokineticin 1
1,136029265	0,3139	1,164733586	0,02822	PROL1	proline rich, lacrimal 1
0,957271458	0,65457	1,172022284	0,011	PROP1	PROP paired-like homeobox 1
1,207480591	0,14864	1,180992661	0,0136	ProSAPiP1	ProSAPiP1 protein
0,89564567	0,77904	1,147107024	0,0345	PROSC	proline synthetase co-transcribed homolog (bacterial)
0,735093668	0,07498	0,712518807	0,0003	PROSER1	proline and serine rich 1
1,159899655	0,24712	1,100378609	0,02524	PRPF18	PRP18 pre-mRNA processing factor 18 homolog (S. cerevisiae)
0,938221197	0,70076	0,855595026	0,02645	PRPF38B	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B
1,012554807	0,96898	0,745355193	0,00116	PRPF38B	PRP38 pre-mRNA processing factor 38 (yeast) domain containing B
0,722465199	0,12479	0,737134609	0,00674	PRPF39	PRP39 pre-mRNA processing factor 39 homolog (S. cerevisiae)
0,863938187	0,28465	0,844986384	0,00353	PRPF4	PRP4 pre-mRNA processing factor 4 homolog (yeast)
0,577943353	0,17738	0,767905135	0,0003	PRPF4	PRP4 pre-mRNA processing factor 4 homolog (yeast)
0,670356296	0,31733	0,762072415	0,00006	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)
0,824733549	0,40293	0,759962428	0,00015	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)
0,658383461	0,07371	0,734075318	0,00002	PRPF40A	PRP40 pre-mRNA processing factor 40 homolog A (S. cerevisiae)
0,757858283	0,23977	0,829894586	0,00095	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)
0,780786493	0,2204	0,787853886	0,01163	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)
1,030968319	0,80621	1,144724161	0,00362	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast)
0,983502074	0,88619	1,209155676	0,00867	PRPH	peripherin
1,127400412	0,16642	1,121166078	0,04574	PRPS1	phosphoribosyl pyrophosphate synthetase 1
0,892546971	0,59524	0,813379198	0,00306	PRPS2	phosphoribosyl pyrophosphate synthetase 2
0,821310701	0,05662	0,827023368	0,00609	PRPSAP2	phosphoribosyl pyrophosphate synthetase-associated protein 2
1,071030823	0,53653	1,159899655	0,01041	PRR14	proline rich 14
0,789493887	0,08294	0,865136691	0,00141	PRR14L	proline rich 14-like
1,052631155	0,71594	0,877821798	0,027	PRR14L	proline rich 14-like
1,151887642	0,09238	1,205807828	0,01777	PRR16	proline rich 16
1,237132479	0,08047	1,256142381	0,001	PRR3	proline rich 3
1,07997656	0,44038	0,922103118	0,01554	PRR4	proline rich 4 (lacrimal)
1,237990291	0,06106	1,199139914	0,03574	PRR5	proline rich 5 (renal)
1,429984986	0,10459	1,151887642	0,04333	PRR5L	proline rich 5 like
1,016774673	0,77245	1,106497353	0,01269	PRR5L	proline rich 5 like
1,162314108	0,08678	1,118837101	0,00846	PRRC2B	proline-rich coiled-coil 2B
0,524131238	0,11462	0,633317127	0	PRRC2C	proline-rich coiled-coil 2C
0,883315051	0,51492	0,868140228	0,00439	PRRC2C	proline-rich coiled-coil 2C
0,692074858	0,16093	0,846745312	0,02552	PRRC2C	proline-rich coiled-coil 2C
0,619424349	0,0539	0,658383461	0,00401	PRRC2C	proline-rich coiled-coil 2C
1,038139271	0,71407	1,184271612	0,0007	PRRG3	proline rich Gla (G-carboxyglutamic acid) 3 (transmembrane)
0,598324482	0,17161	0,717474767	0,00074	PRRG4	proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)
1,130530567	0,41737	1,140763716	0,0333	PRRT1	proline-rich transmembrane protein 1
1,217566019	0,10793	1,235418637	0,02796	PRSS22	protease, serine, 22
1,053361036	0,59985	1,209994089	0,04734	PRSS23	protease, serine, 23
1,25092908	0,07675	1,354724977	0,00009	PRSS33	protease, serine, 33
1,090507733	0,25458	1,264879542	0,00013	PRSS47	protease, serine, 47
1,194991205	0,07317	1,145517898	0,00932	PRSS53	protease, serine, 53
1,17772279	0,24942	1,160703914	0,00766	PRSS58	protease, serine, 58
1,234562607	0,06285	1,165541198	0,00318	PRTG	protogenin
1,412254404	0,05044	1,172834949	0,01563	PRTG	protogenin
1,073260286	0,4013	1,125058485	0,01066	PRTN3	proteinase 3
1,185092771	0,71213	1,345367209	0,00045	PSAP	prosaposin
1,139183377	0,53311	1,321338406	0,00005	PSAP	prosaposin
1,041743429	0,62792	1,350037985	0,00004	PSAPL1	prosaposin-like 1 (gene/pseudogene)
1,132883885	0,14159	1,140763716	0,04232	PSD2	pleckstrin and Sec7 domain containing 2
0,743806881	0,14708	0,674083866	0,00066	PSD3	pleckstrin and Sec7 domain containing 3
0,718968266	0,07577	0,733058379	0,00087	PSD3	pleckstrin and Sec7 domain containing 3
1,107264584	0,30164	1,286989247	0,00007	PSG11	pregnancy specific beta-1-glycoprotein 11
1,065108203	0,47938	1,143930973	0,0247	PSG2	pregnancy specific beta-1-glycoprotein 2
1,116512962	0,31115	1,172022284	0,01609	PSG9	pregnancy specific beta-1-glycoprotein 9
1,118837101	0,31108	1,264003098	0,0016	psiTPTE22	TPTE pseudogene
0,755759964	0,0984	0,785672517	0,00181	PSMA2	proteasome (prosome, macropain) subunit, alpha type, 2
0,656560563	0,20369	0,828744904	0,03919	PSMA3	proteasome (prosome, macropain) subunit, alpha type, 3
0,932386486	0,35924	0,637280314	0	PSMA3	proteasome (prosome, macropain) subunit, alpha type, 3
0,937571096	0,79028	0,722966147	0,00003	PSMA5	proteasome (prosome, macropain) subunit, alpha type, 5
0,829894586	0,11212	0,843815796	0,00267	PSMA6	proteasome (prosome, macropain) subunit, alpha type, 6
1,060687741	0,66702	1,427014506	0,00063	PSMB2	proteasome (prosome, macropain) subunit, beta type, 2
0,943438251	0,76448	0,802181166	0,02572	PSMB7	proteasome (prosome, macropain) subunit, beta type, 7
1,278985581	0,14479	1,319507911	0,00099	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)
0,85027416	0,20298	0,844986384	0,00335	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPase, 2
0,926588062	0,74237	0,66158572	0,00155	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPase, 2
0,744838732	0,07232	0,748980467	0,00069	PSMC3IP	PSMC3 interacting protein
0,786762445	0,20673	0,740719899	0,00138	PSMC6	proteasome (prosome, macropain) 26S subunit, ATPase, 6
0,610896551	0,07072	0,860949188	0,00313	PSMD1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1
0,788946841	0,09422	0,820741609	0,04614	PSMD10	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10
0,879039561	0,37258	0,782411782	0,00157	PSMD11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
0,574349177	0,12168	0,784584098	0,00111	PSMD11	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
0,832198735	0,13819	0,770571108	0,01027	PSMD12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12
0,723467443	0,0827	0,650220073	0,00057	PSMD12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12
0,773246337	0,09121	0,744322628	0	PSMD14	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14
0,655196702	0,07953	0,87417862	0,01168	PSMD2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
0,736623843	0,0636	0,821310701	0,00152	PSMD5	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5
0,936272247	0,71152	1,197478705	0,01656	PSME2	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)
0,687770909	0,07933	0,747942879	0,00177	PSME3	proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)
1,026689546	0,86182	0,779704843	0,04083	PSME4	proteasome (prosome, macropain) activator subunit 4
0,821880187	0,0712	0,852634892	0,00726	PSMG2	proteasome (prosome, macropain) assembly chaperone 2
0,967947027	0,70751	0,756808396	0,00007	PSMG4	proteasome (prosome, macropain) assembly chaperone 4
1,268391399	0,07111	1,143138335	0,04119	PSPC1	paraspeckle component 1
1,068805991	0,65324	0,81056512	0,01049	PSPC1	paraspeckle component 1
1,128964405	0,19863	1,250062303	0,00412	PSRC1	proline/serine-rich coiled-coil 1
0,858565436	0,26483	0,751580739	0,00359	PSTK	phosphoseryl-tRNA kinase
1,059218335	0,62251	1,436940177	0,00037	PSTPIP1	proline-serine-threonine phosphatase interacting protein 1
1,315854525	0,07058	1,387030969	0,0016	PTAFR	platelet-activating factor receptor
0,867538687	0,52688	0,793883931	0,02952	PTAR1	protein prenyltransferase alpha subunit repeat containing 1
1,158292806	0,21341	1,149494848	0,03885	PTBP1	polypyrimidine tract binding protein 1
0,90312651	0,63136	0,750539549	0,00025	PTCD2	pentatricopeptide repeat domain 2
0,736623843	0,06386	0,753667455	0,00149	PTCD2	pentatricopeptide repeat domain 2
0,832198735	0,07306	0,85027416	0,02742	PTCD3	Pentatricopeptide repeat domain 3
1,161508732	0,08972	1,085981856	0,03903	PTCH2	patched 2
1,125058485	0,19294	1,221793102	0,0037	PTCHD2	patched domain containing 2
1,087488391	0,4417	1,123499903	0,03839	PTCHD2	patched domain containing 2

1,093535457	0,44533	1,128182137	0,01646	PTCRA	pre T-cell antigen receptor alpha
0,782411782	0,09282	0,84323111	0,02617	PTEN	phosphatase and tensin homolog
0,820172911	0,39801	0,768437591	0,00429	PTEN	phosphatase and tensin homolog
0,604158922	0,20722	0,61985385	0,00012	PTEN	phosphatase and tensin homolog
1,073260286	0,65528	0,804408371	0,00609	PTEN	phosphatase and tensin homolog
1,143138335	0,06107	1,110338834	0,03992	PTGDR	prostaglandin D2 receptor (DP)
1,429984986	0,11883	1,788809804	0,00029	PTGDS	prostaglandin D2 synthase 21kDa (brain)
1,633537982	0,10218	2,171963713	0,00012	PTGDS	prostaglandin D2 synthase 21kDa (brain)
1,62113024	0,14693	2,02791896	0,00028	PTGDS	prostaglandin D2 synthase 21kDa (brain)
0,780786493	0,35635	0,821310701	0,00924	PTGER3	prostaglandin E receptor 3 (subtype EP3)
0,825877665	0,09765	0,889458994	0,03886	PTGER3	prostaglandin E receptor 3 (subtype EP3)
1,025267238	0,83421	1,176906737	0,02158	PTGER4	prostaglandin E receptor 4 (subtype EP4)
1,056285625	0,45367	1,101905116	0,04749	PTGES	prostaglandin E synthase
0,815072332	0,11358	0,771640088	0,00007	PTGFRN	prostaglandin F2 receptor negative regulator
1,148698355	0,11797	1,237132479	0,00428	PTGIR	prostaglandin I2 (prostacyclin) receptor (IP)
1,160703914	0,20503	1,173648178	0,04931	PTGIR	prostaglandin I2 (prostacyclin) receptor (IP)
1,150291893	0,42301	0,853226098	0,01232	PTGR2	prostaglandin reductase 2
0,903752727	0,48687	0,846158597	0,04868	PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
1,129747215	0,2532	1,21335356	0,00223	PTH2	parathyroid hormone 2
0,704172113	0,14407	0,800514811	0,00724	PTMA	prothymosin, alpha
0,683493726	0,2608	0,805524291	0,00746	PTMA	prothymosin, alpha
0,967947027	0,81716	1,189207115	0,01068	PTP4A2	protein tyrosine phosphatase type IVA, member 2
1,110338834	0,77096	1,222640278	0,00458	PTP4A2	protein tyrosine phosphatase type IVA, member 2
0,692554734	0,08211	0,711531731	0,00006	PTPLB	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b
0,667111585	0,11906	0,713507253	0,01853	PTPLB	protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b
0,814507563	0,18361	0,867538687	0,00165	PTPMT1	protein tyrosine phosphatase, mitochondrial 1
0,849684999	0,34468	0,874784765	0,02344	PTPMT1	protein tyrosine phosphatase, mitochondrial 1
1,118061851	0,39067	1,143930973	0,01308	PTPN1	protein tyrosine phosphatase, non-receptor type 1
0,490389502	0,07405	0,672683604	0,00862	PTPN11	protein tyrosine phosphatase, non-receptor type 11
0,7944344	0,2352	0,747942879	0,00088	PTPN11	protein tyrosine phosphatase, non-receptor type 11
0,787853886	0,37812	0,822450069	0,02179	PTPN13	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase)
0,97063447	0,8434	1,283425898	0,00667	PTPN18	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)
0,676424116	0,12283	0,807201075	0,00064	PTPN2	protein tyrosine phosphatase, non-receptor type 2
1,048262476	0,52594	1,102669163	0,01985	PTPN2	protein tyrosine phosphatase, non-receptor type 2
1,104964485	0,11976	1,215036792	0,00655	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
0,743291492	0,05719	0,795536484	0,00047	PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte)
1,289668251	0,16824	1,295042999	0,00372	PTPN6	protein tyrosine phosphatase, non-receptor type 6
1,129747215	0,23396	1,124278924	0,0205	PTPN7	protein tyrosine phosphatase, non-receptor type 7
1,071030823	0,42985	1,157490217	0,00726	PTPRB	protein tyrosine phosphatase, receptor type, B
1,234562607	0,08446	1,255271991	0,0078	PTPRB	protein tyrosine phosphatase, receptor type, B
0,87417862	0,556	0,794985251	0,04994	PTPRE	protein tyrosine phosphatase, receptor type, E
1,170398641	0,21139	1,301341855	0,00197	PTPRG	protein tyrosine phosphatase, receptor type, G
1,505246747	0,12925	1,247465572	0,00851	PTPRG	protein tyrosine phosphatase, receptor type, G
1,370782805	0,13566	1,338855257	0,00263	PTPRG	protein tyrosine phosphatase, receptor type, G
0,958599438	0,76759	1,359428242	0,00288	PTPRG	protein tyrosine phosphatase, receptor type, G
1,127400412	0,25328	1,095052471	0,04443	PTPRJ	protein tyrosine phosphatase, receptor type, J
1,470187336	0,08514	1,271913007	0,01207	PTPRM	protein tyrosine phosphatase, receptor type, M
1,040300267	0,61259	1,164733586	0,01604	PTPRN2	protein tyrosine phosphatase, receptor type, N polypeptide 2
1,042465761	0,64702	1,203303026	0,00348	PTPRN2	protein tyrosine phosphatase, receptor type, N polypeptide 2
0,984184022	0,816	1,094293701	0,03809	PTPRR	protein tyrosine phosphatase, receptor type, R
1,109569472	0,23862	1,267512522	0,00477	PTPRT	protein tyrosine phosphatase, receptor type, T
0,632878297	0,07606	0,547905883	0,00006	PTPRZ1	protein tyrosine phosphatase, receptor-type, Z polypeptide 1
0,819604608	0,09788	0,89688816	0,02913	PTRH2	peptidyl-tRNA hydrolase 2
0,831045862	0,10017	0,829894586	0,00685	PTRHD1	peptidyl-tRNA hydrolase domain containing 1
0,802181166	0,05763	0,845572287	0,01783	PTS	6-pyruvoyltetrahydropterin synthase
1,0132569	0,83591	1,146312186	0,00838	PTTG3P	pituitary tumor-transforming 3, pseudogene
0,817335328	0,23265	0,778085177	0,001	PURA	purine-rich element binding protein A
0,995849753	0,97776	0,821880187	0,02127	PURB	purine-rich element binding protein B
0,828170661	0,2489	0,87417862	0,03315	PUS1	pseudouridylate synthase 1
1,067325338	0,53757	0,86934456	0,02584	PUS3	pseudouridylate synthase 3
0,597081594	0,0684	0,622005827	0,00002	PUS7	pseudouridylate synthase 7 homolog (S. cerevisiae)
0,997922719	0,98642	1,120389214	0,03998	PVR	poliovirus receptor
1,358486285	0,06309	1,284315809	0,00663	PVRIG	poliovirus receptor related immunoglobulin domain containing
1,047536127	0,7083	1,137605228	0,00668	PVRL1	poliovirus receptor-related 1 (herpesvirus entry mediator C)
1,207480591	0,11999	1,196648963	0,00118	PVRL2	poliovirus receptor-related 2 (herpesvirus entry mediator B)
0,959929261	0,62595	1,162314108	0,02032	PVRL3-AS1	PVRL3 antisense RNA 1 (non-protein coding)
0,826450318	0,36487	0,744838732	0,00004	PWP1	PWP1 homolog (S. cerevisiae)
1,122721422	0,33851	1,147902414	0,0074	PWP2	PWP2 periodic tryptophan protein homolog (yeast)
0,835666959	0,27295	0,84323111	0,00391	PWP2	PWP2 periodic tryptophan protein homolog (yeast)
0,803293997	0,18063	0,816203046	0,00692	PWWP2A	PWWP domain containing 2A
0,85797053	0,25749	0,853226098	0,03928	PXMP4	peroxisomal membrane protein 4, 24kDa
1,250062303	0,05283	1,278985581	0,00465	PYCR1	pyrroline-5-carboxylate reductase 1
1,209994089	0,39985	1,244011653	0,00546	PYCR2	pyrroline-5-carboxylate reductase family, member 2
1,066585781	0,64132	1,178539408	0,00591	PYCRL	pyrroline-5-carboxylate reductase-like
1,222640278	0,14822	1,179356592	0,02445	PYGB	phosphorylase, glycogen; brain
1,01395948	0,89308	1,21335356	0,00305	PYGM	phosphorylase, glycogen, muscle
1,153485605	0,08649	1,250062303	0,00101	PYHIN1	pyrin and HIN domain family, member 1
0,736623843	0,07704	0,767905135	0,00593	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1
1,217566019	0,17644	1,180174343	0,03214	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2
1,132098902	0,41879	1,190031696	0,01112	PYY2	peptide YY, 2 (seminalplasmin)
1,125838586	0,23638	1,191682575	0,00851	PZP	pregnancy-zone protein
1,079228237	0,41514	1,134455485	0,01469	QDPR	quinoid dihydropteridine reductase
0,932386486	0,36179	0,918276162	0,04534	QDPR	quinoid dihydropteridine reductase
1,22858698	0,25388	0,874784765	0,03335	QKI	quaking homolog, KH domain RNA binding (mouse)
0,923382311	0,78362	0,821310701	0,00419	QKI	quaking homolog, KH domain RNA binding (mouse)
0,891928519	0,56875	0,854409741	0,01511	QKI	quaking homolog, KH domain RNA binding (mouse)
0,785128119	0,24731	0,806082831	0,0099	QRSL1	glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1
0,934975198	0,73815	0,889458994	0,04303	QRSL1	glutaminyl-tRNA synthase (glutamine-hydrolyzing)-like 1
0,678302164	0,10761	0,735093668	0,00065	QSER1	glutamine and serine rich 1
0,880259014	0,7181	0,76101669	0,00542	QSER1	glutamine and serine rich 1
0,675955417	0,15478	0,561749952	0,00004	QSOX1	quiescin Q6 sulfhydryl oxidase 1
0,957271458	0,78542	1,171210181	0,02498	QTRT1	queuine tRNA-ribosyltransferase 1
0,90000193	0,40979	0,768437591	0,00133	QTRTD1	queuine tRNA-ribosyltransferase domain containing 1
1,015366101	0,87544	1,17609125	0,00978	R3HDML	R3H domain containing-like
0,785128119	0,13857	0,802737389	0,00022	RAB10	RAB10, member RAS oncogene family
0,635956503	0,09837	0,656560563	0,00007	RAB11A	RAB11A, member RAS oncogene family
1,102669163	0,47102	1,187559666	0,00929	RAB11FIP5	RAB11 family interacting protein 5 (class I)
0,915099168	0,64347	0,713507253	0,00326	RAB12	RAB12, member RAS oncogene family
0,97874165	0,87293	0,729004689	0,00038	RAB14	RAB14, member RAS oncogene family
0,69640574	0,34266	0,78132788	0,0082	RAB14	RAB14, member RAS oncogene family
1,144724161	0,08803	1,089752112	0,04867	RAB15	RAB15, member RAS onocogene family
0,737134609	0,06712	0,752623374	0,00866	RAB18	RAB18, member RAS oncogene family
0,818469182	0,33142	0,701249625	0,00038	RAB18	RAB18, member RAS oncogene family
0,863339559	0,54934	0,6341957	0,00186	RAB18	RAB18, member RAS oncogene family

0,862143545	0,21257	0,808320869	0,00125	RAB1A	RAB1A, member RAS oncogene family
0,76154437	0,0784	0,802181166	0,01416	RAB21	RAB21, member RAS oncogene family
0,753145233	0,14239	0,713507253	0,0067	RAB21	RAB21, member RAS oncogene family
0,732550437	0,12449	0,722966147	0,00071	RAB22A	RAB22A, member RAS oncogene family
0,756808396	0,0959	0,743806881	0,01073	RAB22A	RAB22A, member RAS oncogene family
0,666649339	0,10479	0,76684133	0,00212	RAB27B	RAB27B, member RAS oncogene family
0,910038824	0,4716	0,826450318	0,01096	RAB2A	RAB2A, member RAS oncogene family
0,951318276	0,75559	0,804966138	0,0047	RAB2A	RAB2A, member RAS oncogene family
1,104964485	0,57044	0,803850991	0,00274	RAB2A	RAB2A, member RAS oncogene family
0,815637493	0,39856	0,898755127	0,04547	RAB2A	RAB2A, member RAS oncogene family
0,822450069	0,4288	0,729510172	0,03903	RAB2A	RAB2A, member RAS oncogene family
1,079228237	0,61444	1,212512819	0,036	RAB31	RAB31, member RAS oncogene family
0,964598185	0,92365	1,275444392	0,02663	RAB31	RAB31, member RAS oncogene family
1,194163187	0,22489	1,192508872	0,04605	RAB31	RAB31, member RAS oncogene family
1,168777249	0,57948	1,250062303	0,00182	RAB34	RAB34, member RAS oncogene family
1,102669163	0,6136	1,311302014	0,00011	RAB34	RAB34, member RAS oncogene family
1,093535457	0,38148	1,257884972	0,0102	RAB37	RAB37, member RAS oncogene family
1,159095952	0,13611	1,159095952	0,00848	RAB3B	RAB3B, member RAS oncogene family
1,147902414	0,15116	1,136029265	0,03813	RAB3C	RAB3C, member RAS oncogene family
0,774855931	0,18949	0,773246337	0,00131	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)
1,021012126	0,7787	0,853817714	0,02343	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)
0,835087919	0,3611	0,790041312	0,0397	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic)
1,151887642	0,09326	1,278985581	0,00383	RAB3IL1	RAB3A interacting protein (rabin3)-like 1
0,903752727	0,42301	0,791685866	0,00039	RAB40B	RAB40B, member RAS oncogene family
0,901250463	0,28193	0,863339559	0,02492	RAB40C	RAB40C, member RAS oncogene family
0,636397468	0,11987	0,720464874	0,01518	RAB4A	RAB4A, member RAS oncogene family
1,264003098	0,17755	1,376495602	0,00334	RAB4B	RAB4B, member RAS oncogene family
0,717972255	0,17157	0,767373048	0,0044	RAB5A	RAB5A, member RAS oncogene family
1,270150983	0,30781	1,354724977	0,0004	RAB5C	RAB5C, member RAS oncogene family
0,969289817	0,72024	0,901250463	0,04834	RAB6A	RAB6A, member RAS oncogene family
0,697371833	0,05908	0,854409741	0,00218	RAB6A	RAB6A, member RAS oncogene family
1,320422841	0,41054	1,456999114	0,0003	RAB7L1	RAB7, member RAS oncogene family-like 1
1,514666316	0,058	1,20664392	0,01704	RAB8B	RAB8B, member RAS oncogene family
1,121166078	0,74213	1,515716567	0	RABAC1	Rab acceptor 1 (prenylated)
0,924663278	0,51083	0,844986384	0,02653	RABEP1	rabaptin, RAB GTPase binding effector protein 1
1,086734863	0,38059	1,174461971	0,03087	RABEP2	rabaptin, RAB GTPase binding effector protein 2
0,856188285	0,18671	0,871154192	0,0034	RABEPK	Rab9 effector protein with kelch motifs
0,704172113	0,11152	0,852634892	0,00643	RABGAP1	RAB GTPase activating protein 1
0,731028724	0,236	0,604997045	0,00008	RABGAP1L	RAB GTPase activating protein 1-like
0,806641759	0,25016	0,746389192	0,00469	RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
0,865136691	0,76933	0,746906729	0,0167	RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
0,815637493	0,36659	0,858565436	0,02548	RACGAP1	Rac GTPase activating protein 1
0,755236293	0,15062	0,817902059	0,01158	RAD1	RAD1 homolog (S. pombe)
0,880259014	0,2474	0,873572896	0,00711	RAD1	RAD1 homolog (S. pombe)
1,089752112	0,47227	0,881480158	0,0437	RAD1	RAD1 homolog (S. pombe)
1,002776436	0,97637	0,89564567	0,04333	RAD18	RAD18 homolog (S. cerevisiae)
1,000693387	0,99528	0,905633983	0,01869	RAD18	RAD18 homolog (S. cerevisiae)
0,987600861	0,96099	0,714992493	0,01133	RAD23B	RAD23 homolog B (S. cerevisiae)
0,716977624	0,16634	0,686342216	0,00002	RAD23B	RAD23 homolog B (S. cerevisiae)
0,740719899	0,10383	0,890692901	0,04169	RAD50	RAD50 homolog (S. cerevisiae)
0,942131274	0,80812	0,780786493	0,01807	RAD51AP1	RAD51 associated protein 1
1,012554807	0,89423	1,32317144	0,00117	RAD51B	RAD51 homolog B (S. cerevisiae)
0,87175824	0,2691	0,87175824	0,0429	RAD51B	RAD51 homolog B (S. cerevisiae)
1,223488041	0,12459	1,156688184	0,00428	RAD52	RAD52 homolog (S. cerevisiae)
0,864537231	0,44056	0,829319546	0,03845	RAD54B	RAD54 homolog B (S. cerevisiae)
1,106497353	0,36299	1,229438867	0,00956	RAD54L2	RAD54-like 2 (S. cerevisiae)
0,704660378	0,05769	0,886381699	0,01341	RAE1	RAE1 RNA export 1 homolog (S. pombe)
1,07997656	0,45374	1,157490217	0,02498	RAI1	retinoic acid induced 1
0,988970916	0,94872	1,23370717	0,00394	RAI1	retinoic acid induced 1
0,891310496	0,20986	0,829894586	0,0046	RAI1	retinoic acid induced 1
1,189207115	0,29759	1,353786279	0,00093	RAI14	retinoic acid induced 14
1,161508732	0,1977	1,192508872	0,02397	RAI2	retinoic acid induced 2
0,586824089	0,12837	0,741233505	0,00002	RALBP1	ralA binding protein 1
0,991029563	0,9302	0,905633983	0,02522	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)
1,011152081	0,88647	0,905633983	0,02118	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic)
0,899378312	0,32834	1,088242442	0,04866	RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic)
1,010451446	0,93023	1,234562607	0,00215	RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic)
0,953298545	0,75292	0,813379198	0,00089	RALGAPB	Ral GTPase activating protein, beta subunit (non-catalytic)
0,842062954	0,34661	0,843815796	0,0184	RALGPS1	Ral GEF with PH domain and SH3 binding motif 1
1,044635763	0,64403	1,164733586	0,01713	RAMP1	receptor (G protein-coupled) activity modifying protein 1
0,688247801	0,05548	0,71946679	0	RAN	RAN, member RAS oncogene family
0,650220073	0,24934	0,721464343	0,005	RANBP2	RAN binding protein 2
0,825877665	0,30154	0,799960128	0,02962	RANBP2	RAN binding protein 2
0,76630998	0,2594	0,682073917	0,00042	RANBP2	RAN binding protein 2
0,815072332	0,27677	0,722966147	0,00002	RANBP6	RAN binding protein 6
0,718968266	0,12103	0,741233505	0,00481	RANBP9	RAN binding protein 9
0,801069878	0,52691	0,739693755	0,04204	RANBP9	RAN binding protein 9
1,222640278	0,35422	1,245737416	0,00242	RANGRF	RAN guanine nucleotide release factor
0,855595026	0,29687	0,880259014	0,02161	RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1
0,786217292	0,31569	0,855595026	0,01395	RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1
0,634635443	0,27105	0,688725023	0,00566	RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1
0,78024548	0,51249	0,668963777	0,00001	RAP2A	RAP2A, member of RAS oncogene family
0,842062954	0,46194	0,755236293	0,00033	RAP2A	RAP2A, member of RAS oncogene family
0,863938187	0,38959	0,752101876	0,00837	RAP2B	RAP2B, member of RAS oncogene family
0,746389192	0,28556	0,675487042	0,00045	RAP2C	RAP2C, member of RAS oncogene family
0,780786493	0,19529	0,792784137	0,01154	RAP2C	RAP2C, member of RAS oncogene family
1,074749173	0,7546	1,462057448	0,00013	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1
1,087488391	0,64148	1,321338406	0,00006	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1
1,024556823	0,92242	0,871154192	0,00815	RAPGEF2	Rap guanine nucleotide exchange factor (GEF) 2
0,947370071	0,72111	1,22858698	0,00585	RAPGEF3	Rap guanine nucleotide exchange factor (GEF) 3
0,695440986	0,24727	0,618995145	0,00008	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
0,756808396	0,07536	0,765248385	0,00036	RAPH1	Ras association (RalGDS/AF-6) and pleckstrin homology domains 1
1,165541198	0,29142	1,198309021	0,03255	RARA	retinoic acid receptor, alpha
1,200803427	0,06598	1,170398641	0,01252	RARA	retinoic acid receptor, alpha
1,041743429	0,53644	1,155085785	0,02125	RARB	retinoic acid receptor, beta
0,93109482	0,45353	0,806082831	0,005	RARS2	arginyl-tRNA synthetase 2, mitochondrial
0,640379931	0,06476	0,683020128	0,00148	RARS2	arginyl-tRNA synthetase 2, mitochondrial
0,8362464	0,42223	0,856188285	0,0245	RASA1	RAS p21 protein activator (GTPase activating protein) 1
0,831622098	0,34362	0,732042848	0,01221	RASA2	RAS p21 protein activator 2
1,262252032	0,39041	0,840313752	0,01054	RASA2	RAS p21 protein activator 2
0,821880187	0,09274	0,765248385	0,00001	RASAL2	RAS protein activator like 2
0,600401714	0,10366	0,641712949	0	RASAL2	RAS protein activator like 2
0,729004689	0,15286	0,709561678	0,00051	RASAL2	RAS protein activator like 2
0,76630998	0,05	0,833353207	0,02624	RASAL2	RAS protein activator like 2

1,366987452	0,15485	1,508380077	0,00388	RASAL3	RAS protein activator like 3
1,322254605	0,05834	1,244874235	0,01559	RASD1	RAS, dexamethasone-induced 1
0,497579861	0,0559	0,762600827	0,01728	RASEF	RAS and EF-hand domain containing
0,575544746	0,09761	0,757333158	0,01282	RASEF	RAS and EF-hand domain containing
1,164733586	0,57449	0,852044095	0,03497	RASEF	RAS and EF-hand domain containing
1,175276328	0,12101	1,221793102	0,00333	RASGRF1	Ras protein-specific guanine nucleotide-releasing factor 1
1,161508732	0,0979	1,189207115	0,0124	RASGRF1	Ras protein-specific guanine nucleotide-releasing factor 1
1,072516617	0,48668	1,243149669	0,00274	RASGRF2	Ras protein-specific guanine nucleotide-releasing factor 2
1,234562607	0,1848	1,240567298	0,03935	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated)
1,150291893	0,21834	1,168777249	0,03547	RASGRP4	RAS guanyl releasing protein 4
1,080725402	0,40796	1,212512819	0,00537	RASIP1	Ras interacting protein 1
1,069547088	0,53838	1,202469249	0,00262	RASL10A	RAS-like, family 10, member A
0,929160674	0,53318	1,17772279	0,00466	RASSF7	Ras association (RalGDS/AF-6) domain family (N-terminal) member 7
0,752101876	0,05376	0,737134609	0,00011	RAVER2	ribonucleoprotein, PTB-binding 2
0,783497187	0,26333	0,720464874	0,00232	RB1CC1	RB1-inducible coiled-coil 1
0,772175133	0,1374	0,759435845	0,0172	RBAK	RB-associated KRAB zinc finger
0,70759708	0,10249	0,753145233	0,0005	RBAK	RB-associated KRAB zinc finger
0,818469182	0,59053	0,729510172	0,00305	RBBP4	retinoblastoma binding protein 4
0,613442489	0,05804	0,791137301	0,03256	RBBP5	retinoblastoma binding protein 5
0,922742493	0,71064	0,727490342	0,00672	RBBP6	retinoblastoma binding protein 6
0,639936207	0,12052	0,755236293	0,0047	RBBP6	retinoblastoma binding protein 6
0,71449707	0,16796	0,717474767	0,00042	RBBP6	retinoblastoma binding protein 6
0,541487523	0,11977	0,71449707	0,00013	RBBP6	retinoblastoma binding protein 6
0,8362464	0,11407	0,867538687	0,00944	RBBP7	retinoblastoma binding protein 7
0,780786493	0,18033	0,721964598	0,00001	RBBP9	retinoblastoma binding protein 9
0,984866443	0,86688	1,160703914	0,00128	RBFOX1	RNA binding protein, fox-1 homolog (C. elegans) 1
0,742261785	0,17799	0,810003474	0,01462	RBFOX2	RNA binding protein, fox-1 homolog (C. elegans) 2
1,051172909	0,62501	0,86154616	0,01716	RBFOX2	RNA binding protein, fox-1 homolog (C. elegans) 2
0,834509281	0,13682	0,833931044	0,01726	RBL1	retinoblastoma-like 1 (p107)
1,141554707	0,22206	1,297738767	0,00736	RBM12B	RNA binding motif protein 12B
1,084477409	0,69262	0,729004689	0,00906	RBM12B	RNA binding motif protein 12B
1,227735684	0,11059	1,182631	0,01343	RBM14	RNA binding motif protein 14
1,088997015	0,60785	0,844986384	0,01794	RBM14	RNA binding motif protein 14
1,086734863	0,5165	1,143930973	0,0346	RBM19	RNA binding motif protein 19
1,237132479	0,15448	1,155085785	0,01534	RBM24	RNA binding motif protein 24
0,741747467	0,38561	0,784584098	0,0047	RBM25	RNA binding motif protein 25
0,65747138	0,07373	0,677832163	0,00007	RBM25	RNA binding motif protein 25
0,774855931	0,17522	0,807760778	0,02658	RBM25	RNA binding motif protein 25
1,085229372	0,59585	0,808320869	0,02309	RBM26-AS1	RBM26 antisense RNA 1 (non-protein coding)
1,041743429	0,83253	0,889458994	0,03515	RBM27	RNA binding motif protein 27
0,820741609	0,21691	0,817902059	0,00646	RBM27	RNA binding motif protein 27
0,721464343	0,0768	0,71400199	0,00298	RBM3	RNA binding motif (RNP1, RRM) protein 3
0,938221197	0,51002	1,215036792	0,02241	RBM33	RNA binding motif protein 33
1,224336392	0,15085	1,261377409	0,02917	RBM38	RNA binding motif protein 38
0,97063447	0,92558	0,716977624	0,00141	RBM39	RNA binding motif protein 39
0,647072827	0,1018	0,745872013	0,00094	RBM41	RNA binding motif protein 41
0,991716731	0,93324	0,86154616	0,02482	RBM45	RNA binding motif protein 45
0,77916458	0,13483	0,847919965	0,03191	RBM8A	RNA binding motif protein 8A
0,781869643	0,08907	0,670356296	0,00555	RBMS1	RNA binding motif, single stranded interacting protein 1
1,219255094	0,0679	1,252664439	0,00232	RBMS2	RNA binding motif, single stranded interacting protein 2
1,160703914	0,21928	1,220946513	0,00213	RBMS2	RNA binding motif, single stranded interacting protein 2
1,118061851	0,171	1,185092771	0,0005	RBMS2	RNA binding motif, single stranded interacting protein 2
1,083725967	0,19576	1,102669163	0,0401	RBMS3	RNA binding motif, single stranded interacting protein 3
1,147902414	0,11078	1,167967395	0,04986	RBMS3	RNA binding motif, single stranded interacting protein 3
1,094293701	0,18161	1,104964485	0,025	RBMY2FP	RNA binding motif protein, Y-linked, family 2, member F pseudogene
1,112650121	0,18099	1,152686347	0,00552	RBP4	retinol binding protein 4, plasma
0,801625329	0,19855	0,825877665	0,01798	RBPJ	recombination signal binding protein for immunoglobulin kappa J region
1,41519416	0,17478	1,293248932	0,02496	RBPMS	RNA binding protein with multiple splicing
0,670356296	0,0994	0,828744904	0,00541	RC3H1	ring finger and CCCH-type domains 1
0,950659101	0,82184	0,835666959	0,03306	RC3H2	ring finger and CCCH-type domains 2
0,754712984	0,13594	0,815637493	0,00433	RC3H2	ring finger and CCCH-type domains 2
1,025978145	0,93118	0,859756486	0,00816	RC3H2	ring finger and CCCH-type domains 2
0,927873476	0,47401	0,754712984	0,00218	RCAN3	RCAN family member 3
0,78132788	0,09947	0,759962428	0,00209	RCAN3	RCAN family member 3
1,098854218	0,41953	1,117287138	0,00553	RCBTB2	regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2
0,935623498	0,59598	1,114193651	0,02357	RCCD1	RCC1 domain containing 1
1,049716684	0,80407	0,808320869	0,03117	RCHY1	ring finger and CHY zinc finger domain containing 1
1,076240125	0,52826	0,871154192	0,02912	RCHY1	ring finger and CHY zinc finger domain containing 1
0,949342121	0,49711	0,89564567	0,02647	RCL1	RNA terminal phosphate cyclase-like 1
1,25353302	0,06762	1,255271991	0,01261	RCN1	reticulocalbin 1, EF-hand calcium binding domain
1,107264584	0,68969	0,898132373	0,03734	RCN2	reticulocalbin 2, EF-hand calcium binding domain
1,00695555	0,96533	0,877213549	0,03372	RCN2	reticulocalbin 2, EF-hand calcium binding domain
1,068065408	0,77914	1,374588696	0,00155	RCN3	reticulocalbin 3, EF-hand calcium binding domain
1,0181852	0,88751	0,825877665	0,00872	RCOR1	REST corepressor 1
0,851453708	0,24974	0,892546971	0,02796	RDBP	RD RNA binding protein
0,782954296	0,26638	0,789493887	0,00456	RDH11	retinol dehydrogenase 11 (all-trans/9-cis/11-cis)
0,702222438	0,17638	0,62676651	0,00119	RDH13	retinol dehydrogenase 13 (all-trans/9-cis)
0,786762445	0,13663	0,698339266	0	RDH14	retinol dehydrogenase 14 (all-trans/9-cis/11-cis)
1,01395948	0,86692	1,226884977	0,00483	RDH16	retinol dehydrogenase 16 (all-trans)
1,094293701	0,33232	1,141554707	0,04868	RDH5	retinol dehydrogenase 5 (11-cis/9-cis)
1,009751298	0,90775	1,210833084	0,00977	RDH8	retinol dehydrogenase 8 (all-trans)
0,812815602	0,2957	0,804408371	0,00679	RDX	radixin
1,100378609	0,28591	1,343503426	0,02652	RECK	reversion-inducing-cysteine-rich protein with kazal motifs
0,963929808	0,66313	1,156688184	0,03047	RECQL4	RecQ protein-like 4
1,030253954	0,89292	1,179356592	0,01628	REEP5	receptor accessory protein 5
0,682546859	0,05369	0,905633983	0,04824	REEP5	receptor accessory protein 5
1,068805991	0,44233	1,10343374	0,0474	REG1A	regenerating islet-derived 1 alpha
1,139183377	0,21546	1,142346247	0,00357	REG1B	regenerating islet-derived 1 beta
1,170398641	0,09733	1,245737416	0,0015	REG1P	regenerating islet-derived 1 pseudogene
0,971980988	0,86459	0,864537231	0,01622	REL	v-rel reticuloendotheliosis viral oncogene homolog (avian)
1,057750964	0,71554	1,156688184	0,04937	RELB	v-rel reticuloendotheliosis viral oncogene homolog B
1,190856849	0,15882	1,161508732	0,0315	RELT	RELT tumor necrosis factor receptor
1,163926534	0,16033	1,127400412	0,02653	REN	renin
0,831622098	0,19803	0,90000193	0,022	RER1	RER1 retention in endoplasmic reticulum 1 homolog (S. cerevisiae)
1,050444544	0,5923	1,151089491	0,0148	RET	ret proto-oncogene
0,712025098	0,12994	0,698339266	0,00026	REV1	REV1 homolog (S. cerevisiae)
0,854409741	0,54507	0,692554734	0,00002	REV1	REV1 homolog (S. cerevisiae)
0,747424624	0,20229	0,750539549	0,01021	REV3L	REV3-like, catalytic subunit of DNA polymerase zeta (yeast)
0,839731493	0,13202	0,87539133	0,01622	RFC1	replication factor C (activator 1) 1, 145kDa
0,949342121	0,77708	0,863938187	0,00873	RFC3	replication factor C (activator 1) 3, 38kDa
1,041021598	0,67522	1,155886707	0,00405	RFC3	replication factor C (activator 1) 3, 38kDa
0,777007269	0,13442	0,711531731	0,00029	RFC5	replication factor C (activator 1) 5, 36.5kDa
1,119612889	0,26841	1,132098902	0,02816	RFFL	ring finger and FYVE-like domain containing 1
0,897510051	0,56946	0,859756486	0,01679	RFFL	ring finger and FYVE-like domain containing 1

