Table S1 List of 327 upregulated genes and 234 downregulated genes

Gene Name	Gene ID	Description	Mean-NC	Mean-morpholino	p value	Fold Change
Ctf1	13019	cardiotrophin 1	35.7216096	499.2379588	0.01655667	13.974445
Erdr1	170942	erythroid differentiation regulator 1	31.1063154	178.919489	0.00080773	5.75136139
Pcp4l1	66425	Purkinje cell protein 4-like 1	191.193042	1081.359558	3.97E-07	5.65350174
Trav7n-6	100126457	T cell receptor alpha variable 7N-6	27.1992307	150.190081	0.00345126	5.51182479
Lypla2	26394	lysophospholipase 2	60.5981571	296.8359744	0.00091325	4.89445732
Gar1	68147	GAR1 ribonucleoprotein	34.8951917	167.4091231	0.0000793	4.79992215
Lsm4	50783	LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated	134.638839	645.591069	0.0000596	4.79225092
Socs1	12703	suppressor of cytokine signaling 1	318.687559	1508.735492	0.0000303	4.7333174
Kcnh3	16512	potassium voltage-gated channel, subfamily H (eag-related), member 3	32.0706431	143.6164495	0.00044593	4.47507906
Il17f	257630	interleukin 17F	1162.56887	5151.34663	0.00000141	4.43092695
Krt25	70810	keratin 25	38.5658596	167.5866021	0.00659617	4.34622859
Id3	15903	inhibitor of DNA binding 3	173.530292	745.4946777	0.00091206	4.29536378
Sap30l	50724	SAP30-like	206.152574	862.4172607	4.41E-07	4.18358805
Lbx1	16814	ladybird homeobox 1	78.0950064	325.8627131	0.00015891	4.16953097
Amd2	100041585	S-adenosylmethionine decarboxylase 2	37.404518	155.1402593	0.01598493	4.14696651
Lhx5	16873	LIM homeobox protein 5	38.6249638	158.0411042	0.00091034	4.09506968
Ube2m	22192	ubiquitin-conjugating enzyme E2M	182.641631	744.4430486	0.00015907	4.0749011
Hmga1	15361	high mobility group AT-hook 1	173.824772	679.1818411	0.0000526	3.90623846
Rnf126	70294	ring finger protein 126	775.60998	3001.010538	0.000005	3.8690391
H2afx	15270	H2A histone family, member X	113.266018	434.1583304	0.0000151	3.8323608
Gm715	279618	predicted gene 715	36.3416833	139.0522172	0.00107527	3.82621553
Hmg20b	15353	high mobility group 20B	70.0952347	268.0532879	0.0000833	3.82454427
Pou2f2	18987	POU domain, class 2, transcription factor 2	244.224858	932.952368	0.0000883	3.81957064
Ybx2	53422	Y box protein 2	131.588244	500.1736374	0.00054709	3.79907026
Hmga1-rs1	111241	high mobility group AT-hook 1B	58.1085322	219.7005465	0.02016036	3.77913234
Rac3	170758	Rac family small GTPase 3	47.628466	179.0481874	0.00218039	3.75516312
Zar1	317755	zygote arrest 1	6454.73937	24094.27136	2.67E-08	3.73279495
Rabl6	227624	RAB, member RAS oncogene family-like 6	35.4955639	130.416057	0.00249373	3.67729386
Arf5	11844	ADP-ribosylation factor 5	279.208186	1025.594769	0.0000303	3.67256725
Ube2s	77891	ubiquitin-conjugating enzyme E2S	4870.01261	17570.78928	7.89E-08	3.60793851
Hras	15461	Harvey rat sarcoma virus oncogene	57.5278613	206.3272226	0.00832686	3.58312775
Tex19.2	73679	testis expressed gene 19.1	102.156547	363.3970132	0.00126299	3.55747721
Emc10	69683	ER membrane protein complex subunit 10	139.658532	495.6625843	0.0000881	3.54852741
Ccdc71l	72123	coiled-coil domain containing 71 like	45.3752579	158.3382859	0.00155503	3.48766802
Rps2-ps10	667279	ribosomal protein S2, pseudogene 10	44.6763787	154.5768343	0.01113978	3.45842687
Phf1	21652	PHD finger protein 1	997.365988	3430.24948	0.00042818	3.43915865
Eapp	66266	E2F-associated phosphoprotein	71.0792638	244.4115535	0.02159069	3.43778551

Gm5619	434426	ribosomal protein L7A pseudogene	66.7491195	229.2371481	0.0045721	3.43403037
Med25	75613	mediator complex subunit 25	142.974575	485.9884377	0.00179399	3.39870963
Zfp618	72701	zinc finger protein 618	54.7136838	185.0806844	0.02259647	3.37978648
Raly	19383	hnRNP-associated with lethal yellow	448.714225	1515.650836	0.00000586	3.3774649
Cmtm7	102545	CKLF-like MARVEL transmembrane domain containing 7	48.3377162	161.460992	0.00877044	3.34106108
Fam189b	68521	family with sequence similarity 189, member B	97.1855875	321.293983	0.00491364	3.30434307
Zdhhc8	27801	zinc finger, DHHC domain containing 8	138.703534	458.1638198	0.00223624	3.30251149
Npm3	18150	nucleoplasmin 3	48.0027925	156.7725095	0.00220707	3.26499508
Rims3	242662	regulating synaptic membrane exocytosis 3	94.4398445	308.3641329	0.01493285	3.26370254
Speer4f2	100041749	spermatogenesis associated glutamate (E)-rich protein 4f2	41.6361553	135.7565797	0.01600814	3.26107543
Aph1a	226548	aph1 homolog A, gamma secretase subunit	85.1999255	277.8381911	0.01552878	3.26021648
Ier5l	72500	immediate early response 5-like	103.710876	336.8719283	0.00018035	3.24779207
H1f0	14958	H1 histone family, member 0	490.200018	1576.906391	0.00240512	3.21662501
Cdkn1c	12577	cyclin-dependent kinase inhibitor 1C (P57)	65.2341933	209.152747	0.00205017	3.20715018
Wdtc1	230796	WD and tetratricopeptide repeats 1	195.345874	626.2382779	0.00159223	3.20503274
Elavl3	15571	ELAV like RNA binding protein 3	280.557211	899.1397347	0.0000599	3.2046006
Pkmyt1	268930	protein kinase, membrane associated tyrosine/threonine 1	268.59021	859.1569599	0.00139403	3.19849126
Mbd2	17191	methyl-CpG binding domain protein 2	87.7984284	280.388725	0.00100667	3.19339305
Dapk3	13144	death-associated protein kinase 3	147.216583	470.0558327	0.0000898	3.19265685
Raver1	71766	ribonucleoprotein, PTB-binding 1	215.864285	688.4433527	0.00118537	3.18897388
Syvn1	74126	synovial apoptosis inhibitor 1, synoviolin	71.6588941	226.3451498	0.01857388	3.15644764
Fam46b	100342	terminal nucleotidyltransferase 5B	327.090689	1030.207683	0.00685196	3.14910336
Srebf2	20788	sterol regulatory element binding factor 2	51.1518938	160.8310931	0.00254681	3.14427514
Tjap1	74094	tight junction associated protein 1	326.356569	1015.006936	0.0000705	3.11027168
Dmwd	13401	dystrophia myotonica-containing WD repeat motif	130.309735	401.8404023	0.00067697	3.08288657
Mrap	77037	melanocortin 2 receptor accessory protein	77.6916481	239.5367454	0.0047308	3.08091459
Ppt2	54397	palmitoyl-protein thioesterase 2	256.800521	790.0190462	0.00150176	3.07579821
Ttyh3	78339	tweety family member 3	123.293992	378.659835	0.00092221	3.0716266
Rps4l	66184	ribosomal protein S4-like	47.6481674	145.1201504	0.01401422	3.04241934
E2f1	13555	E2F transcription factor 1	73.0960552	222.3441935	0.01745201	3.04100291
Zfp746	69228	zinc finger protein 746	91.4203631	277.7673188	0.00108131	3.03938194
Aire	11634	autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectoderı	45.2570495	137.2912687	0.00808738	3.03133666
Alkbh2	231642	alkB homolog 2, alpha-ketoglutarate-dependent dioxygenase	52.8939063	159.8020528	0.0066977	3.02193245
Tbcc	72726	tubulin-specific chaperone C	137.936221	416.0122079	0.00074123	3.01513132
Baiap2l2	207495	BAI1-associated protein 2-like 2	45.8574217	137.6372309	0.00889725	3.00052339
AI846148	68229	spindlin interactor and repressor of chromatin binding	136.93249	408.6224512	0.00117031	2.98344281
Tex15	104271	testis expressed gene 15	632.00288	1872.239261	0.00086568	2.96197029
Sf3b4	107701	splicing factor 3b, subunit 4	611.587137	1796.207895	0.0004776	2.93692391
1700067K01Rik	73453	RIKEN cDNA 1700067K01 gene	356.063045	1045.723702	0.00054089	2.93629904

