Figure S1. Hierarchical clustering analysis. Figs. S1-S6 represent the genes that were often aberrantly expressed in comparison I, II, III, IV, V and VI, respectively.

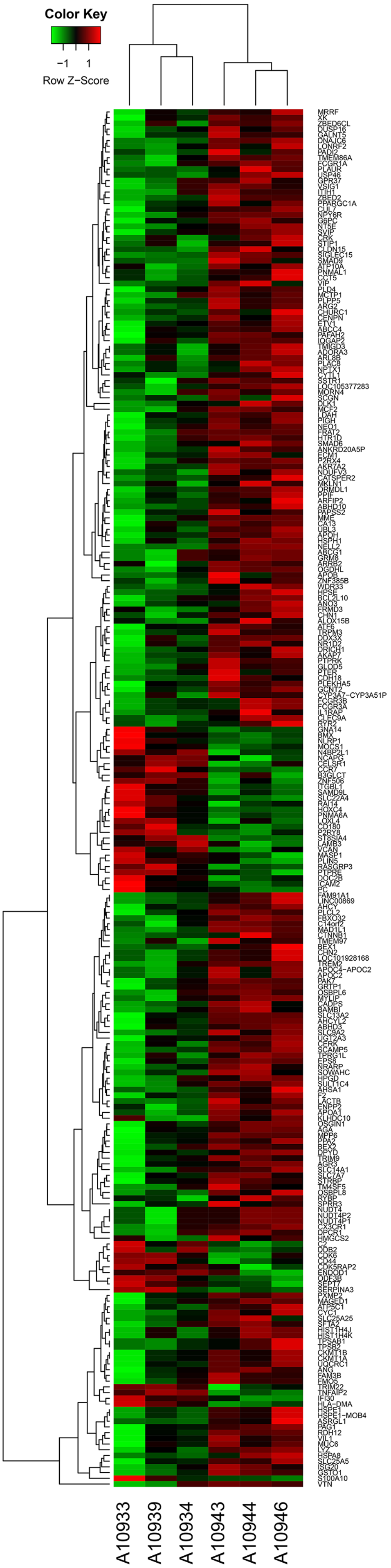

Figure S2. Hierarchical clustering analysis. Figs. S1-S6 represent the genes that were often aberrantly expressed in comparison I, II, III, IV, V and VI, respectively.

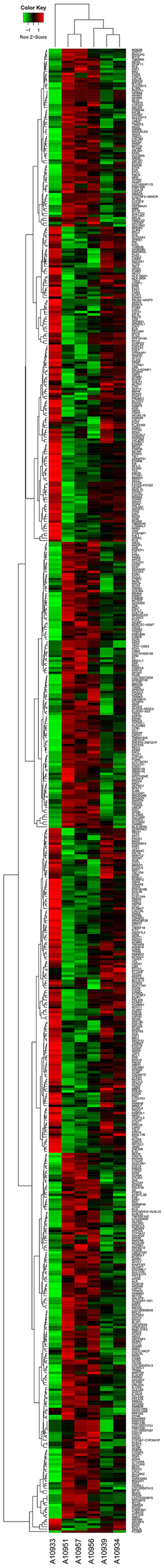

Figure S3. Hierarchical clustering analysis. Figs. S1-S6 represent the genes that were often aberrantly expressed in comparison I, II, III, IV, V and VI, respectively.