0,738157203	0,13527	0,702222438	0,00018	RFFL	ring finger and FYVE-like domain containing 1
1,030253954	0,82728	0,885153765	0,02598	RFFL	ring finger and FYVE-like domain containing 1
0,890075733	0,14311	0,858565436	0,02352	RFPL1	ret finger protein-like 1
0,979420298	0,76718	1,089752112	0,01866	RFTN1	raftlin, lipid raft linker 1
1,079228237	0,4175	1,17609125	0,02093	RFTN2	raftlin family member 2
0,839149637	0,60312	0,866336856	0,04012	RFWD2	ring finger and WD repeat domain 2
0,800514811	0,18618	0,70270935	0,0004	RFX2	regulatory factor X, 2 (influences HLA class II expression)
1,011853201	0,84122	1,088997015	0,01412	RFX3	regulatory factor X, 3 (influences HLA class II expression)
0,976031761	0,81547	0,830470024	0,04916	RFX3	regulatory factor X, 3 (influences HLA class II expression)
1,123499903	0,24414	1,197478705	0,0018	RFX5	regulatory factor X, 5 (influences HLA class II expression)
0,853226098	0,35287	0,780786493	0,0427	RFX7	regulatory factor X, 7
1,108032348	0,71246	0,856188285	0,02127	RFX7	regulatory factor X, 7
1,271031689	0,15621	0,859756486	0,02033	RG9MTD2	RNA (guanine-9-) methyltransferase domain containing 2
1,53261996	0,07329	1,330529041	0,00387	RGL1	ral guanine nucleotide dissociation stimulator-like 1
0,934327347	0,38812	1,141554707	0,00612	RGL3	ral guanine nucleotide dissociation stimulator-like 3
0,839731493	0,2145	0,832198735	0,01067	RGMB	RGM domain family, member B
0,770571108	0,09621	0,744838732	0,0261	RGMB	RGM domain family, member B
0,594603558	0,06647	0,693515485	0,01217	RGNEF	190 kDa guanine nucleotide exchange factor
1,016774673	0,81337	1,130530567	0,02035	RGR	retinal G protein coupled receptor
1,101905116	0,19893	1,131314463	0,00295	RGS1	regulator of G-protein signaling 1
0,710546022	0,10722	0,784584098	0,02755	RGS12	regulator of G-protein signaling 12
1,175276328	0,23262	1,299539062	0,0029	RGS16	regulator of G-protein signaling 16
1,061423209	0,4703	1,134455485	0,02707	RGS22	regulator of G-protein signaling 22
1,420107359	0,17772	2,200757219	0,00051	RGS4	regulator of G-protein signaling 4
1,358486285	0,1066	1,851892045	0,0002	RGS4	regulator of G-protein signaling 4
1,284315809	0,41172	1,520978753	0,02559	RGS5	regulator of G-protein signaling 5
1,367935304	0,13366	1,312211255	0,04712	RGS5	regulator of G-protein signaling 5
0,962594443	0,7434	1,234562607	0,00338	RGS6	regulator of G-protein signaling 6
1,129747215	0,28901	1,193335743	0,00637	RHBDD1	rhomboid domain containing 1
0,902500727	0,71229	1,159899655	0,04125	RHBDD2	rhomboid domain containing 2
0,66342257	0,06114	0,8962667	0,0311	RHBDF1	rhomboid 5 homolog 1 (Drosophila)
0,862741345	0,29614	0,868140228	0,04299	RHBDF2	rhomboid 5 homolog 2 (Drosophila)
0,720964436	0,15351	0,70027816	0,02952	RHBDL2	rhomboid, veinlet-like 2 (Drosophila)
1,076240125	0,37896	1,140763716	0,01174	RHBDL3	rhomboid, veinlet-like 3 (Drosophila)
1,178539408	0,05129	1,111879158	0,04639	RHD	Rh blood group, D antigen
0,912565489	0,48271	0,868742185	0,02888	RHEB	Ras homolog enriched in brain
0,986916546	0,88467	1,106497353	0,03107	RHEBL1	Ras homolog enriched in brain like 1
1,086734863	0,4594	1,153485605	0,00401	RHO	rhodopsin
1,070288698	0,43133	1,114966219	0,02937	RHO	rhodopsin
1,074749173	0,31372	1,083725967	0,04514	RHOA	ras homolog gene family, member A
1,095811766	0,26581	1,356604327	0	RHOBTB2	Rho-related BTB domain containing 2
1,07549439	0,58873	1,181811547	0,02815	RHOBTB3	Rho-related BTB domain containing 3
1,139973273	0,25343	1,143930973	0,00405	RHOBTB3	Rho-related BTB domain containing 3
1,195819797	0,19832	1,295042999	0,00217	RHOF	ras homolog gene family, member F (in filopodia)
1,173648178	0,16092	1,241427492	0,01542	RHOJ	ras homolog gene family, member J
1,200803427	0,13857	1,343503426	0,00333	RHOJ	ras homolog gene family, member J
1,022428531	0,79921	1,374588696	0,00013	RHOJ	ras homolog gene family, member J
1,144724161	0,11743	1,260503392	0,00205	RHOJ	ras homolog gene family, member J
0,76101669	0,30284	0,775930854	0,00642	RHOT1	ras homolog gene family, member T1
0,785672517	0,19931	0,840313752	0,00622	RHOT1	ras homolog gene family, member T1
1,025978145	0,85316	1,146312186	0,02716	RHOT2	ras homolog gene family, member T2
1,096571589	0,31966	1,180992661	0,01097	RHOT2	ras homolog gene family, member T2
1,039579435	0,78025	1,212512819	0,0086	RHOT2	ras homolog gene family, member T2
1,426025717	0,07213	1,202469249	0,00423	RHOU	ras homolog gene family, member U
1,116512962	0,28964	1,122721422	0,02398	RHOU	ras homolog gene family, member U
0,973329374	0,8996	0,777007269	0,00681	RIF1	RAP1 interacting factor homolog (yeast)
0,863938187	0,44983	0,718968266	0,00045	RIF1	RAP1 interacting factor homolog (yeast)
0,90000193	0,3306	0,859160755	0,0296	RIF1	RAP1 interacting factor homolog (yeast)
0,552865327	0,09864	0,557096825	0,00163	RIF1	RAP1 interacting factor homolog (yeast)
1,197478705	0,10307	1,184271612	0,0059	RILP	Rab interacting lysosomal protein
1,080725402	0,39309	1,185914499	0,01286	RIMKLA	ribosomal modification protein rimK-like family member A
1,020304659	0,86565	0,918276162	0,03119	RIMKLA	ribosomal modification protein rimK-like family member A
1,195819797	0,1532	1,341642225	0,00005	RIMS2	regulating synaptic membrane exocytosis 2
1,016774673	0,8285	1,214194884	0,01135	RIMS4	regulating synaptic membrane exocytosis 4
1,281647924	0,12646	1,336074078	0,00161	RIN2	Ras and Rab interactor 2
1,148698355	0,29422	1,135242102	0,01471	RIN3	Ras and Rab interactor 3
0,755236293	0,23176	0,722966147	0,00006	RIOK1	RIO kinase 1 (yeast)
0,780786493	0,08378	0,823020345	0,00677	RIOK2	RIO kinase 2 (yeast)
1,048262476	0,75533	0,828744904	0,0238	RIOK2	RIO kinase 2 (yeast)
0,708087719	0,06039	0,738157203	0,00007	RIOK3	RIO kinase 3 (yeast)
0,639049682	0,24065	0,676424116	0,00051	RIOK3	RIO kinase 3 (yeast)
1,065108203	0,40662	1,164733586	0,00112	RIOK3	RIO kinase 3 (yeast)
0,953959551	0,73994	1,114966219	0,00837	RIPK3	receptor-interacting serine-threonine kinase 3
1,284315809	0,0515	1,208317843	0,01081	RIPPLY2	ripply2 homolog (zebrafish)
0,933679945	0,79094	0,803850991	0,04475	RIT1	Ras-like without CAAX 1
0,838568184	0,42365	0,790589117	0,01462	RIT1	Ras-like without CAAX 1
1,151089491	0,2014	1,167158102	0,01449	RLBP1	retinaldehyde binding protein 1
0,944747041	0,65273	0,878430468	0,01226	RLF	rearranged L-myc fusion
1,101905116	0,69895	0,747424624	0,01577	RLIM	ring finger protein, LIM domain interacting
1,126619228	0,33714	1,30224419	0,00614	RLIM	ring finger protein, LIM domain interacting
1,199139914	0,0657	1,191682575	0,02676	RLTPR	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing
0,906261938	0,65863	0,777546036	0,00216	RMI1	RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae)
1,183451022	0,15395	1,106497353	0,04394	RMST	rhabdomyosarcoma 2 associated transcript (non-protein coding)
1,159095952	0,49239	1,816296835	0	RNASE1	ribonuclease, RNase A family, 1 (pancreatic)
1,111879158	0,39052	1,114966219	0,02752	RNASE3	ribonuclease, RNase A family, 3
0,961927455	0,84065	0,847332435	0,02114	RNASEH1	ribonuclease H1
0,840313752	0,15181	0,893785162	0,0415	RNASEH1	ribonuclease H1
1,267512522	0,05387	1,128964405	0,0276	RNASEH2C	ribonuclease H2, subunit C
0,957271458	0,59015	1,329607108	0,00039	RNASEH2C	ribonuclease H2, subunit C
0,665264521	0,36207	1,158292806	0,01085	RNASEK	ribonuclease, RNase K
1,437936533	0,25774	1,43097652	0,00002	RNASET2	ribonuclease T2
0,820741609	0,22539	0,762072415	0,03228	RNF11	ring finger protein 11
0,978063473	0,91577	0,828170661	0,0183	RNF111	ring finger protein 111
1,058484395	0,59944	1,16634937	0,01325	RNF112	ring finger protein 112
1,033114388	0,76093	1,17772279	0,00296	RNF113A	ring finger protein 113A
0,865136691	0,42136	0,902500727	0,00634	RNF114	ring finger protein 114
1,038139271	0,84235	1,143930973	0,02558	RNF114	ring finger protein 114
1,159095952	0,11328	1,28877463	0,00154	RNF125	ring finger protein 125
0,911301281	0,79014	0,828170661	0,01029	RNF13	ring finger protein 13
0,802181166	0,19098	0,801625329	0,00421	RNF13	ring finger protein 13
0,991716731	0,97844	1,327765158	0,00027	RNF130	ring finger protein 130
1,126619228	0,22016	1,132098902	0,01358	RNF133	ring finger protein 133
0,777546036	0,0531	0,782954296	0,00053	RNF135	ring finger protein 135
0,791685866	0,05401	0,753145233	0,00004	RNF135	ring finger protein 135

0,798851916	0,187	0,686818117	0,0002	RNF138	ring finger protein 138
0,915733686	0,64264	0,673616788	0,00041	RNF138	ring finger protein 138
0,911933166	0,53652	0,840313752	0,00163	RNF139	ring finger protein 139
0,820172911	0,111	0,777546036	0,00095	RNF141	ring finger protein 141
0,705637922	0,10745	0,681129017	0,00032	RNF141	ring finger protein 141
0,726482525	0,26847	0,800514811	0,00003	RNF144B	ring finger protein 144B
1,056285625	0,53044	1,173648178	0,0241	RNF145	ring finger protein 145
0,825305409	0,0904	0,87417862	0,02081	RNF149	ring finger protein 149
1,082224645	0,52115	1,25353302	0,00268	RNF157	ring finger protein 157
1,237990291	0,07784	1,147107024	0,00237	RNF157	ring finger protein 157
0,853817714	0,50865	0,872967591	0,04989	RNF168	ring finger protein 168
0,964598185	0,64732	0,901250463	0,02222	RNF17	ring finger protein 17
0,76154437	0,15484	0,744322628	0,02099	RNF170	ring finger protein 170
0,822450069	0,37365	0,804408371	0,00535	RNF170	ring finger protein 170
1,060687741	0,50005	1,128964405	0,00443	RNF186	ring finger protein 186
1,0453601	0,6304	1,155085785	0,02854	RNF187	ring finger protein 187
1,262252032	0,06103	1,216722359	0,00396	RNF187	ring finger protein 187
0,774319028	0,15648	0,783497187	0,02331	RNF19A	ring finger protein 19A
0,76154437	0,23035	0,741233505	0,00268	RNF19A	ring finger protein 19A
1,251796459	0,19757	1,327765158	0,00622	RNF207	ring finger protein 207
0,929804943	0,42253	1,143930973	0,01384	RNF207	ring finger protein 207
1,217566019	0,06175	1,187559666	0,00362	RNF212	ring finger protein 212
1,057018041	0,74141	1,199139914	0,02635	RNF213	ring finger protein 213
1,303147149	0,45669	1,20163605	0,04195	RNF213	ring finger protein 213
1,099616149	0,42059	1,185092771	0,01113	RNF213	ring finger protein 213
1,131314463	0,11295	1,17609125	0,01876	RNF213	ring finger protein 213
1,190856849	0,05197	1,29145735	0,00014	RNF214	ring finger protein 214
0,882091365	0,51456	0,81056512	0,00889	RNF219	ring finger protein 219
1,038859103	0,6978	1,164733586	0,00964	RNF219	ring finger protein 219
0,965936329	0,83524	1,194991205	0,02081	RNF220	ring finger protein 220
1,048262476	0,80237	1,130530567	0,02513	RNF24	ring finger protein 24
0,955945318	0,6484	0,85086373	0,04634	RNF34	ring finger protein 34
1,063632673	0,69109	1,137605228	0,00679	RNF5	ring finger protein 5
0,717474767	0,14794	0,678302164	0,0015	RNF6	ring finger protein (C3H2C3 type) 6
0,859160755	0,5126	0,674083866	0,00582	RNFT1	ring finger protein, transmembrane 1
1,100378609	0,38699	1,247465572	0,00147	RNFT2	ring finger protein, transmembrane 2
1,212512819	0,08679	1,139973273	0,00669	RNFT2	ring finger protein, transmembrane 2
1,124278924	0,1575	1,157490217	0,00375	RNGTT	RNA guanylyltransferase and 5'-phosphatase
0,919550046	0,53136	0,7944344	0,00386	RNLS	renalase, FAD-dependent amine oxidase
0,833353207	0,08117	0,814507563	0,00324	RNMTL1	RNA methyltransferase like 1
0,667574152	0,17572	0,778624691	0,00767	RNPC3	RNA-binding region (RNP1, RRM) containing 3
0,729004689	0,06251	0,721464343	0,00412	RNPC3	RNA-binding region (RNP1, RRM) containing 3
1,200803427	0,19868	1,221793102	0,02231	RNPEPL1	arginyl aminopeptidase (aminopeptidase B)-like 1
0,693515485	0,16124	0,657015814	0	ROBO2	roundabout, axon guidance receptor, homolog 2 (Drosophila)
0,888226796	0,52184	1,162314108	0,0205	ROGDI	rogdi homolog (Drosophila)
0,788946841	0,41974	0,711531731	0,00263	ROR1	receptor tyrosine kinase-like orphan receptor 1
1,170398641	0,19775	1,182631	0,04635	ROR2	receptor tyrosine kinase-like orphan receptor 2
1,172834949	0,13014	1,150291893	0,01099	ROR2	receptor tyrosine kinase-like orphan receptor 2
1,209155676	0,07248	1,167967395	0,02586	RORC	RAR-related orphan receptor C
1,115739322	0,17394	1,121166078	0,02794	ROS1	c-ros oncogene 1 , receptor tyrosine kinase
0,977385766	0,91311	0,753145233	0,02549	RP2	retinitis pigmentosa 2 (X-linked recessive)
0,840313752	0,48853	0,835666959	0,00473	RP9	retinitis pigmentosa 9 (autosomal dominant)
0,978063473	0,7311	0,90062598	0,02383	RP9P	retinitis pigmentosa 9 pseudogene
0,63860688	0,22865	0,771105413	0,04736	RPA1	replication protein A1, 70kDa
1,080725402	0,56048	1,158292806	0,0153	RPA2	replication protein A2, 32kDa
0,925304428	0,57842	1,114966219	0,04012	RPA4	replication protein A4, 30kDa
0,732042848	0,08756	0,793333843	0,01733	RPAIN	RPA interacting protein
0,812815602	0,13976	0,824162085	0,00082	RPAP2	RNA polymerase II associated protein 2
0,875998315	0,48537	0,745355193	0,00867	RPAP3	RNA polymerase II associated protein 3
0,784584098	0,16471	0,813943185	0,00489	RPE	ribulose-5-phosphate-3-epimerase
0,675487042	0,16177	0,72597914	0,00709	RPE	ribulose-5-phosphate-3-epimerase
0,964598185	0,77201	0,856781955	0,00484	RPGR	retinitis pigmentosa GTPase regulator
0,921464186	0,40615	0,917004043	0,04318	RPL10	ribosomal protein L10
1,199971382	0,08118	1,125838586	0,01168	RPL13	ribosomal protein L13
0,953959551	0,6505	0,790041312	0,00036	RPL13	ribosomal protein L13
0,890692901	0,3548	0,810003474	0,00047	RPL13	ribosomal protein L13
1,037419937	0,70086	1,204972315	0,00162	RPL13AP17	ribosomal protein L13a pseudogene 17
0,450625231	0,08859	0,871154192	0,01339	RPL14	ribosomal protein L14
0,610050255	0,07199	0,873572896	0,00688	RPL14	ribosomal protein L14
1,046810282	0,77578	0,807760778	0,00464	RPL15	ribosomal protein L15
0,691116103	0,10201	0,835087919	0,02982	RPL17	ribosomal protein L17
0,598324482	0,15219	0,909408252	0,02178	RPL19	ribosomal protein L19
0,840313752	0,10801	0,768437591	0,00035	RPL23	ribosomal protein L23
0,976031761	0,88567	0,839149637	0,01345	RPL23AP7	ribosomal protein L23a pseudogene 7
0,752623374	0,12786	0,6341957	0,00002	RPL27A	ribosomal protein L27a
0,463294031	0,12953	0,892546971	0,00281	RPL29	ribosomal protein L29
0,493458273	0,15977	0,908148418	0,00861	RPL29	ribosomal protein L29
0,658839976	0,14177	0,903752727	0,03132	RPL3	ribosomal protein L3
0,946713631	0,40321	0,886996305	0,005	RPL30	ribosomal protein L30
0,686818117	0,05924	0,680185426	0,0001	RPL31	ribosomal protein L31
0,938871747	0,41808	0,898755127	0,01883	RPL35A	ribosomal protein L35a
0,581157054	0,05303	0,684441907	0,0003	RPL37A	ribosomal protein L37a
0,690637224	0,07008	0,897510051	0,0061	RPL4	ribosomal protein L4
0,632439771	0,10827	0,910669834	0,03492	RPL4	ribosomal protein L4
0,628071191	0,17093	0,905633983	0,04614	RPL5	ribosomal protein L5
0,8362464	0,24697	0,76101669	0,00227	RPL5	ribosomal protein L5
0,552865327	0,08681	0,920187651	0,02925	RPL6	ribosomal protein L6
0,998614666	0,9911	0,787853886	0,00247	RPL7	ribosomal protein L7
1,424050196	0,13152	1,272794935	0,01887	RPN1	ribophorin I
0,980099415	0,9705	1,426025717	0,00006	RPN2	ribophorin II
1,268391399	0,09884	1,199139914	0,04285	RPP25	ribonuclease P/MRP 25kDa subunit
0,87539133	0,22309	0,752623374	0,00116	RPP30	ribonuclease P/MRP 30kDa subunit
0,804966138	0,07144	0,921464186	0,03719	RPP30	ribonuclease P/MRP 30kDa subunit
1,208317843	0,10626	1,229438867	0,00003	RPPH1	ribonuclease P RNA component H1
0,736623843	0,23949	0,787853886	0,02786	RPRD1A	regulation of nuclear pre-mRNA domain containing 1A
0,689202576	0,18583	0,763658749	0,00862	RPRD1A	regulation of nuclear pre-mRNA domain containing 1A
0,785672517	0,24715	0,787853886	0,00187	RPRD1A	regulation of nuclear pre-mRNA domain containing 1A
1,083725967	0,36613	1,121166078	0,03732	RPS10P7	ribosomal protein S10 pseudogene 7
1,070288698	0,53966	1,209155676	0,00331	RPS12	ribosomal protein S12
0,887611337	0,11105	0,931740429	0,04958	RPS15A	ribosomal protein S15a
1,008352455	0,96237	1,205807828	0,01653	RPS16	ribosomal protein S16
1,120389214	0,43754	1,172022284	0,00606	RPS19BP1	ribosomal protein S19 binding protein 1
0,633317127	0,07111	0,739181216	0,0019	RPS24	ribosomal protein S24
0,902500727	0,76246	0,699792933	0,00943	RPS27	ribosomal protein S27

0,972654947	0,73591	1,147902414	0,01721	RPS27L	ribosomal protein S27-like
0,70270935	0,13192	0,880869374	0,00838	RPS3A	ribosomal protein S3A
1,104964485	0,57887	1,378405153	0,00313	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2
0,739693755	0,38864	0,683493726	0,00007	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5
0,666649339	0,08347	0,74277646	0,00198	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5
1,204972315	0,12701	1,215036792	0,00207	RPS6KA6	ribosomal protein S6 kinase, 90kDa, polypeptide 6
0,811689581	0,12112	0,859756486	0,01213	RPS6KA6	ribosomal protein S6 kinase, 90kDa, polypeptide 6
0,87175824	0,44362	0,77916458	0,00077	RPS6KB1	ribosomal protein S6 kinase, 70kDa, polypeptide 1
0,934975198	0,72645	0,859756486	0,02102	RPS6KB1	ribosomal protein S6 kinase, 70kDa, polypeptide 1
0,802181166	0,27069	0,76101669	0,00124	RPS6KC1	ribosomal protein S6 kinase, 52kDa, polypeptide 1
1,129747215	0,24428	1,261377409	0,00298	RPS6KL1	ribosomal protein S6 kinase-like 1
0,96996191	0,76568	0,879649076	0,02621	RPUSD2	RNA pseudouridylate synthase domain containing 2
1,059218335	0,43879	1,174461971	0,01043	RPUSD3	RNA pseudouridylate synthase domain containing 3
0,817335328	0,09708	0,841479482	0,00891	RPUSD4	RNA pseudouridylate synthase domain containing 4
0,97874165	0,92122	0,820172911	0,02555	RQCD1	RCD1 required for cell differentiation1 homolog (S. pombe)
1,148698355	0,13451	1,221793102	0,0015	RRAD	Ras-related associated with diabetes
0,789493887	0,06257	0,866937564	0,04988	RRAGC	Ras-related GTP binding C
0,813379198	0,37773	0,654742712	0,00001	RRAGD	Ras-related GTP binding D
1,190031696	0,36506	1,399585866	0	RRAS	related RAS viral (r-ras) oncogene homolog
0,949342121	0,79289	0,803293997	0,00061	RRAS2	related RAS viral (r-ras) oncogene homolog 2
1,151887642	0,576	1,378405153	0,0023	RRBP1	ribosome binding protein 1 homolog 180kDa (dog)
1,439931319	0,15305	1,712376569	0,00003	RRBP1	ribosome binding protein 1 homolog 180kDa (dog)
1,350037985	0,11597	1,437936533	0,00045	RRBP1	ribosome binding protein 1 homolog 180kDa (dog)
1,426025717	0,1283	1,388955136	0,00029	RRBP1	ribosome binding protein 1 homolog 180kDa (dog)
0,910038824	0,43788	0,868140228	0,00268	RREB1	ras responsive element binding protein 1
0,953298545	0,8396	0,745872013	0,0023	RREB1	ras responsive element binding protein 1
0,713012859	0,08713	0,732550437	0,04203	RREB1	ras responsive element binding protein 1
0,997922719	0,99001	0,804408371	0,022	RRM2	ribonucleotide reductase M2
1,124278924	0,26245	1,115739322	0,04564	RRN3P2	RNA polymerase I transcription factor homolog (S. cerevisiae) pseudogene 2
0,891310496	0,32285	0,825877665	0,02683	RRP1	ribosomal RNA processing 1 homolog (S. cerevisiae)
0,801625329	0,09051	0,835666959	0,01209	RRP12	ribosomal RNA processing 12 homolog (S. cerevisiae)
0,892546971	0,51574	0,768970416	0,00071	RRP15	ribosomal RNA processing 15 homolog (S. cerevisiae)
0,791685866	0,26214	0,617281303	0	RRP15	ribosomal RNA processing 15 homolog (S. cerevisiae)
0,891928519	0,36079	0,87175824	0,00175	RRP1B	ribosomal RNA processing 1 homolog B (S. cerevisiae)
0,793883931	0,05263	0,814507563	0,00261	RRP36	ribosomal RNA processing 36 homolog (S. cerevisiae)
0,806082831	0,30448	0,807760778	0,03604	RSBN1	round spermatid basic protein 1
1,136816973	0,4381	0,834509281	0,02355	RSBN1L	round spermatid basic protein 1-like
0,975355462	0,88232	1,146312186	0,03275	RSBN1L	round spermatid basic protein 1-like
0,739693755	0,14341	0,747942879	0,00823	RSF1	remodeling and spacing factor 1
1,062159186	0,45885	1,149494848	0,01112	RSG1	REM2 and RAB-like small GTPase 1
0,722966147	0,26667	0,866937564	0,03836	RSL1D1	ribosomal L1 domain containing 1
0,904379378	0,65063	0,738669032	0,00113	RSL1D1	ribosomal L1 domain containing 1
0,71449707	0,18634	0,735093668	0,01521	RSL24D1	ribosomal L24 domain containing 1
0,905633983	0,56926	0,827596816	0,01197	RSL24D1	ribosomal L24 domain containing 1
1,065108203	0,54264	1,204137381	0,00481	RSPH3	radial spoke 3 homolog (Chlamydomonas)
0,720464874	0,0744	0,8362464	0,04764	RSPH3	radial spoke 3 homolog (Chlamydomonas)
1,110338834	0,37128	1,185092771	0,04384	RSPO4	R-spondin 4
0,868742185	0,42089	0,817902059	0,02389	RSPRY1	ring finger and SPRY domain containing 1
0,993092495	0,97607	0,808881348	0,03004	RSRC1	arginine/serine-rich coiled-coil 1
0,834509281	0,43018	0,823020345	0,00206	RSRC2	arginine/serine-rich coiled-coil 2
0,774319028	0,09125	0,804966138	0,02015	RSRC2	arginine/serine-rich coiled-coil 2
0,856188285	0,1786	0,759435845	0,00128	RSU1	Ras suppressor protein 1
0,773782497	0,12998	0,827596816	0,00497	RSU1	Ras suppressor protein 1
0,979420298	0,87715	1,191682575	0,00831	RTEL1	regulator of telomere elongation helicase 1
0,786217292	0,20709	0,786217292	0,00072	RTF1	Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae)
1,060687741	0,70478	0,87417862	0,03827	RTKN2	rhotekin 2
1,028826708	0,74812	1,147902414	0,03582	RTN2	reticulon 2
0,803850991	0,31182	0,614719434	0	RTN4	reticulon 4
0,77271055	0,30505	0,763129604	0,00019	RTN4	reticulon 4
0,839731493	0,21731	0,836826243	0,0007	RTN4	reticulon 4
1,011152081	0,94202	0,849684999	0,00376	RTN4	reticulon 4
0,980779004	0,84682	1,155886707	0,03113	RTP3	receptor (chemosensory) transporter protein 3
0,846158597	0,1489	0,912565489	0,04835	RUFY1	RUN and FYVE domain containing 1
0,832775771	0,07632	0,870550563	0,02615	RUFY2	RUN and FYVE domain containing 2
0,938871747	0,54469	0,849684999	0,00633	RUFY2	RUN and FYVE domain containing 2
0,860352631	0,1492	0,742261785	0,00009	RUFY3	RUN and FYVE domain containing 3
0,905006463	0,76884	0,863339559	0,035	RUFY3	RUN and FYVE domain containing 3
0,757333158	0,20726	0,860949188	0,01198	RUFY3	RUN and FYVE domain containing 3
0,707106781	0,32708	0,778624691	0,04282	RUFY3	RUN and FYVE domain containing 3
1,383190629	0,09686	1,159899655	0,04858	RUNDC3B	RUN domain containing 3B
1,050444544	0,70266	1,237990291	0,00558	RUNX1	runt-related transcription factor 1
1,181811547	0,15091	1,184271612	0,0206	RUNX1	runt-related transcription factor 1
1,168777249	0,26347	1,265756594	0,00096	RUNX1	runt-related transcription factor 1
1,170398641	0,1425	1,453972517	0,00015	RUNX1	runt-related transcription factor 1
1,158292806	0,0615	1,216722359	0,00083	RUNX1	runt-related transcription factor 1
1,132098902	0,26083	1,349102534	0,00006	RUNX1T1	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
1,090507733	0,34507	1,186736798	0,0003	RUNX2	runt-related transcription factor 2
1,076986376	0,38029	1,219255094	0,00152	RUNX2	runt-related transcription factor 2
1,058484395	0,47768	1,127400412	0,01189	RUNX2	runt-related transcription factor 2
1,615521555	0,05899	1,294145654	0,04408	RUNX2	runt-related transcription factor 2
1,431968741	0,07432	1,702907415	0,00009	RUNX3	runt-related transcription factor 3
0,778624691	0,28691	0,829319546	0,00869	RUSC1-AS1	RUSC1 antisense RNA 1 (non-protein coding)
1,143930973	0,18732	1,246601194	0,00319	RUSC2	RUN and SH3 domain containing 2
1,153485605	0,58244	0,821310701	0,02232	RWDD1	RWD domain containing 1
0,627635996	0,13776	0,682073917	0,01203	RWDD2B	RWD domain containing 2B
0,706127202	0,13781	0,697371833	0	RWDD4	RWD domain containing 4
0,944092419	0,61521	0,852634892	0,02485	RXRA	retinoid X receptor, alpha
1,065846736	0,73972	1,251796459	0,04389	RXRB	retinoid X receptor, beta
0,808881348	0,27164	0,705637922	0,00044	RYK	RYK receptor-like tyrosine kinase
0,832198735	0,22135	0,825305409	0,00478	RYK	RYK receptor-like tyrosine kinase
1,064370182	0,53085	1,130530567	0,02094	S100A1	S100 calcium binding protein A1
0,720964436	0,0746	0,869947353	0,00191	S100A10	S100 calcium binding protein A10
1,150291893	0,15531	1,136816973	0,01947	S100PBP	S100P binding protein
1,194991205	0,08724	1,171210181	0,00921	S1PR2	sphingosine-1-phosphate receptor 2
0,863938187	0,49473	0,821880187	0,00756	SACM1L	SAC1 suppressor of actin mutations 1-like (yeast)
0,925946023	0,80779	0,698339266	0,0073	SACS	spastic ataxia of Charlevoix-Saguenay (sacsin)
0,86934456	0,227	0,880869374	0,03357	SAFB	scaffold attachment factor B
1,017479692	0,82512	1,160703914	0,03216	SAG	S-antigen; retina and pineal gland (arrestin)
0,982139595	0,79237	1,102669163	0,01594	SALL3	sal-like 3 (Drosophila)
1,070288698	0,39426	1,208317843	0,00362	SALL4	sal-like 4 (Drosophila)
1,118061851	0,32491	1,176906737	0,04208	SAMD10	sterile alpha motif domain containing 10
0,905633983	0,39449	1,136816973	0,03135	SAMD11	sterile alpha motif domain containing 11
0,774319028	0,27449	0,617281303	0,00045	SAMD12	sterile alpha motif domain containing 12
1,048989328	0,62674	1,153485605	0,00908	SAMD14	sterile alpha motif domain containing 14

1,083725967	0,46361	1,303147149	0,00643	SAMD14	sterile alpha motif domain containing 14
1,098092814	0,38885	1,180992661	0,01932	SAMD14	sterile alpha motif domain containing 14
1,240567298	0,08635	1,16634937	0,03509	SAMD15	sterile alpha motif domain containing 15
1,278985581	0,1547	1,16634937	0,02293	SAMD3	sterile alpha motif domain containing 3
0,834509281	0,2923	0,737645729	0,00876	SAMD5	sterile alpha motif domain containing 5
0,62676651	0,07306	0,668963777	0,00144	SAMD9	sterile alpha motif domain containing 9
1,563739286	0,06669	1,411275843	0,00581	SAMHD1	SAM domain and HD domain 1
0,890692901	0,15161	0,902500727	0,01592	SAP130	Sin3A-associated protein, 130kDa
0,651573575	0,05907	0,840896415	0,04117	SAP18	Sin3A-associated protein, 18kDa
1,128182137	0,48226	0,829319546	0,00351	SAP30	Sin3A-associated protein, 30kDa
0,759435845	0,16013	0,826450318	0,04533	SARS	seryl-tRNA synthetase
0,729004689	0,20441	0,835666959	0,01012	SART3	squamous cell carcinoma antigen recognized by T cells 3
1,031683179	0,83916	0,911933166	0,04092	SASS6	spindle assembly 6 homolog (C. elegans)
1,356604327	0,08314	1,173648178	0,01682	SAT1	spermidine/spermine N1-acetyltransferase 1
1,280759861	0,395	1,272794935	0,00016	SAT1	spermidine/spermine N1-acetyltransferase 1
0,848507902	0,17529	0,852044095	0,00625	SBF1	SET binding factor 1
0,836826243	0,43018	1,190031696	0,02644	SBF1	SET binding factor 1
0,860949188	0,57659	0,753667455	0,00202	SBF2	SET binding factor 2
0,924022572	0,67821	0,693515485	0,00003	SBNO1	strawberry notch homolog 1 (Drosophila)
0,858565436	0,37857	0,833931044	0,01453	SBNO1	strawberry notch homolog 1 (Drosophila)
0,804408371	0,21995	0,835666959	0,00478	SBNO1	strawberry notch homolog 1 (Drosophila)
1,28877463	0,21031	1,327765158	0,00835	SBNO2	strawberry notch homolog 2 (Drosophila)
0,680185426	0,07422	0,700763725	0,00385	SC5DL	sterol-C5-desaturase (ERG3 delta-5-desaturase homolog, S. cerevisiae)-like
0,578344092	0,10319	0,881480158	0,02088	SCAF11	SR-related CTD-associated factor 11
0,603740296	0,15261	0,799960128	0,00312	SCAF11	SR-related CTD-associated factor 11
0,846158597	0,41921	0,844986384	0,00254	SCAF11	SR-related CTD-associated factor 11
0,889458994	0,6112	0,71548826	0,00213	SCAF4	SR-related CTD-associated factor 4
0,876605721	0,3633	0,853226098	0,03705	SCAF4	SR-related CTD-associated factor 4
0,872967591	0,53441	0,708578698	0,00044	SCAF4	SR-related CTD-associated factor 4
0,883927531	0,47316	0,746906729	0,00174	SCAF8	SR-related CTD-associated factor 8
1,095052471	0,37249	0,859756486	0,00733	SCAI	suppressor of cancer cell invasion
0,641268301	0,05109	0,632878297	0,00771	SCAMP1	secretory carrier membrane protein 1
0,746906729	0,39396	0,717474767	0,01851	SCAMP1	secretory carrier membrane protein 1
0,980779004	0,85444	1,264879542	0,00036	SCAMP5	secretory carrier membrane protein 5
1,163926534	0,15803	1,143138335	0,01045	SCAMPER	sphingolipid Ca2+ release mediating protein of endoplasmic reticulum
1,071030823	0,44435	1,150291893	0,02828	SCAND2	SCAN domain containing 2 pseudogene
0,867538687	0,49803	0,743291492	0,00016	SCAPER	S-phase cyclin A-associated protein in the ER
0,828170661	0,2327	0,857376037	0,02979	SCAPER	S-phase cyclin A-associated protein in the ER
1,174461971	0,27547	0,880259014	0,04541	SCARA3	scavenger receptor class A, member 3
1,304050735	0,09556	1,473247686	0,0031	SCARA5	scavenger receptor class A, member 5 (putative)
1,057018041	0,57549	1,118837101	0,02255	SCARF1	scavenger receptor class F, member 1
0,674083866	0,06243	0,662044455	0,00048	SCARNA15	small Cajal body-specific RNA 15
1,216722359	0,08413	1,344434994	0,00048	SCCPDH	saccharopine dehydrogenase (putative)
1,086734863	0,2136	1,179356592	0,00098	SCD5	stearoyl-CoA desaturase 5
0,709561678	0,23258	0,70514898	0,03438	SCEL	sciellin
0,669891801	0,09287	0,827596816	0,00013	SCFD1	sec1 family domain containing 1
0,883927531	0,46037	0,671751713	0	SCFD2	sec1 family domain containing 2
0,990342872	0,90167	1,231998073	0,00298	SCGBL	secretoglobin-like
1,026689546	0,9202	0,773782497	0,00335	SCLT1	sodium channel and clathrin linker 1
1,033830736	0,7374	1,140763716	0,04302	SCML4	sex comb on midleg-like 4 (Drosophila)
1,119612889	0,20349	1,121943481	0,02348	SCN10A	sodium channel, voltage-gated, type X, alpha subunit
0,947370071	0,61471	1,133669413	0,0281	SCN3B	sodium channel, voltage-gated, type III, beta
0,821310701	0,0733	0,784040454	0,02294	SCN4B	sodium channel, voltage-gated, type IV, beta
1,029540083	0,66606	1,114193651	0,04392	SCN8A	sodium channel, voltage gated, type VIII, alpha subunit
0,832198735	0,45497	0,866336856	0,01911	SCO1	SCO cytochrome oxidase deficient homolog 1 (yeast)
0,798298386	0,20719	0,77916458	0,02467	SCOC	short coiled-coil protein
0,777007269	0,18546	0,796640096	0,00072	SCP2	sterol carrier protein 2
1,123499903	0,12312	1,157490217	0,01538	SCRN2	secernin 2
0,7944344	0,0755	0,817902059	0,01447	SCRN3	secernin 3
0,821880187	0,28345	0,78132788	0,00704	SCRN3	secernin 3
1,026689546	0,80112	1,147107024	0,03537	SCUBE3	signal peptide, CUB domain, EGF-like 3
0,829894586	0,39392	0,806082831	0,04061	SCYL2	SCY1-like 2 (S. cerevisiae)
0,921464186	0,72077	0,848507902	0,03551	SCYL3	SCY1-like 3 (S. cerevisiae)
0,726986259	0,44503	0,801069878	0,00356	SDAD1	SDA1 domain containing 1
0,586417475	0,18083	0,869947353	0,01223	SDC1	syndecan 1
1,215879283	0,19376	1,217566019	0,00925	SDC2	syndecan 2
1,00486382	0,95808	1,116512962	0,02374	SDC3	syndecan 3
1,0453601	0,73764	1,146312186	0,02091	SDCBP	syndecan binding protein (syntenin)
0,835666959	0,14153	0,663882579	0,0004	SDCCAG3	serologically defined colon cancer antigen 3
1,079228237	0,43112	0,842062954	0,00998	SDCCAG8	serologically defined colon cancer antigen 8
0,81056512	0,33721	0,79774524	0,02073	SDCCAG8	serologically defined colon cancer antigen 8
0,905006463	0,78744	0,578344092	0,00053	SDCCAG8	serologically defined colon cancer antigen 8
1,529436278	0,15408	1,701727459	0	SDF2L1	stromal cell-derived factor 2-like 1
1,111879158	0,52726	1,227735684	0,00141	SDF4	stromal cell derived factor 4
1,22858698	0,61678	1,199971382	0,00398	SDF4	stromal cell derived factor 4
1,178539408	0,43149	1,236275261	0,00082	SDF4	stromal cell derived factor 4
1,037419937	0,8944	1,251796459	0,0002	SDF4	stromal cell derived factor 4
1,006257823	0,96701	1,108800644	0,04416	SDHA	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
1,116512962	0,27438	1,131314463	0,01251	SDHAP1	succinate dehydrogenase complex, subunit A, flavoprotein pseudogene 1
0,746906729	0,23239	0,8362464	0,00962	SDHB	succinate dehydrogenase complex, subunit B, iron sulfur (Ip)
0,85027416	0,22474	0,801069878	0,0016	SDHC	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
0,908778116	0,45573	0,786217292	0,02233	SDHD	succinate dehydrogenase complex, subunit D, integral membrane protein
1,269270886	0,10678	1,262252032	0,00207	SDK1	sidekick homolog 1, cell adhesion molecule (chicken)
1,139973273	0,15144	1,32317144	0,00002	SDK2	sidekick homolog 2 (chicken)
0,999307093	0,99664	1,179356592	0,01253	SDK2	sidekick homolog 2 (chicken)
1,185092771	0,10811	1,132098902	0,03349	SDS	serine dehydratase
1,226884977	0,10927	1,161508732	0,03559	SEC1	secretory blood group 1
0,934975198	0,41663	1,125838586	0,03612	SEC14L3	SEC14-like 3 (S. cerevisiae)
0,959929261	0,63132	1,155886707	0,02429	SEC16B	SEC16 homolog B (S. cerevisiae)
1,164733586	0,5185	1,220946513	0,00742	SEC16B	SEC16 homolog B (S. cerevisiae)
0,807760778	0,10668	0,871154192	0,00692	SEC22A	SEC22 vesicle trafficking protein homolog A (S. cerevisiae)
1,224336392	0,2429	1,159899655	0,01128	SEC22B	SEC22 vesicle trafficking protein homolog B (S. cerevisiae) (gene/pseudogene)
1,033830736	0,74946	1,154285418	0,00449	SEC22C	SEC22 vesicle trafficking protein homolog C (S. cerevisiae)
1,165541198	0,27585	1,107264584	0,04422	SEC22C	SEC22 vesicle trafficking protein homolog C (S. cerevisiae)
0,997231251	0,96919	1,130530567	0,0371	SEC22C	SEC22 vesicle trafficking protein homolog C (S. cerevisiae)
0,84264683	0,38349	0,763129604	0,01059	SEC24B	SEC24 family, member B (S. cerevisiae)
1,100378609	0,57473	1,370782805	0,00498	SEC24D	SEC24 family, member D (S. cerevisiae)
1,212512819	0,15526	1,32592576	0,00043	SEC31B	SEC31 homolog B (S. cerevisiae)
1,172834949	0,4835	1,293248932	0,00076	SEC61A1	Sec61 alpha 1 subunit (S. cerevisiae)
1,270150983	0,51336	1,292352831	0,02605	SEC61A1	Sec61 alpha 1 subunit (S. cerevisiae)
1,040300267	0,87071	1,183451022	0,01188	SEC62	SEC62 homolog (S. cerevisiae)
1,276328769	0,0563	1,167967395	0,00861	SEC62	SEC62 homolog (S. cerevisiae)
0,921464186	0,5048	0,845572287	0,00287	SECISBP2	SECIS binding protein 2
1,073260286	0,81819	0,788400174	0,0001	SECISBP2	SECIS binding protein 2