Isyna1	71780	myo-inositol 1-phosphate synthase A1	64.3279292	188.8863691	0.01245149	2.93413905
Ppp1r35	69871	protein phosphatase 1, regulatory subunit 35	153.328143	446.795447	0.00040629	2.91438704
Zfp384	269800	zinc finger protein 384	57.0757699	166.3357006	0.00516106	2.9129462
B4galt2	53418	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2	189.420957	550.5578201	0.01036337	2.90546453
Cdc34	216150	cell division cycle 34	193.920124	562.8489744	0.00024508	2.90197465
Rfxap	170767	regulatory factor X-associated protein	115.027731	333.4298991	0.0006837	2.89843165
Phc2	54383	polyhomeotic 2	1018.35931	2936.152871	0.00045575	2.88314822
Tmem39b	230770	transmembrane protein 39b	115.478782	332.44954	0.03555971	2.87774083
Smco4	170748	single-pass membrane protein with coiled-coil domains 4	250.403811	720.6150383	0.00234692	2.8769282
Crtc1	382056	CREB regulated transcription coactivator 1	42.6689176	122.4097459	0.02500508	2.86744449
Bcl7c	12055	B cell CLL/lymphoma 7C	1185.60077	3393.05319	0.000063	2.86200379
Ctf2	244218	cardiotrophin 2	50.3151048	143.9668599	0.01353788	2.85971457
Cdc34b	67615	ubiquitin-conjugating enzyme E2R 2	1237.9472	3531.786383	0.00081699	2.85305465
Furin	18550	furin (paired basic amino acid cleaving enzyme)	246.517469	701.6837786	0.00097866	2.84573159
Zc3h3	223642	zinc finger CCCH type containing 3	334.739997	952.3715832	0.00028279	2.84498665
Atf6b	12915	activating transcription factor 6 beta	57.6274089	162.6763082	0.00902728	2.82481819
Tmed9	67511	transmembrane p24 trafficking protein 9	700.258636	1974.976743	0.00079291	2.82012292
Khdc3	66991	KH domain containing 3, subcortical maternal complex member	2903.53427	8179.480667	0.00214549	2.81698227
Scand1	19018	SCAN domain-containing 1	81.6682079	229.9602595	0.01044606	2.81605571
Rybp	56353	RING1 and YY1 binding protein	106.60386	300.162749	0.00144505	2.81496394
Mrps11	67994	mitochondrial ribosomal protein S11	144.233383	405.7393492	0.00813295	2.81166151
Bri3	55950	brain protein I3	60.3824823	169.2365952	0.00526236	2.80281038
Zdhhc18	503610	zinc finger, DHHC domain containing 18	392.307262	1092.373072	0.00025326	2.78415498
Stk40	74178	serine/threonine kinase 40	189.136848	525.5320377	0.00232701	2.77797652
Gnaz	14687	guanine nucleotide binding protein, alpha z subunit	44.4109301	123.3856071	0.01288916	2.77736503
Pias4	59004	protein inhibitor of activated STAT 4	627.491295	1733.896413	0.00030308	2.76329981
Tmem108	81907	transmembrane protein 108	1434.26978	3953.634672	0.0031439	2.7564693
Fkbp8	14232	FK506 binding protein 8	44.5488399	122.7335668	0.01301551	2.75543956
Ldb1	16825	LIM domain binding 1	65.2331527	179.6602936	0.02499247	2.75179351
Ptov1	84113	prostate tumor over expressed gene 1	156.299931	428.6093407	0.00172101	2.74281869
Fxr2	23879	fragile X mental retardation, autosomal homolog 2	94.8245419	260.0691679	0.00385088	2.74214425
Nr1h2	22260	nuclear receptor subfamily 1, group H, member 2	671.112089	1839.042685	0.00118628	2.74018192
Sac3d1	66406	SAC3 domain containing 1	62.2821059	169.3519491	0.0194987	2.71998463
Apoe	11816	apolipoprotein E	78.2432871	212.8431772	0.00474446	2.71988176
Khsrp	16549	KH-type splicing regulatory protein	677.914238	1838.124799	0.0000772	2.71135614
Lipt2	67164	lipoyl(octanoyl) transferase 2 (putative)	95.9464808	259.4969957	0.00275328	2.70403382
Sp3os	100503849	trans-acting transcription factor 3, opposite strand	97.9632722	263.6931243	0.01100965	2.69002634
Ilkap	67444	integrin-linked kinase-associated serine/threonine phosphatase 2C	78.8239579	210.5543889	0.00472925	2.67121255
Pitpnm2	19679	phosphatidylinositol transfer protein, membrane-associated 2	107.765201	287.2994225	0.00395972	2.66598783

Lama5	16776	laminin, alpha 5	137.030997	363.9025624	0.0027946	2.65505128
Kcng2	240444	potassium voltage-gated channel, subfamily G, member 2	696.301812	1839.531286	0.00554247	2.64195079
F8a	14070	factor 8-associated gene A	58.1780073	153.0509919	0.02279467	2.63085212
Prrc1	73137	proline-rich coiled-coil 1	84.0883576	221.2530778	0.00683649	2.63053712
6330562C20Rik	76193	RIKEN cDNA 6330562C20 gene	61.0813615	160.6093313	0.01392235	2.62995947
Id2	15902	inhibitor of DNA binding 2	183.793642	483.207544	0.01338013	2.62828515
Irf8	15900	interferon regulatory factor 8	228.549867	599.5670002	0.00054718	2.62330645
Fzr1	56371	fizzy and cell division cycle 20 related 1	303.129736	794.9114978	0.01163637	2.62196024
Tnrc18	231861	trinucleotide repeat containing 18	86.9917118	227.3831361	0.00566964	2.61364213
Wbp5	22381	transcription elongation factor A like 9	66.3156888	173.4282756	0.03386776	2.6128071
Swi5	72931	SWI5 recombination repair homolog (yeast)	472.764354	1234.135708	0.00338023	2.61011133
Spc24	67629	SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae)	200.189295	522.0768132	0.0020534	2.60779312
Foxk1	17425	forkhead box K1	47.2645105	123.1904348	0.02618873	2.60454676
Ybx1	22608	Y box protein 1	5223.2885	13561.66732	0.00035499	2.59640629
Aldh2	11669	aldehyde dehydrogenase 2, mitochondrial	232.023521	599.5359128	0.00102508	2.58396659
Sdf2l1	64136	stromal cell-derived factor 2-like 1	625.917265	1616.920402	0.000252	2.58336389
Necap2	66147	NECAP endocytosis associated 2	101.033568	259.8829417	0.01962169	2.57065624
Dcxr	67880	dicarbonyl L-xylulose reductase	46.1135398	118.3999927	0.040001	2.56717507
Pgrmc2	70804	progesterone receptor membrane component 2	80.3979883	206.4159373	0.01096702	2.56640223
Slc12a9	83704	solute carrier family 12 (potassium/chloride transporters), member 9	120.430041	307.2907602	0.00466677	2.55140556
Unc5a	107448	unc-5 netrin receptor A	166.798658	423.3619808	0.01080533	2.53778675
Kdelr1	68137	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor	417.066641	1056.213824	0.00159013	2.5323674
Map1lc3a	66734	microtubule-associated protein 1 light chain 3 alpha	381.945404	966.9736175	0.00179584	2.53160263
Trappc6a	67091	trafficking protein particle complex 6A	272.381167	689.4105661	0.00348419	2.53109889
2810025M15Rik	69953	RIKEN cDNA 2810025M15 gene	96.8620753	244.5223598	0.00598124	2.52470413
Thap11	59016	THAP domain containing 11	212.961972	537.4062082	0.00166443	2.52340839
Sh3bp1	20401	SH3-domain binding protein 1	400.082028	1007.59059	0.00127292	2.51839073
Map2k2	26396	mitogen-activated protein kinase kinase 2	239.374187	602.5521116	0.00233634	2.51712906
Pxn	19303	paxillin	49.3310757	124.0154563	0.0300912	2.51249702
Cdh20	23836	cadherin 20	184.050801	461.7967222	0.00231844	2.50925526
Cited2	17684	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal dor	4266.60263	10696.41361	0.00054052	2.50704734
Rbm38	56190	RNA binding motif protein 38	1392.8151	3491.589798	0.0026732	2.50681428
2300002M23Rik	69542	RIKEN cDNA 2300002M23 gene	158.690009	396.6196319	0.01503863	2.49903244
Nat14	269854	N-acetyltransferase 14	2282.84006	5694.123603	0.00033178	2.494358
Efna2	13637	ephrin A2	330.302016	821.6538964	0.00213702	2.48756764
Bst2	69550	bone marrow stromal cell antigen 2	123.697351	307.6723078	0.01208932	2.48674714
Polr3d	67065	polymerase (RNA) III (DNA directed) polypeptide D	105.75774	262.4999494	0.01095343	2.48144069
Dynll2	68097	dynein light chain LC8-type 2	112.823256	279.7412323	0.0269138	2.47868185
Fgf8	14179	fibroblast growth factor 8	163.442172	404.4308205	0.02113789	2.4734323