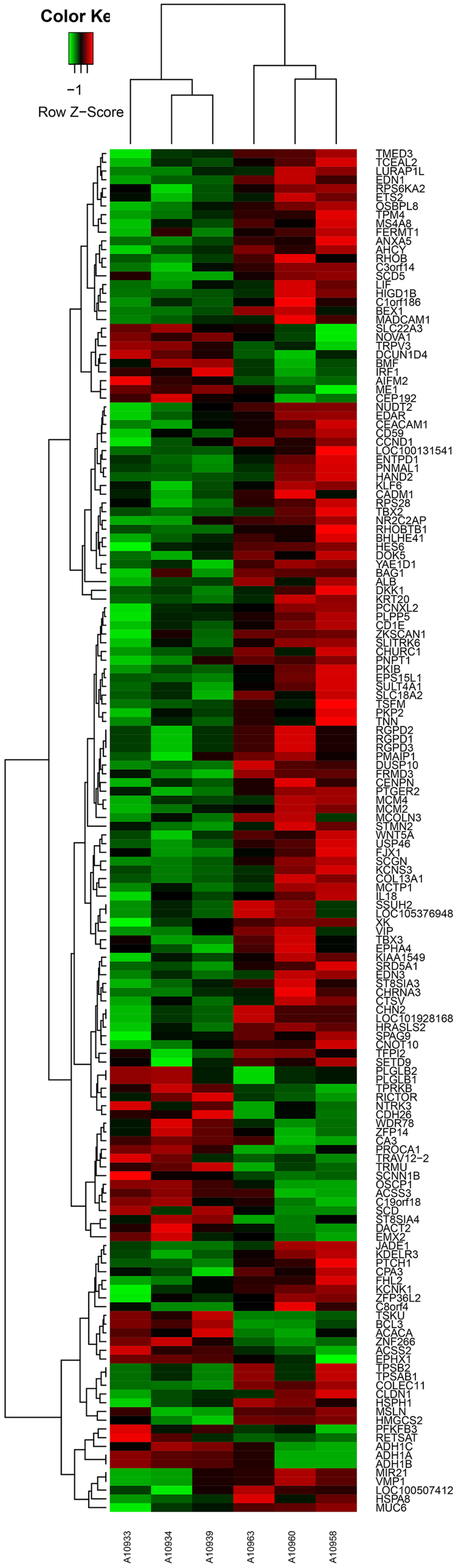

Figure S4. Hierarchical clustering analysis. Figs. S1-S6 represent the genes that were often aberrantly expressed in comparison I, II, III, IV, V and VI, respectively.

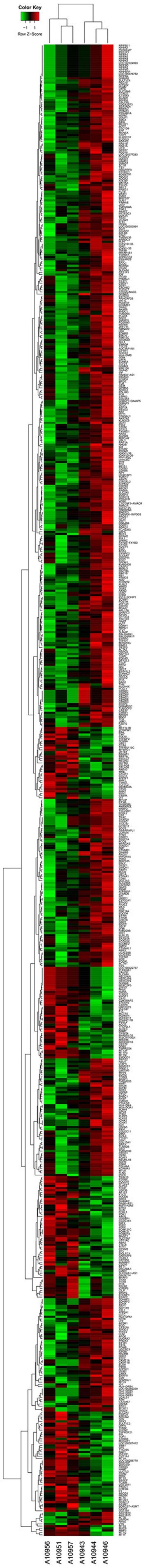

Figure S5. Hierarchical clustering analysis. Figs. S1-S6 represent the genes that were often aberrantly expressed in comparison I, II, III, IV, V and VI, respectively.

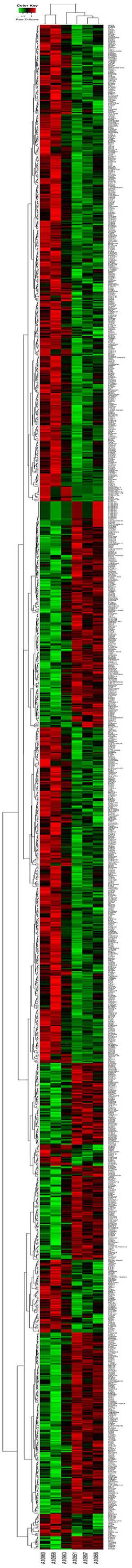

Figure S6. Hierarchical clustering analysis. Figs. S1-S6 represent the genes that were often aberrantly expressed in comparison I, II, III, IV, V and VI, respectively.

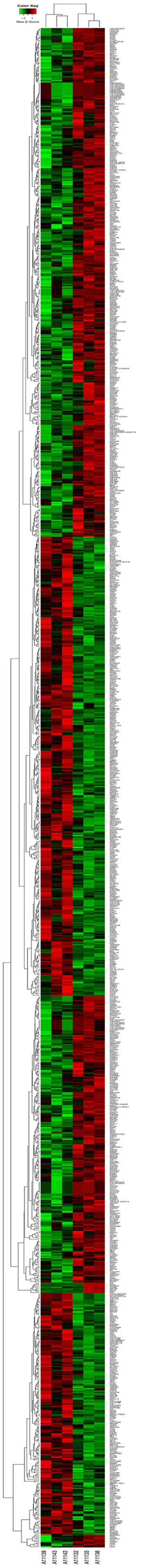

Table SI. DEGs in comparison I.