1,027401439	0,89359	0,839149637	0,0252	SECISBP2L	SECIS binding protein 2-like
0,658383461	0,12795	0,602486157	0,00752	SECISBP2L	SECIS binding protein 2-like
0,704172113	0,13878	0,683967652	0	SEH1L	SEH1-like (S. cerevisiae)
1,23370717	0,16891	1,303147149	0,00125	SELPLG	selectin P ligand
1,208317843	0,20172	1,187559666	0,01408	SELS	selenoprotein S
0,639936207	0,18446	0,642157904	0,00874	SEMA3C	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C
1,067325338	0,39583	0,925304428	0,03389	SEMA3E	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E
1,296839555	0,2229	1,28788163	0,02201	SEMA3G	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G
1,185914499	0,08785	1,183451022	0,00723	SEMA4C	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C
1,171210181	0,14573	1,134455485	0,02099	SEMA4F	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F
1,061423209	0,52625	1,299539062	0,013	SEMA6A	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
1,109569472	0,47054	1,222640278	0,00505	SEMA6A	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
1,22010051	0,06906	1,257884972	0,00189	SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D
1,051172909	0,64347	1,363202607	0,00123	SEMA6D	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D
0,91383145	0,52932	0,734075318	0,00001	SENP2	SUMO1/sentrin/SMT3 specific peptidase 2
0,888226796	0,31902	0,798298386	0,00782	SENP5	SUMO1/sentrin specific peptidase 5
0,71548826	0,05373	0,780786493	0,00143	SENP6	SUMO1/sentrin specific peptidase 6
0,96727633	0,87497	0,791137301	0,00895	SENP6	SUMO1/sentrin specific peptidase 6
1,068065408	0,68466	0,779704843	0,00308	SENP6	SUMO1/sentrin specific peptidase 6
1,120389214	0,43133	1,189207115	0,01978	SEPP1	selenoprotein P, plasma, 1
1,033830736	0,85534	0,863938187	0,02118	SEPSECS	Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase
1,204972315	0,06305	1,215879283	0,00317	SEPT7P2	septin 7 pseudogene 2
1,172834949	0,11385	1,147107024	0,01254	SEPT7P2	septin 7 pseudogene 2
0,961260928	0,67608	0,873572896	0,01757	SEPT7P2	septin 7 pseudogene 2
1,060687741	0,66873	0,873572896	0,01128	SERAC1	serine active site containing 1
0,774855931	0,18485	0,808320869	0,01591	SERAC1	serine active site containing 1
0,501735874	0,07489	0,747424624	0,00094	SERBP1	SERPINE1 mRNA binding protein 1
0,724973416	0,09463	0,784040454	0,00048	SERBP1	SERPINE1 mRNA binding protein 1
0,615999037	0,13444	0,632439771	0	SERBP1	SERPINE1 mRNA binding protein 1
1,308578071	0,25727	1,52308874	0,00008	SERINC2	serine incorporator 2
0,671751713	0,09066	0,722465199	0,00005	SERINC5	serine incorporator 5
0,963929808	0,77137	0,887611337	0,03889	SERP1	stress-associated endoplasmic reticulum protein 1
1,10343374	0,19788	1,140763716	0,02423	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
0,910038824	0,33652	1,140763716	0,01664	SERPINA12	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12
1,155085785	0,16697	1,158292806	0,04731	SERPINA4	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4
1,123499903	0,24884	1,170398641	0,00438	SERPINA9	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 9
0,995159722	0,95761	0,841479482	0,00945	SERPINB1	serpin peptidase inhibitor, clade B (ovalbumin), member 1
0,604158922	0,15231	0,593368399	0,00028	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13
0,629378587	0,08814	0,675955417	0,00242	SERPINB13	serpin peptidase inhibitor, clade B (ovalbumin), member 13
0,8362464	0,15887	0,70270935	0,02518	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2
1,038139271	0,70701	0,831045862	0,02453	SERPINB6	serpin peptidase inhibitor, clade B (ovalbumin), member 6
1,084477409	0,47021	1,144724161	0,01013	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8
1,150291893	0,17608	1,21335356	0,01582	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9
0,880869374	0,68373	1,375541818	0,00358	SERPINF1	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1
1,189207115	0,1165	1,199971382	0,00874	SERPINF2	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2
1,094293701	0,72651	1,348167732	0,00893	SERPING1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1
1,010451446	0,96611	1,604362333	0,00224	SERPINH1	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)
0,881480158	0,19744	0,847332435	0,02687	SERTAD1	SERTA domain containing 1
0,791685866	0,19426	0,865736566	0,03473	SERTAD2	SERTA domain containing 2
0,87175824	0,50317	0,724973416	0,0001	SERTAD4	SERTA domain containing 4
0,860352631	0,39731	0,775393206	0,01535	SERTAD4	SERTA domain containing 4
0,980779004	0,84274	0,924022572	0,03106	SERTM1	serine-rich and transmembrane domain containing 1
1,022428531	0,91516	0,883315051	0,0265	SESN3	sestrin 3
0,984184022	0,92617	0,85086373	0,0133	SESTD1	SEC14 and spectrin domains 1
0,751580739	0,05271	0,808320869	0,00123	SET	SET nuclear oncogene
0,825877665	0,41539	0,829894586	0,04041	SET	SET nuclear oncogene
0,785128119	0,37882	0,773246337	0,02856	SETBP1	SET binding protein 1
0,935623498	0,61731	0,912565489	0,02256	SETD3	SET domain containing 3
1,052631155	0,58132	1,30224419	0,00133	SETD5	SET domain containing 5
0,86934456	0,72623	1,148698355	0,00861	SETD5	SET domain containing 5
0,633317127	0,19508	0,677362489	0,0004	SETD8	SET domain containing (lysine methyltransferase) 8
0,920825697	0,52129	1,205807828	0,00143	SETDB1	SET domain, bifurcated 1
0,945402117	0,48278	0,885153765	0,04483	SETDB2	SET domain, bifurcated 2
1,030253954	0,84102	1,220946513	0,00057	SETMAR	SET domain and mariner transposase fusion gene
0,90312651	0,17782	0,883315051	0,01236	SETX	senataxin
1,144724161	0,13354	1,202469249	0,00342	SEZ6L	seizure related 6 homolog (mouse)-like
1,342572503	0,06821	1,372684431	0,00073	SEZ6L2	seizure related 6 homolog (mouse)-like 2
1,43893358	0,08601	1,516767545	0,00005	SEZ6L2	seizure related 6 homolog (mouse)-like 2
1,25353302	0,06421	1,257884972	0,0044	SEZ6L2	seizure related 6 homolog (mouse)-like 2
0,845572287	0,51074	0,624598063	0,0005	SF1	splicing factor 1
0,962594443	0,7859	0,819604608	0,00822	SF3A1	splicing factor 3a, subunit 1, 120kDa
0,817902059	0,13269	0,865736566	0,02826	SF3A3	splicing factor 3a, subunit 3, 60kDa
0,852634892	0,26809	0,859160755	0,04703	SF3B1	splicing factor 3b, subunit 1, 155kDa
1,102669163	0,37671	1,127400412	0,04763	SF3B2	splicing factor 3b, subunit 2, 145kDa
0,860949188	0,22098	1,171210181	0,03978	SFI1	Sfi1 homolog, spindle assembly associated (yeast)
1,019597683	0,84746	0,877213549	0,01776	SFMBT1	Scm-like with four mbt domains 1
1,198309021	0,06874	1,163926534	0,0042	SFMBT2	Scm-like with four mbt domains 2
0,904379378	0,3758	0,752101876	0	SFPQ	splicing factor proline/glutamine-rich
0,976708529	0,89874	0,840313752	0,01535	SFR1	SWI5-dependent recombination repair 1
1,116512962	0,74634	1,493813457	0,03136	SFRP2	secreted frizzled-related protein 2
1,572434584	0,14648	1,714752073	0,01992	SFRP2	secreted frizzled-related protein 2
0,758909626	0,24024	0,784584098	0,00157	SFSWAP	splicing factor, suppressor of white-apricot homolog (Drosophila)
0,804966138	0,29981	0,894404902	0,04843	SFSWAP	splicing factor, suppressor of white-apricot homolog (Drosophila)
1,055553718	0,44083	1,080725402	0,03616	SFTA3	surfactant associated 3
1,146312186	0,27488	1,256142381	0,00996	SFTPB	surfactant protein B
0,979420298	0,80511	1,186736798	0,00219	SFTPC	surfactant protein C
1,068805991	0,77315	0,752101876	0,00238	SFXN1	sideroflexin 1
0,832198735	0,3038	0,809442217	0,02872	SFXN1	sideroflexin 1
1,158292806	0,06133	1,135242102	0,03471	SFXN2	sideroflexin 2
1,169587664	0,11353	1,118837101	0,02219	SFXN5	sideroflexin 5
1,001387256	0,98565	0,906890329	0,02957	SGK2	serum/glucocorticoid regulated kinase 2
0,705637922	0,06948	0,784040454	0,00785	SGK3	serum/glucocorticoid regulated kinase family, member 3
1,006257823	0,97918	0,886996305	0,01409	SGK494	uncharacterized serine/threonine-protein kinase SgK494
0,735603373	0,19648	0,685391402	0,01239	SGMS1	sphingomyelin synthase 1
0,759962428	0,34803	0,695923196	0,0014	SGMS2	sphingomyelin synthase 2
0,847919965	0,34369	0,831045862	0,03216	SGOL2	shugoshin-like 2 (S. pombe)
0,918276162	0,51791	0,808881348	0,00052	SGPL1	sphingosine-1-phosphate lyase 1
0,829319546	0,12089	0,8362464	0,00033	SGPL1	sphingosine-1-phosphate lyase 1
1,169587664	0,10963	1,143930973	0,01287	SGSM1	small G protein signaling modulator 1
0,76101669	0,07941	0,751059963	0,00001	SGSM2	small G protein signaling modulator 2
1,00556058	0,97504	1,235418637	0,00542	SGSM3	small G protein signaling modulator 3
1,110338834	0,43329	1,149494848	0,02143	SH2B1	SH2B adaptor protein 1
1,066585781	0,62414	1,180992661	0,00275	SH2B1	SH2B adaptor protein 1
1,386069886	0,09906	1,271031689	0,0092	SH2B2	SH2B adaptor protein 2

1,130530567	0,33207	1,155886707	0,02362	SH2D1A	SH2 domain containing 1A
1,038859103	0,61067	1,185092771	0,01405	SH2D1B	SH2 domain containing 1B
0,799960128	0,08206	0,847919965	0,04717	SH3BGRL	SH3 domain binding glutamic acid-rich protein like
1,139973273	0,16217	1,187559666	0,01778	SH3BP2	SH3-domain binding protein 2
1,076986376	0,5882	0,870550563	0,0075	SH3BP2	SH3-domain binding protein 2
0,784584098	0,09051	0,823020345	0,00234	SH3BP4	SH3-domain binding protein 4
1,054091423	0,66871	1,197478705	0,01143	SH3GL1P2	SH3-domain GRB2-like 1 pseudogene 2
0,915733686	0,64281	0,762072415	0,0084	SH3RF1	SH3 domain containing ring finger 1
1,104964485	0,41105	1,217566019	0,01341	SH3RF3	SH3 domain containing ring finger 3
1,131314463	0,64373	1,268391399	0,03568	SH3TC1	SH3 domain and tetratricopeptide repeats 1
0,644834125	0,05661	0,737645729	0,00005	SH3YL1	SH3 domain containing, Ysc84-like 1 (S. cerevisiae)
0,974679631	0,90618	0,818469182	0,01057	SHANK2	SH3 and multiple ankyrin repeat domains 2
1,02313747	0,82978	0,893785162	0,03554	SHANK2	SH3 and multiple ankyrin repeat domains 2
0,816768991	0,06719	0,79940583	0,00289	SHB	Src homology 2 domain containing adaptor protein B
1,409320755	0,1278	1,448942155	0,00168	SHC1	SHC (Src homology 2 domain containing) transforming protein 1
1,374588696	0,06581	1,304954948	0,00068	SHC1	SHC (Src homology 2 domain containing) transforming protein 1
0,963261894	0,69868	0,914465089	0,01753	SHC4	SHC (Src homology 2 domain containing) family, member 4
1,372684431	0,08207	1,216722359	0,00801	SHE	Src homology 2 domain containing E
0,960594864	0,64744	1,096571589	0,03172	SHH	sonic hedgehog
0,660211421	0,19912	0,743806881	0,01638	SHMT1	serine hydroxymethyltransferase 1 (soluble)
0,820741609	0,06836	0,866336856	0,01613	SHMT1	serine hydroxymethyltransferase 1 (soluble)
0,753667455	0,11924	0,831045862	0,0166	SHOC2	soc-2 suppressor of clear homolog (C. elegans)
0,712025098	0,24116	0,673616788	0,0013	SHPRH	SNF2 histone linker PHD RING helicase
0,840313752	0,29294	0,821310701	0,00029	SHQ1	SHQ1 homolog (S. cerevisiae)
0,879649076	0,29596	0,830470024	0,00022	SHQ1	SHQ1 homolog (S. cerevisiae)
0,722465199	0,05455	0,724973416	0,0086	SHROOM3	shroom family member 3
0,765778999	0,30953	0,637722196	0,00239	SHROOM3	shroom family member 3
0,777007269	0,1619	0,732550437	0,00029	SIAH1	seven in absentia homolog 1 (Drosophila)
1,169587664	0,38042	1,483494934	0,00037	SIGIRR	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
1,257013375	0,22042	1,36983298	0,00117	SIGIRR	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
1,31494276	0,14581	1,459020344	0,00004	SIGLEC1	sialic acid binding Ig-like lectin 1, sialoadhesin
1,048989328	0,57377	1,130530567	0,00883	SIGLEC16	sialic acid binding Ig-like lectin 16 (gene/pseudogene)
1,151887642	0,1036	1,143138335	0,01462	SIGLEC6	sialic acid binding Ig-like lectin 6
1,16634937	0,07274	1,264879542	0,00198	SIGLEC7	sialic acid binding Ig-like lectin 7
1,076986376	0,61122	1,180992661	0,00118	SIGLEC9	sialic acid binding Ig-like lectin 9
1,293248932	0,05483	1,199139914	0,0055	SIGLECP3	sialic acid binding Ig-like lectin, pseudogene 3
1,114966219	0,39369	1,125058485	0,03584	SIK1	salt-inducible kinase 1
1,072516617	0,33442	1,143930973	0,02372	SIK2	salt-inducible kinase 2
0,865736566	0,32664	0,863938187	0,03524	SIK2	salt-inducible kinase 2
0,840313752	0,1434	0,869947353	0,01866	SIK3	SIK family kinase 3
0,763129604	0,25095	0,741747467	0,00179	SIKE1	suppressor of IKBKE 1
0,987600861	0,95788	0,803293997	0,00138	SIKE1	suppressor of IKBKE 1
1,335148303	0,05444	1,278985581	0,00182	SIL1	SIL1 homolog, endoplasmic reticulum chaperone (S. cerevisiae)
0,996540263	0,98735	0,783497187	0,00019	SIN3A	SIN3 homolog A, transcription regulator (yeast)
1,276328769	0,11992	1,399585866	0,00026	SIPA1	signal-induced proliferation-associated 1
1,092020546	0,45856	0,779704843	0,00247	SIPA1L1	signal-induced proliferation-associated 1 like 1
1,00486382	0,97476	0,922103118	0,0351	SIPA1L1	signal-induced proliferation-associated 1 like 1
1,220946513	0,09388	1,139183377	0,0309	SIPA1L3	signal-induced proliferation-associated 1 like 3
1,028826708	0,861	1,218410264	0,02079	SIRPA	signal-regulatory protein alpha
1,067325338	0,38665	1,156688184	0,00172	SIRPB1	signal-regulatory protein beta 1
1,077733145	0,38019	1,155886707	0,01076	SIRPG	signal-regulatory protein gamma
0,915099168	0,74615	0,785672517	0,00622	SIRT1	sirtuin 1
1,040300267	0,76329	1,156688184	0,021	SIRT3	sirtuin 3
1,190856849	0,07376	1,238848698	0,00078	SIRT3	sirtuin 3
0,966606097	0,73559	1,148698355	0,01564	SIRT6	sirtuin 6
0,753667455	0,15846	0,914465089	0,02679	SIRT7	sirtuin 7
0,865136691	0,26443	0,85027416	0,02207	SKA2	spindle and kinetochore associated complex subunit 2
1,157490217	0,15302	1,190031696	0,00937	SKAP2	src kinase associated phosphoprotein 2
1,092020546	0,62798	1,362258035	0,01468	SKAP2	src kinase associated phosphoprotein 2
0,917639882	0,28014	0,829319546	0,01681	SKIL	SKI-like oncogene
1,163120042	0,12708	1,184271612	0,00771	SKIL	SKI-like oncogene
1,089752112	0,41408	1,190031696	0,00382	SKIV2L	superkiller viralicidic activity 2-like (S. cerevisiae)
0,79940583	0,19078	0,799960128	0,00239	SKP1	S-phase kinase-associated protein 1
0,835666959	0,3033	0,78132788	0,00036	SKP1	S-phase kinase-associated protein 1
1,38991822	0,05995	1,498999602	0,00021	SLA	Src-like-adaptor
1,244011653	0,11404	1,159899655	0,03915	SLA2	Src-like-adaptor 2
0,866336856	0,38487	0,8362464	0,03629	SLAIN2	SLAIN motif family, member 2
0,668037039	0,10201	0,687294348	0,00041	SLAIN2	SLAIN motif family, member 2
0,680657058	0,30713	0,726482525	0,0421	SLAIN2	SLAIN motif family, member 2
1,009051634	0,92236	1,141554707	0,00173	SLAMF9	SLAM family member 9
1,082224645	0,53348	1,209994089	0,01284	SLC10A1	solute carrier family 10 (sodium/bile acid cotransporter family), member 1
1,064370182	0,44169	1,244011653	0,00817	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
0,772175133	0,21199	0,774855931	0,00442	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
0,940826108	0,67705	0,87175824	0,00387	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2
0,753145233	0,25086	0,835666959	0,02	SLC12A2	solute carrier family 12 (sodium/potassium/chloride transporters), member 2
1,032398535	0,73432	1,169587664	0,00312	SLC12A3	solute carrier family 12 (sodium/chloride transporters), member 3
1,101905116	0,44877	1,17609125	0,00426	SLC12A4	solute carrier family 12 (potassium/chloride transporters), member 4
1,25353302	0,08214	1,257013375	0,00065	SLC12A5	solute carrier family 12 (potassium/chloride transporter), member 5
1,202469249	0,05651	1,147107024	0,00685	SLC13A2	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2
1,264003098	0,40146	1,731473131	0,00041	SLC13A5	solute carrier family 13 (sodium-dependent citrate transporter), member 5
1,070288698	0,32644	1,156688184	0,01272	SLC14A2	solute carrier family 14 (urea transporter), member 2
1,38991822	0,11806	1,349102534	0,00003	SLC15A3	solute carrier family 15, member 3
1,147107024	0,34144	1,200803427	0,00392	SLC16A2	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)
0,660211421	0,12021	0,500346694	0	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)
0,645281245	0,08644	0,575943821	0,00039	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)
0,798298386	0,22774	0,697371833	0,00021	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)
1,118061851	0,28669	1,192508872	0,00411	SLC17A1	solute carrier family 17 (sodium phosphate), member 1
1,231998073	0,18111	1,251796459	0,00087	SLC17A5	solute carrier family 17 (anion/sugar transporter), member 5
1,037419937	0,68254	1,127400412	0,03828	SLC19A1	solute carrier family 19 (folate transporter), member 1
1,215036792	0,1246	1,380317353	0,00091	SLC1A1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1
1,050444544	0,55608	1,097331938	0,02457	SLC1A2	solute carrier family 1 (glial high affinity glutamate transporter), member 2
1,237132479	0,2179	1,274560627	0,00196	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3
1,145517898	0,47214	1,145517898	0,03789	SLC1A4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4
1,537940831	0,05068	1,401527449	0,00009	SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5
1,20163605	0,08953	1,331451613	0,00075	SLC1A7	solute carrier family 1 (glutamate transporter), member 7
1,074749173	0,4286	1,111108729	0,04755	SLC1A7	solute carrier family 1 (glutamate transporter), member 7
1,017479692	0,85502	1,30224419	0,00007	SLC22A12	solute carrier family 22 (organic anion/urate transporter), member 12
1,304050735	0,05016	1,313121125	0,01204	SLC22A14	solute carrier family 22, member 14
0,802737389	0,31247	0,79774524	0,04188	SLC22A15	solute carrier family 22, member 15
1,099616149	0,50696	1,194991205	0,02903	SLC22A23	solute carrier family 22, member 23
1,076986376	0,51401	1,16634937	0,02095	SLC22A25	solute carrier family 22, member 25
0,857376037	0,25123	0,702222438	0,00006	SLC22A3	solute carrier family 22 (extraneuronal monoamine transporter), member 3
1,144724161	0,10259	1,123499903	0,01146	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2
0,996540263	0,96211	0,887611337	0,02513	SLC23A3	solute carrier family 23 (nucleobase transporters), member 3

1,199139914	0,1958	1,098092814	0,03121	SLC24A2	solute carrier family 24 (sodium/potassium/calcium exchanger), member 2
0,849096246	0,29786	0,777546036	0,00271	SLC24A3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3
0,888842681	0,51251	0,765248385	0,00256	SLC24A3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3
0,974679631	0,7614	0,835666959	0,00546	SLC25A10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10
1,185914499	0,05947	1,203303026	0,01858	SLC25A11	solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11
0,882702996	0,42387	0,822450069	0,00218	SLC25A12	solute carrier family 25 (mitochondrial carrier, Aralar), member 12
0,721964598	0,1947	0,750539549	0,00006	SLC25A13	solute carrier family 25, member 13 (citrin)
0,765778999	0,2434	0,822450069	0,00874	SLC25A13	solute carrier family 25, member 13 (citrin)
0,901250463	0,41933	0,871154192	0,00322	SLC25A14	solute carrier family 25 (mitochondrial carrier, brain), member 14
0,942131274	0,74909	0,809442217	0,02034	SLC25A16	solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16
1,041743429	0,73832	0,860352631	0,02126	SLC25A17	solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17
1,006257823	0,95883	1,210833084	0,01133	SLC25A18	solute carrier family 25 (mitochondrial carrier), member 18
1,056285625	0,54013	0,885153765	0,00207	SLC25A21	solute carrier family 25 (mitochondrial oxodicarboxylate carrier), member 21
0,918912883	0,68127	0,823591017	0,02342	SLC25A24	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24
1,04608494	0,74841	1,258757174	0,00776	SLC25A29	solute carrier family 25, member 29
1,148698355	0,0768	1,189207115	0,01058	SLC25A29	solute carrier family 25, member 29
0,953959551	0,58877	0,743291492	0,00022	SLC25A33	solute carrier family 25, member 33
0,865136691	0,61828	0,765778999	0,00956	SLC25A36	solute carrier family 25, member 36
1,077733145	0,77586	0,767905135	0,03832	SLC25A36	solute carrier family 25, member 36
0,934327347	0,88564	0,798298386	0,04608	SLC25A37	solute carrier family 25, member 37
0,972654947	0,73409	0,882091365	0,00439	SLC25A4	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4
1,155085785	0,15582	1,151887642	0,01779	SLC25A42	solute carrier family 25, member 42
1,004167543	0,96455	1,147902414	0,00353	SLC25A42	solute carrier family 25, member 42
0,816203046	0,11959	0,827596816	0,00477	SLC25A44	solute carrier family 25, member 44
1,338855257	0,05846	1,108032348	0,02214	SLC25A45	solute carrier family 25, member 45
0,986232704	0,92286	0,814507563	0,01466	SLC25A46	solute carrier family 25, member 46
1,084477409	0,2555	1,21167266	0,00872	SLC26A8	solute carrier family 26, member 8
1,046810282	0,70534	1,242288282	0,00517	SLC27A1	solute carrier family 27 (fatty acid transporter), member 1
0,697855382	0,31124	0,717474767	0,01172	SLC28A3	solute carrier family 28 (sodium-coupled nucleoside transporter), member 3
1,350037985	0,13072	1,264879542	0,00493	SLC29A1	solute carrier family 29 (nucleoside transporters), member 1
1,147902414	0,1853	1,122721422	0,03546	SLC29A1	solute carrier family 29 (nucleoside transporters), member 1
1,033114388	0,6408	1,180174343	0,01202	SLC29A2	solute carrier family 29 (nucleoside transporters), member 2
1,217566019	0,0911	1,153485605	0,00854	SLC29A3	solute carrier family 29 (nucleoside transporters), member 3
1,193335743	0,09625	1,202469249	0,00615	SLC29A4	solute carrier family 29 (nucleoside transporters), member 4
0,807760778	0,1134	0,768970416	0,00004	SLC2A1	solute carrier family 2 (facilitated glucose transporter), member 1
1,263127262	0,10303	1,274560627	0,00592	SLC2A11	solute carrier family 2 (facilitated glucose transporter), member 11
1,203303026	0,0834	1,167967395	0,00081	SLC2A11	solute carrier family 2 (facilitated glucose transporter), member 11
0,888226796	0,59185	0,643048742	0,00169	SLC2A13	solute carrier family 2 (facilitated glucose transporter), member 13
1	0,99977	0,825305409	0,04884	SLC2A4RG	SLC2A4 regulator
1,159095952	0,41318	1,244874235	0,00967	SLC2A5	solute carrier family 2 (facilitated glucose/fructose transporter), member 5
1,314031627	0,05822	1,295042999	0,00251	SLC2A9	solute carrier family 2 (facilitated glucose transporter), member 9
0,85797053	0,37149	0,807201075	0,0047	SLC30A1	solute carrier family 30 (zinc transporter), member 1
1,229438867	0,08734	1,188383105	0,01276	SLC30A2	solute carrier family 30 (zinc transporter), member 2
0,772175133	0,14718	0,704660378	0,00012	SLC30A4	solute carrier family 30 (zinc transporter), member 4
0,902500727	0,43086	0,820741609	0,00385	SLC30A5	solute carrier family 30 (zinc transporter), member 5
0,901875378	0,67385	0,788400174	0,00095	SLC30A9	solute carrier family 30 (zinc transporter), member 9
0,860352631	0,16066	0,762072415	0,00007	SLC31A1	solute carrier family 31 (copper transporters), member 1
1	0,99958	1,181811547	0,02	SLC33A1	solute carrier family 33 (acetyl-CoA transporter), member 1
1,094293701	0,2681	1,258757174	0,0028	SLC34A3	solute carrier family 34 (sodium phosphate), member 3
0,78132788	0,15481	0,869947353	0,01137	SLC35A1	solute carrier family 35 (CMP-sialic acid transporter), member A1
0,924663278	0,60984	0,804966138	0,04284	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3
0,557483109	0,10473	0,76154437	0,00275	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3
0,828744904	0,39971	0,70759708	0,00099	SLC35A3	solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member A3
0,976708529	0,8703	1,131314463	0,02737	SLC35C2	solute carrier family 35, member C2
1,048262476	0,85976	0,832775771	0,02472	SLC35D1	solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1
0,795536484	0,28871	0,801625329	0,00291	SLC35E1	solute carrier family 35, member E1
0,807201075	0,09722	0,782411782	0,00319	SLC35E1	solute carrier family 35, member E1
1,00765376	0,95792	0,866937564	0,00093	SLC35E1	solute carrier family 35, member E1
0,90312651	0,4177	0,859756486	0,02355	SLC35E3	solute carrier family 35, member E3
1,17609125	0,15082	1,164733586	0,00299	SLC35F1	solute carrier family 35, member F1
1,082975046	0,35084	1,188383105	0,02215	SLC36A1	solute carrier family 36 (proton/amino acid symporter), member 1
0,888842681	0,35191	0,852634892	0,0019	SLC36A1	solute carrier family 36 (proton/amino acid symporter), member 1
0,816768991	0,12009	0,854409741	0,01354	SLC37A3	solute carrier family 37 (glycerol-3-phosphate transporter), member 3
0,844400887	0,38038	0,790589117	0,00686	SLC38A1	solute carrier family 38, member 1
0,813943185	0,10672	0,87175824	0,02303	SLC38A1	solute carrier family 38, member 1
1,404444876	0,0933	1,565908593	0,00003	SLC38A10	solute carrier family 38, member 10
0,792234811	0,17824	0,86154616	0,01439	SLC38A2	solute carrier family 38, member 2
1,181811547	0,35849	1,620006947	0	SLC38A5	solute carrier family 38, member 5
1,057018041	0,74706	1,216722359	0,00911	SLC38A7	solute carrier family 38, member 7
1,226884977	0,08988	1,190856849	0,03928	SLC39A13	solute carrier family 39 (zinc transporter), member 13
1,145517898	0,43722	1,395710764	0,04369	SLC39A14	solute carrier family 39 (zinc transporter), member 14
1,147107024	0,1824	1,205807828	0,00335	SLC39A3	solute carrier family 39 (zinc transporter), member 3
1,065846736	0,52934	1,179356592	0,00892	SLC39A5	solute carrier family 39 (metal ion transporter), member 5
0,97874165	0,76039	1,116512962	0,02376	SLC41A3	solute carrier family 41, member 3
1,062895674	0,70855	1,286989247	0,00469	SLC43A3	solute carrier family 43, member 3
0,843815796	0,44582	0,855595026	0,03944	SLC44A1	solute carrier family 44, member 1
1,0132569	0,92046	0,76154437	0,02939	SLC44A3	solute carrier family 44, member 3
0,547146851	0,08947	0,61301743	0,00789	SLC44A5	solute carrier family 44, member 5
1,021720083	0,80373	1,098854218	0,03488	SLC45A2	solute carrier family 45, member 2
1,121943481	0,117	1,121943481	0,04551	SLC45A3	solute carrier family 45, member 3
1,118837101	0,18032	1,144724161	0,00904	SLC46A1	solute carrier family 46 (folate transporter), member 1
1,040300267	0,63498	1,154285418	0,00593	SLC46A1	solute carrier family 46 (folate transporter), member 1
1,192508872	0,08382	1,231998073	0,00014	SLC46A1	solute carrier family 46 (folate transporter), member 1
1,298638603	0,08171	1,275444392	0,01429	SLC46A3	solute carrier family 46, member 3
1,137605228	0,13875	1,210833084	0,00007	SLC4A1	solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)
0,841479482	0,30912	0,886381699	0,01936	SLC4A1AP	solute carrier family 4 (anion exchanger), member 1, adaptor protein
0,837987135	0,05727	1,25353302	0,00658	SLC4A3	solute carrier family 4, anion exchanger, member 3
1,098092814	0,31918	1,169587664	0,03595	SLC4A5	solute carrier family 4, sodium bicarbonate cotransporter, member 5
1,230291345	0,08638	1,229438867	0,00013	SLC4A8	solute carrier family 4, sodium bicarbonate cotransporter, member 8
1,066585781	0,38624	1,16634937	0,03921	SLC5A7	solute carrier family 5 (choline transporter), member 7
0,917639882	0,60078	0,800514811	0,01897	SLC6A15	solute carrier family 6 (neutral amino acid transporter), member 15
1,097331938	0,34311	1,225185332	0,00064	SLC6A16	solute carrier family 6, member 16
1,164733586	0,11924	1,132098902	0,02427	SLC6A19	solute carrier family 6 (neutral amino acid transporter), member 19
1,101905116	0,46072	1,22603486	0,00165	SLC6A19	solute carrier family 6 (neutral amino acid transporter), member 19
0,948684315	0,46693	1,107264584	0,04249	SLC6A2	solute carrier family 6 (neurotransmitter transporter, noradrenalin), member 2
1,07549439	0,4074	1,122721422	0,02926	SLC6A20	solute carrier family 6 (proline IMINO transporter), member 20
1,153485605	0,12574	1,120389214	0,03089	SLC6A3	solute carrier family 6 (neurotransmitter transporter, dopamine), member 3
1,011853201	0,95423	0,786762445	0,00198	SLC6A4	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
0,734075318	0,13475	0,635956503	0,00067	SLC6A4	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4
1,339783602	0,06204	1,331451613	0,01317	SLC6A6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6
1,644900137	0,05092	1,464085696	0,01066	SLC7A11	solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11
1,207480591	0,0744	1,118837101	0,03611	SLC7A14	solute carrier family 7 (orphan transporter), member 14
1,018891197	0,81798	1,155085785	0,00244	SLC7A2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 2
1,062895674	0,5546	1,124278924	0,02038	SLC7A4	solute carrier family 7 (orphan transporter), member 4