Fam131a	78408	family with sequence similarity 131, member A	90.6623797	224.0075808	0.01347415	2.4715041
Pdap1	231887	PDGFA associated protein 1	138.183008	341.2322411	0.031769	2.46901692
Ing2	69260	inhibitor of growth family, member 2	119.682429	294.5561321	0.0044308	2.46106028
Rps2	16898	ribosomal protein S2	894.556208	2201.477628	0.00119322	2.46083896
Smn1	20595	survival motor neuron 1	735.245085	1807.447868	0.0012328	2.45824988
Agpat1	55979	1-acylglycerol-3-phosphate O-acyltransferase 1 (lysophosphatidic acid acyltr	146.055241	357.7725041	0.00970301	2.44969651
2310061I04Rik	69662	RIKEN cDNA 2310061I04 gene	979.669038	2395.863958	0.00031137	2.44553438
Mier2	70427	MIER family member 2	1167.37805	2853.95206	0.00163851	2.4447365
Zrsr2	22184	zinc finger (CCCH type), RNA binding motif and serine/arginine rich 2	134.865925	329.8015941	0.01115609	2.44436113
Smim11	68936	small integral membrane protein 11	75.7235899	184.9697787	0.04868377	2.4410486
Asna1	56495	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)	191.606771	467.4032397	0.01262708	2.43898016
Ppp4c	56420	protein phosphatase 4, catalytic subunit	2273.46944	5543.866849	0.00029169	2.4384633
Zfp523	224656	zinc finger protein 523	70.1543389	170.65598	0.01614212	2.433115
Csnk1g2	103236	casein kinase 1, gamma 2	86.5976839	210.6652449	0.01811889	2.43225462
Siah2	20439	siah E3 ubiquitin protein ligase 2	3792.57627	9221.135646	0.00071046	2.43136517
Ybx3	56449	Y box protein 3	1580.08968	3836.259769	0.0005818	2.42790383
Trpv2	22368	transient receptor potential cation channel, subfamily V, member 2	88.6341767	214.759364	0.03428501	2.42122701
Zc3h7b	20286	zinc finger CCCH type containing 7B	52.1359229	126.2332729	0.02651141	2.4209281
Tnks1bp1	228140	tankyrase 1 binding protein 1	525.236241	1266.936995	0.00130315	2.41196566
Dtx2	74198	deltex 2, E3 ubiquitin ligase	4088.77524	9832.318475	0.00745287	2.40469681
Abhd16a	193742	abhydrolase domain containing 16A	838.778649	2016.742608	0.00085449	2.40430666
Taok2	381921	TAO kinase 2	151.890981	364.7764142	0.00379193	2.4014599
Paqr6	68957	progestin and adipoQ receptor family member VI	378.411605	907.1548924	0.00493864	2.39698864
Thra	21833	thyroid hormone receptor alpha	130.350178	312.3075117	0.01096661	2.39610115
Anp32b	67628	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	5783.34421	13851.31895	0.0002402	2.39503887
Rplp2	67186	ribosomal protein, large P2	261.595209	626.4958239	0.02532438	2.39468197
Coq7	12850	demethyl-Q 7	715.877644	1712.672364	0.00222513	2.39217902
Rab3a	19339	RAB3A, member RAS oncogene family	80.9786591	193.5437641	0.02073111	2.38948598
Pebp1	23980	phosphatidylethanolamine binding protein 1	1870.81274	4469.644099	0.00167068	2.3890619
Pycr2	69051	pyrroline-5-carboxylate reductase family, member 2	52.5589826	125.2618599	0.03416943	2.38297263
Samd1	666704	sterile alpha motif domain containing 1	130.674731	310.6929548	0.01301845	2.37750413
Unk	217331	unkempt family zinc finger	289.551382	686.5494067	0.00495889	2.37094004
Btbd2	208198	BTB (POZ) domain containing 2	146.074943	346.275433	0.0049589	2.37032472
Gli3	14634	GLI-Kruppel family member GLI3	714.796148	1686.675417	0.01114878	2.3594759
Fa2h	338521	fatty acid 2-hydroxylase	487.622257	1149.796402	0.01547198	2.35780615
Egr1	13653	early growth response 1	127.948689	300.9433883	0.00914262	2.35242058
Cfl1	12631	cofilin 1, non-muscle	10446.1888	24432.88965	0.00824213	2.33890791
Tmem63b	224807	transmembrane protein 63b	242.81881	566.614725	0.00563302	2.33362731
Ube3b	117146	ubiquitin protein ligase E3B	85.8303701	199.9000324	0.01540585	2.32859914