0,985549337	0,92585	1,182631	0,04456	SLC7A6	solute carrier family 7 (amino acid transporter light chain, y+L system), member 6
0,741747467	0,07516	0,767905135	0,01897	SLC7A8	solute carrier family 7 (amino acid transporter light chain, L system), member 8
1,22603486	0,13964	1,144724161	0,00179	SLC7A9	solute carrier family 7 (glycoprotein-associated amino acid transporter light chain, bo,+ system), member 9
1,16634937	0,11714	1,207480591	0,00698	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
1,069547088	0,60729	1,173648178	0,01793	SLC9A3	solute carrier family 9 (sodium/hydrogen exchanger), member 3
0,844986384	0,41455	0,760489377	0,00253	SLC9A6	solute carrier family 9 (sodium/hydrogen exchanger), member 6
1,146312186	0,21004	1,083725967	0,04024	SLC9A7	solute carrier family 9 (sodium/hydrogen exchanger), member 7
1,343503426	0,08764	1,178539408	0,00319	SLCO1C1	solute carrier organic anion transporter family, member 1C1
1,338855257	0,07262	1,528376521	0,00001	SLCO2B1	solute carrier organic anion transporter family, member 2B1
1,245737416	0,15973	1,536875181	0,00017	SLCO2B1	solute carrier organic anion transporter family, member 2B1
0,866937564	0,21235	0,777007269	0,00031	SLCO3A1	solute carrier organic anion transporter family, member 3A1
0,927873476	0,66461	0,827596816	0,0282	SLCO4A1	solute carrier organic anion transporter family, member 4A1
1,04608494	0,62842	1,122721422	0,04522	SLCO6A1	solute carrier organic anion transporter family, member 6A1
1,163120042	0,34468	1,298638603	0,00097	SLFN13	schlafen family member 13
0,733566672	0,17441	0,802181166	0,00117	SLFN5	schlafen family member 5
0,934975198	0,59277	0,750019495	0,00024	SLIT2	slit homolog 2 (Drosophila)
1,168777249	0,46506	1,25092908	0,02294	SLIT3	slit homolog 3 (Drosophila)
0,863339559	0,37849	0,647970483	0,00167	SLITRK6	SLIT and NTRK-like family, member 6
0,875998315	0,64411	0,670356296	0,00648	SLITRK6	SLIT and NTRK-like family, member 6
0,906890329	0,1384	0,86934456	0,00187	SLMAP	sarcolemma associated protein
0,774855931	0,26464	0,720964436	0,00155	SLMAP	sarcolemma associated protein
0,652477474	0,12301	0,615145672	0,00598	SLMO2	slowmo homolog 2 (Drosophila)
0,712518807	0,15732	0,792784137	0,00118	SLTM	SAFB-like, transcription modulator
0,918912883	0,66278	0,786217292	0,00484	SLU7	SLU7 splicing factor homolog (S. cerevisiae)
0,750539549	0,05267	0,798851916	0,00145	SLU7	SLU7 splicing factor homolog (S. cerevisiae)
1,230291345	0,11551	1,240567298	0,00196	SLX4	SLX4 structure-specific endonuclease subunit homolog (S. cerevisiae)
0,7944344	0,31186	0,728499557	0,00005	SMAD2	SMAD family member 2
0,725476104	0,19346	0,747942879	0,00084	SMAD2	SMAD family member 2
0,910038824	0,62638	0,853817714	0,03344	SMAD2	SMAD family member 2
1,014662547	0,95974	0,631563631	0,00028	SMAD5	SMAD family member 5
0,916368645	0,77196	0,788400174	0,00112	SMAD5	SMAD family member 5
0,750539549	0,19609	0,784040454	0,00108	SMAD5	SMAD family member 5
1,21167266	0,13578	1,115739322	0,03137	SMAD6	SMAD family member 6
0,772175133	0,10676	0,751059963	0,00105	SMAP1	small ArfGAP 1
0,906261938	0,57749	0,842062954	0,0272	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
0,835087919	0,25639	0,74277646	0,00104	SMARCA2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
0,738669032	0,07529	0,804966138	0,00819	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
0,76154437	0,08955	0,78132788	0,01074	SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
0,784584098	0,15512	0,86154616	0,00942	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1
0,632001549	0,09872	0,805524291	0,0468	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1
0,78024548	0,11131	0,669891801	0,00033	SMARCC2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2
0,78132788	0,05817	0,805524291	0,00034	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
1,016774673	0,92511	0,888226796	0,04188	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
0,920187651	0,6934	0,73153561	0,0007	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
0,961927455	0,81451	0,853226098	0,0085	SMC1A	structural maintenance of chromosomes 1A
0,697371833	0,0822	0,750539549	0,02142	SMC2	structural maintenance of chromosomes 2
0,890075733	0,44508	0,760489377	0,0002	SMC2	structural maintenance of chromosomes 2
0,863339559	0,12805	0,901250463	0,03742	SMC3	structural maintenance of chromosomes 3
0,456282744	0,06063	0,549046407	0,00096	SMC3	structural maintenance of chromosomes 3
0,757858283	0,30315	0,686818117	0,00119	SMC3	structural maintenance of chromosomes 3
0,696888619	0,08888	0,69495911	0,00005	SMC5	structural maintenance of chromosomes 5
0,833931044	0,37932	0,747424624	0,00174	SMC5	structural maintenance of chromosomes 5
0,890692901	0,15123	0,895025071	0,01928	SMC5	structural maintenance of chromosomes 5
1,015366101	0,93522	0,878430468	0,04192	SMC6	structural maintenance of chromosomes 6
0,721464343	0,32243	0,639936207	0,00061	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1
0,859160755	0,27152	0,856781955	0,0434	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1
0,933032992	0,30895	0,816768991	0,00029	SMCR7L	Smith-Magenis syndrome chromosome region, candidate 7-like
1	0,99978	1,174461971	0,00594	SMCR8	Smith-Magenis syndrome chromosome region, candidate 8
0,949342121	0,66065	0,877213549	0,01992	SMCR8	Smith-Magenis syndrome chromosome region, candidate 8
0,637722196	0,14463	0,706616822	0,04809	SMEK1	SMEK homolog 1, suppressor of mek1 (Dictyostelium)
0,978063473	0,91428	0,746389192	0,00027	SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)
0,730522189	0,09245	0,81056512	0,00013	SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)
0,708087719	0,08074	0,755236293	0,00658	SMEK2	SMEK homolog 2, suppressor of mek1 (Dictyostelium)
0,703684188	0,12014	0,827023368	0,00796	SMG1	smg-1 homolog, phosphatidylinositol 3-kinase-related kinase (C. elegans)
1,107264584	0,4649	1,2397077	0,01218	SMG7	smg-7 homolog, nonsense mediated mRNA decay factor (C. elegans)
1,151887642	0,28238	1,234562607	0,00424	SMG7	smg-7 homolog, nonsense mediated mRNA decay factor (C. elegans)
1,227735684	0,47778	0,798298386	0,04055	SMG7	smg-7 homolog, nonsense mediated mRNA decay factor (C. elegans)
0,949342121	0,72155	1,358486285	0,0008	SMG9	smg-9 homolog, nonsense mediated mRNA decay factor (C. elegans)
1,118837101	0,30133	1,204972315	0,02289	SMG9	smg-9 homolog, nonsense mediated mRNA decay factor (C. elegans)
1,121943481	0,19275	1,117287138	0,02542	SMOC1	SPARC related modular calcium binding 1
1,140763716	0,19663	1,231144413	0,01378	SMOC1	SPARC related modular calcium binding 1
1,151887642	0,10671	1,159095952	0,0043	SMOC2	SPARC related modular calcium binding 2
1,074749173	0,52164	1,133669413	0,04905	SMTN	smoothelin
1,185914499	0,08945	1,225185332	0,00012	SMTNL2	smoothelin-like 2
0,817902059	0,15784	0,78132788	0,00109	SMU1	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)
1,127400412	0,16879	0,864537231	0,02375	SMU1	smu-1 suppressor of mec-8 and unc-52 homolog (C. elegans)
0,792234811	0,162	0,862143545	0,01585	SMURF1	SMAD specific E3 ubiquitin protein ligase 1
1,100378609	0,38816	1,188383105	0,00283	SMYD1	SET and MYND domain containing 1
0,733566672	0,16444	0,673616788	0,00001	SMYD2	SET and MYND domain containing 2
0,854409741	0,10186	0,863938187	0,00284	SMYD2	SET and MYND domain containing 2
1,087488391	0,5763	1,191682575	0,01358	SMYD5	SMYD family member 5
0,916368645	0,26153	0,879039561	0,01433	SNAP29	synaptosomal-associated protein, 29kDa
1,184271612	0,1557	1,266634254	0,00355	SNAPC2	small nuclear RNA activating complex, polypeptide 2, 45kDa
0,84264683	0,11717	0,907519155	0,02499	SNAPC3	small nuclear RNA activating complex, polypeptide 3, 50kDa
1,048989328	0,71435	1,104198847	0,04878	SNAPC4	small nuclear RNA activating complex, polypeptide 4, 190kDa
1,059218335	0,58316	1,271031689	0,00149	SNCG	synuclein, gamma (breast cancer-specific protein 1)
1,073260286	0,57601	1,175276328	0,00456	SND1	staphylococcal nuclease and tudor domain containing 1
1,052631155	0,49556	1,113421618	0,01865	SNED1	sushi, nidogen and EGF-like domains 1
0,918276162	0,40451	0,827596816	0,00086	SNF8	SNF8, ESCRT-II complex subunit, homolog (S. cerevisiae)
0,730522189	0,13987	0,819604608	0,00225	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)
0,699792933	0,06437	0,733566672	0,00019	SNHG12	small nucleolar RNA host gene 12 (non-protein coding)
0,859160755	0,09488	0,880869374	0,03616	SNHG6	small nucleolar RNA host gene 6 (non-protein coding)
0,983502074	0,90694	0,793883931	0,00015	SNN	stannin
0,814507563	0,28698	0,660211421	0,00032	SNORA21	small nucleolar RNA, H/ACA box 21
1,088997015	0,29079	1,161508732	0,01289	SNORA71A	small nucleolar RNA, H/ACA box 71A
1,003471749	0,98123	0,8362464	0,01798	SNRK	SNF related kinase
0,873572896	0,36349	0,863339559	0,00321	SNRNP35	small nuclear ribonucleoprotein 35kDa (U11/U12)
0,738157203	0,06869	0,772175133	0,00001	SNRPA1	small nuclear ribonucleoprotein polypeptide A'
0,687294348	0,05427	0,862143545	0,00575	SNRPA1	small nuclear ribonucleoprotein polypeptide A'
1,064370182	0,7364	0,819036698	0,04329	SNRPA1	small nuclear ribonucleoprotein polypeptide A'
0,888226796	0,11266	0,870550563	0,00554	SNRPB2	small nuclear ribonucleoprotein polypeptide B
0,828170661	0,15906	0,854409741	0,02637	SNRPD1	small nuclear ribonucleoprotein D1 polypeptide 16kDa
0,833353207	0,38935	0,679243142	0,01708	SNRPE	small nuclear ribonucleoprotein polypeptide E
1,082975046	0,34839	1,128182137	0,03135	SNRPE	small nuclear ribonucleoprotein polypeptide E

0,985549337	0,86163	0,855002178	0,01314	SNRPG	small nuclear ribonucleoprotein polypeptide G
0,933679945	0,70006	0,774319028	0,0367	SNRPN	small nuclear ribonucleoprotein polypeptide N
1,286097483	0,11055	1,359428242	0,0041	SNRPN	small nuclear ribonucleoprotein polypeptide N
1,684125907	0,15738	1,370782805	0,02022	SNRPN	small nuclear ribonucleoprotein polypeptide N
0,803850991	0,3579	0,837406488	0,04102	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)
1,068065408	0,3448	1,132098902	0,03621	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)
0,853226098	0,41699	0,904379378	0,04306	SNW1	SNW domain containing 1
1,242288282	0,07467	1,28788163	0,001	SNW1	SNW domain containing 1
1,041743429	0,6787	1,095052471	0,03707	SNX12	sorting nexin 12
0,868742185	0,50754	0,782411782	0,00599	SNX13	sorting nexin 13
0,905006463	0,4945	0,828170661	0,01397	SNX14	sorting nexin 14
0,972654947	0,77648	0,734075318	0,01999	SNX14	sorting nexin 14
0,846745312	0,53343	0,685391402	0,00323	SNX16	sorting nexin 16
0,832198735	0,49647	0,679243142	0,00261	SNX16	sorting nexin 16
0,558643569	0,08185	0,755236293	0,03718	SNX2	sorting nexin 2
0,826450318	0,20789	0,872362706	0,01001	SNX2	sorting nexin 2
0,923382311	0,41385	1,104198847	0,02625	SNX20	sorting nexin 20
0,695440986	0,072	0,739693755	0,00083	SNX24	sorting nexin 24
0,878430468	0,28743	0,867538687	0,01353	SNX24	sorting nexin 24
0,872362706	0,15865	0,872362706	0,01108	SNX25	sorting nexin 25
1,106497353	0,5817	0,824162085	0,00598	SNX25	sorting nexin 25
0,97874165	0,7753	0,901250463	0,00865	SNX25	sorting nexin 25
0,975355462	0,81399	1,091263877	0,0451	SNX29	sorting nexin 29
1,01395948	0,9225	0,842062954	0,01729	SNX3	sorting nexin 3
1,011152081	0,94781	0,779704843	0,00133	SNX3	sorting nexin 3
0,747942879	0,20822	0,812815602	0,01888	SNX30	sorting nexin family member 30
1,16634937	0,08923	1,25092908	0,0021	SNX32	sorting nexin 32
0,848507902	0,33403	0,791137301	0,01418	SNX4	sorting nexin 4
0,743291492	0,11867	0,832775771	0,00545	SNX9	sorting nexin 9
0,749499801	0,14276	0,731028724	0,00083	SNX9	sorting nexin 9
1,125058485	0,12856	1,23370717	0,01605	SOBP	sine oculis binding protein homolog (Drosophila)
1,493813457	0,07458	1,495885758	0,00119	SOCS3	suppressor of cytokine signaling 3
1,161508732	0,3044	1,25092908	0,02069	SOCS3	suppressor of cytokine signaling 3
0,918912883	0,65572	0,79940583	0,00391	SOCS4	suppressor of cytokine signaling 4
0,906890329	0,65891	0,7944344	0,00472	SOCS5	suppressor of cytokine signaling 5
0,785128119	0,18452	0,768970416	0,00615	SOCS5	suppressor of cytokine signaling 5
0,789493887	0,35428	0,756808396	0,00023	SOCS5	suppressor of cytokine signaling 5
0,859160755	0,48539	0,844986384	0,01105	SOCS7	suppressor of cytokine signaling 7
0,790041312	0,09629	0,805524291	0,00069	SOCS7	suppressor of cytokine signaling 7
1,07997656	0,34614	1,171210181	0,03096	SOHLH1	spermatogenesis and oogenesis specific basic helix-loop-helix 1
1,065108203	0,66311	1,194163187	0,01519	SOHLH2	spermatogenesis and oogenesis specific basic helix-loop-helix 2
1,033830736	0,78693	0,842062954	0,01529	SON	SON DNA binding protein
1,047536127	0,60965	1,109569472	0,04828	SORBS1	sorbin and SH3 domain containing 1
0,935623498	0,78489	0,725476104	0,01922	SORBS1	sorbin and SH3 domain containing 1
1,101141598	0,60053	1,257884972	0,03896	SORBS2	sorbin and SH3 domain containing 2
0,865736566	0,49992	0,732550437	0,00164	SORD	sorbitol dehydrogenase
0,808320869	0,10736	0,752101876	0,00067	SORL1	sortilin-related receptor, L(DLR class) A repeats containing
0,848507902	0,42519	0,843815796	0,03397	SOS2	son of sevenless homolog 2 (Drosophila)
0,948026965	0,58531	1,164733586	0,00775	SOS2	son of sevenless homolog 2 (Drosophila)
1,21167266	0,13029	1,388955136	0,00004	SOX10	SRY (sex determining region Y)-box 10
1,121943481	0,21227	1,122721422	0,02787	SOX11	SRY (sex determining region Y)-box 11
1,194991205	0,2089	1,301341855	0,002	SOX13	SRY (sex determining region Y)-box 13
1,261377409	0,19053	1,311302014	0,01144	SOX13	SRY (sex determining region Y)-box 13
1,019597683	0,82151	1,137605228	0,02966	SOX14	SRY (sex determining region Y)-box 14
0,686818117	0,09661	0,645728675	0,00247	SOX2	SRY (sex determining region Y)-box 2
1,056285625	0,52444	1,151089491	0,02944	SOX5	SRY (sex determining region Y)-box 5
1,082224645	0,42147	1,147902414	0,01393	SOX5	SRY (sex determining region Y)-box 5
0,604158922	0,05944	0,61985385	0,00011	SOX6	SRY (sex determining region Y)-box 6
0,652477474	0,12895	0,731028724	0,00028	SOX7	SRY (sex determining region Y)-box 7
0,650670928	0,05879	0,738669032	0,00378	SOX7	SRY (sex determining region Y)-box 7
0,787307977	0,28938	0,549046407	0,00042	SOX9	SRY (sex determining region Y)-box 9
0,934327347	0,54596	0,681601304	0,0006	SOX9	SRY (sex determining region Y)-box 9
0,849684999	0,25724	0,827596816	0,00375	SP100	SP100 nuclear antigen
0,782954296	0,06595	0,660669203	0,00105	SP100	SP100 nuclear antigen
0,948026965	0,69046	0,877213549	0,03642	SP100	SP100 nuclear antigen
1,309485423	0,14001	1,237132479	0,00234	SP140L	SP140 nuclear body protein-like
1,037419937	0,75293	0,81056512	0,01552	SP2	Sp2 transcription factor
0,860352631	0,21262	0,834509281	0,01296	SP3	Sp3 transcription factor
1,084477409	0,46535	1,128964405	0,03483	SP7	Sp7 transcription factor
1,153485605	0,09208	1,130530567	0,04246	SP8	Sp8 transcription factor
0,965936329	0,83118	0,85797053	0,02016	SPA17	sperm autoantigenic protein 17
0,837987135	0,50827	0,612168196	0,0001	SPAG1	sperm associated antigen 1
1,113421618	0,20634	1,196648963	0,00139	SPAG11A	sperm associated antigen 11A
1,10343374	0,34627	1,168777249	0,01329	SPAG11B	sperm associated antigen 11B
0,898755127	0,35066	0,869947353	0,0175	SPAG17	sperm associated antigen 17
1,058484395	0,569	1,155886707	0,03513	SPAG5-AS1	SPAG5 antisense RNA 1 (non-protein coding)
1,051172909	0,55728	1,134455485	0,00893	SPAG6	sperm associated antigen 6
0,547905883	0,0608	0,493800431	0,00001	SPAG9	sperm associated antigen 9
0,72597914	0,12599	0,770037174	0,00013	SPAG9	sperm associated antigen 9
1,068805991	0,35395	1,223488041	0,00041	SPAM1	sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding)
1,317679952	0,10267	1,284315809	0,01378	SPARCL1	SPARC-like 1 (hevin)
0,840896415	0,47579	0,713507253	0,00142	SPAST	spastin
1,088997015	0,52768	1,454980684	0,00032	SPATA13	spermatogenesis associated 13
0,730522189	0,13669	0,711531731	0,00026	SPATA18	spermatogenesis associated 18 homolog (rat)
1,180992661	0,1713	1,099616149	0,03572	SPATA19	spermatogenesis associated 19
1,076986376	0,7381	1,282536603	0,01444	SPATA20	spermatogenesis associated 20
1,191682575	0,13318	1,154285418	0,01538	SPATA24	spermatogenesis associated 24
0,929160674	0,58377	0,793333843	0,01291	SPATA2L	spermatogenesis associated 2-like
1,074004472	0,5127	1,192508872	0,00201	SPATA3	spermatogenesis associated 3
1,062895674	0,75791	0,821880187	0,0109	SPATA5	spermatogenesis associated 5
0,77916458	0,11276	0,650670928	0,00008	SPATA5L1	spermatogenesis associated 5-like 1
0,894404902	0,39953	0,834509281	0,00966	SPATA5L1	spermatogenesis associated 5-like 1
0,786762445	0,21274	0,754712984	0,00006	SPATA5L1	spermatogenesis associated 5-like 1
0,940174203	0,60185	0,832198735	0,00065	SPATA6	spermatogenesis associated 6
1,020304659	0,82287	1,185914499	0,00591	SPATA8	spermatogenesis associated 8
1,234562607	0,12724	1,17609125	0,034	SPATS2	spermatogenesis associated, serine-rich 2
1,658639092	0,05027	1,407368375	0,00112	SPATS2	spermatogenesis associated, serine-rich 2
0,998614666	0,98915	1,207480591	0,02421	SPATS2L	spermatogenesis associated, serine-rich 2-like
1,004167543	0,97653	0,84323111	0,00202	SPC25	SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae)
1,105730653	0,3007	1,112650121	0,02135	SPDEF	SAM pointed domain containing ets transcription factor
1,187559666	0,1676	1,200803427	0,00598	SPDEF	SAM pointed domain containing ets transcription factor
1,051901779	0,67897	1,254402205	0,00042	SPDEF	SAM pointed domain containing ets transcription factor
1,121943481	0,15247	1,121166078	0,00761	SPDYA	speedy homolog A (Xenopus laevis)
0,90312651	0,45801	0,722465199	0,00133	SPDYE1	speedy homolog E1 (Xenopus laevis)

0,986232704	0,85723	1,095052471	0,03155	SPECC1	sperm antigen with calponin homology and coiled-coil domains 1
1,030968319	0,78412	1,153485605	0,00664	SPECC1L	sperm antigen with calponin homology and coiled-coil domains 1-like
0,899378312	0,2125	0,87417862	0,03304	SPEF2	sperm flagellar 2
1,063632673	0,55989	1,155886707	0,02362	SPEM1	spermatid maturation 1
0,63860688	0,17731	0,577142709	0,00009	SPEN	spen homolog, transcriptional regulator (Drosophila)
1,00486382	0,96307	1,139183377	0,01155	SPERT	spermatid associated
0,787307977	0,1584	0,868140228	0,0292	SPG11	spastic paraplegia 11 (autosomal recessive)
1,074004472	0,29277	1,148698355	0,00482	SPG20	spastic paraplegia 20 (Troyer syndrome)
1,139973273	0,5753	0,791685866	0,00308	SPG20	spastic paraplegia 20 (Troyer syndrome)
0,996540263	0,98363	0,819604608	0,01924	SPG7	spastic paraplegia 7 (pure and complicated autosomal recessive)
1,196648963	0,18154	1,182631	0,00402	SPHK2	sphingosine kinase 2
0,588453369	0,0888	0,680657058	0,00044	SPIN1	spindlin 1
0,703684188	0,0889	0,791137301	0,00148	SPIN1	spindlin 1
0,740206649	0,27495	0,604997045	0,00007	SPIN4	spindlin family, member 4
1,042465761	0,69813	0,871154192	0,04608	SPINK2	serine peptidase inhibitor, Kazal type 2 (acrosin-trypsin inhibitor)
1,116512962	0,33447	1,22010051	0,00041	SPINK4	serine peptidase inhibitor, Kazal type 4
0,844400887	0,19512	0,722966147	0,03785	SPINK6	serine peptidase inhibitor, Kazal type 6
1,118837101	0,48413	1,174461971	0,03226	SPINT1	serine peptidase inhibitor, Kunitz type 1
0,959264119	0,59293	1,126619228	0,0223	SPIRE2	spire homolog 2 (Drosophila)
1,216722359	0,14757	1,231998073	0,01494	SPN	sialophorin
1,332374825	0,1131	1,25092908	0,02937	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2
1,379360922	0,08782	1,368883813	0,01079	SPON1	spondin 1, extracellular matrix protein
1,335148303	0,15091	1,409320755	0,01446	SPON1	spondin 1, extracellular matrix protein
0,978063473	0,81737	1,244874235	0,00451	SPON1	spondin 1, extracellular matrix protein
0,849684999	0,68061	1,164733586	0,0193	SPOP	speckle-type POZ protein
1,037419937	0,68694	1,113421618	0,03384	SPOP	speckle-type POZ protein
0,729510172	0,16909	0,667574152	0,00347	SPOPL	speckle-type POZ protein-like
1,122721422	0,28289	1,196648963	0,00574	SPP2	secreted phosphoprotein 2, 24kDa
1,104964485	0,2794	1,317679952	0,0005	SPPL2B	signal peptide peptidase-like 2B
0,682073917	0,08643	0,828170661	0,0355	SPPL3	signal peptide peptidase-like 3
1,003471749	0,98649	0,750019495	0,00759	SPRED1	sprouty-related, EVH1 domain containing 1
0,654289036	0,05841	0,882702996	0,03631	SPRR1A	small proline-rich protein 1A
1,079228237	0,5025	1,275444392	0,00715	SPRR4	small proline-rich protein 4
0,754190038	0,06896	0,71400199	0,00409	SPRY4	sprouty homolog 4 (Drosophila)
1,242288282	0,08785	1,306765254	0,00134	SPRY4	sprouty homolog 4 (Drosophila)
1,131314463	0,18006	1,152686347	0,01819	SPRY4-IT1	SPRY4 intronic transcript 1 (non-protein coding)
1,062159186	0,6653	1,203303026	0,02338	SPRY4-IT1	SPRY4 intronic transcript 1 (non-protein coding)
0,799960128	0,12282	0,756283999	0,00028	SPRYD7	SPRY domain containing 7
0,973329374	0,81799	1,178539408	0,04806	SPSB1	spIA/ryanodine receptor domain and SOCS box containing 1
1,083725967	0,38204	1,113421618	0,04405	SPTB	spectrin, beta, erythrocytic
0,933679945	0,61752	0,734584317	0,00816	SPTLC1	serine palmitoyltransferase, long chain base subunit 1
0,74277646	0,12349	0,756808396	0,00105	SPTLC1	serine palmitoyltransferase, long chain base subunit 1
0,817902059	0,11478	0,876605721	0,02007	SPTLC2	serine palmitoyltransferase, long chain base subunit 2
0,709070018	0,18119	0,817902059	0,00951	SPTLC2	serine palmitoyltransferase, long chain base subunit 2
0,706127202	0,2555	0,734075318	0,00494	SPTLC2	serine palmitoyltransferase, long chain base subunit 2
0,869947353	0,2454	0,797192477	0,03636	SPTSSA	serine palmitoyltransferase, small subunit A
0,832775771	0,12223	0,816768991	0,00189	SPTSSA	serine palmitoyltransferase, small subunit A
1,019597683	0,87241	0,820172911	0,00243	SPTSSB	serine palmitoyltransferase, small subunit B
1,018891197	0,92249	0,807201075	0,00104	SPTY2D1	SPT2, Suppressor of Ty, domain containing 1 (S. cerevisiae)
0,849096246	0,28467	0,616426163	0	SQLE	squalene epoxidase
1,030253954	0,89397	1,196648963	0,0008	SQSTM1	sequestosome 1
1,293248932	0,24355	1,168777249	0,01705	SRBD1	S1 RNA binding domain 1
0,961260928	0,79821	1,195819797	0,02939	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
1,164733586	0,19043	1,180174343	0,00609	SRC	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
1,145517898	0,29104	1,20664392	0,00226	SRCAP	Snf2-related CREBBP activator protein
1,121166078	0,22574	1,185914499	0,00693	SRCAP	Snf2-related CREBBP activator protein
0,763658749	0,24848	0,744838732	0,00335	SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
0,886996305	0,42827	0,782411782	0,02243	SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
0,827023368	0,06633	0,885767519	0,02056	SRD5A1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
1,054822317	0,46394	1,142346247	0,01688	SRD5A2	steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2)
0,927230546	0,65091	0,791685866	0,01585	SRD5A3	steroid 5 alpha-reductase 3
0,79940583	0,3216	0,746906729	0,00245	SRD5A3	steroid 5 alpha-reductase 3
1,014662547	0,94139	0,66342257	0,00057	SREK1	splicing regulatory glutamine/lysine-rich protein 1
0,839149637	0,43174	0,730016005	0,01025	SREK1	splicing regulatory glutamine/lysine-rich protein 1
0,837987135	0,37387	0,71400199	0,00405	SRFBP1	serum response factor binding protein 1
0,879039561	0,53169	0,765778999	0,00987	SRGAP1	SLIT-ROBO Rho GTPase activating protein 1
0,944092419	0,70853	0,764718139	0,00896	SRGAP1	SLIT-ROBO Rho GTPase activating protein 1
1,121943481	0,25262	1,293248932	0,00014	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2
0,763658749	0,06288	0,813379198	0,01127	SRGAP2P1	SLIT-ROBO Rho GTPase activating protein 2 pseudogene 1
2,256364275	0,09872	2,0363704	0,00136	SRGN	serglycin
0,756808396	0,18331	0,737134609	0,00295	SRI	sorcin
1,159899655	0,64958	1,250062303	0,0269	SRM	spermidine synthase
0,965267025	0,66107	0,906890329	0,04779	SRP19	signal recognition particle 19kDa
0,84323111	0,24497	0,859756486	0,00597	SRP72	signal recognition particle 72kDa
0,965267025	0,85082	0,802737389	0,0087	SRP72	signal recognition particle 72kDa
0,852634892	0,24665	0,798851916	0,01629	SRP9	signal recognition particle 9kDa
0,738157203	0,18458	0,808320869	0,00274	SRPK1	SRSF protein kinase 1
0,66342257	0,06125	0,738669032	0,01804	SRPK2	SRSF protein kinase 2
1,319507911	0,09542	1,199139914	0,01116	SRPR	signal recognition particle receptor (docking protein)
1,17609125	0,06181	1,167158102	0,03575	SRPRB	signal recognition particle receptor, B subunit
1,313121125	0,29532	1,358486285	0,00175	SRPRB	signal recognition particle receptor, B subunit
1,155085785	0,33511	1,212512819	0,03423	SRPX2	sushi-repeat containing protein, X-linked 2
0,885153765	0,4501	0,820172911	0,00918	SRR	serine racemase
1,059952783	0,68834	0,890075733	0,01686	SRRM1	serine/arginine repetitive matrix 1
1,094293701	0,59408	1,182631	0,0189	SRRM2	serine/arginine repetitive matrix 2
0,995849753	0,96543	1,241427492	0,01852	SRRM2	serine/arginine repetitive matrix 2
1,128182137	0,17321	1,178539408	0,01493	SRRM4	serine/arginine repetitive matrix 4
1,086734863	0,44767	1,172834949	0,00188	SRRM4	serine/arginine repetitive matrix 4
0,67689314	0,05931	0,799960128	0,01693	SRSF1	serine/arginine-rich splicing factor 1
0,791685866	0,15851	0,777546036	0,01293	SRSF10	serine/arginine-rich splicing factor 10
0,724471077	0,10236	0,775930854	0,01213	SRSF11	serine/arginine-rich splicing factor 11
0,866336856	0,48453	0,87417862	0,02319	SRSF11	serine/arginine-rich splicing factor 11
0,881480158	0,69469	0,682073917	0,00011	SRSF11	serine/arginine-rich splicing factor 11
0,71548826	0,12089	0,739693755	0,00123	SRSF3	serine/arginine-rich splicing factor 3
0,924663278	0,75028	0,839149637	0,00161	SRSF4	serine/arginine-rich splicing factor 4
0,867538687	0,42872	0,807201075	0,00315	SRSF7	serine/arginine-rich splicing factor 7
0,774319028	0,54587	0,730522189	0,0001	SRSF7	serine/arginine-rich splicing factor 7
0,651573575	0,05682	0,704660378	0	SRSF8	serine/arginine-rich splicing factor 8
1,185914499	0,19046	0,882091365	0,00622	SRSF9	serine/arginine-rich splicing factor 9
0,76101669	0,09471	0,771640088	0,00062	SRXN1	sulfiredoxin 1
0,740206649	0,21046	0,775930854	0,00498	SS18L1	synovial sarcoma translocation gene on chromosome 18-like 1
0,883927531	0,14487	0,838568184	0,0006	SS18L2	synovial sarcoma translocation gene on chromosome 18-like 2
0,666187413	0,33844	0,778624691	0,00012	SSB	Sjogren syndrome antigen B (autoantigen La)
0,941478465	0,61813	0,76418826	0,00572	SSBP1	single-stranded DNA binding protein 1

1,229438867	0,06422	1,167967395	0,0388	SSBP4	single stranded DNA binding protein 4
1,162314108	0,27059	1,141554707	0,03814	SSBP4	single stranded DNA binding protein 4
0,683967652	0,05872	0,744322628	0,00429	SSFA2	sperm specific antigen 2
0,789493887	0,29284	0,762072415	0,00012	SSFA2	sperm specific antigen 2
1,422077411	0,12601	1,272794935	0,03376	SSPN	sarcospan (Kras oncogene-associated gene)
1,114966219	0,41677	1,121166078	0,01403	SSR1	signal sequence receptor, alpha
1,101141598	0,58725	1,315854525	0,00003	SSR2	signal sequence receptor, beta (translocon-associated protein beta)
1,063632673	0,7897	1,305859787	0,00232	SSR3	signal sequence receptor, gamma (translocon-associated protein gamma)
1,264879542	0,41612	1,79129134	0,00001	SSR4	signal sequence receptor, delta
0,704660378	0,11826	0,842062954	0,00527	SSRP1	structure specific recognition protein 1
1,006257823	0,97756	1,158292806	0,01418	SSSCA1	Sjogren syndrome/scleroderma autoantigen 1
1,151887642	0,16553	1,184271612	0,01671	SSTR2	somatostatin receptor 2
1,127400412	0,17148	1,205807828	0,00621	SSTR2	somatostatin receptor 2
1,058484395	0,52307	1,110338834	0,03424	SSTR3	somatostatin receptor 3
0,964598185	0,78214	1,191682575	0,01273	SSTR4	somatostatin receptor 4
0,927230546	0,29609	0,910669834	0,03932	SSU72	SSU72 RNA polymerase II CTD phosphatase homolog (S. cerevisiae)
0,890692901	0,18463	0,924022572	0,02375	SSX1	synovial sarcoma, X breakpoint 1
0,779704843	0,26915	0,651122095	0,00016	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein
0,683967652	0,13236	0,6341957	0,00035	SSX2IP	synovial sarcoma, X breakpoint 2 interacting protein
1,241427492	0,11804	1,184271612	0,00138	SSX3	synovial sarcoma, X breakpoint 3
1,038859103	0,68371	1,237132479	0,00105	SSX3	synovial sarcoma, X breakpoint 3
0,858565436	0,39946	0,76684133	0,00377	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
0,760489377	0,12464	0,813379198	0,00002	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
1,092777739	0,49494	1,28877463	0,00169	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1
1,068065408	0,43711	1,110338834	0,04318	ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2
1,163120042	0,08722	1,178539408	0,00307	ST3GAL3	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
1,149494848	0,58825	1,336074078	0,00242	ST5	suppression of tumorigenicity 5
1,418140036	0,17152	1,474269217	0,00031	ST6GALNAC4	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
1,741101127	0,0586	1,435944511	0,00201	ST6GALNAC4	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
1,189207115	0,29107	1,202469249	0,02809	ST6GALNAC4	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4
1,063632673	0,49185	1,111879158	0,01651	ST7	suppression of tumorigenicity 7
0,977385766	0,73606	0,891928519	0,01149	ST7-AS2	ST7 antisense RNA 2 (non-protein coding)
1,018891197	0,86466	1,159899655	0,02665	STAB2	stabilin 2
0,927230546	0,39159	1,278099363	0,00251	STAC2	SH3 and cysteine rich domain 2
0,786762445	0,17168	0,81056512	0,04716	STAG1	stromal antigen 1
0,601234624	0,14019	0,748980467	0,00011	STAG2	stromal antigen 2
0,812252396	0,33413	0,788946841	0,00084	STAG2	stromal antigen 2
1,02313747	0,95592	0,787853886	0,00144	STAG2	stromal antigen 2
1,167967395	0,10388	1,182631	0,00488	STAG3	stromal antigen 3
0,781869643	0,17608	0,731028724	0,00614	STAM	signal transducing adaptor molecule (SH3 domain and ITAM motif) 1
0,846745312	0,42077	0,753667455	0,01726	STAM2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
0,77916458	0,06145	0,812252396	0,01041	STAM2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
0,793333843	0,09274	0,804966138	0,00032	STAM2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
0,909408252	0,52668	0,762072415	0,00189	STAM2	signal transducing adaptor molecule (SH3 domain and ITAM motif) 2
0,835087919	0,24392	0,862741345	0,01976	STAMBP	STAM binding protein
1,141554707	0,30903	1,117287138	0,01729	STAMBP	STAM binding protein
1,102669163	0,57466	0,812252396	0,03336	STAT1	signal transducer and activator of transcription 1, 91kDa
1,069547088	0,68244	0,796640096	0,02787	STAT1	signal transducer and activator of transcription 1, 91kDa
1,279872414	0,05433	1,257884972	0,00519	STAT2	signal transducer and activator of transcription 2, 113kDa
1,083725967	0,44572	1,222640278	0,01231	STAT5B	signal transducer and activator of transcription 5B
1,155085785	0,05815	1,108032348	0,04031	STAU2	staufen, RNA binding protein, homolog 2 (Drosophila)
1,036701101	0,77611	1,20163605	0,00807	STC1	stanniocalcin 1
1,127400412	0,41733	1,149494848	0,01471	STC2	stanniocalcin 2
1,115739322	0,4879	0,823020345	0,02463	STEAP1B	STEAP family member 1B
0,763658749	0,07189	0,806641759	0,00578	STEAP4	STEAP family member 4
0,943438251	0,6107	1,152686347	0,02808	STGC3	hypothetical STGC3
1,028826708	0,88911	0,774855931	0,0027	STIL	SCL/TAL1 interrupting locus
0,97874165	0,82124	0,852634892	0,00507	STIM2	stromal interaction molecule 2
1,149494848	0,16256	1,304050735	0,00089	STK10	serine/threonine kinase 10
1,136816973	0,16543	1,154285418	0,00941	STK10	serine/threonine kinase 10
1,129747215	0,4708	1,366040257	0	STK16	serine/threonine kinase 16
1,175276328	0,47086	0,869947353	0,00214	STK17A	serine/threonine kinase 17a
0,744838732	0,07071	0,811689581	0,02341	STK24	serine/threonine kinase 24
0,868140228	0,25505	0,883927531	0,00265	STK24	serine/threonine kinase 24
0,740719899	0,0762	0,737134609	0,00025	STK24	serine/threonine kinase 24
0,81056512	0,32288	0,825305409	0,00821	STK3	serine/threonine kinase 3
1,116512962	0,26889	1,190031696	0,00936	STK33	serine/threonine kinase 33
0,968618189	0,76695	1,20163605	0,01066	STK35	serine/threonine kinase 35
0,767905135	0,07945	0,742261785	0,00005	STK35	serine/threonine kinase 35
0,988970916	0,91546	1,16634937	0,01366	STK36	serine/threonine kinase 36
1,015366101	0,89327	1,159095952	0,00147	STK36	serine/threonine kinase 36
1,000693387	0,99549	1,151089491	0,01756	STK36	serine/threonine kinase 36
0,71548826	0,13661	0,790041312	0,02042	STK38	serine/threonine kinase 38
0,830470024	0,28956	0,829894586	0,01569	STK38L	serine/threonine kinase 38 like
0,885153765	0,5479	0,763129604	0,00946	STK38L	serine/threonine kinase 38 like
1,109569472	0,36264	1,144724161	0,04378	STK4	serine/threonine kinase 4
1,016774673	0,87393	0,915099168	0,04225	STMN1	stathmin 1
1,07997656	0,30018	1,114193651	0,03426	STMN4	stathmin-like 4
1,390881972	0,12944	1,337927555	0,01135	STON1	stonin 1
1,027401439	0,80915	1,153485605	0,0109	STON1	stonin 1
0,796640096	0,30738	0,735603373	0,00288	STOX2	storkhead box 2
0,951977908	0,60894	0,838568184	0,04214	STOX2	storkhead box 2
1,169587664	0,20759	1,215879283	0,00029	STRA6	stimulated by retinoic acid gene 6 homolog (mouse)
1,056285625	0,57571	1,156688184	0,00363	STRADA	STE20-related kinase adaptor alpha
1,032398535	0,78815	1,165541198	0,01347	STRADA	STE20-related kinase adaptor alpha
1,00695555	0,91544	1,112650121	0,02849	STRADA	STE20-related kinase adaptor alpha
0,829319546	0,40182	0,768970416	0,01077	STRAP	serine/threonine kinase receptor associated protein
0,991716731	0,95583	0,736113431	0,00331	STRBP	spermatid perinuclear RNA binding protein
0,995159722	0,97149	0,846158597	0,01003	STRBP	spermatid perinuclear RNA binding protein
0,910038824	0,54619	0,806641759	0,00623	STRN	striatin, calmodulin binding protein
0,852634892	0,40297	0,844400887	0,02403	STRN	striatin, calmodulin binding protein
0,764718139	0,29327	0,784584098	0,00996	STRN	striatin, calmodulin binding protein
1,256142381	0,05347	1,187559666	0,01332	STS	steroid sulfatase (microsomal), isozyme S
1,312211255	0,31063	0,756808396	0,00456	STT3B	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)
0,898132373	0,26144	0,70514898	0,00126	STX11	syntaxin 11
0,758909626	0,05465	0,832775771	0,00263	STX12	syntaxin 12
0,747424624	0,30637	0,86934456	0,02508	STX17	syntaxin 17
1,154285418	0,09451	1,194991205	0,00115	STX1A	syntaxin 1A (brain)
0,788946841	0,11793	0,843815796	0,00179	STX6	syntaxin 6
0,891928519	0,23931	0,863938187	0,02418	STX6	syntaxin 6
0,765248385	0,11471	0,821880187	0,00331	STX7	syntaxin 7
0,874784765	0,50327	0,773782497	0,00206	STXBP3	syntaxin binding protein 3
0,751059963	0,2125	0,671286251	0,00265	STXBP3	syntaxin binding protein 3
1,138394029	0,33899	0,90062598	0,01602	STXBP5L	syntaxin binding protein 5-like