Fam69b	56279	family with sequence similarity 69, member B	227.133448	527.8119794	0.0037988	2.32416783
Cenpv	73139	centromere protein V	954.853676	2218.909486	0.00116072	2.3238563
Lsm2	27756	LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated	307.252495	713.6422654	0.02219698	2.32203299
Zfp598	213753	zinc finger protein 598	170.459996	395.2268864	0.00820037	2.3185072
Tsc22d4	78829	TSC22 domain family, member 4	157.340983	364.692098	0.03765874	2.31695611
Rad23b	19359	RAD23 homolog B, nucleotide excision repair protein	161.072837	372.4899918	0.01106966	2.31265917
Smim12	80284	small integral membrane protein 12	100.531703	232.0893118	0.02585842	2.30736805
Gnai2	14678	guanine nucleotide binding protein (G protein), alpha inhibiting 2	1067.99836	2462.29595	0.00168969	2.30552233
Tmem201	230917	transmembrane protein 201	529.869156	1215.776223	0.0129019	2.2944065
Wiz	22404	widely-interspaced zinc finger motifs	72.6242623	166.3800331	0.03164295	2.29140082
Gata4	14463	GATA binding protein 4	266.544386	609.7068615	0.00359922	2.28716784
Samd4b	233033	sterile alpha motif domain containing 4B	266.288268	608.8507526	0.00360783	2.28614945
Psmd3	22123	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3	1201.87301	2744.015346	0.0019102	2.28316641
Tmem14c	66154	transmembrane protein 14C	3027.80098	6907.323896	0.00437173	2.28126956
Dbt	13171	dihydrolipoamide branched chain transacylase E2	3017.1342	6870.13106	0.00899814	2.27696618
Zbtb45	232879	zinc finger and BTB domain containing 45	77.7808246	176.8214744	0.03377208	2.27390079
Kdm6b	216850	KDM1 lysine (K)-specific demethylase 6B	2167.78527	4925.80841	0.01663392	2.27217129
Zbtb18	30928	zinc finger and BTB domain containing 18	384.918233	873.5287835	0.02551823	2.26916445
Tfpt	69714	TCF3 (E2A) fusion partner	86.7158923	196.8084137	0.0229672	2.26875039
Max	17187	Max protein	922.134933	2091.868637	0.0072476	2.26835383
Tfap2e	332937	transcription factor AP-2, epsilon	79.3351536	180.028447	0.03168485	2.26818652
Rhof	23912	ras homolog family member F (in filopodia)	78.0068704	176.302531	0.02561387	2.25943624
Brf2	66653	BRF2, RNA polymerase III transcription initiation factor 50kDa subunit	758.166026	1710.711944	0.00704304	2.25629015
Scyl1	78891	SCY1-like 1 (S. cerevisiae)	64.2200918	144.712063	0.0366122	2.25239861
Mgat4b	103534	mannoside acetylglucosaminyltransferase 4, isoenzyme B	218.63077	491.9056305	0.00639123	2.25020975
Actn4	60595	actinin alpha 4	1248.11097	2805.554936	0.00674653	2.24784391
Strn4	97387	striatin, calmodulin binding protein 4	67.2115819	151.1259585	0.03713541	2.24759276
Hsf1	15499	heat shock factor 1	674.192755	1514.018288	0.0128815	2.24565377
Ubl4a	27643	ubiquitin-like 4A	113.128108	254.1121902	0.0251303	2.24529913
Avpi1	69534	arginine vasopressin-induced 1	269.150138	603.443756	0.02186238	2.24137009
Jag2	16450	jagged 2	170.264022	381.2635976	0.0079685	2.2396277
Wnk2	75607	WNK lysine deficient protein kinase 2	261.732078	583.9802581	0.0049941	2.23089027
Kctd13	233877	potassium channel tetramerisation domain containing 13	716.413744	1596.738241	0.00485421	2.22896829
Lamtor1	66508	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1	277.898563	619.0127552	0.01975648	2.22688164
Pdcd7	50996	programmed cell death 7	1262.86311	2812.204485	0.00139078	2.2267824
1810041L15Rik	72301	shisa like 1	75.2020232	167.5333236	0.04313891	2.22635743
Dda1	66498	DET1 and DDB1 associated 1	355.188934	790.4049923	0.00533659	2.22524128
Aspscr1	68938	alveolar soft part sarcoma chromosome region, candidate 1 (human)	139.737337	310.3602375	0.01212115	2.22053425
Gm5475	432982	predicted gene 5475	93.0337962	206.446975	0.02646341	2.21928328

Ssbp3	72475	single-stranded DNA binding protein 3	254.460217	564.1397105	0.00453654	2.21691408
Aunip	69885	aurora kinase A and ninein interacting protein	518.062887	1148.479325	0.0028237	2.21678821
Mospd3	68929	motile sperm domain containing 3	96.5074502	213.8189887	0.02016576	2.21534146
Kmt2b	75410	lysine (K)-specific methyltransferase 2B	212.883166	469.7630992	0.00854989	2.20628534
Brd4	57261	bromodomain containing 4	658.017981	1451.409574	0.00952952	2.20587243
Dmrtb1	56296	DMRT-like family B with proline-rich C-terminal, 1	187.493342	413.6435514	0.02903031	2.20580598
Mark2	13728	MAP/microtubule affinity regulating kinase 2	1355.9975	2989.850782	0.00145059	2.20492676
Tob2	57259	transducer of ERBB2, 2	717.145782	1579.785392	0.00719909	2.20271004
Gfra4	14588	glial cell line derived neurotrophic factor family receptor alpha 4	512.87209	1129.499086	0.02727235	2.20205585
Alyref	21681	Aly/REF export factor	166.700151	365.0602514	0.02388822	2.18937975
Dusp23	68440	dual specificity phosphatase 23	91.7252144	200.4145773	0.03019402	2.1849334
Anapc11	66156	anaphase promoting complex subunit 11	727.043097	1581.42224	0.01806704	2.17488828
Adprh	11544	ADP-ribosylarginine hydrolase	99.9707332	217.473933	0.04540263	2.17436598
Ccdc92	215707	coiled-coil domain containing 92	1017.12954	2211.612395	0.01136221	2.17434068
Rnf44	105239	ring finger protein 44	258.543574	562.0638373	0.00731142	2.17368851
Gid8	76425	GID complex subunit 8	284.661309	618.7066772	0.00529863	2.17345695
2310033P09Rik	67862	RIKEN cDNA 2310033P09 gene	119.476084	258.9869486	0.03843512	2.16758035
Ypel3	66090	yippee like 3	179.188719	387.9835711	0.01021232	2.16489747
Ccdc53	67282	WASH complex subunit 3	129.562122	280.1004894	0.03120506	2.16116694
Llgl2	217325	LLGL2 scribble cell polarity complex component	263.790353	569.3737259	0.00844051	2.15882126
Arpc1b	11867	actin related protein 2/3 complex, subunit 1B	4075.14615	8776.531724	0.00214388	2.15368084
Vgll4	232334	vestigial like family member 4	256.91148	549.7284002	0.00775918	2.13999543
Zcchc3	67917	zinc finger, CCHC domain containing 3	1121.02189	2397.66909	0.00253862	2.1388585
Ahdc1	230793	AT hook, DNA binding motif, containing 1	73.87374	157.8414838	0.04533188	2.13595034
Snrnp70	20637	small nuclear ribonucleoprotein 70 (U1)	569.31745	1214.210944	0.03755602	2.13284378
Gm8797	667759	ubiquitin B pseudogene	251.105812	535.4856727	0.01406072	2.13271167
Grb2	14784	growth factor receptor bound protein 2	482.470898	1028.460427	0.01342975	2.13169317
S100a14	66166	S100 calcium binding protein A14	258.828724	550.6376384	0.01573898	2.12724172
R3hdm4	109284	R3H domain containing 4	909.953298	1935.677046	0.01841094	2.12715764
Mrpl2	27398	mitochondrial ribosomal protein L2	153.584261	326.4748691	0.02390432	2.12601146
Pbx2	18515	pre B cell leukemia homeobox 2	100.9164	214.4222483	0.02672198	2.12488869
Snx11	74479	sorting nexin 11	2169.37491	4607.041875	0.00237452	2.12364337
Gm29129		None	126.993692	269.1223119	0.02566314	2.11851429
Slc25a39	68066	solute carrier family 25, member 39	749.081637	1586.722729	0.00383103	2.11818243
Mlf2	30853	myeloid leukemia factor 2	5384.51894	11395.03706	0.00260114	2.11627561
Spint2	20733	serine protease inhibitor, Kunitz type 2	1288.83673	2727.470833	0.00253846	2.11625296
Gps2	56310	G protein pathway suppressor 2	91.617377	193.5881463	0.04625991	2.11391388
Insm1	53626	insulinoma-associated 1	298.230332	630.190553	0.01421045	2.11262669
Ube2u	381534	ubiquitin-conjugating enzyme E2U (putative)	89.786188	189.724735	0.04143745	2.11227554

Fpgs	14287	folylpolyglutamyl synthetase	1466.06256	3096.29194	0.01207778	2.11199029
Crb3	224912	crumbs family member 3	1681.72258	3545.398814	0.00221896	2.10817494
Cldn4	12740	claudin 4	340.425376	717.5499595	0.03999624	2.10741418
Wasf1	83767	WAS protein family, member 1	147.422927	310.3779307	0.0330188	2.10535374
Emx2	13797	empty spiracles homeobox 2	499.345592	1049.706915	0.00437585	2.10208688
Atp5sl	66349	distal membrane arm assembly complex 2	512.4397	1075.238098	0.04400649	2.09812606
Nfkbib	18036	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, l	141.154797	295.8956488	0.02610322	2.09650887
Haus5	71909	HAUS augmin-like complex, subunit 5	105.393785	220.8184009	0.02657825	2.09522842
Lhx2	16870	LIM homeobox protein 2	179.228122	375.18232	0.02271489	2.0933735
2310022B05Rik	69551	RIKEN cDNA 2310022B05 gene	94.7167045	198.1701215	0.03433482	2.09260576
Gm5514	433229	lactate dehydrogenase B pseudogene	2931.6637	6124.943505	0.04605652	2.08919872
Tmem109	68539	transmembrane protein 109	3691.67021	7702.911786	0.01466826	2.08655732
Myeov2	66915	COP9 signalosome subunit 9	471.072115	982.7380872	0.02061976	2.08588789
Zswim7	69747	zinc finger SWIM-type containing 7	555.99414	1158.951904	0.0337515	2.08412075
Ube2z	268470	ubiquitin-conjugating enzyme E2Z	273.295721	568.9567919	0.00839983	2.08191763
Cdc42ep3	260409	CDC42 effector protein (Rho GTPase binding) 3	396.153161	824.7943951	0.02765399	2.08161866
Rbm14	56275	RNA binding motif protein 14	371.711085	773.5540042	0.02644148	2.08106589
Abhd17c	70178	abhydrolase domain containing 17C	239.295382	497.0331884	0.01891159	2.07702695
Tcfl5	277353	transcription factor-like 5 (basic helix-loop-helix)	88.5367103	183.7942971	0.03702991	2.07593474
Rps2-ps13	546298	ribosomal protein S2, pseudogene 13	720.150765	1491.916038	0.007377	2.07156806
Fancg	60534	Fanconi anemia, complementation group G	87.2374589	180.5119543	0.04987848	2.06841008
Ung	22256	uracil DNA glycosylase	529.989445	1095.602087	0.01323659	2.0672877
Vwa2	240675	von Willebrand factor A domain containing 2	138.595697	286.3324576	0.03507301	2.0657204
Orai1	109305	ORAI calcium release-activated calcium modulator 1	182.456029	376.5174382	0.02567757	2.06377081
Eif1	20918	eukaryotic translation initiation factor 1	2992.53351	6170.601531	0.00592303	2.06197843
Fbxl12	30843	F-box and leucine-rich repeat protein 12	192.070274	395.8833749	0.01654343	2.06110464
Mageh1	75625	melanoma antigen, family H, 1	170.764847	351.5582291	0.02616198	2.0585193
Taf10	24075	TATA-box binding protein associated factor 10	649.694697	1336.44751	0.00874197	2.05717957
Fbrsl1	381668	fibrosin-like 1	339.079472	697.1238454	0.04200728	2.05597141
Setd1a	233904	SET domain containing 1A	135.742117	279.0137224	0.0245559	2.05507934
Pin1rt1	241593	protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1, retrogene 1	755.99367	1552.12061	0.03423117	2.05283727
Akr1cl	70861	aldo-keto reductase family 1, member C-like	123.323024	253.1008432	0.03233017	2.05168808
Abcd4	19300	ATP-binding cassette, sub-family D (ALD), member 4	263.916852	541.4692897	0.01176786	2.05141311
Gm8451	667090	predicted gene 8451	141.902409	291.0564757	0.04721708	2.05049573
Bod1	69556	biorientation of chromosomes in cell division 1	4723.97301	9685.665326	0.00591894	2.05035101
Pxmp2	19301	peroxisomal membrane protein 2	816.338831	1673.780754	0.01510243	2.05014302
Ccdc64	75665	BICD family like cargo adaptor 1	95.9568518	196.5333734	0.04681751	2.04892346
Ube2d2a	56550	ubiquitin-conjugating enzyme E2D 2A	776.496543	1588.102031	0.01885138	2.04520022
Iscu	66383	iron-sulfur cluster assembly enzyme	1567.29106	3201.793866	0.00761943	2.04279269

Trp53inp2	68728	transformation related protein 53 inducible nuclear protein 2	963.882048	1968.141515	0.00858513	2.04182175
Rpl13	270106	ribosomal protein L13	154.911503	315.7229513	0.0469201	2.03736798
Prkaca	18747	protein kinase, cAMP dependent, catalytic, alpha	552.937337	1126.327599	0.01785921	2.03702313
Cdt1	67177	chromatin licensing and DNA replication factor 1	539.228324	1097.717894	0.01685853	2.035657
Puf60	67959	poly-U binding splicing factor 60	386.509884	785.7210077	0.02652104	2.03253648
Tpra1	24100	transmembrane protein, adipocyte asscociated 1	1799.82161	3652.771401	0.01978869	2.02947287
Por	18984	P450 (cytochrome) oxidoreductase	222.841666	452.1358703	0.02315056	2.02882876
Fam117a	215512	family with sequence similarity 117, member A	108.690126	220.2506271	0.04082065	2.02624186
Cd164l2	69655	CD164 sialomucin-like 2	735.961585	1487.236353	0.01246425	2.02061098
Fam132a	67389	C1q and tumor necrosis factor related 12	1368.90704	2759.930357	0.00812337	2.01617
3110082I17Rik	73212	RIKEN cDNA 3110082I17 gene	351.55975	708.6699458	0.01350961	2.01597263
Midn	59090	midnolin	135.781519	273.1631028	0.04217033	2.01182367
Acbd6	72482	acyl-Coenzyme A binding domain containing 6	178.933642	359.7641606	0.02149916	2.01085232
Gm38037		None	106.643262	214.1516562	0.04264582	2.00787513
Cherp	27967	calcium homeostasis endoplasmic reticulum protein	311.525616	624.663655	0.02567746	2.00511851
Sh3bp2	24055	SH3-domain binding protein 2	395.290462	791.9751671	0.01916148	2.0036513
Fbxl6	30840	F-box and leucine-rich repeat protein 6	3282.04757	6574.766258	0.00675984	2.00323654
Mysm1	320713	myb-like, SWIRM and MPN domains 1	3867.2184	1931.929138	0.00595682	-2.00169041
Peak1	244895	pseudopodium-enriched atypical kinase 1	8409.69042	4188.660812	0.00978855	-2.00769604
Gm23179		None	251.873126	125.3905085	0.0354316	-2.00872949
Fbxw13	211305	F-box and WD-40 domain protein 13	2205.74972	1097.487385	0.03480184	-2.00990334
Mtmr9	210376	myotubularin related protein 9	548.611355	272.6219683	0.02701259	-2.01191531
Heatr1	217995	HEAT repeat containing 1	1708.91356	847.9083395	0.01799273	-2.01527442
Sycp2l	637277	synaptonemal complex protein 2-like	3701.24519	1832.79772	0.01693695	-2.01943581
Atp2c1	235574	ATPase, Ca++-sequestering	5686.32043	2812.616672	0.00755651	-2.02167262
1700024P16Rik	242594	FYN binding protein 2	2644.06691	1307.646931	0.00472184	-2.02195526
Cdh2	12558	cadherin 2	550.83345	270.9098003	0.02720608	-2.03277719
Lypd6	320343	LY6/PLAUR domain containing 6	228.44203	112.3054202	0.03574036	-2.03359492
Mctp1	78771	multiple C2 domains, transmembrane 1	531.713837	261.3510574	0.02168451	-2.03401881
Txndc2	213272	thioredoxin domain containing 2 (spermatozoa)	1582.4715	777.2135955	0.01918144	-2.03607968
Cse1l	110750	chromosome segregation 1-like (S. cerevisiae)	305.986438	150.1900313	0.0284107	-2.03681472
AC126035.1		None	10187.5233	4999.283253	0.00655844	-2.0377701
Gm44134		None	696.330844	340.588948	0.02108795	-2.04412605
Zfp958	233987	zinc finger protein 958	2723.53072	1332.180509	0.02497978	-2.044406
Smarcal1	54380	SWI/SNF related matrix associated, actin dependent regulator of chromatin,	582.294391	284.212252	0.01155302	-2.04856948
Stil	20460	Scl/Tal1 interrupting locus	296.944573	144.8673012	0.03707436	-2.04930383
Arhgap20	244867	Rho GTPase activating protein 20	763.490571	372.1927107	0.01583406	-2.05099512
4931406P16Rik	233103	RIKEN cDNA 4931406P16 gene	2819.3455	1372.557778	0.01313542	-2.05400175
Fbxo47	72973	F-box protein 47	184.208412	89.64384605	0.04756595	-2.05415407