1,065108203	0,78722	0,825305409	0,03525	STXBP6	syntaxin binding protein 6 (amisyn)
0,833353207	0,42017	0,846745312	0,01458	STYX	serine/threonine/tyrosine interacting protein
0,922103118	0,66472	1,224336392	0,00203	STYXL1	serine/threonine/tyrosine interacting-like 1
0,829894586	0,30841	1,173648178	0,01356	STYXL1	serine/threonine/tyrosine interacting-like 1
0,933032992	0,69703	1,186736798	0,00123	STYXL1	serine/threonine/tyrosine interacting-like 1
0,756283999	0,13136	0,839149637	0,00352	SUB1	SUB1 homolog (S. cerevisiae)
0,948684315	0,81317	0,77916458	0,01697	SUB1	SUB1 homolog (S. cerevisiae)
0,775393206	0,2755	0,734584317	0,00093	SUCLA2	succinate-CoA ligase, ADP-forming, beta subunit
0,906890329	0,62592	0,87175824	0,01688	SUCLG2	succinate-CoA ligase, GDP-forming, beta subunit
0,857376037	0,46517	0,845572287	0,00925	SUCLG2	succinate-CoA ligase, GDP-forming, beta subunit
0,755759964	0,24634	0,815637493	0,01393	SUDS3	suppressor of defective silencing 3 homolog (S. cerevisiae)
0,908148418	0,6668	0,770037174	0,00435	SUGT1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)
1,185914499	0,09774	1,342572503	0,02315	SULF1	sulfatase 1
1,094293701	0,58617	1,273677475	0,00548	SULT1A1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1
0,937571096	0,80384	1,241427492	0,01545	SULT1A1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1
0,952637998	0,7789	1,158292806	0,0021	SULT1A2	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
0,96727633	0,83976	1,248330549	0,00136	SULT1A2	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
1,088242442	0,27139	1,187559666	0,0044	SULT2A1	sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1
0,627201102	0,08441	0,825305409	0,0499	SULT2B1	sulfotransferase family, cytosolic, 2B, member 1
0,883927531	0,65357	0,778624691	0,02067	SUMO1	SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)
0,754190038	0,07955	0,796088099	0,00001	SUMO1	SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)
1,167158102	0,1148	1,191682575	0,00849	SUOX	sulfite oxidase
0,958599438	0,82081	1,207480591	0,0325	SUPT6H	suppressor of Ty 6 homolog (S. cerevisiae)
0,874784765	0,10825	0,820172911	0,00984	SURF2	surfeit 2
0,937571096	0,81527	1,136029265	0,01219	SURF4	surfeit 4
1,155085785	0,27859	1,118837101	0,03505	SUSD1	sushi domain containing 1
1,312211255	0,05437	1,33422317	0,00058	SUSD3	sushi domain containing 3
0,946057647	0,48528	0,847332435	0,04159	SUSD5	sushi domain containing 5
0,953298545	0,58961	1,155085785	0,02924	SUV39H1	suppressor of variegation 3-9 homolog 1 (Drosophila)
0,876605721	0,46331	0,71946679	0,00016	SUV39H2	suppressor of variegation 3-9 homolog 2 (Drosophila)
0,940826108	0,45818	0,887611337	0,00731	SUV39H2	suppressor of variegation 3-9 homolog 2 (Drosophila)
0,867538687	0,54112	0,776468875	0,00099	SUV420H1	suppressor of variegation 4-20 homolog 1 (Drosophila)
1,071773463	0,328	1,17772279	0,00207	SV2B	synaptic vesicle glycoprotein 2B
1,111879158	0,16283	1,203303026	0,00183	SV2C	synaptic vesicle glycoprotein 2C
0,955282936	0,59809	0,892546971	0,02881	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
1,150291893	0,19972	1,209994089	0,04168	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
0,96727633	0,73013	0,865136691	0,01872	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
1,190856849	0,17169	1,350974085	0,00006	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
0,78132788	0,20106	0,866937564	0,00267	SVIL	supervillin
1,144724161	0,11417	1,154285418	0,00726	SVOPL	SVOP-like
0,840896415	0,20434	0,842062954	0,04174	SWAP70	SWAP switching B-cell complex 70kDa subunit
1,151089491	0,26564	1,148698355	0,01048	SWAP70	SWAP switching B-cell complex 70kDa subunit
1,07997656	0,42877	1,20664392	0,00266	SWT1	SWT1 RNA endoribonuclease homolog (S. cerevisiae)
1,105730653	0,3764	1,171210181	0,03436	SYCE2	synaptonemal complex central element protein 2
1,038859103	0,63378	1,175276328	0,0003	SYCN	syncollin
1,076240125	0,68443	0,859160755	0,02316	SYK	spleen tyrosine kinase
0,973329374	0,78881	1,184271612	0,04138	SYMPK	symplekin
1,057018041	0,66976	1,252664439	0,00063	SYN1	synapsin I
1,00486382	0,95126	1,313121125	0,00117	SYN1	synapsin I
1,037419937	0,59082	1,117287138	0,01263	SYN2	synapsin II
1,076240125	0,49044	0,828744904	0,01258	SYNC	syncoilin, intermediate filament protein
0,704172113	0,14286	0,74277646	0,01721	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
0,588045625	0,17323	0,665264521	0,00005	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
0,743806881	0,15112	0,729510172	0,00017	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
0,813379198	0,11614	0,802737389	0,00194	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein
0,848507902	0,10248	0,847332435	0,00689	SYNE2	spectrin repeat containing, nuclear envelope 2
0,665264521	0,10099	0,713012859	0,02874	SYNE2	spectrin repeat containing, nuclear envelope 2
1,207480591	0,06251	1,170398641	0,01608	SYNGAP1	synaptic Ras GTPase activating protein 1
0,978063473	0,84058	1,114966219	0,03953	SYNGR4	synaptogyrin 4
0,931740429	0,77011	0,795536484	0,03497	SYNJ1	synaptojanin 1
0,841479482	0,43054	0,655651007	0,00028	SYNJ2	synaptojanin 2
0,818469182	0,35261	0,817902059	0,00853	SYNJ2BP	synaptojanin 2 binding protein
0,847919965	0,27901	0,81056512	0,03363	SYNJ2BP	synaptojanin 2 binding protein
1,382232207	0,11478	1,332374825	0,01291	SYNPO	synaptopodin
1,076986376	0,44623	1,165541198	0,00366	SYNPO	synaptopodin
1,129747215	0,21746	1,192508872	0,00087	SYNPO	synaptopodin
1,190031696	0,16783	1,241427492	0,00383	SYNPO2L	synaptopodin 2-like
0,754190038	0,16688	0,89564567	0,04139	SYNRG	synergin, gamma
0,955282936	0,69281	0,8362464	0,01227	SYNRG	synergin, gamma
0,723467443	0,05592	0,777007269	0,00313	SYPL1	synaptophysin-like 1
1,198309021	0,07078	1,297738767	0,00068	SYPL2	synaptophysin-like 2
0,835666959	0,05842	0,734584317	0	SYS1	SYS1 Golgi-localized integral membrane protein homolog (S. cerevisiae)
1,244011653	0,07452	1,194163187	0,00755	SYT11	synaptotagmin XI
1,097331938	0,2808	1,111108729	0,04808	SYT12	synaptotagmin XII
1,127400412	0,18331	1,237990291	0,01049	SYT13	synaptotagmin XIII
0,824162085	0,07977	0,820172911	0,00083	SYT13	synaptotagmin XIII
1,189207115	0,06538	1,280759861	0,00021	SYT15	synaptotagmin XV
1,096571589	0,44897	1,161508732	0,04393	SYT2	synaptotagmin II
1,167967395	0,05328	1,178539408	0,0103	SYTL2	synaptotagmin-like 2
1,258757174	0,27637	1,234562607	0,02888	SYTL2	synaptotagmin-like 2
0,988285652	0,90945	0,866336856	0,012	SYTL4	synaptotagmin-like 4
0,868742185	0,42642	0,765778999	0,00211	SYTL4	synaptotagmin-like 4
0,980099415	0,8283	1,140763716	0,01804	SYTL4	synaptotagmin-like 4
0,887611337	0,48153	1,224336392	0,00192	SZT2	seizure threshold 2 homolog (mouse)
1,159899655	0,15208	1,198309021	0,00138	T	T, brachyury homolog (mouse)
1,136029265	0,14825	1,142346247	0,00388	TAAR3	trace amine associated receptor 3 (gene/pseudogene)
1,094293701	0,16929	1,138394029	0,00251	TAAR8	trace amine associated receptor 8
0,839149637	0,45797	0,801625329	0,00636	TAB3	TGF-beta activated kinase 1/MAP3K7 binding protein 3
1,0132569	0,91441	1,117287138	0,02373	TACC1	transforming, acidic coiled-coil containing protein 1
0,995849753	0,96389	1,136816973	0,00758	TACC2	transforming, acidic coiled-coil containing protein 2
0,997922719	0,98249	1,193335743	0,01106	TACR3	tachykinin receptor 3
1,041743429	0,82717	0,853817714	0,01424	TADA2B	transcriptional adaptor 2B
0,771640088	0,10084	0,81056512	0,0047	TAF1	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 250kDa
0,581157054	0,07813	0,742261785	0,01349	TAF11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa
0,875998315	0,43001	0,843815796	0,00995	TAF11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa
0,85797053	0,18677	0,740206649	0,00026	TAF13	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa
1,037419937	0,77017	1,242288282	0,03561	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa
0,698823486	0,23918	0,575544746	0,00662	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa
0,657927263	0,1528	0,745872013	0,01093	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa
0,998614666	0,99191	0,830470024	0,00132	TAF1B	TATA box binding protein (TBP)-associated factor, RNA polymerase I, B, 63kDa
0,722966147	0,06521	0,737134609	0,00153	TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa
0,760489377	0,20825	0,825305409	0,00504	TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa
1,101141598	0,38587	1,153485605	0,03968	TAF1L	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 210kDa-like
0,865736566	0,55384	0,786762445	0,00064	TAF2	TAF2 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 150kDa

0,96996191	0,87858	0,843815796	0,01636	TAF4	TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa
0,941478465	0,6254	1,121166078	0,01855	TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa
0,958599438	0,8422	0,802737389	0,00649	TAF4B	TAF4b RNA polymerase II, TATA box binding protein (TBP)-associated factor, 105kDa
0,97874165	0,8953	0,857376037	0,01925	TAF5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa
1,163926534	0,13234	1,127400412	0,01818	TAF6L	TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa
0,992404375	0,95377	0,873572896	0,03922	TAF7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa
0,877213549	0,0774	0,898755127	0,02557	TAF7L	TAF7-like RNA polymerase II, TATA box binding protein (TBP)-associated factor, 50kDa
1,190856849	0,1311	1,280759861	0,00905	TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa
0,748980467	0,16437	0,747424624	0,00036	TAF9B	TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa
1,603250659	0,09838	1,937236378	0,00004	TAGLN	transgelin
1,868654694	0,06668	2,177994031	0,00015	TAGLN	transgelin
1,057018041	0,57241	1,174461971	0,01017	TAL1	T-cell acute lymphocytic leukemia 1
0,923382311	0,5043	0,866937564	0,02358	TAMM41	TAM41, mitochondrial translocator assembly and maintenance protein, homolog (S. cerevisiae)
1,032398535	0,8095	1,194163187	0,01223	TAMM41	TAM41, mitochondrial translocator assembly and maintenance protein, homolog (S. cerevisiae)
0,754712984	0,24907	0,770037174	0,00342	TANC1	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1
0,869947353	0,48225	0,826450318	0,0043	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
0,877821798	0,56813	0,79940583	0,0464	TANK	TRAF family member-associated NFKB activator
0,611744021	0,0679	0,711531731	0,02915	TANK	TRAF family member-associated NFKB activator
0,765778999	0,16684	0,754190038	0,00572	TAOK1	TAO kinase 1
1,061423209	0,89008	0,821880187	0,00879	TAOK1	TAO kinase 1
0,679243142	0,16421	0,579547976	0,00003	TAOK1	TAO kinase 1
0,828170661	0,35466	0,688725023	0,00337	TAOK1	TAO kinase 1
1,23370717	0,193	1,365093718	0,00849	TAOK2	TAO kinase 2
0,985549337	0,93875	0,855595026	0,01102	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
1,062159186	0,76572	1,332374825	0,02629	TAPBP	TAP binding protein (tapasin)
1,136029265	0,72688	1,572434584	0,00021	TAPBP	TAP binding protein (tapasin)
1,034547582	0,72991	0,863938187	0,01409	TAPT1	transmembrane anterior posterior transformation 1
0,890075733	0,40274	0,8962667	0,04671	TARBP1	TAR (HIV-1) RNA binding protein 1
1,038139271	0,53821	1,085981856	0,03803	TAS1R1	taste receptor, type 1, member 1
1,100378609	0,3118	1,163120042	0,00763	TAS1R1	taste receptor, type 1, member 1
1,069547088	0,42866	1,128182137	0,02067	TAS1R2	taste receptor, type 1, member 2
1,095052471	0,18634	1,10343374	0,03392	TAS2R14	taste receptor, type 2, member 14
1,087488391	0,43019	1,151089491	0,01572	TAS2R38	taste receptor, type 2, member 38
1,068805991	0,69126	0,76950361	0,00081	TASP1	taspase, threonine aspartase, 1
0,733058379	0,07343	0,778624691	0,00158	TAX1BP1	Tax1 (human T-cell leukemia virus type I) binding protein 1
0,844400887	0,48758	0,758909626	0,01564	TAX1BP1	Tax1 (human T-cell leukemia virus type I) binding protein 1
1,025978145	0,86927	1,25353302	0,01237	TAZ	tafazzin
1,133669413	0,23615	1,284315809	0,00031	TAZ	tafazzin
1,190856849	0,11605	1,188383105	0,02255	TBC1D13	TBC1 domain family, member 13
1,080725402	0,43254	1,25092908	0,00028	TBC1D16	TBC1 domain family, member 16
0,802181166	0,28657	0,757333158	0,00257	TBC1D23	TBC1 domain family, member 23
1,112650121	0,46986	1,29056249	0,00217	TBC1D25	TBC1 domain family, member 25
1,190856849	0,10376	1,146312186	0,0049	TBC1D25	TBC1 domain family, member 25
1,20664392	0,07805	1,190856849	0,00861	TBC1D27	TBC1 domain family, member 27
0,904379378	0,63062	1,183451022	0,01044	TBC1D2B	TBC1 domain family, member 2B
1,091263877	0,20328	1,121943481	0,01988	TBC1D2B	TBC1 domain family, member 2B
1,193335743	0,0931	1,155886707	0,02525	TBC1D2B	TBC1 domain family, member 2B
1,122721422	0,08427	1,121943481	0,0227	TBC1D30	TBC1 domain family, member 30
1,121943481	0,18595	1,087488391	0,0432	TBC1D30	TBC1 domain family, member 30
1,082224645	0,30032	1,110338834	0,0385	TBC1D7	TBC1 domain family, member 7
0,912565489	0,56286	0,852634892	0,04216	TBC1D8	TBC1 domain family, member 8 (with GRAM domain)
1,156688184	0,06127	1,151089491	0,02211	TBC1D8B	TBC1 domain family, member 8B (with GRAM domain)
0,832775771	0,05388	0,774319028	0,00004	TBCA	tubulin folding cofactor A
1,035264924	0,81505	1,184271612	0,01384	TBCD	tubulin folding cofactor D
0,950659101	0,72608	0,86154616	0,02033	TBK1	TANK-binding kinase 1
1,088997015	0,25857	1,116512962	0,03076	TBL1X	transducin (beta)-like 1X-linked
0,669891801	0,06513	0,864537231	0,01081	TBL1X	transducin (beta)-like 1X-linked
1,062895674	0,7761	0,782954296	0,00873	TBL1XR1	transducin (beta)-like 1 X-linked receptor 1
1,127400412	0,29932	1,113421618	0,01579	TBL2	transducin (beta)-like 2
0,993781093	0,96183	1,157490217	0,00069	TBRG1	transforming growth factor beta regulator 1
0,943438251	0,46292	1,29056249	0,00054	TBX18	T-box 18
1,143138335	0,19776	1,127400412	0,02337	TBX5	T-box 5
1,096571589	0,24077	1,117287138	0,0262	TBX5	T-box 5
1,412254404	0,0571	1,456999114	0,00008	TBXAS1	thromboxane A synthase 1 (platelet)
0,910669834	0,70713	0,822450069	0,00933	TC2N	tandem C2 domains, nuclear
0,936921447	0,62948	0,890692901	0,00785	TCEA1	transcription elongation factor A (SII), 1
1,032398535	0,70919	1,155085785	0,00632	TCEA3	transcription elongation factor A (SII), 3
1,180174343	0,11723	1,244874235	0,00095	TCEAL3	transcription elongation factor A (SII)-like 3
1,046810282	0,59986	1,104198847	0,04121	TCEANC	transcription elongation factor A (SII) N-terminal and central domain containing
1,086734863	0,44284	1,340712592	0,00003	TCEANC2	transcription elongation factor A (SII) N-terminal and central domain containing 2
1,058484395	0,73622	0,794985251	0,01948	TCEB1	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
1,00765376	0,93282	1,106497353	0,01977	TCEB3	transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)
1,121166078	0,23968	1,121166078	0,04489	TCEB3	transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)
0,778624691	0,10015	0,884540435	0,01174	TCEB3	transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)
0,839149637	0,34988	0,787853886	0,01927	TCERG1	transcription elongation regulator 1
0,878430468	0,37037	0,815072332	0,02397	TCF12	transcription factor 12
0,875998315	0,28535	0,863938187	0,01036	TCF19	transcription factor 19
0,868140228	0,11647	0,827023368	0,01448	TCF20	transcription factor 20 (AR1)
1,034547582	0,69331	1,115739322	0,02	TCF20	transcription factor 20 (AR1)
1,087488391	0,49488	1,134455485	0,01599	TCF20	transcription factor 20 (AR1)
1,091263877	0,2316	1,158292806	0,0062	TCF25	transcription factor 25 (basic helix-loop-helix)
1,20163605	0,05506	1,277213759	0,00986	TCF3	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
1,657489809	0,08128	1,254402205	0,02384	TCF4	transcription factor 4
1,726679117	0,06449	1,340712592	0,00322	TCF4	transcription factor 4
1,289668251	0,42363	1,494849249	0,00026	TCF4	transcription factor 4
1,071773463	0,55911	1,161508732	0,00719	TCF7	transcription factor 7 (T-cell specific, HMG-box)
0,994470169	0,97341	0,733058379	0,0004	TCFL5	transcription factor-like 5 (basic helix-loop-helix)
0,782411782	0,11884	0,849684999	0,00392	TCHP	trichoplein, keratin filament binding
1,409320755	0,1257	1,574615953	0,00007	TCIRG1	T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3
1,261377409	0,05946	1,265756594	0,0039	TCL1A	T-cell leukemia/lymphoma 1A
1,00695555	0,94708	1,119612889	0,04105	TCL1B	T-cell leukemia/lymphoma 1B
0,976031761	0,76988	1,151887642	0,03918	TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)
1,085229372	0,32781	1,154285418	0,01603	TCL6	T-cell leukemia/lymphoma 6 (non-protein coding)
0,660211421	0,05692	0,798298386	0,00036	TCP1	t-complex 1
1,059218335	0,63415	1,149494848	0,006	TCP11L1	t-complex 11 (mouse)-like 1
0,870550563	0,16427	0,742261785	0,0052	TCP11L2	t-complex 11 (mouse)-like 2
0,968618189	0,8051	1,142346247	0,04038	TCTA	T-cell leukemia translocation altered gene
0,957271458	0,54991	1,134455485	0,04123	TCTE1	t-complex-associated-testis-expressed 1
1,230291345	0,22127	1,207480591	0,02466	TCTE3	t-complex-associated-testis-expressed 3
1,170398641	0,09999	1,129747215	0,01834	TCTE3	t-complex-associated-testis-expressed 3
0,836826243	0,15098	0,745872013	0,00202	TCTE3	t-complex-associated-testis-expressed 3
1,050444544	0,52977	1,074004472	0,04131	TCTE3	t-complex-associated-testis-expressed 3
1,131314463	0,19552	1,227735684	0,00042	TCTN1	tectonic family member 1
1,105730653	0,17204	1,173648178	0,00036	TCTN1	tectonic family member 1

1,062895674	0,54708	1,083725967	0,02829	TCTN2	tectonic family member 2
1,202469249	0,32884	1,224336392	0,00196	TCTN3	tectonic family member 3
0,705637922	0,06108	0,776468875	0,00304	TDG	thymine-DNA glycosylase
0,741747467	0,06296	0,777546036	0,00036	TDG	thymine-DNA glycosylase
1,130530567	0,13345	1,096571589	0,03721	TDO2	tryptophan 2,3-dioxygenase
0,71946679	0,1157	0,701735863	0,00033	TDP2	tyrosyl-DNA phosphodiesterase 2
1,192508872	0,06281	1,168777249	0,00227	TDRG1	testis development related protein 1
1,289668251	0,08578	1,43097652	0,00003	TEAD2	TEA domain family member 2
1,033830736	0,74662	1,192508872	0,02525	TEAD2	TEA domain family member 2
1,117287138	0,47354	1,32408891	0,00074	TEAD2	TEA domain family member 2
1,080725402	0,58669	1,247465572	0,0096	TECPR1	tectonin beta-propeller repeat containing 1
1,07549439	0,41916	1,174461971	0,03204	TECPR1	tectonin beta-propeller repeat containing 1
1,022428531	0,82145	0,934327347	0,04224	TECRL	trans-2,3-enoyl-CoA reductase-like
1,086734863	0,47761	1,097331938	0,03136	TECTB	tectorin beta
1,246601194	0,33543	1,350037985	0,00647	TENC1	tensin like C1 domain containing phosphatase (tensin 2)
1,070288698	0,59617	1,217566019	0,00093	TEPP	testis, prostate and placenta expressed
0,804966138	0,06571	0,81056512	0,02202	TERF1	telomeric repeat binding factor (NIMA-interacting) 1
0,877213549	0,39533	0,827023368	0,00047	TERF1	telomeric repeat binding factor (NIMA-interacting) 1
1,059218335	0,62897	1,328685814	0,00092	TESC	tescalcin
0,655651007	0,07924	0,689680461	0,00014	TET2	tet oncogene family member 2
1,062159186	0,52693	1,142346247	0,01479	TET3	tet oncogene family member 3
1,016070143	0,82524	1,139973273	0,0447	TEX15	testis expressed 15
1,113421618	0,35508	1,204972315	0,00082	TEX28	testis expressed 28
0,751580739	0,21755	0,741747467	0,00134	TFAM	transcription factor A, mitochondrial
1,004167543	0,98298	0,793883931	0,01214	TFAM	transcription factor A, mitochondrial
1,087488391	0,25901	1,158292806	0,02617	TFAP2B	transcription factor AP-2 beta (activating enhancer binding protein 2 beta)
0,816768991	0,07699	0,868140228	0,00558	TFB1M	transcription factor B1, mitochondrial
0,85797053	0,31719	0,77271055	0,00023	TFB2M	transcription factor B2, mitochondrial
0,891310496	0,27377	0,760489377	0,00224	TFCP2L1	transcription factor CP2-like 1
0,767905135	0,15278	0,820172911	0,03862	TFDP1	transcription factor Dp-1
1,095811766	0,5245	0,792784137	0,01129	TFDP1	transcription factor Dp-1
1,104198847	0,38582	0,821310701	0,00489	TFDP1	transcription factor Dp-1
1,195819797	0,09788	1,20163605	0,0126	TFEB	transcription factor EB
1,04608494	0,55593	1,175276328	0,03614	TFF3	trefoil factor 3 (intestinal)
0,906890329	0,71517	0,692554734	0,00074	TFG	TRK-fused gene
0,950659101	0,83331	0,752623374	0,00383	TFG	TRK-fused gene
1,296839555	0,2019	1,312211255	0,01572	TFPI	tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)
1,070288698	0,45504	1,162314108	0,02467	TFPT	TCF3 (E2A) fusion partner (in childhood Leukemia)
0,928516852	0,39836	0,878430468	0,01226	TFR2	transferrin receptor 2
1,126619228	0,35838	1,2397077	0,0026	TG	thyroglobulin
1,387030969	0,36602	1,433955248	0,00449	TGFB1	transforming growth factor, beta 1
1,122721422	0,27947	1,210833084	0,03079	TGFB2	transforming growth factor, beta 2
1,162314108	0,17703	1,306765254	0,04157	TGFBR1	transforming growth factor, beta receptor 1
0,730522189	0,11028	0,780786493	0,01401	TGFBR1	transforming growth factor, beta receptor 1
1,043911927	0,74401	1,312211255	0,04926	TGFBR2	transforming growth factor, beta receptor II (70/80kDa)
1,192508872	0,07236	1,147107024	0,04022	TGIF2	TGFB-induced factor homeobox 2
1,193335743	0,14008	1,204972315	0,00054	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
1,2397077	0,06807	1,189207115	0,02604	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
1,258757174	0,09533	1,255271991	0,00228	TGOLN2	trans-golgi network protein 2
0,662503509	0,1057	0,874784765	0,01637	TH1L	TH1-like (Drosophila)
0,7031966	0,14202	0,889458994	0,04176	TH1L	TH1-like (Drosophila)
0,998614666	0,99407	0,85797053	0,01696	THADA	thyroid adenoma associated
0,963929808	0,68551	0,817335328	0,00088	THAP11	THAP domain containing 11
0,635515845	0,0536	0,579949827	0,00011	THAP2	THAP domain containing, apoptosis associated protein 2
0,7031966	0,05947	0,745872013	0,01318	THBD	thrombomodulin
1,142346247	0,23478	1,349102534	0,01296	THBS1	thrombospondin 1
1,00486382	0,95782	1,180992661	0,00357	THBS3	thrombospondin 3
1,108032348	0,33868	1,131314463	0,04452	THNSL2	threonine synthase-like 2 (S. cerevisiae)
0,645728675	0,07549	0,751059963	0,00007	THOC2	THO complex 2
0,650220073	0,21617	0,781869643	0,00181	THOC2	THO complex 2
0,712025098	0,22712	0,81056512	0,00092	THOC2	THO complex 2
0,919550046	0,62155	0,816203046	0,01152	THOC2	THO complex 2
0,706616822	0,45274	0,710546022	0,03893	THOC4	THO complex 4
0,699308041	0,14146	0,723467443	0,00722	THOC4	THO complex 4
0,751580739	0,06911	0,804408371	0,00159	THOC7	THO complex 7 homolog (Drosophila)
0,868742185	0,37834	0,786762445	0,03829	THOC7	THO complex 7 homolog (Drosophila)
1,017479692	0,8701	1,194163187	0,0252	THRA	thyroid hormone receptor, alpha
0,661127303	0,17454	0,786762445	0,00139	THRAP3	thyroid hormone receptor associated protein 3
0,756808396	0,24381	0,733058379	0,00069	THRB	thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian)
0,87175824	0,56429	0,848507902	0,02698	THRB	thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian)
0,961927455	0,73397	1,108032348	0,02232	THRSP	thyroid hormone responsive
1,297738767	0,23066	1,344434994	0,0049	THSD7A	thrombospondin, type I, domain containing 7A
0,875998315	0,52356	0,839149637	0,01057	THSD7B	thrombospondin, type I, domain containing 7B
1,066585781	0,55155	1,25092908	0,0039	THTPA	thiamine triphosphatase
0,947370071	0,85395	0,791137301	0,0006	THUMPD1	THUMP domain containing 1
0,863938187	0,56281	0,823591017	0,00862	THUMPD1	THUMP domain containing 1
0,810003474	0,0948	0,817902059	0,00075	THUMPD2	THUMP domain containing 2
0,803850991	0,22013	0,739693755	0,00017	THUMPD3	THUMP domain containing 3
1,223488041	0,50061	1,623379162	0,00032	THY1	Thy-1 cell surface antigen
1,114193651	0,59326	1,566994374	0,00139	THY1	Thy-1 cell surface antigen
1,295940965	0,0851	1,461044379	0,00065	THY1	Thy-1 cell surface antigen
0,771105413	0,05477	0,837987135	0,00863	TIA1	TIA1 cytotoxic granule-associated RNA binding protein
1,043911927	0,61552	1,082224645	0,04671	TIAF1	TGFB1-induced anti-apoptotic factor 1
1,340712592	0,20786	1,817556233	0,00106	TIE1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1
1,188383105	0,06815	1,125058485	0,03802	TIFAB	TRAF-interacting protein with forkhead-associated domain, family member B
0,844400887	0,07282	0,729510172	0,00103	TIGD1	tigger transposable element derived 1
0,921464186	0,73044	0,737645729	0,00288	TIGD2	tigger transposable element derived 2
1,071030823	0,45702	1,156688184	0,01759	TIGD7	tigger transposable element derived 7
0,655651007	0,08565	0,816768991	0,01612	TIMM17A	translocase of inner mitochondrial membrane 17 homolog A (yeast)
0,883315051	0,37005	0,862741345	0,0023	TIMM17A	translocase of inner mitochondrial membrane 17 homolog A (yeast)
0,966606097	0,73419	1,182631	0,00468	TIMM17B	translocase of inner mitochondrial membrane 17 homolog B (yeast)
1,194991205	0,25837	1,265756594	0,00699	TIMM17B	translocase of inner mitochondrial membrane 17 homolog B (yeast)
0,992404375	0,92425	1,126619228	0,04242	TIMM22	translocase of inner mitochondrial membrane 22 homolog (yeast)
0,862143545	0,18801	0,86934456	0,00983	TIMM23	translocase of inner mitochondrial membrane 23 homolog (yeast)
0,937571096	0,53553	0,79940583	0,00031	TIMM8A	translocase of inner mitochondrial membrane 8 homolog A (yeast)
0,78132788	0,06898	0,851453708	0,02185	TIMM8B	translocase of inner mitochondrial membrane 8 homolog B (yeast)
0,789493887	0,11847	0,899378312	0,01579	TIMMDC1	translocase of inner mitochondrial membrane domain containing 1
1,062895674	0,8424	1,682958965	0,00005	TIMP1	TIMP metallopeptidase inhibitor 1
1,473247686	0,05618	1,509425969	0,00003	TIMP2	TIMP metallopeptidase inhibitor 2
1,125058485	0,45368	1,227735684	0,03475	TIMP2	TIMP metallopeptidase inhibitor 2
0,757858283	0,23058	0,647072827	0,00421	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase
0,847332435	0,41294	0,708578698	0,01147	TIPRL	TIP41, TOR signaling pathway regulator-like (S. cerevisiae)
0,837987135	0,50152	0,745355193	0,03035	TIPRL	TIP41, TOR signaling pathway regulator-like (S. cerevisiae)
0,815072332	0,36873	0,716480825	0,00368	TIPRL	TIP41, TOR signaling pathway regulator-like (S. cerevisiae)

0,934327347	0,44426	1,135242102	0,01809	TIRAP	toll-interleukin 1 receptor (TIR) domain containing adaptor protein
1,199971382	0,0915	1,330529041	0,00072	TIRAP	toll-interleukin 1 receptor (TIR) domain containing adaptor protein
1,115739322	0,36241	1,171210181	0,01042	TJAP1	tight junction associated protein 1 (peripheral)
0,690637224	0,13566	0,742261785	0,00024	TJP1	tight junction protein 1 (zona occludens 1)
1,176906737	0,14191	1,267512522	0,00159	TJP3	tight junction protein 3 (zona occludens 3)
1,082224645	0,47466	1,143930973	0,02022	TK2	thymidine kinase 2, mitochondrial
1,168777249	0,21641	1,379360922	0,00024	TK2	thymidine kinase 2, mitochondrial
0,585605091	0,07077	0,815072332	0,02135	TKT	transketolase
1,106497353	0,31075	1,142346247	0,01713	TKTL1	transketolase-like 1
0,849684999	0,18293	0,778624691	0,01468	TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)
0,76630998	0,05006	0,763658749	0,01907	TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)
0,948026965	0,79124	0,851453708	0,00642	TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)
1,065108203	0,61807	0,901875378	0,02119	TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)
0,859756486	0,2829	0,778085177	0,00603	TLE4	transducin-like enhancer of split 4 (E(sp1) homolog, Drosophila)
1,172834949	0,06699	1,114193651	0,02211	TLE6	transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila)
0,85086373	0,43646	0,833931044	0,00479	TLK1	tousled-like kinase 1
0,955282936	0,5342	0,8962667	0,00944	TLK1	tousled-like kinase 1
1,22010051	0,12203	1,17609125	0,02303	TLL2	tolloid-like 2
0,917639882	0,66437	0,802737389	0,03567	TLR3	toll-like receptor 3
1,172834949	0,05199	1,237132479	0,00064	TLR6	toll-like receptor 6
1,000693387	0,99715	1,240567298	0,02434	TLR6	toll-like receptor 6
1,071773463	0,49212	1,132883885	0,01932	TLR7	toll-like receptor 7
1,192508872	0,124	1,197478705	0,00393	TLR8	toll-like receptor 8
0,862741345	0,08496	0,879039561	0,00535	TM2D2	TM2 domain containing 2
0,803850991	0,14955	0,71946679	0,00052	TM2D3	TM2 domain containing 3
0,793883931	0,05856	0,845572287	0,00171	TM2D3	TM2 domain containing 3
1,341642225	0,2495	1,31494276	0,02173	TM4SF18	transmembrane 4 L six family member 18
1,142346247	0,16176	1,135242102	0,04661	TM4SF4	transmembrane 4 L six family member 4
1,092777739	0,30343	1,271031689	0,00106	TM4SF5	transmembrane 4 L six family member 5
1,180992661	0,14316	1,153485605	0,00688	TM6SF2	transmembrane 6 superfamily member 2
0,711038705	0,10197	0,754190038	0,00105	TM7SF3	transmembrane 7 superfamily member 3
1,234562607	0,1893	1,193335743	0,00682	TM9SF1	transmembrane 9 superfamily member 1
0,748980467	0,05442	0,813943185	0,00022	TM9SF3	transmembrane 9 superfamily member 3
0,804408371	0,20426	0,836826243	0,00992	TM9SF3	transmembrane 9 superfamily member 3
1,160703914	0,0864	1,210833084	0,00169	TM9SF3	transmembrane 9 superfamily member 3
1,209994089	0,27036	1,263127262	0,00432	TM9SF4	transmembrane 9 superfamily protein member 4
0,774855931	0,21203	0,830470024	0,00358	TMBIM4	transmembrane BAX inhibitor motif containing 4
1,009051634	0,96026	1,274560627	0,00093	TMBIM6	transmembrane BAX inhibitor motif containing 6
1,095811766	0,41221	1,151089491	0,01038	TMC2	transmembrane channel-like 2
1,081474763	0,71481	1,240567298	0,00797	TMC6	transmembrane channel-like 6
1,478362431	0,09327	1,541142217	0,00318	TMC8	transmembrane channel-like 8
0,954621014	0,66607	0,834509281	0,02544	TMCC1	transmembrane and coiled-coil domain family 1
0,745872013	0,06027	0,799960128	0,00424	TMCC1	transmembrane and coiled-coil domain family 1
0,817902059	0,4551	0,756808396	0,00731	TMCC1	transmembrane and coiled-coil domain family 1
0,869947353	0,57982	0,772175133	0,01812	TMCC3	transmembrane and coiled-coil domain family 3
1,090507733	0,30364	1,119612889	0,00723	TMCO2	transmembrane and coiled-coil domains 2
1,235418637	0,06813	1,268391399	0,0014	TMCO4	transmembrane and coiled-coil domains 4
1,151089491	0,25303	1,271031689	0,00115	TMCO4	transmembrane and coiled-coil domains 4
1,065846736	0,43156	1,136816973	0,0087	TMCO5B	transmembrane and coiled-coil domains 5B, pseudogene
1,137605228	0,18047	1,114193651	0,03121	TMCO7	transmembrane and coiled-coil domains 7
1,064370182	0,50224	1,104198847	0,04954	TMED4	transmembrane emp24 protein transport domain containing 4
0,898755127	0,27055	0,800514811	0,00126	TMED4	transmembrane emp24 protein transport domain containing 4
0,822450069	0,34822	0,856188285	0,02875	TMED8	transmembrane emp24 protein transport domain containing 8
1,185914499	0,43817	1,305859787	0,00044	TMED9	transmembrane emp24 protein transport domain containing 9
1,068805991	0,49586	1,222640278	0,02445	TMED9	transmembrane emp24 protein transport domain containing 9
1,024556823	0,77725	1,135242102	0,0478	TMEM102	transmembrane protein 102
1,108032348	0,35242	1,181811547	0,02229	TMEM104	transmembrane protein 104
0,874784765	0,5384	0,720464874	0,00683	TMEM106B	transmembrane protein 106B
1,056285625	0,89641	0,708578698	0,00135	TMEM106B	transmembrane protein 106B
0,959264119	0,84467	0,832198735	0,02524	TMEM106B	transmembrane protein 106B
1,059952783	0,64709	1,134455485	0,01913	TMEM107	transmembrane protein 107
0,821310701	0,12265	0,773246337	0,00008	TMEM111	transmembrane protein 111
1,278099363	0,20674	1,460032011	0,01499	TMEM119	transmembrane protein 119
1,01395948	0,91301	1,204137381	0,00013	TMEM120B	transmembrane protein 120B
1,187559666	0,07697	1,175276328	0,04872	TMEM121	transmembrane protein 121
0,835666959	0,40753	0,774855931	0,03277	TMEM123	transmembrane protein 123
0,996540263	0,98513	0,817902059	0,01688	TMEM128	transmembrane protein 128
0,985549337	0,80334	1,143930973	0,00484	TMEM130	transmembrane protein 130
1,506290467	0,05743	1,453972517	0,00054	TMEM132A	transmembrane protein 132A
1,056285625	0,80243	0,893165852	0,03837	TMEM132B	transmembrane protein 132B
1,110338834	0,29938	1,158292806	0,0076	TMEM136	transmembrane protein 136
1,163120042	0,17242	1,246601194	0,00254	TMEM143	transmembrane protein 143
0,953298545	0,80404	0,819036698	0,01657	TMEM144	transmembrane protein 144
1,009751298	0,91777	1,164733586	0,0042	TMEM145	transmembrane protein 145
0,91383145	0,27797	0,852044095	0,00167	TMEM14B	transmembrane protein 14B
1,035982764	0,7885	1,142346247	0,02356	TMEM151B	transmembrane protein 151B
1,0132569	0,8985	1,170398641	0,00232	TMEM161A	transmembrane protein 161A
1,00486382	0,97926	0,836826243	0,03259	TMEM161B	transmembrane protein 161B
1	0,99891	0,878430468	0,03074	TMEM161B	transmembrane protein 161B
0,858565436	0,36961	0,746906729	0,00169	TMEM165	transmembrane protein 165
0,770037174	0,07977	0,77916458	0,00698	TMEM167A	transmembrane protein 167A
0,760489377	0,13822	0,822450069	0,00165	TMEM168	transmembrane protein 168
1,143930973	0,08786	1,231144413	0,00156	TMEM169	transmembrane protein 169
1,220946513	0,35408	1,244011653	0,0039	TMEM173	transmembrane protein 173
1,083725967	0,74739	1,216722359	0,00786	TMEM173	transmembrane protein 173
1,118061851	0,12946	1,147902414	0,0072	TMEM174	transmembrane protein 174
1,204972315	0,14238	1,159095952	0,00808	TMEM175	transmembrane protein 175
1,07997656	0,43079	1,180174343	0,01617	TMEM177	transmembrane protein 177
0,975355462	0,85994	1,204972315	0,00443	TMEM179B	transmembrane protein 179B
0,839731493	0,54411	0,779704843	0,00057	TMEM181	transmembrane protein 181
0,898755127	0,377	0,825305409	0,00368	TMEM184C	transmembrane protein 184C
1,019597683	0,84566	0,803850991	0,00665	TMEM185B	transmembrane protein 185B
0,827596816	0,07844	0,863339559	0,00534	TMEM186	transmembrane protein 186
0,86934456	0,21236	0,79940583	0,01922	TMEM188	transmembrane protein 188
0,849684999	0,14124	0,829894586	0,00601	TMEM191A	transmembrane protein 191A
0,96727633	0,73071	1,188383105	0,03601	TMEM194A	transmembrane protein 194A
1,224336392	0,05098	1,21167266	0,00137	TMEM201	transmembrane protein 201
1,214194884	0,51208	1,330529041	0,00001	TMEM205	transmembrane protein 205
1,197478705	0,24977	1,179356592	0,00074	TMEM208	transmembrane protein 208
1,32592576	0,218	1,31494276	0,00487	TMEM214	transmembrane protein 214
0,997231251	0,97105	1,144724161	0,03906	TMEM219	transmembrane protein 219
1,051172909	0,63473	1,100378609	0,04871	TMEM221	transmembrane protein 221
1,025267238	0,79477	1,255271991	0,00235	TMEM223	transmembrane protein 223
0,992404375	0,92862	1,118061851	0,02231	TMEM229B	transmembrane protein 229B