Lgmn	19141	legumain	291.471748	141.6780716	0.0400106	-2.05648423
Stra6l	74152	STRA6-like	546.899415	265.5338415	0.02927988	-2.05909856
Slc4a10	94229	solute carrier family 4, sodium bicarbonate cotransporter-like, member 10	781.470625	378.8638538	0.03029511	-2.06224445
Ttk	22137	Ttk protein kinase	3770.69545	1826.853987	0.00889855	-2.06403086
Hmg20a	66867	high mobility group 20A	3301.11231	1594.609238	0.00729414	-2.07009396
Hecw1	94253	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	307.768894	148.3315215	0.02570949	-2.07454249
Gm17767	100045066	predicted gene, 17767	407.327979	196.222897	0.02278101	-2.07556458
Zfp442	668923	zinc finger protein 442	477.80687	229.1307402	0.01704202	-2.08491647
Rars	104458	arginyl-tRNA synthetase	2212.29377	1057.087875	0.00942665	-2.09287189
Nlrp9b	243874	NLR family, pyrin domain containing 9B	12333.9876	5888.984544	0.00182794	-2.09441576
Fdft1	14137	farnesyl diphosphate farnesyl transferase 1	1817.6897	867.3497955	0.0047113	-2.0958014
Axdnd1	77352	axonemal dynein light chain domain containing 1	302.495163	143.989051	0.037939	-2.10037598
Gm44133		None	6272.44414	2983.622764	0.01513544	-2.10222985
Hivep2	15273	human immunodeficiency virus type I enhancer binding protein 2	365.180628	173.6855233	0.03004931	-2.10228964
Brip1	237911	BRCA1 interacting protein C-terminal helicase 1	7884.95604	3743.20928	0.00855695	-2.10642623
Strip2	320609	striatin interacting protein 2	352.141461	166.9788446	0.03484955	-2.10815739
Rpl7l1	66229	ribosomal protein L7-like 1	352.039833	166.832453	0.04173898	-2.10952584
Kif16b	16558	kinesin family member 16B	841.276598	398.4959842	0.01786845	-2.11097754
Klhl24	75785	kelch-like 24	954.873377	451.6346698	0.00544743	-2.11409553
E330010L02Rik	414119	RIKEN cDNA E330010L02 gene	450.988175	213.2290238	0.02358879	-2.11455488
Dars	226414	aspartyl-tRNA synthetase	810.99462	383.3394708	0.00971011	-2.11546573
Rlim	19820	ring finger protein, LIM domain interacting	3828.36222	1809.315423	0.00282108	-2.1158834
Utrn	22288	utrophin	879.585299	415.5376466	0.01250369	-2.11669979
Ddx58	230073	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	215.128085	100.7905565	0.03137659	-2.13373934
Gm27013		None	819.537741	384.0225488	0.01359619	-2.13387652
Gm2042	100039087	predicted gene 2042	4578.77634	2143.942896	0.00499679	-2.13563436
mt-Atp8		None	209.489358	98.08928224	0.03924481	-2.13612095
Sfmbt1	54650	Scm-like with four mbt domains 1	9713.9388	4545.36889	0.00526712	-2.13707965
Cc2d2b	668310	coiled-coil and C2 domain containing 2B	276.928027	128.9744811	0.02237898	-2.14675902
Elp3	74195	elongator acetyltransferase complex subunit 3	482.254182	224.3446965	0.01348855	-2.14909623
Ywhah	22629	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein,	799.132369	371.673817	0.04921329	-2.14997448
Aim1	20877	aurora kinase B	621.855691	288.3905879	0.0137785	-2.15584
AW146154	101835	expressed sequence AW146154	1580.64965	733.0702277	0.00758021	-2.15606139
Plce1	74055	phospholipase C, epsilon 1	3149.21304	1454.035726	0.00459722	-2.16580614
Zfp930	234358	zinc finger protein 930	848.066295	390.2946003	0.0314895	-2.17308839
Aasdh	231326	aminoadipate-semialdehyde dehydrogenase	497.4408	228.6738722	0.02276237	-2.174888
Nlrp4e	446099	NLR family, pyrin domain containing 4E	11714.1137	5385.107629	0.01292221	-2.17527924
Arsk	77041	arylsulfatase K	149.135908	68.35287597	0.0446679	-2.18084785
Nfx1	74164	nuclear transcription factor, X-box binding 1	789.474559	361.9243002	0.01262378	-2.18111687

Crbn	58799	cereblon	2903.41412	1328.672006	0.00659942	-2.18528142
Papolg	216578	poly(A) polymerase gamma	924.419289	422.1467143	0.00752372	-2.18975738
Tom1l1	71943	target of myb1-like 1 (chicken)	447.841155	204.2336065	0.01103059	-2.19227256
Hadha	97212	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/e	143.526214	65.45642952	0.04227649	-2.19353044
Txndc16	70561	thioredoxin domain containing 16	1363.00082	620.8979043	0.00494141	-2.19513226
Rab33b	19338	RAB33B, member RAS oncogene family	163.365448	73.96394111	0.02972361	-2.20864089
Vps35	65114	VPS35 retromer complex component	3675.66036	1662.988704	0.00208112	-2.21020212
Recql	19691	RecQ protein-like	226.15979	102.1301229	0.02502325	-2.21427732
Vmn2r51	100042921	vomeronasal 2, receptor 51	556.905607	251.3265998	0.00606787	-2.21593564
Egfr	13649	epidermal growth factor receptor	867.662869	390.6227202	0.00422568	-2.22100416
Blzf1	66352	basic leucine zipper nuclear factor 1	681.485393	306.5412084	0.04564483	-2.22312858
Eya3	14050	EYA transcriptional coactivator and phosphatase 3	669.141984	300.885761	0.01280928	-2.22373559
9130023H24Rik	100043133	RIKEN cDNA 9130023H24 gene	322.516878	144.8673012	0.01731717	-2.22652999
Dstn	56431	destrin	446.398791	200.4811009	0.03086232	-2.22714523
Cysltr2	70086	cysteinyl leukotriene receptor 2	297.040999	133.1661118	0.0364839	-2.2296572
Mat1a	11720	methionine adenosyltransferase I, alpha	265.912901	119.1451461	0.03309474	-2.23208454
Aco1	11428	aconitase 1	305.091585	136.5859996	0.01162125	-2.2332988
Phlpp1	98432	PH domain and leucine rich repeat protein phosphatase 1	151.261577	67.70528385	0.03299557	-2.23398862
Gm15496	102636803	predicted gene 15496	422.708489	188.9928267	0.01048081	-2.23612929
Zfp938	237411	zinc finger protein 938	455.872039	203.5549767	0.00944557	-2.23934582
Il23r	209590	interleukin 23 receptor	326.585736	145.3818462	0.03043939	-2.24624538
Tmem263	103266	transmembrane protein 263	137.572265	61.09176798	0.04823229	-2.25131874
Zfp141	434178	zinc finger protein 141	793.428295	351.4739626	0.00508592	-2.25711563
Abce1	24015	ATP-binding cassette, sub-family E (OABP), member 1	408.113953	180.791393	0.00810193	-2.25759294
Pole	18973	polymerase (DNA directed), epsilon	200.672499	88.81437646	0.04400508	-2.25804289
Prom1	19126	prominin 1	730.927393	322.7533018	0.00902246	-2.26420928
Gm5581	434094	predicted gene 5581	546.947108	241.3375286	0.01645299	-2.26563728
Mcc	328949	mutated in colorectal cancers	3272.91244	1441.354178	0.00157805	-2.27063703
Fem1b	14155	feminization 1 homolog b (C. elegans)	506.83729	223.178161	0.00819957	-2.27093069
Wdr7	104082	WD repeat domain 7	122.68429	53.9548605	0.04755742	-2.27267858
Gm10436	100039315	predicted gene 10436	15415.8046	6781.013513	0.00281034	-2.2733557
Gm11545	217122	predicted gene 11545	3628.19169	1585.884214	0.02542065	-2.28769214
Ttc37	218343	tetratricopeptide repeat domain 37	1346.45172	588.007804	0.00682144	-2.28977807
Zfp182	319535	zinc finger protein 182	941.338589	410.8447657	0.01292619	-2.29115751
Zfp110	65020	zinc finger protein 110	345.489674	150.1944795	0.0208339	-2.29976883
Ttc27	74196	tetratricopeptide repeat domain 27	593.003624	256.8932828	0.00837995	-2.30803793
Fam45a	67894	family with sequence similarity 45, member A	1095.05764	473.7551095	0.00357007	-2.31126534
BC022960	237246	cDNA sequence BC022960	458.233085	198.2499895	0.0063599	-2.31155693
Med23	70208	mediator complex subunit 23	631.656579	273.0832845	0.00442868	-2.31272164