1,21335356	0,15532	1,271913007	0,0057	TMEM229B	transmembrane protein 229B
0,987600861	0,87843	0,87539133	0,044	TMEM231	transmembrane protein 231
1,027401439	0,76515	1,143930973	0,03463	TMEM234	transmembrane protein 234
1,107264584	0,38922	1,161508732	0,03877	TMEM234	transmembrane protein 234
1,090507733	0,41905	1,142346247	0,03344	TMEM235	transmembrane protein 235
0,725476104	0,08246	0,675955417	0,00124	TMEM30B	transmembrane protein 30B
0,951318276	0,81621	0,744838732	0,00995	TMEM33	transmembrane protein 33
0,71548826	0,09088	0,714992493	0,00001	TMEM33	transmembrane protein 33
1,043188594	0,84968	0,903752727	0,04626	TMEM33	transmembrane protein 33
0,985549337	0,95379	0,734075318	0,00433	TMEM33	transmembrane protein 33
0,963261894	0,76967	0,877821798	0,01678	TMEM35	transmembrane protein 35
1,136816973	0,32973	1,350037985	0,00224	TMEM37	transmembrane protein 37
1,215036792	0,3564	0,818469182	0,00626	TMEM38B	transmembrane protein 38B
1,022428531	0,78364	1,209155676	0,01472	TMEM39A	transmembrane protein 39A
1,034547582	0,87271	1,271913007	0,00428	TMEM39B	transmembrane protein 39B
0,631126016	0,05631	0,823591017	0,0056	TMEM43	transmembrane protein 43
1,024556823	0,82072	1,270150983	0,00363	TMEM44	transmembrane protein 44
0,717474767	0,12693	0,683020128	0,00035	TMEM45B	transmembrane protein 45B
0,999307093	0,99523	0,882702996	0,03372	TMEM48	transmembrane protein 48
1,002776436	0,98825	0,72597914	0,00354	TMEM5	transmembrane protein 5
0,843815796	0,11789	0,816768991	0,01504	TMEM57	transmembrane protein 57
1,143138335	0,24847	1,220946513	0,00289	TMEM59	transmembrane protein 59
1,067325338	0,55842	1,155886707	0,02445	TMEM63A	transmembrane protein 63A
0,752623374	0,26973	0,739693755	0,00093	TMEM65	transmembrane protein 65
0,974004269	0,71759	0,906890329	0,01078	TMEM67	transmembrane protein 67
0,79940583	0,16849	0,808320869	0,01429	TMEM68	transmembrane protein 68
0,933679945	0,75927	0,643940815	0,00082	TMEM68	transmembrane protein 68
0,863339559	0,39852	0,811127156	0,00697	TMEM69	transmembrane protein 69
1,064370182	0,49012	1,250062303	0,00335	TMEM72	transmembrane protein 72
0,989656656	0,94849	0,837406488	0,00195	TMEM80	transmembrane protein 80
0,790589117	0,15263	0,844986384	0,00022	TMEM87A	transmembrane protein 87A
1,011152081	0,90946	0,8962667	0,03156	TMEM87A	transmembrane protein 87A
0,946713631	0,79503	1,182631	0,0112	TMEM9	transmembrane protein 9
1,036701101	0,76428	1,119612889	0,02792	TMEM9	transmembrane protein 9
0,860949188	0,16739	1,143930973	0,01343	TMEM92	transmembrane protein 92
1,090507733	0,39999	1,143930973	0,00914	TMEM92	transmembrane protein 92
1,161508732	0,13912	1,305859787	0,00017	TMEM95	transmembrane protein 95
0,806641759	0,10926	0,890692901	0,03161	TMEM97	transmembrane protein 97
0,78024548	0,15055	0,860352631	0,02251	TMEM97	transmembrane protein 97
0,751059963	0,28044	0,746906729	0,01579	TMOD2	tropomodulin 2 (neuronal)
0,654742712	0,07024	0,67689314	0,0007	TMOD3	tropomodulin 3 (ubiquitous)
0,668500248	0,06542	0,76684133	0,03014	TMPRSS11B	transmembrane protease, serine 11B
1,207480591	0,15497	1,25962998	0,00143	TMPRSS2	transmembrane protease, serine 2
1,301341855	0,19223	1,335148303	0,00647	TMPRSS4	transmembrane protease, serine 4
1,220946513	0,06268	1,351910833	0,00004	TMPRSS6	transmembrane protease, serine 6
0,708578698	0,35725	1,120389214	0,03299	TMSB10	thymosin beta 10
1,132883885	0,32801	1,07997656	0,03291	TMSB15B	thymosin beta 15B
1,679462986	0,09561	1,464085696	0,00731	TMTC1	transmembrane and tetratricopeptide repeat containing 1
1,107264584	0,33244	1,118837101	0,04273	TMTC1	transmembrane and tetratricopeptide repeat containing 1
1,017479692	0,96134	0,695923196	0,01716	TMTC2	transmembrane and tetratricopeptide repeat containing 2
0,898132373	0,20764	0,807760778	0,00116	TMTC3	transmembrane and tetratricopeptide repeat containing 3
0,701735863	0,16121	0,713507253	0,0023	TMTC3	transmembrane and tetratricopeptide repeat containing 3
0,746389192	0,28269	0,732550437	0,00049	TMTC3	transmembrane and tetratricopeptide repeat containing 3
1,16634937	0,24113	1,187559666	0,0095	TMUB1	transmembrane and ubiquitin-like domain containing 1
0,878430468	0,43574	0,852634892	0,00959	TMX1	thioredoxin-related transmembrane protein 1
0,815637493	0,26011	0,863938187	0,02006	TMX3	thioredoxin-related transmembrane protein 3
1,142346247	0,25741	1,32408891	0,00145	TNFAIP2	tumor necrosis factor, alpha-induced protein 2
1,269270886	0,27601	1,255271991	0,00311	TNFAIP2	tumor necrosis factor, alpha-induced protein 2
1,057750964	0,5472	1,176906737	0,03371	TNFAIP8L1	tumor necrosis factor, alpha-induced protein 8-like 1
0,71449707	0,07049	0,811127156	0,03766	TNFRSF10A	tumor necrosis factor receptor superfamily, member 10a
0,814507563	0,38827	0,691595315	0,00018	TNFRSF10A	tumor necrosis factor receptor superfamily, member 10a
0,76950361	0,26248	0,717474767	0,01104	TNFRSF11A	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
1,235418637	0,06337	1,277213759	0,00819	TNFRSF13B	tumor necrosis factor receptor superfamily, member 13B
1,20664392	0,09416	1,172834949	0,02829	TNFRSF13C	tumor necrosis factor receptor superfamily, member 13C
0,992404375	0,97418	1,245737416	0,0099	TNFRSF21	tumor necrosis factor receptor superfamily, member 21
1,255271991	0,11911	1,375541818	0,00011	TNFRSF4	tumor necrosis factor receptor superfamily, member 4
0,834509281	0,51733	1,22010051	0,04284	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10
0,775393206	0,45707	1,384149716	0,00024	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10
1,135242102	0,65809	1,284315809	0,03475	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10
1,685293659	0,05359	1,278099363	0,02745	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b
1,139973273	0,11462	1,145517898	0,02596	TNFSF8	tumor necrosis factor (ligand) superfamily, member 8
0,995849753	0,97941	1,20163605	0,02882	TNK1	tyrosine kinase, non-receptor, 1
1,120389214	0,19863	0,915733686	0,01975	TNKS	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase
0,971307496	0,71336	0,925304428	0,0202	TNKS2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2
1,188383105	0,0518	1,254402205	0,00251	TNNT2	troponin T type 2 (cardiac)
1,016070143	0,82966	1,129747215	0,0104	TNNT3	troponin T type 3 (skeletal, fast)
1,070288698	0,54231	1,190856849	0,02431	TNPO1	transportin 1
0,796640096	0,11593	0,739693755	0,0007	TNPO1	transportin 1
0,78132788	0,29586	0,827023368	0,00644	TNPO1	transportin 1
0,878430468	0,39504	0,864537231	0,00713	TNPO1	transportin 1
0,727490342	0,37395	0,820741609	0,00131	TNPO1	transportin 1
1,095811766	0,55465	0,819604608	0,00714	TNPO1	transportin 1
0,887611337	0,61625	0,789493887	0,01326	TNPO1	transportin 1
0,995159722	0,98387	0,847332435	0,00876	TNPO1	transportin 1
1,167158102	0,14843	0,908148418	0,03855	TNPO1	transportin 1
1,07997656	0,29119	1,17609125	0,00021	TNR	tenascin R (restrictin, janusin)
1,155886707	0,15769	1,266634254	0,00063	TNRC18	trinucleotide repeat containing 18
1,009751298	0,90732	1,164733586	0,02468	TNRC18	trinucleotide repeat containing 18
0,879649076	0,66639	0,765778999	0,00739	TNRC6B	trinucleotide repeat containing 6B
1,163120042	0,1802	1,191682575	0,02158	TNRC6C	trinucleotide repeat containing 6C
1,119612889	0,28956	0,798298386	0,00877	TNS1	tensin 1
0,933679945	0,75856	0,794985251	0,03124	TOB1	transducer of ERBB2, 1
0,948026965	0,57432	1,094293701	0,02298	TOLLIP	toll interacting protein
0,995849753	0,95945	0,821880187	0,02682	TOMM22	translocase of outer mitochondrial membrane 22 homolog (yeast)
0,957271458	0,6569	0,872362706	0,00846	TOMM5	translocase of outer mitochondrial membrane 5 homolog (yeast)
0,736113431	0,07671	0,868742185	0,03324	TOMM5	translocase of outer mitochondrial membrane 5 homolog (yeast)
0,85086373	0,37822	0,816768991	0,00008	TOMM70A	translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae)
0,997922719	0,98	0,925946023	0,02806	TOP1MT	topoisomerase (DNA) I, mitochondrial
0,740206649	0,10912	0,830470024	0,01259	TOP2B	topoisomerase (DNA) II beta 180kDa
0,689680461	0,14575	0,763129604	0,00067	TOPBP1	topoisomerase (DNA) II binding protein 1
0,777007269	0,31108	0,70270935	0,01171	TOPORS	topoisomerase I binding, arginine/serine-rich, E3 ubiquitin protein ligase
0,851453708	0,42221	0,77271055	0,00368	TOR1AIP1	torsin A interacting protein 1
0,87175824	0,24525	0,854409741	0,04824	TOR1AIP1	torsin A interacting protein 1
0,834509281	0,30996	0,785128119	0,0065	TOR1AIP2	torsin A interacting protein 2

1,020304659	0,79924	1,130530567	0,04269	TOR1AIP2	torsin A interacting protein 2
1,038859103	0,71744	0,872362706	0,00333	TOR1B	torsin family 1, member B (torsin B)
1,559409685	0,06053	1,31494276	0,01587	TOX	thymocyte selection-associated high mobility group box
0,992404375	0,97614	0,816768991	0,04552	TOX3	TOX high mobility group box family member 3
1,00486382	0,96753	0,833353207	0,02546	TOX3	TOX high mobility group box family member 3
1,006257823	0,95184	0,833931044	0,01884	TOX4	TOX high mobility group box family member 4
0,96727633	0,75181	1,142346247	0,00589	TP53BP1	tumor protein p53 binding protein 1
1,016070143	0,90317	1,312211255	0,0042	TP53I11	tumor protein p53 inducible protein 11
0,844986384	0,40038	1,184271612	0,0254	TP53I3	tumor protein p53 inducible protein 3
0,882702996	0,18503	0,810003474	0,00038	TP53RK	TP53 regulating kinase
0,759435845	0,05705	0,823591017	0,00965	TP63	tumor protein p63
1,014662547	0,90684	1,154285418	0,01884	TP73-AS1	TP73 antisense RNA 1 (non-protein coding)
0,677362489	0,06969	0,740206649	0,00195	TPBG	trophoblast glycoprotein
1,009751298	0,94975	0,903752727	0,03766	TPCN2	two pore segment channel 2
0,910669834	0,53095	0,723969086	0,01319	TPD52	tumor protein D52
0,903752727	0,43466	0,813943185	0,00452	TPD52	tumor protein D52
0,794985251	0,15836	0,79940583	0,0116	TPD52	tumor protein D52
0,60583633	0,20397	0,716480825	0,01005	TPD52L1	tumor protein D52-like 1
1,160703914	0,16778	1,25353302	0,00607	TPD52L3	tumor protein D52-like 3
1,551861709	0,07031	1,41519416	0,00408	TPM1	tropomyosin 1 (alpha)
1,308578071	0,21206	1,442928687	0,00109	TPM1	tropomyosin 1 (alpha)
1,121166078	0,3707	1,346300069	0,00061	TPM1	tropomyosin 1 (alpha)
1,106497353	0,19041	1,322254605	0,00013	TPM2	tropomyosin 2 (beta)
1,035264924	0,67487	1,114193651	0,0484	TPM3	tropomyosin 3
0,70027816	0,13504	0,749499801	0,00734	TPM4	tropomyosin 4
0,807201075	0,07375	0,826450318	0,00028	TPMT	thiopurine S-methyltransferase
0,982820599	0,93604	1,172834949	0,01473	TPP1	tripeptidyl peptidase I
0,992404375	0,96328	1,188383105	0,001	TPP1	tripeptidyl peptidase I
1,074749173	0,59354	1,257013375	0,00087	TPP1	tripeptidyl peptidase I
0,885153765	0,34849	0,774855931	0,00327	TPPP	tubulin polymerization promoting protein
1,057750964	0,39188	1,160703914	0,01709	TPPP2	tubulin polymerization-promoting protein family member 2
0,886996305	0,76634	0,701735863	0,00024	TPR	translocated promoter region (to activated MET oncogene)
0,808320869	0,1727	0,874784765	0,01584	TPRG1L	tumor protein p63 regulated 1-like
0,868140228	0,64047	1,402499251	0,01893	TPSAB1	tryptase alpha/beta 1
0,892546971	0,63284	1,394743666	0,00334	TPSAB1	tryptase alpha/beta 1
0,940174203	0,8028	1,337927555	0,04522	TPSAB1	tryptase alpha/beta 1
0,888842681	0,64463	1,337000495	0,03333	TPSAB1	tryptase alpha/beta 1
0,869947353	0,60013	1,403471726	0,02688	TPSB2	tryptase beta 2 (gene/pseudogene)
1,086734863	0,50553	1,222640278	0,0462	TPST1	tyrosylprotein sulfotransferase 1
1,002081605	0,98498	1,196648963	0,00157	TPTE2P1	transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 pseudogene 1
1,231998073	0,10664	1,093535457	0,03444	TPTE2P6	transmembrane phosphoinositide 3-phosphatase and tensin homolog 2 pseudogene 6
0,805524291	0,62941	0,690158677	0,00012	TRA2A	transformer 2 alpha homolog (Drosophila)
0,917639882	0,5187	0,722966147	0,00188	TRA2A	transformer 2 alpha homolog (Drosophila)
0,942131274	0,42537	0,8962667	0,02418	TRA2B	transformer 2 beta homolog (Drosophila)
1,350037985	0,13391	1,450952208	0,0034	TRAC	T cell receptor alpha constant
1,091263877	0,41382	1,149494848	0,00764	TRADD	TNFRSF1A-associated via death domain
0,898132373	0,63806	0,808320869	0,00137	TRAF3IP1	TNF receptor-associated factor 3 interacting protein 1
0,974004269	0,72737	0,854409741	0,00615	TRAF3IP2	TRAF3 interacting protein 2
1,234562607	0,08888	1,145517898	0,01551	TRAF3IP2-AS1	TRAF3IP2 antisense RNA 1 (non-protein coding)
1,205807828	0,227	1,22603486	0,0033	TRAF4	TNF receptor-associated factor 4
1,454980684	0,12465	1,382232207	0,02245	TRAF5	TNF receptor-associated factor 5
1,057750964	0,69271	0,908778116	0,03159	TRAF7	TNF receptor-associated factor 7
1,077733145	0,39454	1,144724161	0,00441	TRAJ17	T cell receptor alpha joining 17
0,734584317	0,14283	1,262252032	0,00341	TRAK1	trafficking protein, kinesin binding 1
0,866937564	0,33775	0,882702996	0,02163	TRAK1	trafficking protein, kinesin binding 1
1,471206746	0,24611	1,622254311	0,00008	TRAM2	translocation associated membrane protein 2
1,420107359	0,17794	1,549711862	0,00022	TRAM2	translocation associated membrane protein 2
1,16634937	0,38526	0,759435845	0,00526	TRAPPC10	trafficking protein particle complex 10
1,058484395	0,58447	0,90062598	0,03713	TRAPPC10	trafficking protein particle complex 10
0,912565489	0,53612	0,755236293	0,0004	TRAPPC10	trafficking protein particle complex 10
1,025978145	0,84992	1,095052471	0,03592	TRAPPC6A	trafficking protein particle complex 6A
0,795536484	0,22376	0,789493887	0,00019	TRAPPC8	trafficking protein particle complex 8
1,088242442	0,23802	1,092777739	0,03989	TRBV25-1	T cell receptor beta variable 25-1
1,085981856	0,35744	1,108800644	0,04762	TRBV7-3	T cell receptor beta variable 7-3
1,043911927	0,54021	1,096571589	0,03079	TRDV2	T cell receptor delta variable 2
1,210833084	0,20378	1,419123356	0,00011	TREM1	triggering receptor expressed on myeloid cells 1
1,158292806	0,23524	1,25092908	0,00465	TREM2	triggering receptor expressed on myeloid cells 2
1,025267238	0,8051	1,161508732	0,01834	TREML2	triggering receptor expressed on myeloid cells-like 2
1,159095952	0,20239	1,186736798	0,0024	TRERF1	transcriptional regulating factor 1
0,806641759	0,34205	0,641268301	0,00119	TRERF1	transcriptional regulating factor 1
1,088242442	0,38608	1,140763716	0,03107	TRGV5	T cell receptor gamma variable 5
1,151089491	0,20102	1,179356592	0,00114	TRH	thyrotropin-releasing hormone
1,009751298	0,95887	1,178539408	0,03619	TRIB2	tribbles homolog 2 (Drosophila)
1,002776436	0,97903	1,109569472	0,04887	TRIB3	tribbles homolog 3 (Drosophila)
0,525222272	0,07341	0,55632506	0,00003	TRIM13	tripartite motif containing 13
0,820741609	0,14395	0,791137301	0,00549	TRIM13	tripartite motif containing 13
0,637722196	0,21266	0,602068691	0,00006	TRIM13	tripartite motif containing 13
0,647521499	0,10968	0,726482525	0,00003	TRIM13	tripartite motif containing 13
0,832775771	0,14992	0,811689581	0,01413	TRIM14	tripartite motif containing 14
0,870550563	0,4373	0,756283999	0,00015	TRIM14	tripartite motif containing 14
1,149494848	0,11681	1,205807828	0,00565	TRIM14	tripartite motif containing 14
1,072516617	0,44245	1,091263877	0,03328	TRIM15	tripartite motif containing 15
1,119612889	0,71679	0,786762445	0,00688	TRIM23	tripartite motif containing 23
0,863339559	0,35498	0,849096246	0,04462	TRIM24	tripartite motif containing 24
0,805524291	0,23435	0,793883931	0,01475	TRIM24	tripartite motif containing 24
1,10343374	0,4213	1,154285418	0,00605	TRIM26	tripartite motif containing 26
1,517819253	0,16085	1,252664439	0,00256	TRIM27	tripartite motif containing 27
0,505225723	0,1025	0,73153561	0,004	TRIM29	tripartite motif containing 29
0,771105413	0,21568	0,764718139	0,00018	TRIM33	tripartite motif containing 33
0,744322628	0,09742	0,691595315	0,00016	TRIM33	tripartite motif containing 33
1,167967395	0,19481	1,144724161	0,00648	TRIM36	tripartite motif containing 36
1,00486382	0,9696	0,876605721	0,01479	TRIM36	tripartite motif containing 36
1,271913007	0,11823	1,341642225	0,03013	TRIM4	tripartite motif containing 4
1,125838586	0,12565	1,084477409	0,03774	TRIM42	tripartite motif containing 42
0,639936207	0,13911	0,531447837	0,00006	TRIM59	tripartite motif containing 59
0,941478465	0,5941	1,122721422	0,03008	TRIM62	tripartite motif containing 62
1,016774673	0,78575	1,17772279	0,04318	TRIM65	tripartite motif containing 65
0,806082831	0,29198	0,827023368	0,01305	TRIM66	tripartite motif containing 66
0,892546971	0,40465	0,846158597	0,03759	TRIM69	tripartite motif containing 69
1,070288698	0,6573	0,757858283	0,03469	TRIM73	tripartite motif containing 73
1,199139914	0,22842	1,143138335	0,04075	TRIM78P	tripartite motif containing 78, pseudogene
1,182631	0,0904	1,135242102	0,02965	TRIM8	tripartite motif containing 8
1,113421618	0,26488	1,144724161	0,01337	TRIO	triple functional domain (PTPRF interacting)
1,009051634	0,95398	1,163120042	0,04834	TRIO	triple functional domain (PTPRF interacting)

1,122721422	0,24392	1,143930973	0,02909	TRIO	triple functional domain (PTPRF interacting)
0,877213549	0,10095	0,734075318	0,00006	TRIOBP	TRIO and F-actin binding protein
0,977385766	0,90967	0,77916458	0,001	TRIP13	thyroid hormone receptor interactor 13
0,918276162	0,61107	0,776468875	0,02571	TRMT11	tRNA methyltransferase 11 homolog (S. cerevisiae)
1,085229372	0,24094	1,143930973	0,04561	TRMT2A	TRM2 tRNA methyltransferase 2 homolog A (S. cerevisiae)
0,874784765	0,58403	0,716977624	0,00021	TRMT6	tRNA methyltransferase 6 homolog (S. cerevisiae)
0,984184022	0,9312	0,854409741	0,01477	TRMT61B	tRNA methyltransferase 61 homolog B (S. cerevisiae)
0,815072332	0,26095	0,805524291	0,01011	TRNT1	tRNA nucleotidyl transferase, CCA-adding, 1
0,915733686	0,44441	1,248330549	0,00225	TRO	trophinin
0,924022572	0,37887	1,298638603	0,00099	TROAP	trophinin associated protein (tastin)
1,006257823	0,98055	0,868140228	0,03938	TROVE2	TROVE domain family, member 2
1,027401439	0,90494	0,853226098	0,02594	TROVE2	TROVE domain family, member 2
0,829319546	0,26134	0,829319546	0,00273	TROVE2	TROVE domain family, member 2
1,101141598	0,13878	1,071773463	0,04263	TRPC3	transient receptor potential cation channel, subfamily C, member 3
1,237990291	0,08641	1,278985581	0,00017	TRPM2	transient receptor potential cation channel, subfamily M, member 2
1,102669163	0,28279	1,230291345	0,00131	TRPM3	transient receptor potential cation channel, subfamily M, member 3
1,108800644	0,33265	1,133669413	0,03048	TRPM3	transient receptor potential cation channel, subfamily M, member 3
1,188383105	0,51574	0,794985251	0,03146	TRPM7	transient receptor potential cation channel, subfamily M, member 7
1,203303026	0,06152	1,173648178	0,00292	TRPM8	transient receptor potential cation channel, subfamily M, member 8
1,152686347	0,1951	1,142346247	0,0456	TRPV1	transient receptor potential cation channel, subfamily V, member 1
1,21167266	0,06574	1,151887642	0,00819	TRPV2	transient receptor potential cation channel, subfamily V, member 2
1,130530567	0,23204	1,148698355	0,01711	TRPV3	transient receptor potential cation channel, subfamily V, member 3
1,032398535	0,8919	0,84323111	0,02733	TRUB1	TruB pseudouridine (psi) synthase homolog 1 (E. coli)
0,822450069	0,19098	0,874784765	0,01673	TSC1	tuberous sclerosis 1
0,872967591	0,14947	0,86154616	0,04932	TSC2	tuberous sclerosis 2
1,402499251	0,15745	1,16634937	0,03126	TSC22D1	TSC22 domain family, member 1
0,936921447	0,69598	0,79940583	0,0359	TSC22D2	TSC22 domain family, member 2
1,015366101	0,8791	0,866937564	0,0066	TSC22D2	TSC22 domain family, member 2
1,189207115	0,36873	1,307671349	0,0059	TSC22D3	TSC22 domain family, member 3
1,088997015	0,36143	1,106497353	0,04182	TSC22D3	TSC22 domain family, member 3
1,120389214	0,44081	1,17609125	0,02765	TSC22D4	TSC22 domain family, member 4
0,771640088	0,05714	0,771105413	0,00112	TSEN15	tRNA splicing endonuclease 15 homolog (S. cerevisiae)
0,87175824	0,2011	0,889458994	0,02621	TSEN34	tRNA splicing endonuclease 34 homolog (S. cerevisiae)
1,009751298	0,91598	0,873572896	0,04978	TSEN54	tRNA splicing endonuclease 54 homolog (S. cerevisiae)
0,961927455	0,84923	0,770037174	0,00051	TSFM	Ts translation elongation factor, mitochondrial
0,816768991	0,11362	0,817335328	0,01056	TSG101	tumor susceptibility gene 101
1,095052471	0,35966	1,199139914	0,00062	TSHB	thyroid stimulating hormone, beta
1,182631	0,0661	1,180174343	0,01238	TSHR	thyroid stimulating hormone receptor
0,71548826	0,11299	0,707106781	0,00037	TSHZ1	teashirt zinc finger homeobox 1
0,747942879	0,06622	0,70759708	0,00609	TSHZ2	teashirt zinc finger homeobox 2
1,062159186	0,70133	0,834509281	0,00498	TSLP	thymic stromal lymphopoietin
0,7031966	0,15757	0,717972255	0,00005	TSN	translin
0,917004043	0,55863	0,872967591	0,00559	TSN	translin
1,084477409	0,3888	1,193335743	0,00804	TSNAXIP1	translin-associated factor X interacting protein 1
1,151887642	0,22253	1,179356592	0,03764	TSPAN12	tetraspanin 12
1,061423209	0,56429	1,284315809	0,00212	TSPAN12	tetraspanin 12
1,182631	0,19879	1,327765158	0,00045	TSPAN15	tetraspanin 15
1,407368375	0,08127	1,455989549	0,00044	TSPAN18	tetraspanin 18
1,248330549	0,09181	1,293248932	0,00032	TSPAN33	tetraspanin 33
1,284315809	0,12803	1,481439798	0,00001	TSPAN4	tetraspanin 4
1,127400412	0,67571	1,416175438	0,00123	TSPAN4	tetraspanin 4
1,028113827	0,87775	0,757333158	0,02774	TSPAN6	tetraspanin 6
1,10343374	0,39081	1,156688184	0,02986	TSPEAR	thrombospondin-type laminin G domain and EAR repeats
1,150291893	0,2142	1,218410264	0,00279	TSPO2	translocator protein 2
0,925304428	0,69526	0,865136691	0,01632	TSPYL1	TSPY-like 1
0,922742493	0,57474	0,84264683	0,01022	TSPYL1	TSPY-like 1
1,070288698	0,57728	1,307671349	0,00046	TSPYL2	TSPY-like 2
1,068065408	0,69524	0,807201075	0,00106	TSPYL4	TSPY-like 4
0,922742493	0,35853	1,095052471	0,04541	TSSK1B	testis-specific serine kinase 1B
1,144724161	0,19807	1,123499903	0,04359	TSSK6	testis-specific serine kinase 6
1,194991205	0,06818	1,207480591	0,04986	TTBK1	tau tubulin kinase 1
1,159899655	0,20489	1,185092771	0,00845	TTBK1	tau tubulin kinase 1
0,871154192	0,45415	1,129747215	0,04557	TTBK2	tau tubulin kinase 2
1,147902414	0,51874	0,815072332	0,02666	TTBK2	tau tubulin kinase 2
1,047536127	0,63824	1,145517898	0,04827	TTC16	tetratricopeptide repeat domain 16
1,033830736	0,86204	1,191682575	0,00344	TTC17	tetratricopeptide repeat domain 17
0,841479482	0,30297	1,283425898	0,02321	TTC17	tetratricopeptide repeat domain 17
0,976708529	0,76597	1,082975046	0,03413	TTC23	tetratricopeptide repeat domain 23
0,893165852	0,17824	1,147902414	0,00275	TTC23	tetratricopeptide repeat domain 23
1,126619228	0,08586	0,844986384	0,0074	TTC25	tetratricopeptide repeat domain 25
1,009751298	0,94388	0,890692901	0,02578	TTC26	tetratricopeptide repeat domain 26
1,252664439	0,20861	0,87539133	0,02537	TTC26	tetratricopeptide repeat domain 26
0,771105413	0,12865	0,770571108	0,00008	TTC27	tetratricopeptide repeat domain 27
0,715984371	0,20722	0,694477568	0,01437	TTC3	tetratricopeptide repeat domain 3
0,838568184	0,2472	1,163120042	0,00485	TTC3	tetratricopeptide repeat domain 3
0,822450069	0,65299	0,883315051	0,03391	TTC3	tetratricopeptide repeat domain 3
0,938221197	0,85826	0,87175824	0,0124	TTC3	tetratricopeptide repeat domain 3
0,545253866	0,19176	0,822450069	0,00219	TTC3	tetratricopeptide repeat domain 3
1,048262476	0,80499	0,749499801	0,00369	TTC30B	tetratricopeptide repeat domain 30B
1,064370182	0,52162	0,792784137	0,00045	TTC32	tetratricopeptide repeat domain 32
0,713012859	0,20541	0,788946841	0,00075	TTC37	tetratricopeptide repeat domain 37
0,685391402	0,11765	0,774319028	0,00934	TTC37	tetratricopeptide repeat domain 37
0,962594443	0,77844	1,190031696	0,01783	TTC38	tetratricopeptide repeat domain 38
1,125838586	0,41356	1,25353302	0,01132	TTC38	tetratricopeptide repeat domain 38
0,646176415	0,13627	0,630251696	0,00027	TTC39B	tetratricopeptide repeat domain 39B
0,752101876	0,09424	0,76418826	0,01005	TTC39B	tetratricopeptide repeat domain 39B
0,915733686	0,65514	0,697371833	0,00062	TTC39B	tetratricopeptide repeat domain 39B
0,86154616	0,32735	0,871154192	0,035	TTC39C	tetratricopeptide repeat domain 39C
0,697855382	0,18594	0,800514811	0,00836	TTC39C	tetratricopeptide repeat domain 39C
0,90312651	0,32982	0,886996305	0,02123	TTC4	tetratricopeptide repeat domain 4
1,396678532	0,08279	1,155085785	0,0048	TTC5	tetratricopeptide repeat domain 5
0,706127202	0,08649	0,806082831	0,01677	TTC8	tetratricopeptide repeat domain 8
0,901875378	0,66092	0,668500248	0,00008	TTC9	tetratricopeptide repeat domain 9
0,882702996	0,30076	0,760489377	0,00502	TTC9	tetratricopeptide repeat domain 9
0,793333843	0,06295	0,755759964	0,0097	TTC9C	tetratricopeptide repeat domain 9C
1,151089491	0,07795	1,194991205	0,00424	TTC9C	tetratricopeptide repeat domain 9C
0,921464186	0,70693	0,812252396	0,01326	TTF1	transcription termination factor, RNA polymerase I
0,870550563	0,59208	0,823591017	0,024	TTK	TTK protein kinase
0,786217292	0,16885	0,77271055	0,00027	TTL	tubulin tyrosine ligase
1,053361036	0,63883	1,116512962	0,01926	TTLL1	tubulin tyrosine ligase-like family, member 1
1,193335743	0,09123	1,168777249	0,01568	TTLL10	tubulin tyrosine ligase-like family, member 10
1,063632673	0,52191	0,903752727	0,03958	TTLL11	tubulin tyrosine ligase-like family, member 11
1,086734863	0,50007	1,23370717	0,00075	TTLL11	tubulin tyrosine ligase-like family, member 11
0,813943185	0,2728	1,193335743	0,01723	TTLL3	tubulin tyrosine ligase-like family, member 3

0,960594864	0,6299	0,883927531	0,01566	TTLL5	tubulin tyrosine ligase-like family, member 5
0,992404375	0,94144	0,887611337	0,03586	TTLL5	tubulin tyrosine ligase-like family, member 5
0,735603373	0,07059	0,891928519	0,00944	TTLL5	tubulin tyrosine ligase-like family, member 5
0,954621014	0,86354	0,76630998	0,01562	TTLL5	tubulin tyrosine ligase-like family, member 5
1,041021598	0,69085	1,199139914	0,0025	TTLL6	tubulin tyrosine ligase-like family, member 6
1,163926534	0,10224	1,143930973	0,01381	TTLL9	tubulin tyrosine ligase-like family, member 9
1,190856849	0,17087	1,117287138	0,0047	TTN	titin
0,815637493	0,10355	0,79940583	0,00215	TTPAL	tocopherol (alpha) transfer protein-like
1,042465761	0,58409	1,148698355	0,00496	TTTY13	testis-specific transcript, Y-linked 13 (non-protein coding)
1,171210181	0,1323	1,244874235	0,00155	TTTY5	testis-specific transcript, Y-linked 5 (non-protein coding)
1,277213759	0,06044	1,158292806	0,03326	TTYH2	tweety homolog 2 (Drosophila)
1,266634254	0,09281	1,238848698	0,00158	TTYH3	tweety homolog 3 (Drosophila)
1,128182137	0,16175	1,144724161	0,01125	TUB	tubby homolog (mouse)
1,225185332	0,06795	1,159899655	0,03901	TUB	tubby homolog (mouse)
0,733058379	0,05159	0,753667455	0,00058	TUBA1A	tubulin, alpha 1a
0,725476104	0,08918	0,897510051	0,04039	TUBA1C	tubulin, alpha 1c
1,052631155	0,50197	1,158292806	0,00073	TUBB1	tubulin, beta 1
1,402499251	0,05197	1,234562607	0,0018	TUBB1	tubulin, beta 1
0,573553512	0,05657	0,792234811	0,01534	TUBB2C	tubulin, beta 2C
0,659296807	0,05083	0,793883931	0,00944	TUBB2C	tubulin, beta 2C
0,514770042	0,05382	0,765248385	0,01167	TUBB3	tubulin, beta 3
0,839731493	0,2574	0,800514811	0,01286	TUBB6	tubulin, beta 6
0,994470169	0,98224	0,767905135	0,02342	TUBE1	tubulin, epsilon 1
1,043188594	0,73484	1,132883885	0,03745	TUBG2	tubulin, gamma 2
1,056285625	0,58169	0,87175824	0,0258	TUBGCP2	tubulin, gamma complex associated protein 2
0,799960128	0,21559	0,77916458	0,00144	TUBGCP3	tubulin, gamma complex associated protein 3
0,700763725	0,13763	0,833353207	0,00963	TUBGCP4	tubulin, gamma complex associated protein 4
0,925946023	0,56167	0,831045862	0,00505	TUBGCP5	tubulin, gamma complex associated protein 5
1,139183377	0,47319	1,278985581	0,0108	TUBGCP6	tubulin, gamma complex associated protein 6
0,933032992	0,50606	0,883315051	0,04258	TUFM	Tu translation elongation factor, mitochondrial
0,980779004	0,93323	0,758909626	0,00372	TUG1	taurine upregulated 1 (non-protein coding)
1,074749173	0,5927	1,101141598	0,02382	TUG1	taurine upregulated 1 (non-protein coding)
1,202469249	0,14307	1,200803427	0,00745	TULP2	tubby like protein 2
0,763129604	0,25769	0,839731493	0,00208	TULP4	tubby like protein 4
0,953959551	0,69074	0,813379198	0,00278	TULP4	tubby like protein 4
0,796640096	0,4868	0,504525817	0,00034	TULP4	tubby like protein 4
0,987600861	0,89737	0,843815796	0,00283	TUSC1	tumor suppressor candidate 1
1,344434994	0,0822	1,374588696	0,00205	TUSC3	tumor suppressor candidate 3
0,757333158	0,18162	0,68491649	0,00057	TWF1	twinfilin, actin-binding protein, homolog 1 (Drosophila)
0,467163673	0,15004	0,674551267	0,02683	TWF1	twinfilin, actin-binding protein, homolog 1 (Drosophila)
0,988970916	0,93316	0,837406488	0,00543	TWF1	twinfilin, actin-binding protein, homolog 1 (Drosophila)
0,988970916	0,90678	0,908778116	0,03665	TWISTNB	TWIST neighbor
0,97063447	0,86065	0,835087919	0,03314	TWSG1	twisted gastrulation homolog 1 (Drosophila)
0,774855931	0,26068	0,76101669	0,00034	TXLNG	taxilin gamma
1,085981856	0,54234	0,866937564	0,01983	TXLNG2P	taxilin gamma 2, pseudogene
1,082224645	0,38427	1,147902414	0,00201	TXNDC12	thioredoxin domain containing 12 (endoplasmic reticulum)
0,792234811	0,27268	0,792234811	0,01168	TXNDC16	thioredoxin domain containing 16
0,948026965	0,60642	1,257884972	0,00017	TXNDC2	thioredoxin domain containing 2 (spermatozoa)
0,806641759	0,22786	0,719965659	0,00047	TXNDC9	thioredoxin domain containing 9
0,773782497	0,16904	0,738669032	0,00005	TXNDC9	thioredoxin domain containing 9
1,210833084	0,73532	1,374588696	0,00556	TXNIP	thioredoxin interacting protein
1,56049096	0,25749	1,443929196	0,00048	TXNIP	thioredoxin interacting protein
1,20664392	0,36173	1,473247686	0,0003	TXNIP	thioredoxin interacting protein
0,963929808	0,75837	0,866336856	0,00112	TXNL1	thioredoxin-like 1
1,106497353	0,66706	0,736623843	0,00387	TXNL1	thioredoxin-like 1
0,929160674	0,4953	0,801069878	0,00033	TXNL4A	thioredoxin-like 4A
0,713012859	0,06858	0,875998315	0,00201	TXNL4A	thioredoxin-like 4A
1,186736798	0,09651	1,181811547	0,01482	TXNL4B	thioredoxin-like 4B
1,138394029	0,42023	1,28877463	0,0019	TYK2	tyrosine kinase 2
0,837406488	0,15413	0,759435845	0,00027	TYMS	thymidylate synthetase
1,215879283	0,15861	1,466116757	0,00093	TYROBP	TYRO protein tyrosine kinase binding protein
0,934975198	0,5061	0,819604608	0,00195	TYW5	tRNA-yW synthesizing protein 5
0,954621014	0,65738	0,847919965	0,00326	TYW5	tRNA-yW synthesizing protein 5
0,708087719	0,08762	0,810003474	0,02884	U2AF1	U2 small nuclear RNA auxiliary factor 1
1,059952783	0,66715	1,210833084	0,00279	U2AF1L4	U2 small nuclear RNA auxiliary factor 1-like 4
0,798851916	0,20332	0,802181166	0,0187	U2SURP	U2 snRNP-associated SURP domain containing
0,951977908	0,83639	0,70027816	0,00661	U2SURP	U2 snRNP-associated SURP domain containing
0,725476104	0,09337	0,855002178	0,01502	UACA	uveal autoantigen with coiled-coil domains and ankyrin repeats
1,074004472	0,70598	0,831622098	0,03628	UACA	uveal autoantigen with coiled-coil domains and ankyrin repeats
0,832775771	0,26192	0,723969086	0,00102	UBA2	ubiquitin-like modifier activating enzyme 2
0,902500727	0,59305	0,844986384	0,00769	UBA3	ubiquitin-like modifier activating enzyme 3
0,8962667	0,41708	0,885153765	0,01916	UBA5	ubiquitin-like modifier activating enzyme 5
1,197478705	0,14546	0,882091365	0,04642	UBA6	ubiquitin-like modifier activating enzyme 6
1,161508732	0,0985	1,165541198	0,02274	UBA6	ubiquitin-like modifier activating enzyme 6
0,966606097	0,92248	0,847332435	0,03902	UBA6	ubiquitin-like modifier activating enzyme 6
0,886381699	0,44019	0,841479482	0,01323	UBA6	ubiquitin-like modifier activating enzyme 6
0,787853886	0,29972	0,792234811	0,01029	UBA6	ubiquitin-like modifier activating enzyme 6
1,257884972	0,16983	1,309485423	0,00023	UBA7	ubiquitin-like modifier activating enzyme 7
0,977385766	0,93611	1,195819797	0,03357	UBA7	ubiquitin-like modifier activating enzyme 7
0,877821798	0,23211	0,867538687	0,02269	UBAP1	ubiquitin associated protein 1
1,108800644	0,26677	1,112650121	0,03879	UBAP1L	ubiquitin associated protein 1-like
0,865736566	0,34838	0,854409741	0,01298	UBAP2L	ubiquitin associated protein 2-like
0,857376037	0,32033	0,841479482	0,00042	UBE2A	ubiquitin-conjugating enzyme E2A
0,807201075	0,2916	0,805524291	0,00081	UBE2B	ubiquitin-conjugating enzyme E2B
0,846158597	0,13069	0,863938187	0,02275	UBE2B	ubiquitin-conjugating enzyme E2B
0,85027416	0,41435	0,78024548	0,00702	UBE2B	ubiquitin-conjugating enzyme E2B
1,056285625	0,46286	1,107264584	0,00423	UBE2B	ubiquitin-conjugating enzyme E2B
0,832198735	0,52368	0,657927263	0,0029	UBE2B	ubiquitin-conjugating enzyme E2B
0,884540435	0,31977	0,868140228	0,00423	UBE2D2	ubiquitin-conjugating enzyme E2D 2
0,925304428	0,75393	0,758909626	0,00103	UBE2D2	ubiquitin-conjugating enzyme E2D 2
0,77916458	0,13395	0,833353207	0,01251	UBE2D3	ubiquitin-conjugating enzyme E2D 3
1,128964405	0,24575	1,171210181	0,01175	UBE2D4	ubiquitin-conjugating enzyme E2D 4 (putative)
1,091263877	0,31226	1,142346247	0,02701	UBE2D4	ubiquitin-conjugating enzyme E2D 4 (putative)
0,937571096	0,65913	0,840313752	0,01661	UBE2E1	ubiquitin-conjugating enzyme E2E 1
0,792234811	0,17565	0,720464874	0,00012	UBE2E2	ubiquitin-conjugating enzyme E2E 2
0,851453708	0,19048	0,77916458	0,00681	UBE2G1	ubiquitin-conjugating enzyme E2G 1
0,837987135	0,11441	0,777546036	0,01184	UBE2G1	ubiquitin-conjugating enzyme E2G 1
0,69495911	0,06281	0,855595026	0,04096	UBE2G1	ubiquitin-conjugating enzyme E2G 1
0,959264119	0,71015	1,136029265	0,04344	UBE2G2	ubiquitin-conjugating enzyme E2G 2
0,931740429	0,76031	0,776468875	0,02935	UBE2H	ubiquitin-conjugating enzyme E2H
0,632439771	0,14904	1,108032348	0,01034	UBE2H	ubiquitin-conjugating enzyme E2H
0,835666959	0,24798	0,856188285	0,03953	UBE2I	ubiquitin-conjugating enzyme E2I
0,973329374	0,86276	0,81056512	0,0274	UBE2K	ubiquitin-conjugating enzyme E2K
0,670821112	0,15312	0,851453708	0,00951	UBE2L3	ubiquitin-conjugating enzyme E2L 3

1,153485605	0,28402	1,147107024	0,04894	UBE2L6	ubiquitin-conjugating enzyme E2L 6
0,851453708	0,17128	0,845572287	0,01028	UBE2N	ubiquitin-conjugating enzyme E2N
0,85797053	0,50864	0,751059963	0,01434	UBE2N	ubiquitin-conjugating enzyme E2N
1,183451022	0,07797	1,178539408	0,00181	UBE2O	ubiquitin-conjugating enzyme E2O
1,135242102	0,40324	1,199139914	0,04221	UBE2O	ubiquitin-conjugating enzyme E2O
0,870550563	0,22353	0,790041312	0,00098	UBE2Q1	ubiquitin-conjugating enzyme E2Q family member 1
0,891928519	0,61585	0,825305409	0,00143	UBE2Q2	ubiquitin-conjugating enzyme E2Q family member 2
1,031683179	0,76898	1,142346247	0,00958	UBE2Z	ubiquitin-conjugating enzyme E2Z
0,893785162	0,45595	0,729004689	0,00073	UBE2Z	ubiquitin-conjugating enzyme E2Z
1,086734863	0,80857	0,829894586	0,00099	UBE3A	ubiquitin protein ligase E3A
0,934327347	0,61667	0,802737389	0,00302	UBE3A	ubiquitin protein ligase E3A
0,757858283	0,19444	0,758383773	0,00045	UBE3A	ubiquitin protein ligase E3A
0,934975198	0,73994	0,835087919	0,03559	UBE3A	ubiquitin protein ligase E3A
0,829319546	0,26111	0,826450318	0,00069	UBE3B	ubiquitin protein ligase E3B
1,00765376	0,97149	0,762072415	0,00128	UBE3B	ubiquitin protein ligase E3B
0,864537231	0,22439	0,777007269	0,00098	UBE3B	ubiquitin protein ligase E3B
0,984866443	0,84978	0,908778116	0,04059	UBE3C	ubiquitin protein ligase E3C
0,921464186	0,32643	0,848507902	0,00966	UBE3C	ubiquitin protein ligase E3C
1,125838586	0,26944	1,159095952	0,01434	UBIAD1	UbiA prenyltransferase domain containing 1
0,85086373	0,33988	0,828744904	0,03818	UBL3	ubiquitin-like 3
0,817335328	0,31413	0,79774524	0,01181	UBL3	ubiquitin-like 3
0,965936329	0,70594	1,172834949	0,0056	UBL4B	ubiquitin-like 4B
0,949342121	0,79803	1,175276328	0,00728	UBL7	ubiquitin-like 7 (bone marrow stromal cell-derived)
0,744322628	0,08216	0,733566672	0,00003	UBN1	ubinuclein 1
0,919550046	0,63894	0,860352631	0,0126	UBN2	ubinuclein 2
0,724471077	0,16057	0,680657058	0	UBN2	ubinuclein 2
1,051172909	0,49992	1,155886707	0,00924	UBOX5	U-box domain containing 5
0,854409741	0,48647	0,819604608	0,00508	UBP1	upstream binding protein 1 (LBP-1a)
0,816768991	0,12073	0,785128119	0,00524	UBQLN1	ubiquilin 1
0,821310701	0,32153	0,87417862	0,01266	UBQLN1	ubiquilin 1
0,946057647	0,74658	0,825305409	0,00041	UBQLN1	ubiquilin 1
1,018891197	0,91268	0,853817714	0,00431	UBQLN2	ubiquilin 2
1,172022284	0,0919	1,114193651	0,02124	UBQLN3	ubiquilin 3
1,000693387	0,99848	0,854409741	0,02169	UBR1	ubiquitin protein ligase E3 component n-recognin 1
0,966606097	0,75992	1,22603486	0,01421	UBR1	ubiquitin protein ligase E3 component n-recognin 1
0,898132373	0,50539	0,868140228	0,02741	UBR2	ubiquitin protein ligase E3 component n-recognin 2
0,738157203	0,26544	0,671286251	0,00002	UBR3	ubiquitin protein ligase E3 component n-recognin 3 (putative)
0,69399636	0,06996	0,676424116	0,00166	UBR3	ubiquitin protein ligase E3 component n-recognin 3 (putative)
0,96996191	0,75744	0,905633983	0,02214	UBR3	ubiquitin protein ligase E3 component n-recognin 3 (putative)
0,882091365	0,09754	0,862741345	0,01279	UBR4	ubiquitin protein ligase E3 component n-recognin 4
1,067325338	0,57415	1,178539408	0,03791	UBR4	ubiquitin protein ligase E3 component n-recognin 4
0,778624691	0,2513	0,862741345	0,04383	UBR5	ubiquitin protein ligase E3 component n-recognin 5
0,878430468	0,54937	0,765778999	0,01594	UBR5	ubiquitin protein ligase E3 component n-recognin 5
0,993781093	0,95412	0,846745312	0,0077	UBR7	ubiquitin protein ligase E3 component n-recognin 7 (putative)
0,891928519	0,58135	0,843815796	0,03067	UBTD2	ubiquitin domain containing 2
1,132883885	0,35894	1,30224419	0,02162	UBXN11	UBX domain protein 11
0,882702996	0,30698	0,834509281	0,01067	UBXN2A	UBX domain protein 2A
0,665264521	0,27165	0,76950361	0,00023	UBXN4	UBX domain protein 4
0,764718139	0,29489	0,757858283	0,04402	UBXN6	UBX domain protein 6
0,78132788	0,44114	0,752623374	0,00172	UBXN7	UBX domain protein 7
0,992404375	0,96738	0,84264683	0,0117	UBXN8	UBX domain protein 8
1,158292806	0,33465	1,151887642	0,02916	UCA1	urothelial cancer associated 1 (non-protein coding)
1,035982764	0,58662	1,251796459	0,00039	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
1,071773463	0,58005	1,275444392	0,0007	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
1,058484395	0,44198	1,178539408	0,00163	UCHL5	ubiquitin carboxyl-terminal hydrolase L5
0,912565489	0,52271	0,762600827	0,01664	UCHL5	ubiquitin carboxyl-terminal hydrolase L5
0,697371833	0,05335	0,735603373	0,00151	UCHL5	ubiquitin carboxyl-terminal hydrolase L5
1,04608494	0,64736	1,121166078	0,01088	UCP1	uncoupling protein 1 (mitochondrial, proton carrier)
1,143930973	0,30231	1,178539408	0,0279	UEVLD	UEV and lactate/malate dehyrogenase domains
0,71449707	0,11168	0,722465199	0,03317	UEVLD	UEV and lactate/malate dehyrogenase domains
0,789493887	0,45555	0,725476104	0,00077	UFL1	UFM1-specific ligase 1
0,972654947	0,92664	0,798851916	0,01276	UGCG	UDP-glucose ceramide glucosyltransferase
0,890075733	0,72752	0,727994774	0,02053	UGCG	UDP-glucose ceramide glucosyltransferase
0,972654947	0,90687	0,852634892	0,00838	UGDH	UDP-glucose 6-dehydrogenase
1,066585781	0,48829	1,175276328	0,01389	UGGT1	UDP-glucose glycoprotein glucosyltransferase 1
0,681601304	0,14832	0,808320869	0,00976	UGP2	UDP-glucose pyrophosphorylase 2
1,248330549	0,11934	1,223488041	0,02057	UGT8	UDP glycosyltransferase 8
0,950659101	0,88572	0,577943353	0,00006	UHMK1	U2AF homology motif (UHM) kinase 1
0,752101876	0,37034	0,564873607	0,00097	UHMK1	U2AF homology motif (UHM) kinase 1
0,995849753	0,98498	0,777007269	0,00279	UHRF1	ubiquitin-like with PHD and ring finger domains 1
1,003471749	0,98291	0,877821798	0,0096	UHRF1BP1	UHRF1 binding protein 1
0,719965659	0,13967	0,688725023	0,00109	UHRF1BP1L	UHRF1 binding protein 1-like
0,677832163	0,0529	0,723969086	0,00049	ULBP2	UL16 binding protein 2
0,898132373	0,44979	0,8962667	0,03819	ULBP3	UL16 binding protein 3
0,897510051	0,30859	0,881480158	0,04807	UMPS	uridine monophosphate synthetase
0,749499801	0,09377	0,817335328	0,00504	UNC5B	unc-5 homolog B (C. elegans)
0,866336856	0,43766	0,750539549	0,00004	UNC5B	unc-5 homolog B (C. elegans)
1,154285418	0,16852	1,144724161	0,00696	UNC5C	unc-5 homolog C (C. elegans)
1,146312186	0,09504	1,243149669	0,00096	UNC79	unc-79 homolog (C. elegans)
0,935623498	0,441	0,87175824	0,0013	UNC93A	unc-93 homolog A (C. elegans)
1,309485423	0,05619	1,20163605	0,04021	UNC93B1	unc-93 homolog B1 (C. elegans)
1,28877463	0,1896	1,370782805	0,00049	UNC93B1	unc-93 homolog B1 (C. elegans)
0,915733686	0,60098	0,754190038	0,01662	UNK	unkempt homolog (Drosophila)
0,868742185	0,43718	0,844400887	0,01736	UPF2	UPF2 regulator of nonsense transcripts homolog (yeast)
0,750019495	0,07627	0,810003474	0,02382	UPF3A	UPF3 regulator of nonsense transcripts homolog A (yeast)
0,748980467	0,13272	0,768437591	0,00004	UPF3A	UPF3 regulator of nonsense transcripts homolog A (yeast)
0,654742712	0,10505	0,812815602	0,00324	UPF3B	UPF3 regulator of nonsense transcripts homolog B (yeast)
1,026689546	0,79054	1,149494848	0,00822	UQCR11	ubiquinol-cytochrome c reductase, complex III subunit XI
0,682546859	0,05818	0,898755127	0,00667	UQCRB	ubiquinol-cytochrome c reductase binding protein
0,90000193	0,60644	0,811689581	0,04355	UQCRB	ubiquinol-cytochrome c reductase binding protein
0,765778999	0,31753	0,688247801	0,0062	UQCRC2	ubiquinol-cytochrome c reductase core protein II
1,082975046	0,63011	1,227735684	0,00067	URM1	ubiquitin related modifier 1
0,944747041	0,7293	1,160703914	0,03061	UROS	uroporphyrinogen III synthase
0,833931044	0,15977	0,839149637	0,02681	USE1	unconventional SNARE in the ER 1 homolog (S. cerevisiae)
1,161508732	0,24289	1,195819797	0,01442	USF2	upstream transcription factor 2, c-fos interacting
1,148698355	0,14203	1,216722359	0,00133	USH1C	Usher syndrome 1C (autosomal recessive, severe)
0,930449658	0,52166	0,886381699	0,00428	USMG5	up-regulated during skeletal muscle growth 5 homolog (mouse)
0,8962667	0,44434	0,842062954	0,02704	USO1	USO1 vesicle docking protein homolog (yeast)
0,678302164	0,21249	0,660669203	0,0003	USP1	ubiquitin specific peptidase 1
0,724973416	0,10407	0,706127202	0,00026	USP1	ubiquitin specific peptidase 1
0,858565436	0,35762	0,832198735	0,00006	USP10	ubiquitin specific peptidase 10
1,021720083	0,92344	1,191682575	0,01305	USP11	ubiquitin specific peptidase 11
1,151887642	0,40114	1,179356592	0,01932	USP13	ubiquitin specific peptidase 13 (isopeptidase T-3)
1,198309021	0,05867	1,215036792	0,00705	USP13	ubiquitin specific peptidase 13 (isopeptidase T-3)

0,790041312	0,34844	0,847332435	0,01281	USP14	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)
0,839731493	0,17352	0,819036698	0,00253	USP14	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)
0,740206649	0,0698	0,786762445	0	USP14	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)
0,691595315	0,08402	0,804966138	0,01151	USP15	ubiquitin specific peptidase 15
0,847919965	0,25451	0,813379198	0,03795	USP15	ubiquitin specific peptidase 15
0,782954296	0,15404	0,781869643	0,00002	USP16	ubiquitin specific peptidase 16
0,76950361	0,44902	0,788946841	0,00003	USP16	ubiquitin specific peptidase 16
0,811689581	0,22409	0,791685866	0,00001	USP16	ubiquitin specific peptidase 16
0,942784536	0,52152	0,890692901	0,04254	USP2	ubiquitin specific peptidase 2
1,077733145	0,27559	1,118061851	0,02439	USP24	ubiquitin specific peptidase 24
0,8962667	0,64871	0,758383773	0,02752	USP25	ubiquitin specific peptidase 25
0,704172113	0,07842	0,727994774	0,00087	USP25	ubiquitin specific peptidase 25
0,922742493	0,66323	0,780786493	0,02135	USP30	ubiquitin specific peptidase 30
0,827023368	0,19942	0,837987135	0,02851	USP31	ubiquitin specific peptidase 31
0,779704843	0,05246	0,747424624	0,00105	USP31	ubiquitin specific peptidase 31
0,73153561	0,36696	0,709070018	0,0006	USP31	ubiquitin specific peptidase 31
0,683493726	0,15546	0,755759964	0,0074	USP31	ubiquitin specific peptidase 31
0,784040454	0,06376	0,856781955	0,02195	USP32	ubiquitin specific peptidase 32
0,798851916	0,10879	0,883315051	0,02848	USP33	ubiquitin specific peptidase 33
0,945402117	0,79613	0,835666959	0,02338	USP33	ubiquitin specific peptidase 33
0,69640574	0,05064	0,813943185	0,00279	USP34	ubiquitin specific peptidase 34
0,747424624	0,05449	0,824733549	0,00839	USP34	ubiquitin specific peptidase 34
0,710053679	0,31245	0,76101669	0,00097	USP34	ubiquitin specific peptidase 34
0,872362706	0,30921	0,808881348	0,01358	USP36	ubiquitin specific peptidase 36
0,76684133	0,11181	0,813943185	0,04444	USP37	ubiquitin specific peptidase 37
0,724973416	0,2151	0,684441907	0,00061	USP38	ubiquitin specific peptidase 38
0,799960128	0,208	0,76101669	0,01777	USP38	ubiquitin specific peptidase 38
1,064370182	0,36777	1,163926534	0,012	USP4	ubiquitin specific peptidase 4 (proto-oncogene)
0,924663278	0,51544	1,157490217	0,03118	USP40	ubiquitin specific peptidase 40
0,833931044	0,26118	0,759435845	0,00724	USP42	ubiquitin specific peptidase 42
0,907519155	0,57521	0,672683604	0,00013	USP43	ubiquitin specific peptidase 43
0,853226098	0,46292	0,688247801	0,00926	USP46	ubiquitin specific peptidase 46
0,809442217	0,41692	0,729510172	0,02647	USP46	ubiquitin specific peptidase 46
1,123499903	0,27264	1,127400412	0,04673	USP46	ubiquitin specific peptidase 46
0,927873476	0,50642	0,784584098	0,0004	USP46	ubiquitin specific peptidase 46
0,715984371	0,12882	0,784040454	0,00012	USP47	ubiquitin specific peptidase 47
0,907519155	0,60926	0,839149637	0,00506	USP47	ubiquitin specific peptidase 47
0,630251696	0,13304	0,735603373	0,00218	USP47	ubiquitin specific peptidase 47
1,181811547	0,22811	1,153485605	0,02259	USP48	ubiquitin specific peptidase 48
0,648869383	0,17418	0,575943821	0,00011	USP53	ubiquitin specific peptidase 53
0,681129017	0,13094	0,619424349	0,00026	USP53	ubiquitin specific peptidase 53
1,059952783	0,49805	1,423063461	0,00023	USP6	ubiquitin specific peptidase 6 (Tre-2 oncogene)
0,901250463	0,57111	0,754190038	0,02143	USP6NL	USP6 N-terminal like
0,748980467	0,09495	0,76101669	0,0004	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)
1,083725967	0,50903	0,794985251	0,03426	USP7	ubiquitin specific peptidase 7 (herpes virus-associated)
0,846745312	0,35903	0,872362706	0,00812	USP8	ubiquitin specific peptidase 8
0,764718139	0,22805	0,823020345	0,01528	USP9X	ubiquitin specific peptidase 9, X-linked
0,989656656	0,95512	0,853226098	0,02174	USP9X	ubiquitin specific peptidase 9, X-linked
1,118837101	0,61733	0,690158677	0,04515	USP9Y	ubiquitin specific peptidase 9, Y-linked
0,946713631	0,73869	0,788946841	0,02053	USP9Y	ubiquitin specific peptidase 9, Y-linked
0,978063473	0,79649	0,862143545	0,00653	USPL1	ubiquitin specific peptidase like 1
0,894404902	0,60566	0,821880187	0,02754	UST	uronyl-2-sulfotransferase
0,992404375	0,90599	1,094293701	0,0396	UTP11L	UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)
0,765248385	0,09382	0,685391402	0,00004	UTP15	UTP15, U3 small nucleolar ribonucleoprotein, homolog (S. cerevisiae)
0,820741609	0,26528	0,821310701	0,00099	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)
0,815072332	0,22155	0,729004689	0,00136	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)
0,783497187	0,12956	0,813379198	0,04864	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast)
0,727994774	0,05586	0,771105413	0,00001	UTP3	UTP3, small subunit (SSU) processome component, homolog (S. cerevisiae)
0,753145233	0,05959	0,910669834	0,01529	UTP6	UTP6, small subunit (SSU) processome component, homolog (yeast)
0,841479482	0,28822	0,869947353	0,0315	UTRN	utrophin
1,034547582	0,74867	1,151887642	0,01	UTS2R	urotensin 2 receptor
0,827023368	0,13333	0,788946841	0,00185	UTY	ubiquitously transcribed tetratricopeptide repeat gene, Y-linked
0,957271458	0,76428	0,875998315	0,0226	UXS1	UDP-glucuronate decarboxylase 1
1,187559666	0,07614	1,119612889	0,01939	VAMP1	vesicle-associated membrane protein 1 (synaptobrevin 1)
0,892546971	0,50225	0,880869374	0,04142	VAMP4	vesicle-associated membrane protein 4
1,123499903	0,60234	1,236275261	0,00106	VAMP5	vesicle-associated membrane protein 5 (myobrevin)
0,829319546	0,17776	0,829894586	0,01692	VANGL1	vang-like 1 (van gogh, Drosophila)
0,785128119	0,24373	0,783497187	0,00017	VANGL1	vang-like 1 (van gogh, Drosophila)
0,954621014	0,8411	0,751580739	0,00075	VANGL1	vang-like 1 (van gogh, Drosophila)
0,793883931	0,10835	0,747424624	0,00368	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
0,845572287	0,3881	0,837406488	0,0169	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa
0,781869643	0,1473	0,875998315	0,01453	VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C
0,802737389	0,23881	0,825305409	0,00071	VAPB	VAMP (vesicle-associated membrane protein)-associated protein B and C
1,258757174	0,07484	1,224336392	0,0159	VASH1	vasohibin 1
1,17609125	0,19467	1,115739322	0,03555	VASH1	vasohibin 1
1,101141598	0,30782	1,109569472	0,03275	VASH2	vasohibin 2
1,301341855	0,05051	1,16634937	0,03149	VAT1L	vesicle amine transport protein 1 homolog (T. californica)-like
1,263127262	0,0656	1,194163187	0,01169	VAV2	vav 2 guanine nucleotide exchange factor
1,426025717	0,12832	1,418140036	0,0091	VCAM1	vascular cell adhesion molecule 1
1,715941061	0,05298	1,860899315	0,0033	VCAN	versican
1,256142381	0,18025	1,823866331	0,00339	VCAN	versican
1,320422841	0,53988	1,917198877	0,01709	VCAN	versican
1,732673713	0,30693	1,991699506	0,0102	VCAN	versican
1,235418637	0,17871	1,777685362	0,0051	VCAN	versican
0,804408371	0,09413	0,883927531	0,03691	VCL	vinculin
1,02313747	0,7844	1,141554707	0,00887	VCPIP1	valosin containing protein (p97)/p47 complex interacting protein 1
1,20664392	0,33468	0,855595026	0,02893	VCPIP1	valosin containing protein (p97)/p47 complex interacting protein 1
1,087488391	0,47563	1,131314463	0,00665	VCX2	variable charge, X-linked 2
0,739693755	0,17417	0,806082831	0,00037	VDAC1	voltage-dependent anion channel 1
0,797192477	0,58029	0,792234811	0,04677	VDAC1	voltage-dependent anion channel 1
0,857376037	0,30562	0,857376037	0,00396	VDAC3	voltage-dependent anion channel 3
0,579146403	0,11688	0,823020345	0,00872	VDAC3	voltage-dependent anion channel 3
0,991716731	0,96272	1,331451613	0,00023	VEGFA	vascular endothelial growth factor A
1,125058485	0,20213	1,133669413	0,02027	VENTX	VENT homeobox
0,783497187	0,12619	0,869947353	0,00928	VEZF1	vascular endothelial zinc finger 1
0,797192477	0,43798	0,741233505	0,0053	VEZT	vezatin, adherens junctions transmembrane protein
0,840313752	0,41873	0,78024548	0,00015	VEZT	vezatin, adherens junctions transmembrane protein
0,729510172	0,13216	0,7944344	0,00042	VEZT	vezatin, adherens junctions transmembrane protein
0,996540263	0,97612	1,159095952	0,02772	VGLL1	vestigial like 1 (Drosophila)
0,945402117	0,58493	1,178539408	0,00213	VIL1	villin 1
1,163926534	0,18201	1,243149669	0,00117	VILL	villin-like
1,07997656	0,86172	1,300440147	0,03196	VIM	vimentin
1,167967395	0,34293	1,337927555	0,00021	VKORC1	vitamin K epoxide reductase complex, subunit 1
1,256142381	0,11333	1,391846392	0,00033	VMO1	vitelline membrane outer layer 1 homolog (chicken)

0,917639882	0,70605	0,814507563	0,04496	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)
0,986232704	0,88009	0,816768991	0,0006	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)
0,771640088	0,25082	0,849684999	0,00304	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)
0,936921447	0,37942	0,825305409	0,00768	VPS13A	vacuolar protein sorting 13 homolog A (S. cerevisiae)
0,791685866	0,2499	0,730522189	0,00047	VPS13B	vacuolar protein sorting 13 homolog B (yeast)
0,763658749	0,19679	0,701735863	0,00023	VPS13B	vacuolar protein sorting 13 homolog B (yeast)
0,728499557	0,09047	0,740719899	0,01368	VPS13D	vacuolar protein sorting 13 homolog D (S. cerevisiae)
1,155886707	0,25814	1,151089491	0,02416	VPS18	vacuolar protein sorting 18 homolog (S. cerevisiae)
1,340712592	0,05682	1,375541818	0,00061	VPS18	vacuolar protein sorting 18 homolog (S. cerevisiae)
0,976708529	0,84006	0,898755127	0,03379	VPS26A	vacuolar protein sorting 26 homolog A (S. pombe)
1,048989328	0,6417	0,857376037	0,00807	VPS33A	vacuolar protein sorting 33 homolog A (S. cerevisiae)
0,959929261	0,77925	0,884540435	0,01182	VPS33B	vacuolar protein sorting 33 homolog B (yeast)
0,706127202	0,08817	0,768970416	0,00253	VPS35	vacuolar protein sorting 35 homolog (S. cerevisiae)
0,807201075	0,2895	0,888226796	0,03809	VPS36	vacuolar protein sorting 36 homolog (S. cerevisiae)
0,819604608	0,16773	0,779704843	0,01991	VPS37A	vacuolar protein sorting 37 homolog A (S. cerevisiae)
0,775930854	0,2577	0,667111585	0,00063	VPS37A	vacuolar protein sorting 37 homolog A (S. cerevisiae)
0,940826108	0,79121	1,234562607	0,00236	VPS39	vacuolar protein sorting 39 homolog (S. cerevisiae)
0,681129017	0,1	0,605416542	0,00004	VPS41	vacuolar protein sorting 41 homolog (S. cerevisiae)
1,041743429	0,57886	1,191682575	0,01579	VPS45	vacuolar protein sorting 45 homolog (S. cerevisiae)
0,827596816	0,22466	0,751059963	0,00039	VPS53	vacuolar protein sorting 53 homolog (S. cerevisiae)
0,734075318	0,08699	0,727490342	0,00023	VPS54	vacuolar protein sorting 54 homolog (S. cerevisiae)
0,849096246	0,49754	0,771105413	0,00158	VPS54	vacuolar protein sorting 54 homolog (S. cerevisiae)
0,52850902	0,08164	0,612592666	0,00021	VPS8	vacuolar protein sorting 8 homolog (S. cerevisiae)
0,87539133	0,12551	0,816203046	0,02075	VPS8	vacuolar protein sorting 8 homolog (S. cerevisiae)
0,855002178	0,39541	0,792784137	0,0002	VRK1	vaccinia related kinase 1
0,744322628	0,08064	0,764718139	0,00137	VRK2	vaccinia related kinase 2
0,888226796	0,47689	0,752623374	0,00825	VRK2	vaccinia related kinase 2
1,120389214	0,39332	1,294145654	0,00047	VRK3	vaccinia related kinase 3
1,026689546	0,73253	1,108800644	0,02343	VSIG1	V-set and immunoglobulin domain containing 1
0,993092495	0,9488	0,832198735	0,03563	VSIG10	V-set and immunoglobulin domain containing 10
0,853226098	0,3418	0,753145233	0,01546	VSIG10	V-set and immunoglobulin domain containing 10
0,744838732	0,05623	0,798298386	0,02823	VSIG10L	V-set and immunoglobulin domain containing 10 like
1,21167266	0,28322	1,229438867	0,00687	VSIG4	V-set and immunoglobulin domain containing 4
1,02313747	0,80239	1,095811766	0,03276	VSTM4	V-set and transmembrane domain containing 4
1,051172909	0,63022	1,106497353	0,03439	VSTM4	V-set and transmembrane domain containing 4
0,735093668	0,11455	0,69399636	0,01535	VTA1	Vps20-associated 1 homolog (S. cerevisiae)
0,671751713	0,07291	0,696888619	0,00002	VTA1	Vps20-associated 1 homolog (S. cerevisiae)
0,924022572	0,58975	0,835087919	0,03076	VTI1A	vesicle transport through interaction with t-SNAREs homolog 1A (yeast)
0,834509281	0,22786	0,775930854	0,00232	VTI1B	vesicle transport through interaction with t-SNAREs homolog 1B (yeast)
0,865736566	0,39586	0,755236293	0,01259	VTI1B	vesicle transport through interaction with t-SNAREs homolog 1B (yeast)
1,299539062	0,18265	1,378405153	0,01348	VWA1	von Willebrand factor A domain containing 1
1,232852325	0,06202	1,244011653	0,003	VWA1	von Willebrand factor A domain containing 1
0,999307093	0,99068	1,245737416	0,00087	VWA3A	von Willebrand factor A domain containing 3A
0,920187651	0,43981	1,129747215	0,01981	VWCE	von Willebrand factor C and EGF domains
1,638073396	0,06829	1,868654694	0	VWF	von Willebrand factor
0,754712984	0,16617	0,858565436	0,02824	WAC	WW domain containing adaptor with coiled-coil
1,000693387	0,9981	0,736113431	0,00076	WAC	WW domain containing adaptor with coiled-coil
0,797192477	0,25879	0,805524291	0,00014	WAPAL	wings apart-like homolog (Drosophila)
1,512567997	0,09459	1,202469249	0,02231	WARS	tryptophanyl-tRNA synthetase
1,615521555	0,0796	1,270150983	0,00166	WARS	tryptophanyl-tRNA synthetase
0,783497187	0,10962	0,825305409	0,02232	WARS2	tryptophanyl tRNA synthetase 2, mitochondrial
0,819604608	0,46693	0,755759964	0,00016	WASF2	WAS protein family, member 2
0,923382311	0,68353	0,805524291	0,0154	WASF3	WAS protein family, member 3
0,585199321	0,06477	0,50278029	0,00001	WASL	Wiskott-Aldrich syndrome-like
1,043911927	0,68665	0,873572896	0,01776	WBP11	WW domain binding protein 11
0,742261785	0,13666	0,62676651	0,00001	WBP4	WW domain binding protein 4 (formin binding protein 21)
0,867538687	0,4992	0,784040454	0,00252	WBP4	WW domain binding protein 4 (formin binding protein 21)
0,727490342	0,1144	0,774319028	0,01719	WBP5	WW domain binding protein 5
1,187559666	0,21238	1,246601194	0,0021	WBSCR16	Williams-Beuren syndrome chromosome region 16
1,011853201	0,92549	0,832775771	0,00689	WBSCR16	Williams-Beuren syndrome chromosome region 16
1,01395948	0,86663	1,099616149	0,04103	WBSCR27	Williams Beuren syndrome chromosome region 27
0,927873476	0,69838	0,815637493	0,01186	WDFY3	WD repeat and FYVE domain containing 3
1,044635763	0,83473	0,872967591	0,01782	WDHD1	WD repeat and HMG-box DNA binding protein 1
0,993781093	0,96575	0,844400887	0,00373	WDHD1	WD repeat and HMG-box DNA binding protein 1
0,749499801	0,25607	0,812815602	0,01627	WDR11	WD repeat domain 11
1,056285625	0,87134	0,780786493	0,01906	WDR11	WD repeat domain 11
0,848507902	0,28058	0,910669834	0,04703	WDR12	WD repeat domain 12
1,035982764	0,86154	0,832198735	0,02736	WDR20	WD repeat domain 20
0,855595026	0,28454	0,748461493	0,0029	WDR20	WD repeat domain 20
0,695923196	0,10724	0,77271055	0,00076	WDR20	WD repeat domain 20
1,067325338	0,52968	1,124278924	0,01719	WDR25	WD repeat domain 25
0,729004689	0,11224	0,79940583	0,02892	WDR26	WD repeat domain 26
1,255271991	0,07203	1,151887642	0,00722	WDR27	WD repeat domain 27
1,209994089	0,11899	1,139973273	0,02016	WDR27	WD repeat domain 27
1,009751298	0,90464	1,181811547	0,00984	WDR27	WD repeat domain 27
0,782954296	0,2273	0,767905135	0,00001	WDR3	WD repeat domain 3
0,748980467	0,27828	0,767905135	0,01343	WDR33	WD repeat domain 33
0,883315051	0,27432	0,838568184	0,00514	WDR35	WD repeat domain 35
0,802181166	0,2175	0,758909626	0,00491	WDR36	WD repeat domain 36
0,862143545	0,25716	0,829894586	0,00051	WDR37	WD repeat domain 37
1,036701101	0,86624	0,824162085	0,00631	WDR4	WD repeat domain 4
0,713507253	0,18713	0,749499801	0,00012	WDR43	WD repeat domain 43
0,852044095	0,51373	0,744838732	0,00331	WDR44	WD repeat domain 44
1,200803427	0,12641	1,171210181	0,0065	WDR45	WD repeat domain 45
1,090507733	0,64399	1,209155676	0,00169	WDR45	WD repeat domain 45
0,565657231	0,06859	0,602068691	0,00073	WDR47	WD repeat domain 47
1,180174343	0,13332	1,162314108	0,01432	WDR54	WD repeat domain 54
1,064370182	0,46857	1,136816973	0,02744	WDR55	WD repeat domain 55
0,805524291	0,09251	0,899378312	0,01426	WDR59	WD repeat domain 59
0,698339266	0,06092	0,790041312	0,03735	WDR59	WD repeat domain 59
1,122721422	0,38033	1,185914499	0,02213	WDR5B	WD repeat domain 5B
1,097331938	0,65245	1,237132479	0,02931	WDR6	WD repeat domain 6
0,987600861	0,90732	0,888842681	0,04829	WDR60	WD repeat domain 60
0,865136691	0,4132	0,820741609	0,00087	WDR60	WD repeat domain 60
0,84323111	0,17395	0,841479482	0,0022	WDR61	WD repeat domain 61
0,703684188	0,06312	0,654742712	0,00004	WDR61	WD repeat domain 61
1,071773463	0,31486	1,111879158	0,03923	WDR66	WD repeat domain 66
0,76630998	0,16598	0,617709319	0,00174	WDR66	WD repeat domain 66
1,039579435	0,55549	1,105730653	0,03896	WDR7	WD repeat domain 7
0,796088099	0,09087	0,860949188	0,01962	WDR70	WD repeat domain 70
1,100378609	0,41203	1,119612889	0,02318	WDR72	WD repeat domain 72
0,815072332	0,07459	0,894404902	0,02268	WDR73	WD repeat domain 73
1,230291345	0,07862	1,231144413	0,00317	WDR85	WD repeat domain 85
0,939522749	0,5838	0,831045862	0,01621	WDR89	WD repeat domain 89

1,056285625	0,4489	1,212512819	0,01712	WDR89	WD repeat domain 89
0,800514811	0,29306	0,742261785	0,00068	WDSUB1	WD repeat, sterile alpha motif and U-box domain containing 1
1,00695555	0,93247	0,898132373	0,01405	WDYHV1	WDYHV motif containing 1
0,679243142	0,14179	0,598739352	0,00111	WEE1	WEE1 homolog (S. pombe)
1,301341855	0,12991	1,723092319	0,00005	WFDC1	WAP four-disulfide core domain 1
1,106497353	0,48911	1,180174343	0,0043	WFDC10B	WAP four-disulfide core domain 10B
1,168777249	0,13255	1,186736798	0,00104	WFDC2	WAP four-disulfide core domain 2
0,995159722	0,93853	1,119612889	0,03947	WFDC8	WAP four-disulfide core domain 8
0,995849753	0,96805	1,156688184	0,00337	WFIKKN1	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 1
0,873572896	0,07291	1,109569472	0,01997	WFIKKN2	WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2
0,791685866	0,17533	0,876605721	0,00348	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules
1,242288282	0,12548	1,235418637	0,00326	WHAMMP2	WAS protein homolog associated with actin, golgi membranes and microtubules pseudogene 2
0,862143545	0,69523	0,834509281	0,03269	WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1
0,96996191	0,70908	1,109569472	0,04871	WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1
0,915733686	0,28382	0,799960128	0,00094	WHSC2	Wolf-Hirschhorn syndrome candidate 2
0,868742185	0,29171	0,791137301	0,00185	WIBG	within bgcn homolog (Drosophila)
0,787307977	0,17199	0,868742185	0,03471	WIPF2	WAS/WASL interacting protein family, member 2
1,018891197	0,80651	1,188383105	0,00519	WIPF3	WAS/WASL interacting protein family, member 3
0,823020345	0,11709	0,855002178	0,00325	WIPI2	WD repeat domain, phosphoinositide interacting 2
1,278985581	0,05601	1,268391399	0,02521	WISP1	WNT1 inducible signaling pathway protein 1
1,098092814	0,37471	1,187559666	0,03318	WISP1	WNT1 inducible signaling pathway protein 1
1,062895674	0,52035	1,167158102	0,0054	WNK2	WNK lysine deficient protein kinase 2
1,093535457	0,3756	1,278985581	0,00123	WNK2	WNK lysine deficient protein kinase 2
1,106497353	0,47966	1,266634254	0,00044	WNK2	WNK lysine deficient protein kinase 2
1,033114388	0,73826	1,105730653	0,04291	WNK3	WNK lysine deficient protein kinase 3
1,136816973	0,36199	1,230291345	0,00689	WNK3	WNK lysine deficient protein kinase 3
1,080725402	0,45926	1,308578071	0,00176	WNT10B	wingless-type MMTV integration site family, member 10B
0,78132788	0,17921	0,823591017	0,04315	WNT2B	wingless-type MMTV integration site family, member 2B
0,796088099	0,18729	0,880869374	0,04848	WNT5A	wingless-type MMTV integration site family, member 5A
0,757333158	0,07299	0,71946679	0,02271	WNT5A	wingless-type MMTV integration site family, member 5A
1,416175438	0,08053	1,435944511	0,0001	WNT5B	wingless-type MMTV integration site family, member 5B
1,167158102	0,33035	1,190856849	0,00473	WNT6	wingless-type MMTV integration site family, member 6
0,898132373	0,25972	0,732550437	0,00006	WNT7B	wingless-type MMTV integration site family, member 7B
1,136816973	0,31691	0,823020345	0,03256	WNT9A	wingless-type MMTV integration site family, member 9A
1,110338834	0,6411	1,125058485	0,03006	WRAP73	WD repeat containing, antisense to TP73
1,043188594	0,66985	1,126619228	0,03906	WRAP73	WD repeat containing, antisense to TP73
0,842062954	0,37044	0,821310701	0,00425	WRN	Werner syndrome, RecQ helicase-like
0,85086373	0,2084	0,821310701	0,00349	WRNIP1	Werner helicase interacting protein 1
0,863339559	0,62977	0,822450069	0,01849	WSB1	WD repeat and SOCS box containing 1
0,793883931	0,08673	0,748461493	0,00002	WSB2	WD repeat and SOCS box containing 2
1,151089491	0,21337	1,139973273	0,03711	WSCD1	WSC domain containing 1
0,915733686	0,43047	0,846158597	0,02088	WTAP	Wilms tumor 1 associated protein
0,890075733	0,55035	0,787307977	0,0054	WTAP	Wilms tumor 1 associated protein
0,911301281	0,52445	0,842062954	0,01459	WWC2	WW and C2 domain containing 2
1,022428531	0,87597	1,199139914	0,00823	WWOX	WW domain containing oxidoreductase
0,793333843	0,38998	0,677832163	0,00145	WWP1	WW domain containing E3 ubiquitin protein ligase 1
0,785672517	0,1952	0,812252396	0,00023	WWP1	WW domain containing E3 ubiquitin protein ligase 1
1,042465761	0,73654	1,139183377	0,03122	WWP2	WW domain containing E3 ubiquitin protein ligase 2
0,843815796	0,13924	0,801625329	0,0101	WWP2	WW domain containing E3 ubiquitin protein ligase 2
0,719965659	0,12367	0,717972255	0,00001	WWTR1	WW domain containing transcription regulator 1
0,649319301	0,07106	0,722465199	0,01053	XAF1	XIAP associated factor 1
1,261377409	0,24334	1,5888688	0,00036	XDH	xanthine dehydrogenase
1,101141598	0,60945	0,840313752	0,0147	XIAP	X-linked inhibitor of apoptosis
1,054822317	0,75619	0,847332435	0,04513	XIAP	X-linked inhibitor of apoptosis
1,127400412	0,15606	1,159899655	0,01672	XIRP1	xin actin-binding repeat containing 1
1,009051634	0,94407	1,227735684	0,00458	XIST	X (inactive)-specific transcript (non-protein coding)
0,659753955	0,17376	0,552865327	0,00002	XK	X-linked Kx blood group (McLeod syndrome)
1,068065408	0,49584	1,192508872	0,00507	XKR8	XK, Kell blood group complex subunit-related family, member 8
1,099616149	0,2592	1,17609125	0,02537	XPNPEP2	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound
0,880869374	0,5746	0,792784137	0,00247	XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative
0,90062598	0,27647	0,868140228	0,02608	XPNPEP3	X-prolyl aminopeptidase (aminopeptidase P) 3, putative
0,882702996	0,52913	0,871154192	0,02368	XPO1	exportin 1 (CRM1 homolog, yeast)
0,673616788	0,05826	0,677362489	0,00014	XPO7	exportin 7
1,270150983	0,15792	1,247465572	0,00926	XPR1	xenotropic and polytropic retrovirus receptor 1
0,510860041	0,09412	0,827596816	0,00123	XRCC6	X-ray repair complementing defective repair in Chinese hamster cells 6
0,866937564	0,25529	0,728499557	0,00079	XRCC6BP1	XRCC6 binding protein 1
1,054822317	0,53136	1,121943481	0,02579	XRRA1	X-ray radiation resistance associated 1
1,163120042	0,12486	1,118837101	0,00821	XRRA1	X-ray radiation resistance associated 1
0,993092495	0,92206	0,906890329	0,0209	XYLB	xylulokinase homolog (H. influenzae)
0,801069878	0,35012	0,825305409	0,02649	XYLT1	xylosyltransferase I
1,121943481	0,43679	0,884540435	0,01006	YAF2	YY1 associated factor 2
0,763129604	0,23171	0,774319028	0,00798	YAP1	Yes-associated protein 1
0,879649076	0,24937	0,835666959	0,00182	YARS2	tyrosyl-tRNA synthetase 2, mitochondrial
0,87175824	0,42548	0,851453708	0,03435	YBEY	ybeY metallopeptidase (putative)
1,244874235	0,06261	1,182631	0,0071	YBX2	Y box binding protein 2
0,806082831	0,09646	0,744322628	0,00031	YEATS4	YEATS domain containing 4
0,697371833	0,1275	0,737134609	0	YES1	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
1,025267238	0,92782	1,332374825	0,00316	YIF1B	Yip1 interacting factor homolog B (S. cerevisiae)
1,111108729	0,37405	1,230291345	0,02502	YIF1B	Yip1 interacting factor homolog B (S. cerevisiae)
1,214194884	0,05966	1,119612889	0,02292	YIPF1	Yip1 domain family, member 1
1,065108203	0,51686	1,152686347	0,02903	YIPF2	Yip1 domain family, member 2
1,133669413	0,28	1,236275261	0,00019	YIPF2	Yip1 domain family, member 2
0,90062598	0,29447	0,877821798	0,03071	YIPF5	Yip1 domain family, member 5
0,872967591	0,40714	0,833931044	0,03326	YLPM1	YLP motif containing 1
1,107264584	0,37227	1,145517898	0,04602	YLPM1	YLP motif containing 1
0,750539549	0,06825	0,840313752	0,00408	YME1L1	YME1-like 1 (S. cerevisiae)
1,237132479	0,46841	0,61985385	0,00032	YME1L1	YME1-like 1 (S. cerevisiae)
0,575544746	0,09389	0,538493188	0,01974	YOD1	YOD1 OTU deubiquinating enzyme 1 homolog (S. cerevisiae)
0,933679945	0,4122	0,806082831	0,00288	YRDC	yrdC domain containing (E. coli)
1,112650121	0,30895	1,157490217	0,0355	YSK4	YSK4 Sps1/Ste20-related kinase homolog (S. cerevisiae)
0,920825697	0,6339	0,796088099	0,012	YTHDC1	YTH domain containing 1
0,715984371	0,26432	0,729510172	0,00702	YTHDC2	YTH domain containing 2
0,767905135	0,14371	0,903752727	0,03557	YTHDF1	YTH domain family, member 1
0,858565436	0,27735	0,844986384	0,00028	YTHDF2	YTH domain family, member 2
0,836826243	0,43011	0,886381699	0,01711	YTHDF2	YTH domain family, member 2
0,560194607	0,05026	0,847919965	0,02611	YWHAB	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
0,782954296	0,32371	0,845572287	0,04235	YWHAB	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta polypeptide
0,571173123	0,27243	0,726986259	0,00576	YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
0,898755127	0,46959	0,888226796	0,00531	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
0,910669834	0,41052	0,86934456	0,04844	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
0,932386486	0,78756	0,852044095	0,02325	YY1	YY1 transcription factor
1,012554807	0,86351	1,216722359	0,00001	YY2	YY2 transcription factor
0,790589117	0,0591	0,780786493	0,00122	ZADH2	zinc binding alcohol dehydrogenase domain containing 2
0,90312651	0,49384	0,806082831	0,00055	ZAK	sterile alpha motif and leucine zipper containing kinase AZK