Qrich1	69232	glutamine-rich 1	171.099771	73.89296939	0.02063574	-2.31550765
Zfp260	26466	zinc finger protein 260	999.224163	431.2795772	0.00418403	-2.3165496
Aco2	11429	aconitase 2, mitochondrial	223.491812	96.33718025	0.03269359	-2.31866707
Bicc1	83675	BicC family RNA binding protein 1	2524.932	1086.442386	0.02175244	-2.32385162
Zfp563	240068	zinc finger protein 563	618.500245	265.3342708	0.00514973	-2.3308049
Ankrd27	245886	ankyrin repeat domain 27 (VPS9 domain)	1291.40103	553.4410215	0.00380992	-2.3333234
Clcn6	26372	chloride channel, voltage-sensitive 6	185.606171	79.32215707	0.03121817	-2.33850988
Gm7145	634762	predicted gene 7145	2718.43218	1159.829657	0.02552009	-2.34364517
Tecr	106529	trans-2,3-enoyl-CoA reductase	1036.62872	441.4726175	0.02385559	-2.34773238
Fastkd2	75619	FAST kinase domains 2	319.785668	136.1291315	0.02054397	-2.34852388
Sytl2	83671	synaptotagmin-like 2	1840.13889	783.2104078	0.00355591	-2.34927414
Hyal5	74468	hyaluronoglucosaminidase 5	212.658161	90.36240989	0.02396385	-2.35210335
Tgfbr1	21812	transforming growth factor, beta receptor I	235.764705	100.1074785	0.0190343	-2.35472465
Zfp709	236193	zinc finger protein 709	240.644407	102.0458564	0.01588498	-2.35905356
Rex2	100043034	reduced expression 2	555.627098	233.3888945	0.01608468	-2.37991973
Gm20997	100504950	predicted gene, 20997	386.386507	162.157315	0.01692375	-2.38178479
Synrg	217030	synergin, gamma	929.055325	388.2230758	0.00411226	-2.39285945
Htra4	330723	HtrA serine peptidase 4	111.317661	46.43205671	0.03558496	-2.39786344
Antxr2	71914	anthrax toxin receptor 2	278.816239	116.102308	0.00775942	-2.40087254
AC163611.2		None	2672.19419	1109.45447	0.00419195	-2.40839049
Gsap	212167	gamma-secretase activating protein	148.280458	61.34016901	0.03109684	-2.41653501
Gpr158	241263	G protein-coupled receptor 158	192.445641	79.548367	0.03942636	-2.4174611
Wdr19	213081	WD repeat domain 19	430.208477	177.4602199	0.01004753	-2.42365055
Lypla1	18777	lysophospholipase 1	1578.13512	649.9866191	0.00133345	-2.42772263
Scel	64929	sciellin	1119.40225	460.5281772	0.00456831	-2.43092347
Tuba4a	22145	tubulin, alpha 4A	442.967661	182.1708438	0.00360439	-2.43135794
Zfp729b	100416706	zinc finger protein 729b	1433.54815	588.7573558	0.00174206	-2.43462763
Gnptab	432486	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	513.872734	210.2837967	0.00308753	-2.44326167
Ints10	70885	integrator complex subunit 10	165.944249	67.878265	0.0226491	-2.44341889
Inpp4a	269180	inositol polyphosphate-4-phosphatase, type I	627.70593	256.7158037	0.01365445	-2.44460282
Hsd17b13	243168	hydroxysteroid (17-beta) dehydrogenase 13	419.314681	170.993046	0.04179139	-2.45117321
Tsc1	64930	tuberous sclerosis 1	562.034178	228.9222732	0.00361543	-2.45480317
Tmeff2	56363	transmembrane protein with EGF-like and two follistatin-like domains 2	122.300633	49.73659056	0.03122497	-2.45817007
Zfp813-ps	636910	zinc finger protein 813, pseudogene	4699.22504	1907.603779	0.01673442	-2.46330491
Mrgprb13	620137	MAS-related GPR, member B13	666.553852	268.6964319	0.00848143	-2.48006235
Eef1a1	13627	eukaryotic translation elongation factor 1 alpha 1	1884.75613	758.7702415	0.00027875	-2.48400585
Ppp6r3	52036	protein phosphatase 6, regulatory subunit 3	1005.69555	403.8941341	0.00303998	-2.4898697
Gm18830	100417793	neuroepithelial cell transforming gene 1 pseudogene	112.469672	45.07919552	0.03364471	-2.49524348
Vps8	209018	VPS8 CORVET complex subunit	435.53094	174.213363	0.00314618	-2.49991404

Hspa8	15481	heat shock protein 8	1633.05202	650.6697965	0.00031468	-2.50990102
Oog2	381570	oogenesin 2	1958.36546	776.9872861	0.00024434	-2.52039063
Gm13225	100125275	vomeronasal receptor Vmn2r-ps14	951.615398	377.2892309	0.00205215	-2.52180706
Dnah11	13411	dynein, axonemal, heavy chain 11	947.212692	375.3730938	0.00365492	-2.52316187
Gm6600	625558	predicted gene 6600	1274.54084	504.9241456	0.00187804	-2.52386889
Nlrp4f	97895	NLR family, pyrin domain containing 4F	57542.5401	22796.52929	0.00195145	-2.52417792
Nlrp4g	235779	NLR family, pyrin domain containing 4G	60007.5415	23666.73979	0.00095852	-2.5355199
Zfp932	69504	zinc finger protein 932	542.482175	213.3000453	0.00741278	-2.54324395
Scai	320271	suppressor of cancer cell invasion	402.22015	157.3979105	0.00444375	-2.55459542
B020011L13Rik	547097	RIKEN cDNA B020011L13 gene	1517.95794	592.8247362	0.00453892	-2.56020604
RP23-134A10.9		None	1529.45835	592.0396488	0.00477718	-2.58301109
RP23-134A10.15		None	597.512122	231.0114412	0.00672386	-2.58600264
Ptpn12	19248	protein tyrosine phosphatase, non-receptor type 12	129.110031	49.70555286	0.03193834	-2.59935841
Rpa2	19891	replication protein A2	186.174389	71.15176116	0.01919519	-2.61761194
Dgkh	380921	diacylglycerol kinase, eta	164.901116	62.93698306	0.01843761	-2.61826498
Gm12633	619842	zinc finger protein 352 pseudogene	319.387478	121.8863543	0.0059606	-2.62023989
Zfp964	636741	zinc finger protein 964	132.839803	50.43741147	0.0230622	-2.63178512
Rtcb	28088	RNA 2',3'-cyclic phosphate and 5'-OH ligase	141.715767	53.71090763	0.01230297	-2.63882577
Zfp111	56707	zinc finger protein 111	226.632623	85.7316541	0.01978959	-2.64433978
Stat4	20849	signal transducer and activator of transcription 4	414.867369	156.1293656	0.01176017	-2.65750203
Gpr1	241070	G protein-coupled receptor 1	552.317264	207.1655388	0.00203909	-2.6655006
Lrch1	380916	leucine-rich repeats and calponin homology (CH) domain containing 1	764.300409	286.4610566	0.00689888	-2.66734216
Anxa6	11749	annexin A6	162.234178	60.77684338	0.01074887	-2.66835925
Zfp936	668620	zinc finger protein 936	281.946679	105.5189232	0.00422459	-2.67103743
Tug1	544752	taurine upregulated gene 1	1438.46001	537.3574276	0.00059277	-2.67668381
Cttnbp2	30785	cortactin binding protein 2	598.50236	223.0627573	0.01588104	-2.68222417
C87414	381654	expressed sequence C87414	3523.10886	1304.080652	0.00010976	-2.70150041
Gm33962	102637056	predicted gene, 33962	10916.3635	4028.166387	0.00153625	-2.7099507
Zfp97	22759	zinc finger protein 97	985.074504	358.6330114	0.01352958	-2.7462519
Cnot1	234594	CCR4-NOT transcription complex, subunit 1	2287.82139	830.88442	0.00045314	-2.75324491
Nono	53610	non-POU-domain-containing, octamer binding protein	426.350125	154.6434075	0.00170985	-2.7566226
Gm13152	195531	zinc finger protein 982	4669.63674	1691.083715	0.00112407	-2.76119018
Zfp960	449000	zinc finger protein 960	1973.37067	706.6649449	0.00232238	-2.79226694
Osbpl9	100273	oxysterol binding protein-like 9	1158.23772	414.0872242	0.0016712	-2.79718618
Zfp729a	212281	zinc finger protein 729a	143.47748	51.1781664	0.00834747	-2.80290296
Cd200	17470	CD200 antigen	1112.61772	396.4643937	0.00097136	-2.80586688
Zfp738	408068	zinc finger protein 738	1145.69109	407.8551067	0.00129288	-2.8087191
Eif2s3x	26905	eukaryotic translation initiation factor 2, subunit 3, structural gene X-linked	282.143693	98.29330109	0.0025876	-2.86932511
Fanci	208836	Fanconi anemia, complementation group I	418.30058	144.5878625	0.00126476	-2.89276026

Gm4319	100043255	predicted gene 4319	133.814502	45.7933112	0.04499303	-2.91886697
Pot1b	72836	protection of telomeres 1B	144.31531	49.01802672	0.02521684	-2.94411142
Zfp870	240066	zinc finger protein 870	216.04472	73.38732072	0.01473542	-2.94422122
Arg2	11847	arginase type II	385.916761	130.6200758	0.02284348	-2.95437267
1700030K09Rik	72254	RIKEN cDNA 1700030K09 gene	444.260704	150.2299654	0.00111155	-2.95671479
Zfp846	244721	zinc finger protein 846	246.737306	82.64888202	0.00350334	-2.98474119
Tubgcp3	259279	tubulin, gamma complex associated protein 3	236.766354	79.19795655	0.00410729	-2.9880828
Zfp759	268670	zinc finger protein 759	458.57009	153.0687846	0.00337472	-2.99615686
Thnsl1	208967	threonine synthase-like 1 (bacterial)	406.658131	135.6767117	0.00058971	-2.99749859
Ddx60	234311	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60	272.214225	90.64184862	0.00461698	-3.00125668
Zfp433	73610	zinc finger protein 433	204.462416	67.86941839	0.02893111	-3.01355436
Gabrp	216643	gamma-aminobutyric acid (GABA) A receptor, pi	1839.721	609.6400893	0.00820883	-3.0173354
Zfp420	233058	zinc finger protein 420	682.438309	224.5398688	0.00186818	-3.0386377
Zfp933	242747	zinc finger protein 933	380.346504	125.0356499	0.00441262	-3.04117712
Zfp184	193452	zinc finger protein 184 (Kruppel-like)	501.229677	164.5348677	0.00354654	-3.04686095
Sf3b3	101943	splicing factor 3b, subunit 3	841.87593	275.0172143	0.00028064	-3.06074599
Ascc2	75452	activating signal cointegrator 1 complex subunit 2	171.720885	56.08396248	0.00415195	-3.06133603
6720489N17Rik	211378	RIKEN cDNA 6720489N17 gene	837.401667	272.54215	0.00164537	-3.07225165
Dmrtc1b	632708	DMRT-like family C1b	223.767631	71.63521873	0.01244435	-3.12124549
Gm5141	380850	predicted gene 5141	630.144775	201.4125799	0.00174096	-3.12844915
Col4a3	12828	collagen, type IV, alpha 3	170.912087	53.61774481	0.01091329	-3.18555637
Hint1	15254	histidine triad nucleotide binding protein 1	172.577375	54.01253745	0.00770802	-3.19637892
Orc3	50793	origin recognition complex, subunit 3	1320.22202	411.5278934	0.00303971	-3.20823018
Chst9	71367	carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9	139.069571	42.56864539	0.0227584	-3.2695827
Gm13084	381569	predicted gene 13084	4248.30738	1283.996201	0.0000204	-3.30854281
Mfsd4	213006	major facilitator superfamily domain containing 4A	199.462424	60.12925127	0.00327002	-3.31745292
Zfp600	667666	zinc finger protein 600	292.024428	87.33731476	0.00245139	-3.34148992
E330012B07Rik	100039641	RIKEN cDNA E330012B07 gene	134.758088	40.17784761	0.0222886	-3.35803781
Gm6981	629557	glyceraldehyde-3-phosphate dehydrogenase pseudogene	141.619341	41.40206012	0.02218634	-3.41830012
2410141K09Rik	76803	RIKEN cDNA 2410141K09 gene	611.890983	178.5735764	0.00146918	-3.42627881
Plek	56193	pleckstrin	353.162812	102.7910098	0.00036104	-3.43405207
Psen1	19164	presenilin 1	1194.67583	346.7145581	0.0000228	-3.44541858
Arid5b	71371	AT rich interactive domain 5B (MRF1-like)	614.858609	175.1226012	0.00387066	-3.50958227
Gm10324	628709	predicted gene 10324	520.251823	147.7415566	0.00109553	-3.5198322
Pls3	102866	plastin 3 (T-isoform)	199.13475	55.83556145	0.00181838	-3.56577374
Gm10033	378466	predicted gene 10033	668.039747	185.8612739	0.00013692	-3.59333564
Zfp951	626391	zinc finger protein 951	3589.8446	954.5274736	0.0000461	-3.76090298
BC055324	381306	cDNA sequence BC055324	345.960427	88.52164296	0.0000306	-3.90813803
Gm10772	105245577	predicted gene 10772	275.97407	63.81968144	0.0000777	-4.32364018

Fth1	14319	ferritin heavy polypeptide 1	1556.01992	359.3605213	0.00023987	-4.32979223
Zfp788	67607	zinc finger protein 788	228.089486	49.72329579	0.00075815	-4.5898585
Btla	208154	B and T lymphocyte associated	844.05446	180.9421334	0.0001703	-4.66300443
Tmem241	338363	transmembrane protein 241	148.034711	25.68666932	0.00015603	-5.76403636
Gm15668		None	420.516466	61.98331296	0.00012973	-6.77804964
Gm13089	277667	predicted gene 13089	264.402137	29.14644139	0.00000701	-9.05647504
Plp1	18823	proteolipid protein (myelin) 1	335.416088	18.19490323	0.02169305	-18.4282635
Gm13493	606530	peptidylprolyl isomerase A (Ppia) pseudogene 2_635.1	432.269874	18.54976184	0.01316167	-23.3098538
Stmn3	20262	stathmin-like 3	549.475129	14.97908402	0.01163093	-36.6815471
Snap25	20614	synaptosomal-associated protein 25	1074.82028	25.10560077	0.0062234	-42.8102827
Stmn2	20257	stathmin-like 2	311.798349	4.852567282	0.00678491	-64.2722537
Nefm	18040	neurofilament, medium polypeptide	4355.42473	66.6318614	0.00539426	-65.3643141
Gm14046	545463	peptidylprolyl isomerase A (Ppia) pseudogene 2_1620.1	233.12059	3.35776265	0.01774364	-69.378416
Prph	19132	peripherin	200.684951	2.40854071	0.00277557	-83.2698274
Nefl	18039	neurofilament, light polypeptide	3944.08596	40.10242772	0.00243358	-98.3484736
Aldoc	11676	aldolase C, fructose-bisphosphate	197.11279	0.96696487	3.85E-07	-203.853833
Kif1a	16560	kinesin family member 1A	155.849921	0.47461097	0.00369142	-323.735087