1,055553718	0,59691	1,227735684	0,00035	ZAN	zonadhesin
0,936921447	0,47474	1,104198847	0,04733	ZAR1	zygote arrest 1
0,69640574	0,10903	0,759435845	0,00131	ZBED1	zinc finger, BED-type containing 1
0,825877665	0,29655	0,819604608	0,00871	ZBED2	zinc finger, BED-type containing 2
0,890692901	0,26847	0,813943185	0,00481	ZBED4	zinc finger, BED-type containing 4
0,704172113	0,10595	0,645281245	0,00045	ZBED6	zinc finger, BED-type containing 6
0,928516852	0,75554	0,777546036	0,0301	ZBTB1	zinc finger and BTB domain containing 1
1,440929749	0,1097	1,157490217	0,02759	ZBTB10	zinc finger and BTB domain containing 10
0,770037174	0,22756	0,782954296	0,00263	ZBTB11	zinc finger and BTB domain containing 11
0,758383773	0,10418	0,696888619	0,002	ZBTB11	zinc finger and BTB domain containing 11
1,100378609	0,25189	1,138394029	0,04363	ZBTB12	zinc finger and BTB domain containing 12
1,04608494	0,78958	0,886996305	0,02016	ZBTB2	zinc finger and BTB domain containing 2
1,810012926	0,06364	1,223488041	0,04374	ZBTB20	zinc finger and BTB domain containing 20
1,453972517	0,10601	1,22858698	0,04456	ZBTB20	zinc finger and BTB domain containing 20
1,065108203	0,6455	0,86154616	0,03172	ZBTB24	zinc finger and BTB domain containing 24
1,236275261	0,07892	1,145517898	0,0219	ZBTB25	zinc finger and BTB domain containing 25
1,115739322	0,34411	1,122721422	0,027	ZBTB32	zinc finger and BTB domain containing 32
0,69640574	0,13307	0,770037174	0,00003	ZBTB33	zinc finger and BTB domain containing 33
0,968618189	0,88909	0,819036698	0,02805	ZBTB34	zinc finger and BTB domain containing 34
1,425037614	0,07082	1,413233644	0,00282	ZBTB38	zinc finger and BTB domain containing 38
1,0238469	0,92378	0,806641759	0,03226	ZBTB41	zinc finger and BTB domain containing 41
0,689202576	0,1962	0,691116103	0,00007	ZBTB43	zinc finger and BTB domain containing 43
0,811127156	0,1692	0,798298386	0,00635	ZBTB43	zinc finger and BTB domain containing 43
0,751580739	0,07676	0,650670928	0	ZBTB43	zinc finger and BTB domain containing 43
0,835087919	0,35419	0,876605721	0,01536	ZBTB44	zinc finger and BTB domain containing 44
0,719965659	0,10457	0,846158597	0,0425	ZBTB44	zinc finger and BTB domain containing 44
1,298638603	0,08923	1,227735684	0,00664	ZBTB46	zinc finger and BTB domain containing 46
0,856188285	0,18648	0,773246337	0,02133	ZBTB7A	zinc finger and BTB domain containing 7A
1,188383105	0,34818	1,407368375	0,00523	ZC3H12A	zinc finger CCCH-type containing 12A
0,832198735	0,53444	0,79940583	0,03665	ZC3H12C	zinc finger CCCH-type containing 12C
1,050444544	0,57276	1,183451022	0,00222	ZC3H13	zinc finger CCCH-type containing 13
0,793333843	0,20015	0,76950361	0,00605	ZC3H13	zinc finger CCCH-type containing 13
0,954621014	0,78226	0,838568184	0,00979	ZC3H13	zinc finger CCCH-type containing 13
0,717474767	0,07981	0,765778999	0,00041	ZC3H14	zinc finger CCCH-type containing 14
0,678302164	0,3735	0,76418826	0,00053	ZC3H15	zinc finger CCCH-type containing 15
0,803293997	0,25204	0,722465199	0,00013	ZC3H15	zinc finger CCCH-type containing 15
1,098092814	0,42564	1,125838586	0,02466	ZC3H7B	zinc finger CCCH-type containing 7B
0,790041312	0,13361	0,840313752	0,02861	ZC3H7B	zinc finger CCCH-type containing 7B
0,879649076	0,56625	0,763129604	0,00685	ZC3HAV1L	zinc finger CCCH-type, antiviral 1-like
0,962594443	0,70821	1,127400412	0,01026	ZC4H2	zinc finger, C4H2 domain containing
0,852634892	0,53134	0,72597914	0,00412	ZCCHC10	zinc finger, CCHC domain containing 10
0,883927531	0,55875	0,718470088	0,00449	ZCCHC10	zinc finger, CCHC domain containing 10
1,111879158	0,22652	1,244011653	0,00044	ZCCHC12	zinc finger, CCHC domain containing 12
0,730522189	0,11852	0,779704843	0,00633	ZCCHC14	zinc finger, CCHC domain containing 14
0,777007269	0,31924	0,772175133	0,00038	ZCCHC2	zinc finger, CCHC domain containing 2
0,924022572	0,80287	0,73153561	0,00184	ZCCHC2	zinc finger, CCHC domain containing 2
1,42899414	0,12477	1,22603486	0,02922	ZCCHC24	zinc finger, CCHC domain containing 24
0,753667455	0,14108	0,750019495	0,00018	ZCCHC6	zinc finger, CCHC domain containing 6
0,911933166	0,70499	0,813943185	0,00593	ZCCHC7	zinc finger, CCHC domain containing 7
0,884540435	0,60966	0,815072332	0,04181	ZCCHC8	zinc finger, CCHC domain containing 8
0,827596816	0,17879	0,886996305	0,03159	ZCRB1	zinc finger CCHC-type and RNA binding motif 1
0,720964436	0,09078	0,598739352	0,00012	ZDHHC11	zinc finger, DHHC-type containing 11
0,910669834	0,46194	0,831045862	0,00652	ZDHHC11	zinc finger, DHHC-type containing 11
1,152686347	0,16636	1,159095952	0,04665	ZDHHC14	zinc finger, DHHC-type containing 14
1,073260286	0,5454	1,121943481	0,03301	ZDHHC14	zinc finger, DHHC-type containing 14
1,028113827	0,75551	0,898132373	0,03145	ZDHHC19	zinc finger, DHHC-type containing 19
0,865136691	0,58546	0,717972255	0,005	ZDHHC21	zinc finger, DHHC-type containing 21
1,082224645	0,45676	1,117287138	0,04544	ZDHHC21	zinc finger, DHHC-type containing 21
0,672683604	0,16914	0,7031966	0,00164	ZDHHC21	zinc finger, DHHC-type containing 21
0,722465199	0,062	0,71400199	0,02131	ZDHHC21	zinc finger, DHHC-type containing 21
0,771105413	0,28678	0,648869383	0,01138	ZDHHC21	zinc finger, DHHC-type containing 21
1,10343374	0,26616	1,161508732	0,00452	ZDHHC22	zinc finger, DHHC-type containing 22
1,077733145	0,70672	1,144724161	0,0329	ZDHHC4	zinc finger, DHHC-type containing 4
0,791137301	0,32344	0,828170661	0,00337	ZDHHC9	zinc finger, DHHC-type containing 9
1,028113827	0,81874	0,87539133	0,02287	ZDHHC9	zinc finger, DHHC-type containing 9
1,041021598	0,76091	1,186736798	0,01766	ZER1	zer-1 homolog (C. elegans)
0,759962428	0,12292	0,825305409	0,03586	ZFAND1	zinc finger, AN1-type domain 1
0,833353207	0,0728	0,898132373	0,04936	ZFAND2A	zinc finger, AN1-type domain 2A
1,054091423	0,67349	1,10343374	0,03269	ZFAND3	zinc finger, AN1-type domain 3
1,110338834	0,73685	0,683493726	0,00054	ZFAND6	zinc finger, AN1-type domain 6
1,035264924	0,66925	0,909408252	0,04688	ZFHX3	zinc finger homeobox 3
0,888842681	0,56913	0,787307977	0,00464	ZFP1	zinc finger protein 1 homolog (mouse)
0,828170661	0,38099	0,735603373	0,00575	ZFP112	zinc finger protein 112 homolog (mouse)
0,963261894	0,66523	0,833353207	0,02758	ZFP161	zinc finger protein 161 homolog (mouse)
0,882702996	0,18123	0,875998315	0,03386	ZFP161	zinc finger protein 161 homolog (mouse)
1,167967395	0,20909	0,852634892	0,01116	ZFP28	zinc finger protein 28 homolog (mouse)
0,966606097	0,65711	1,092020546	0,02685	ZFP36L1	zinc finger protein 36, C3H type-like 1
1,127400412	0,14024	1,235418637	0,00147	ZFP57	zinc finger protein 57 homolog (mouse)
0,864537231	0,34713	0,883315051	0,03521	ZFP62	zinc finger protein 62 homolog (mouse)
1,0132569	0,92929	0,845572287	0,01277	ZFP64	zinc finger protein 64 homolog (mouse)
0,96996191	0,77659	1,16634937	0,00508	ZFP64	zinc finger protein 64 homolog (mouse)
1,083725967	0,35245	1,155085785	0,04881	ZFP82	zinc finger protein 82 homolog (mouse)
0,564482202	0,09978	0,811127156	0,02013	ZFP90	zinc finger protein 90 homolog (mouse)
1	0,9999	1,160703914	0,01037	ZFPL1	zinc finger protein-like 1
0,817335328	0,15922	0,820741609	0,01678	ZFR	zinc finger RNA binding protein
0,774319028	0,1125	0,889458994	0,01028	ZFX	zinc finger protein, X-linked
1,021012126	0,89669	0,821310701	0,04898	ZFY	zinc finger protein, Y-linked
0,941478465	0,69259	0,746389192	0,00467	ZFY	zinc finger protein, Y-linked
0,965936329	0,85959	0,857376037	0,0401	ZFYVE16	zinc finger, FYVE domain containing 16
0,815637493	0,14075	0,832198735	0,00008	ZFYVE20	zinc finger, FYVE domain containing 20
0,579146403	0,06848	0,69640574	0,02436	ZFYVE21	zinc finger, FYVE domain containing 21
0,819604608	0,11058	0,808320869	0,00205	ZFYVE26	zinc finger, FYVE domain containing 26
0,841479482	0,08207	0,883927531	0,01938	ZFYVE26	zinc finger, FYVE domain containing 26
1,015366101	0,89127	0,832198735	0,02886	ZFYVE28	zinc finger, FYVE domain containing 28
1,065846736	0,62841	1,204137381	0,01202	ZGLP1	zinc finger, GATA-like protein 1
0,632439771	0,08206	0,618995145	0,00005	ZHX1	zinc fingers and homeoboxes 1
1,04608494	0,52404	0,915099168	0,04302	ZIC2	Zic family member 2
1,128182137	0,16771	1,136029265	0,00938	ZIC3	Zic family member 3
1,221793102	0,1314	1,128964405	0,01655	ZIK1	zinc finger protein interacting with K protein 1 homolog (mouse)
1,183451022	0,10388	1,150291893	0,00548	ZIM2	zinc finger, imprinted 2
0,530711604	0,07404	0,718968266	0,00009	ZKSCAN1	zinc finger with KRAB and SCAN domains 1
0,461051559	0,09606	0,795536484	0,023	ZKSCAN1	zinc finger with KRAB and SCAN domains 1
1,182631	0,05281	1,21167266	0,0007	ZKSCAN3	zinc finger with KRAB and SCAN domains 3
0,839149637	0,17142	0,816203046	0,00141	ZMIZ1	zinc finger, MIZ-type containing 1

1,051901779	0,65911	1,142346247	0,01934	ZMIZ2	zinc finger, MIZ-type containing 2
0,878430468	0,43236	0,84264683	0,00039	ZMPSTE24	zinc metallopeptidase (STE24 homolog, S. cerevisiae)
0,802181166	0,28931	0,639049682	0,00177	ZMYM2	zinc finger, MYM-type 2
0,902500727	0,75283	0,632001549	0,00493	ZMYM2	zinc finger, MYM-type 2
0,915099168	0,68784	0,825877665	0,02075	ZMYM4	zinc finger, MYM-type 4
0,784040454	0,06404	0,738669032	0,00941	ZMYM6	zinc finger, MYM-type 6
0,879649076	0,52994	0,732550437	0,00869	ZMYM6	zinc finger, MYM-type 6
0,833353207	0,27995	0,768437591	0,01063	ZMYM6	zinc finger, MYM-type 6
0,966606097	0,69011	0,90062598	0,01664	ZMYND11	zinc finger, MYND-type containing 11
1,050444544	0,57603	1,187559666	0,00528	ZMYND12	zinc finger, MYND-type containing 12
1,109569472	0,5482	1,261377409	0,0075	ZMYND8	zinc finger, MYND-type containing 8
1,136816973	0,31484	1,276328769	0,00083	ZMYND8	zinc finger, MYND-type containing 8
1,169587664	0,05408	1,150291893	0,00348	ZMYND8	zinc finger, MYND-type containing 8
0,728499557	0,2997	0,660211421	0,00442	ZNF107	zinc finger protein 107
0,963929808	0,73183	1,225185332	0,00344	ZNF107	zinc finger protein 107
1,180992661	0,12923	1,096571589	0,0475	ZNF114	zinc finger protein 114
1,176906737	0,56802	0,823591017	0,00091	ZNF12	zinc finger protein 12
1,030968319	0,91863	0,856781955	0,00202	ZNF12	zinc finger protein 12
0,882702996	0,59008	0,636838738	0,00031	ZNF124	zinc finger protein 124
0,76684133	0,07713	0,71946679	0,00003	ZNF131	zinc finger protein 131
0,757333158	0,19172	0,699792933	0,00073	ZNF131	zinc finger protein 131
0,917639882	0,72301	0,751580739	0,00014	ZNF131	zinc finger protein 131
0,791685866	0,38302	0,715984371	0,00046	ZNF131	zinc finger protein 131
1,094293701	0,27907	1,109569472	0,02857	ZNF131	zinc finger protein 131
1,051172909	0,68361	1,104964485	0,01495	ZNF135	zinc finger protein 135
0,723969086	0,12215	0,771105413	0,00752	ZNF138	zinc finger protein 138
0,790589117	0,07139	0,814507563	0,00442	ZNF140	zinc finger protein 140
1,157490217	0,16935	1,121166078	0,02638	ZNF142	zinc finger protein 142
0,712025098	0,0767	0,825877665	0,00094	ZNF146	zinc finger protein 146
0,72597914	0,36703	0,827596816	0,02742	ZNF148	zinc finger protein 148
0,918912883	0,23932	0,866336856	0,00146	ZNF148	zinc finger protein 148
1,118837101	0,60063	1,308578071	0,0004	ZNF169	zinc finger protein 169
1,056285625	0,45319	0,912565489	0,02535	ZNF17	zinc finger protein 17
0,952637998	0,73184	0,802737389	0,00321	ZNF17	zinc finger protein 17
1,035264924	0,75314	1,113421618	0,01371	ZNF175	zinc finger protein 175
1,202469249	0,29419	1,150291893	0,01116	ZNF177	zinc finger protein 177
0,800514811	0,19542	0,734075318	0,00078	ZNF180	zinc finger protein 180
0,860352631	0,20436	0,793333843	0,02378	ZNF182	zinc finger protein 182
0,907519155	0,67686	0,758383773	0,02347	ZNF184	zinc finger protein 184
0,91319825	0,5485	0,84323111	0,00799	ZNF207	zinc finger protein 207
0,651122095	0,09637	0,77916458	0,02074	ZNF207	zinc finger protein 207
0,942784536	0,87427	0,621144141	0,00002	ZNF207	zinc finger protein 207
0,667111585	0,22948	0,755759964	0,01072	ZNF207	zinc finger protein 207
0,899378312	0,46074	0,802737389	0,00643	ZNF207	zinc finger protein 207
1,033114388	0,77163	1,167967395	0,03224	ZNF211	zinc finger protein 211
0,876605721	0,39375	0,883927531	0,02343	ZNF212	zinc finger protein 212
0,809442217	0,3389	0,855002178	0,03088	ZNF224	zinc finger protein 224
1,028113827	0,77688	1,123499903	0,01454	ZNF224	zinc finger protein 224
1,002776436	0,98525	0,779704843	0,0043	ZNF226	zinc finger protein 226
1,018891197	0,77683	1,088242442	0,02458	ZNF226	zinc finger protein 226
0,76154437	0,07261	0,816203046	0,03602	ZNF227	zinc finger protein 227
0,733058379	0,11346	0,814507563	0,00941	ZNF23	zinc finger protein 23 (KOX 16)
0,940826108	0,45769	0,904379378	0,03854	ZNF235	zinc finger protein 235
1,028113827	0,89941	0,888842681	0,04802	ZNF236	zinc finger protein 236
1,044635763	0,83025	0,824733549	0,00661	ZNF238	zinc finger protein 238
1,179356592	0,11542	1,215036792	0,00927	ZNF239	zinc finger protein 239
0,821880187	0,49203	0,841479482	0,00044	ZNF24	zinc finger protein 24
0,819604608	0,17176	0,839731493	0,00548	ZNF250	zinc finger protein 250
0,918912883	0,51302	0,817335328	0,01925	ZNF256	zinc finger protein 256
0,744322628	0,27191	0,726482525	0,00229	ZNF260	zinc finger protein 260
0,765248385	0,12531	0,775393206	0,0036	ZNF264	zinc finger protein 264
0,832775771	0,37819	0,717474767	0,00109	ZNF267	zinc finger protein 267
0,906890329	0,63105	0,745872013	0,0003	ZNF268	zinc finger protein 268
1,054822317	0,8075	0,863339559	0,02659	ZNF271	zinc finger protein 271
0,872967591	0,46063	0,760489377	0,00095	ZNF273	zinc finger protein 273
0,844400887	0,19809	0,866937564	0,04504	ZNF274	zinc finger protein 274
1,021012126	0,88943	0,877821798	0,03532	ZNF277	zinc finger protein 277
0,773782497	0,20838	0,699792933	0,0242	ZNF277	zinc finger protein 277
0,717474767	0,06045	0,764718139	0,02164	ZNF277	zinc finger protein 277
1,223488041	0,07274	1,242288282	0,00244	ZNF280B	zinc finger protein 280B
1,065108203	0,73233	0,856781955	0,01643	ZNF280C	zinc finger protein 280C
1,019597683	0,90236	0,852044095	0,0227	ZNF283	zinc finger protein 283
1,024556823	0,88608	0,8362464	0,02055	ZNF292	zinc finger protein 292
1,077733145	0,84782	0,763129604	0,00013	ZNF292	zinc finger protein 292
0,798298386	0,37827	0,70759708	0,00012	ZNF295	zinc finger protein 295
0,859756486	0,49029	0,745872013	0,00051	ZNF295	zinc finger protein 295
1,065108203	0,43822	0,865136691	0,03628	ZNF3	zinc finger protein 3
0,874784765	0,39248	0,87417862	0,02781	ZNF30	zinc finger protein 30
0,772175133	0,12939	0,804408371	0,00039	ZNF304	zinc finger protein 304
1,200803427	0,11193	1,150291893	0,02546	ZNF319	zinc finger protein 319
0,771640088	0,33457	0,709561678	0,00047	ZNF326	zinc finger protein 326
1,243149669	0,30025	1,210833084	0,04397	ZNF331	zinc finger protein 331
1,068805991	0,46346	0,877213549	0,03391	ZNF333	zinc finger protein 333
0,950000383	0,73973	1,159899655	0,02704	ZNF335	zinc finger protein 335
1,059952783	0,66556	1,131314463	0,01151	ZNF335	zinc finger protein 335
0,61813763	0,06044	0,840313752	0,01639	ZNF33A	zinc finger protein 33A
1,198309021	0,33651	1,113421618	0,0456	ZNF347	zinc finger protein 347
0,917004043	0,40478	0,829894586	0,00798	ZNF350	zinc finger protein 350
1,074749173	0,3599	1,121943481	0,01138	ZNF365	zinc finger protein 365
0,860949188	0,60347	0,726986259	0,0005	ZNF367	zinc finger protein 367
1,229438867	0,19429	1,120389214	0,0095	ZNF382	zinc finger protein 382
0,964598185	0,79572	0,876605721	0,04622	ZNF383	zinc finger protein 383
1,179356592	0,11575	1,295940965	0,00021	ZNF384	zinc finger protein 384
0,97063447	0,75794	1,110338834	0,02953	ZNF384	zinc finger protein 384
1,072516617	0,49935	0,855002178	0,02325	ZNF385B	zinc finger protein 385B
0,936272247	0,35533	0,839149637	0,02304	ZNF385B	zinc finger protein 385B
1,043911927	0,84969	0,859160755	0,04468	ZNF385B	zinc finger protein 385B
1,046810282	0,57571	1,173648178	0,02968	ZNF385C	zinc finger protein 385C
0,78132788	0,14966	0,752623374	0,00008	ZNF394	zinc finger protein 394
0,890075733	0,3941	0,772175133	0,02412	ZNF395	zinc finger protein 395
0,853817714	0,17952	0,833931044	0,02396	ZNF395	zinc finger protein 395
0,792784137	0,28162	0,752623374	0,00277	ZNF397	zinc finger protein 397
1,099616149	0,21071	1,120389214	0,03585	ZNF397	zinc finger protein 397
0,610050255	0,11555	0,782411782	0,00101	ZNF398	zinc finger protein 398

0,961927455	0,69152	0,859160755	0,03128	ZNF407	zinc finger protein 407
0,868140228	0,22198	0,890075733	0,01989	ZNF410	zinc finger protein 410
0,862143545	0,42859	0,867538687	0,03197	ZNF410	zinc finger protein 410
0,946057647	0,61777	0,860949188	0,0163	ZNF416	zinc finger protein 416
0,825877665	0,10321	0,777007269	0,00086	ZNF416	zinc finger protein 416
1,0132569	0,89651	1,145517898	0,00709	ZNF419	zinc finger protein 419
0,966606097	0,83734	0,840896415	0,02798	ZNF420	zinc finger protein 420
0,73153561	0,19679	0,808881348	0,03241	ZNF426	zinc finger protein 426
1,100378609	0,51849	1,237990291	0,00333	ZNF428	zinc finger protein 428
0,508739846	0,05073	0,630688704	0	ZNF430	zinc finger protein 430
0,69399636	0,11036	0,584793832	0,00017	ZNF430	zinc finger protein 430
0,825305409	0,37659	0,735093668	0,00097	ZNF432	zinc finger protein 432
1,061423209	0,58611	1,151089491	0,00889	ZNF434	zinc finger protein 434
0,671751713	0,16268	0,85027416	0,02545	ZNF44	zinc finger protein 44
0,956608158	0,76641	0,839731493	0,00836	ZNF44	zinc finger protein 44
0,841479482	0,438	0,680185426	0,0001	ZNF440	zinc finger protein 440
1,054822317	0,70987	0,886996305	0,04796	ZNF441	zinc finger protein 441
0,886381699	0,55434	0,806082831	0,0014	ZNF443	zinc finger protein 443
1,068065408	0,5246	1,199139914	0,02958	ZNF444	zinc finger protein 444
0,926588062	0,6798	0,799960128	0,02761	ZNF45	zinc finger protein 45
1,136816973	0,7066	0,866336856	0,03881	ZNF451	zinc finger protein 451
0,956608158	0,52561	1,114193651	0,01539	ZNF461	zinc finger protein 461
0,81056512	0,25209	0,741233505	0,00156	ZNF462	zinc finger protein 462
1,021720083	0,8718	1,343503426	0,00111	ZNF467	zinc finger protein 467
1,125058485	0,18769	1,256142381	0,00265	ZNF479	zinc finger protein 479
1,137605228	0,19401	1,136816973	0,02492	ZNF48	zinc finger protein 48
1,167967395	0,19807	1,272794935	0,00154	ZNF488	zinc finger protein 488
1,098092814	0,37024	1,167158102	0,01873	ZNF491	zinc finger protein 491
1,095052471	0,40042	1,139973273	0,03448	ZNF496	zinc finger protein 496
0,997231251	0,96934	1,153485605	0,03528	ZNF496	zinc finger protein 496
0,755759964	0,05128	0,824162085	0,01533	ZNF502	zinc finger protein 502
0,846158597	0,4682	0,755759964	0,00061	ZNF507	zinc finger protein 507
0,943438251	0,62579	0,822450069	0,01949	ZNF511	zinc finger protein 511
1,10343374	0,41098	1,172022284	0,02146	ZNF512	zinc finger protein 512
0,71400199	0,20878	0,816768991	0,012	ZNF512B	zinc finger protein 512B
0,643048742	0,11243	0,823020345	0,01017	ZNF514	zinc finger protein 514
0,706127202	0,05223	0,763129604	0,00018	ZNF516	zinc finger protein 516
0,980779004	0,84176	1,154285418	0,0107	ZNF517	zinc finger protein 517
1,29056249	0,08277	1,132883885	0,02365	ZNF518B	zinc finger protein 518B
1,23370717	0,13186	1,185092771	0,00428	ZNF527	zinc finger protein 527
1,000693387	0,99868	0,846158597	0,03898	ZNF529	zinc finger protein 529
1,052631155	0,54971	0,870550563	0,01543	ZNF536	zinc finger protein 536
1,142346247	0,20673	1,125838586	0,03	ZNF541	zinc finger protein 541
0,808881348	0,08978	0,898755127	0,04155	ZNF544	zinc finger protein 544
1,121166078	0,49706	0,823591017	0,00213	ZNF547	zinc finger protein 547
1,180992661	0,08775	1,355664327	0,00002	ZNF548	zinc finger protein 548
1,371733289	0,09352	1,223488041	0,00882	ZNF550	zinc finger protein 550
0,737645729	0,26086	0,751059963	0,00011	ZNF551	zinc finger protein 551
1,107264584	0,26627	0,87417862	0,01921	ZNF555	zinc finger protein 555
1,039579435	0,66567	0,873572896	0,00673	ZNF556	zinc finger protein 556
0,804966138	0,1014	0,781869643	0,00337	ZNF557	zinc finger protein 557
1,128964405	0,19157	1,220946513	0,00063	ZNF557	zinc finger protein 557
0,787853886	0,29614	0,76418826	0,00041	ZNF561	zinc finger protein 561
1,030968319	0,90823	0,728499557	0,00626	ZNF567	zinc finger protein 567
0,67877249	0,0647	0,655651007	0,00084	ZNF567	zinc finger protein 567
1,059952783	0,57973	0,872967591	0,04724	ZNF568	zinc finger protein 568
1,100378609	0,65963	0,768437591	0,00142	ZNF571	zinc finger protein 571
1,127400412	0,23741	1,153485605	0,0044	ZNF572	zinc finger protein 572
1,118837101	0,15209	1,108032348	0,01097	ZNF573	zinc finger protein 573
1,254402205	0,07399	1,139973273	0,03779	ZNF583	zinc finger protein 583
0,865736566	0,10177	0,842062954	0,00151	ZNF584	zinc finger protein 584
0,953959551	0,82324	0,803850991	0,0095	ZNF585A	zinc finger protein 585A
1,128964405	0,34861	1,318593614	0	ZNF598	zinc finger protein 598
0,846745312	0,28421	0,846745312	0,02345	ZNF600	zinc finger protein 600
1,134455485	0,31274	1,204972315	0,02845	ZNF608	zinc finger protein 608
1,131314463	0,54966	0,868742185	0,03332	ZNF614	zinc finger protein 614
0,879039561	0,40342	0,881480158	0,0304	ZNF621	zinc finger protein 621
0,880259014	0,47595	0,759435845	0,00325	ZNF621	zinc finger protein 621
0,927230546	0,47221	0,837987135	0,00571	ZNF624	zinc finger protein 624
1,231144413	0,10483	1,115739322	0,02439	ZNF638	zinc finger protein 638
1,009751298	0,93329	0,85027416	0,00109	ZNF639	zinc finger protein 639
0,859160755	0,41404	0,776468875	0,00153	ZNF639	zinc finger protein 639
0,885153765	0,62151	0,693515485	0,0001	ZNF639	zinc finger protein 639
0,84264683	0,36375	0,750539549	0,00151	ZNF644	zinc finger protein 644
1,044635763	0,81294	0,820741609	0,03833	ZNF644	zinc finger protein 644
1,130530567	0,09951	1,121166078	0,01659	ZNF645	zinc finger protein 645
0,876605721	0,51226	0,782954296	0,00166	ZNF654	zinc finger protein 654
0,886381699	0,6268	0,762072415	0,00625	ZNF654	zinc finger protein 654
0,723969086	0,07007	0,76950361	0,0086	ZNF655	zinc finger protein 655
0,739693755	0,154	0,66158572	0,00046	ZNF658	zinc finger protein 658
1,058484395	0,76653	0,791685866	0,00087	ZNF664	zinc finger protein 664
0,990342872	0,90299	1,104198847	0,04541	ZNF664	zinc finger protein 664
1,033830736	0,76476	1,194163187	0,01097	ZNF667	zinc finger protein 667
0,984866443	0,81999	0,901875378	0,03022	ZNF668	zinc finger protein 668
1,219255094	0,0636	1,227735684	0,00061	ZNF671	zinc finger protein 671
1,051172909	0,74182	1,152686347	0,02389	ZNF673	zinc finger family member 673
1,004167543	0,97874	0,852044095	0,02412	ZNF680	zinc finger protein 680
0,718968266	0,0841	0,658383461	0,00021	ZNF681	zinc finger protein 681
0,879039561	0,15176	0,862143545	0,01652	ZNF682	zinc finger protein 682
0,939522749	0,79061	0,744838732	0,01738	ZNF682	zinc finger protein 682
1,249196126	0,06976	1,21335356	0,0254	ZNF687	zinc finger protein 687
1,310393404	0,14145	1,156688184	0,03468	ZNF697	zinc finger protein 697
0,764718139	0,19299	0,753145233	0,00267	ZNF700	zinc finger protein 700
1,205807828	0,06478	1,17772279	0,00101	ZNF701	zinc finger protein 701
1,036701101	0,69452	1,109569472	0,03963	ZNF704	zinc finger protein 704
0,942784536	0,55361	1,185092771	0,00256	ZNF704	zinc finger protein 704
1,054822317	0,54364	1,135242102	0,01836	ZNF705G	zinc finger protein 705G
0,784040454	0,36847	0,773782497	0,0081	ZNF706	zinc finger protein 706
0,979420298	0,82512	1,125838586	0,03884	ZNF710	zinc finger protein 710
1,017479692	0,80751	0,830470024	0,00892	ZNF710	zinc finger protein 710
0,851453708	0,11892	0,862143545	0,00909	ZNF710	zinc finger protein 710
0,68491649	0,2051	0,645281245	0,00188	ZNF711	zinc finger protein 711
1,138394029	0,1539	1,135242102	0,01067	ZNF718	zinc finger protein 718
0,892546971	0,54393	0,806641759	0,00848	ZNF720	zinc finger protein 720

1,052631155	0,59649	1,147107024	0,00263	ZNF736	zinc finger protein 736
0,927230546	0,49965	1,148698355	0,00515	ZNF740	zinc finger protein 740
1,127400412	0,11156	1,237990291	0,00368	ZNF747	zinc finger protein 747
1,301341855	0,10384	1,125838586	0,03995	ZNF747	zinc finger protein 747
1,121166078	0,47787	0,820741609	0,00172	ZNF765	zinc finger protein 765
0,917639882	0,61731	0,816203046	0,03301	ZNF765	zinc finger protein 765
0,855595026	0,31714	0,875998315	0,01397	ZNF766	zinc finger protein 766
0,991716731	0,95191	0,727994774	0,00006	ZNF77	zinc finger protein 77
0,654742712	0,093	0,636838738	0,00402	ZNF770	zinc finger protein 770
1,160703914	0,2412	1,138394029	0,01958	ZNF775	zinc finger protein 775
1,099616149	0,36841	1,154285418	0,01966	ZNF775	zinc finger protein 775
1,114193651	0,36126	1,135242102	0,0328	ZNF780B	zinc finger protein 780B
0,906261938	0,44976	0,787307977	0,03528	ZNF782	zinc finger protein 782
0,701735863	0,05234	0,770037174	0,00916	ZNF785	zinc finger protein 785
0,992404375	0,95516	1,153485605	0,00462	ZNF787	zinc finger protein 787
1,224336392	0,06533	1,129747215	0,00138	ZNF80	zinc finger protein 80
0,86154616	0,37452	0,743806881	0,00003	ZNF805	zinc finger protein 805
0,872967591	0,09025	0,838568184	0,00357	ZNF805	zinc finger protein 805
0,648419777	0,09816	0,714992493	0,0029	ZNF814	zinc finger protein 814
1,055553718	0,54514	1,168777249	0,00181	ZNF814	zinc finger protein 814
0,892546971	0,57702	0,688247801	0,00484	ZNF814	zinc finger protein 814
0,940826108	0,60561	1,379360922	0,00208	ZNF827	zinc finger protein 827
0,582770599	0,07965	0,586824089	0,00064	ZNF83	zinc finger protein 83
0,783497187	0,11315	0,777007269	0,0002	ZNF830	zinc finger protein 830
1,214194884	0,07548	1,181811547	0,00102	ZNF835	zinc finger protein 835
1,101905116	0,37818	1,158292806	0,02976	ZNF837	zinc finger protein 837
1,055553718	0,60263	1,199971382	0,0107	ZNF839	zinc finger protein 839
1,139973273	0,23726	1,175276328	0,00422	ZNF843	zinc finger protein 843
0,898755127	0,46606	0,821310701	0,00245	ZNF85	zinc finger protein 85
1,021720083	0,9163	0,906261938	0,03714	ZNF850	zinc finger protein 850
0,977385766	0,85843	1,112650121	0,0146	ZNF853	zinc finger protein 853
1,164733586	0,20072	1,128182137	0,04974	ZNF861P	zinc finger protein 861, pseudogene
1,038139271	0,65846	1,120389214	0,02576	ZNF862	zinc finger protein 862
0,951977908	0,83286	0,797192477	0,00941	ZNF91	zinc finger protein 91
1,132098902	0,51135	0,815072332	0,01615	ZNF92	zinc finger protein 92
1,025978145	0,78795	1,172022284	0,00191	ZNF93	zinc finger protein 93
1,002081605	0,98783	1,128964405	0,02662	ZNFX1	zinc finger, NFX1-type containing 1
0,804408371	0,1011	0,854409741	0,01725	ZNHIT3	zinc finger, HIT-type containing 3
0,706127202	0,07348	0,77916458	0,00103	ZNHIT6	zinc finger, HIT-type containing 6
0,975355462	0,78982	0,843815796	0,01733	ZNHIT6	zinc finger, HIT-type containing 6
0,968618189	0,64519	0,93109482	0,04463	ZNRD1-AS1	ZNRD1 antisense RNA 1 (non-protein coding)
0,895025071	0,3712	0,685391402	0,00003	ZNRF1	zinc and ring finger 1
0,973329374	0,87596	0,735093668	0,00018	ZNRF2	zinc and ring finger 2
1,001387256	0,98976	1,224336392	0,00034	ZNRF4	zinc and ring finger 4
0,994470169	0,94126	1,219255094	0,00034	ZP4	zona pellucida glycoprotein 4
0,746389192	0,10733	0,762072415	0,00093	ZRANB1	zinc finger, RAN-binding domain containing 1
0,950659101	0,76877	1,115739322	0,03341	ZRSR2	zinc finger (CCCH type), RNA-binding motif and serine/arginine rich 2
0,987600861	0,93761	1,147902414	0,04901	ZRSR2	zinc finger (CCCH type), RNA-binding motif and serine/arginine rich 2
1,154285418	0,14012	1,161508732	0,01164	ZSCAN1	zinc finger and SCAN domain containing 1
0,920187651	0,30739	1,155085785	0,01188	ZSCAN10	zinc finger and SCAN domain containing 10
1,011853201	0,8748	1,260503392	0,00064	ZSCAN10	zinc finger and SCAN domain containing 10
1,111108729	0,37662	1,321338406	0,00011	ZSCAN12P1	zinc finger and SCAN domain containing 12 pseudogene 1
1,104964485	0,19708	1,139973273	0,01282	ZSCAN20	zinc finger and SCAN domain containing 20
1,115739322	0,21314	1,135242102	0,01505	ZSWIM1	zinc finger, SWIM-type containing 1
0,851453708	0,40269	0,872362706	0,01641	ZSWIM6	zinc finger, SWIM-type containing 6
0,797192477	0,28685	0,763658749	0,00265	ZUFSP	zinc finger with UFM1-specific peptidase domain
0,645728675	0,15731	0,731028724	0,00056	ZWILCH	Zwilch, kinetochore associated, homolog (Drosophila)
0,97063447	0,89577	0,81056512	0,01927	ZXDB	zinc finger, X-linked, duplicated B
0,859756486	0,22	0,871154192	0,00421	ZXDC	ZXD family zinc finger C
0,770571108	0,07485	0,729004689	0,00054	ZXDC	ZXD family zinc finger C
0,948684315	0,8436	0,829319546	0,0356	ZYG11B	zyg-11 homolog B (C. elegans)
0,718968266	0,28198	0,597909898	0,00025	ZYG11B	zyg-11 homolog B (C. elegans)
1,080725402	0,78683	1,366987452	0,02853	ZYX	zyxin
1,047536127	0,63034	1,102669163	0,03176	ZZEF1	zinc finger, ZZ-type with EF-hand domain 1
0,795536484	0,33449	0,795536484	0,00789	ZZZ3	zinc finger, ZZ-type containing 3