Entrez accession no.	Gene symbol	Gene name	Gallbladder wall of gallstone (A10933)	Gallbladder wall of gallstone (A10934)	Gallbladder wall of gallstone (A10939)	Gallbladder wall of cholesterol polyps (A10943)	Gallbladder wall of cholesterol polyps (A10944)	Gallbladder wall of cholesterol polyps (A10946)	Fold-change	Log Fold-change	Absolute Fold-change	Regulation	P-value	False discovery rate
64151	NCAPG	Non-SMC condensin I complex subunit	3.98958	4.26032	4.35235	3.91397	3.23455	3.69121	-1.502647556	-0.587506667	1.502647556	Down	0.021845186	0.984543317

		G												
9630	GNA14	Guanine nucleotide binding protein (G protein), α14	5.48101	4.1776	4.56219	3.70162	4.02551	4.0137	-1.773570485	-0.826656667	1.773570485	Down	0.041533501	0.984543317
27068	PPA2	Pyrophosphatase (inorganic) 2	6.87149	7.79937	7.69584	8.15868	7.96014	8.44246	1.6603952	0.731526667	1.6603952	Up	0.038965051	0.984543317
3697	ITIH1	Inter-α-trypsin inhibitor heavy chain 1	4.53139	5.76317	4.63167	6.39866	5.80243	5.77947	2.025264027	1.01811	2.025264027	Up	0.029325951	0.984543317
7448	VTN	Vitronectin	11.4524	12.84722	11.70368	13.05095	12.97801	12.83856	1.938230298	0.95474	1.938230298	Up	0.03310537	0.984543317
80150	ASRGL1	Asparaginase like 1	9.17727	9.19058	9.22682	9.62751	9.53403	10.22636	1.513347533	0.597743333	1.513347533	Up	0.026078823	0.984543317
3776	CA13	Carbonic	4.37	5.47	6.05	6.59	6.21	6.49	2.2015	1.1385	2.2015	Up	0.0305	0.9845

77		anhydrase XIII	102	31	167	903	408	821	35335	1	35335		87898	43317
55347	ABHD10	Abhydrolase domain containing 10	5.2903	5.60036	5.43964	6.13952	5.97675	6.56334	1.720828512	0.783103333	1.720828512	Up	0.006108075	0.984543317
9358	ITGBL1	Integrin β like 1	6.45273	5.51838	5.40511	4.6281	5.05948	4.75452	-1.969787499	-0.97804	1.969787499	Down	0.015446112	0.984543317
23228	PLCL2	Phospholipase C like 2	6.03216	6.81048	6.57182	7.25358	7.14245	7.01926	1.587705498	0.666943333	1.587705498	Up	0.023574432	0.984543317
10346	TRIM22	Tripartite motif containing 22	9.67375	9.50515	9.73607	8.58859	9.15816	9.28216	-1.546156835	-0.628686667	1.546156835	Down	0.023400589	0.984543317
4091	SMAD6	SMAD family member 6	5.88517	6.52234	6.11404	6.46369	7.10056	6.83611	1.543569027	0.62627	1.543569027	Up	0.037955667	0.984543317
164832	LONRF2	LON peptidase N-terminal domain and ring finger 2	4.93314	5.30109	4.84206	5.66957	5.27128	5.90789	1.506099064	0.590816667	1.506099064	Up	0.030842476	0.984543317
1001	BCL2	BCL2-like 10	4.10	4.94	4.55	4.95	5.33	5.32	1.5916	0.6705	1.5916	Up	0.0273	0.9845

7	L10	(apoptosis facilitator)	962	207	308	373	757	503	46552	2	46552		95614	43317
114088	TRIM9	Tripartite motif containing 9	5.87481	7.73926	7.30811	8.63477	8.2845	7.88319	2.45109545	1.293426667	2.45109545	Up	0.035236245	0.984543317
27346	TMEM97	Transmembrane protein 97	6.5145	6.38591	7.12804	7.69569	7.07018	7.22122	1.572303798	0.65288	1.572303798	Up	0.045481147	0.984543317
660	BMX	BMX non-receptor tyrosine kinase	5.58865	4.34559	4.30003	3.95468	3.72769	4.00267	-1.802180275	-0.849743333	1.802180275	Down	0.047510021	0.984543317
54097	FAM3B	Family with sequence similarity 3 member B	7.61672	8.98351	8.63249	9.8382	9.16225	9.11514	1.946600279	0.960956667	1.946600279	Up	0.04508553	0.984543317
90634	N4BP2L1	NEDD4 binding protein 2-like 1	4.53763	4.49816	4.20277	3.54376	3.96122	3.9362	-1.514799307	-0.599126667	1.514799307	Down	0.008247316	0.984543317
60526	LDAH	Lipid droplet associated	5.7339	6.41746	6.50732	6.90232	6.74859	7.04107	1.599661516	0.677766667	1.599661516	Up	0.027049558	0.984543317

		hydrolase												
3914	LAMB3	Laminin subunit β 3	5.30498	6.21147	5.45485	5.22555	3.99354	4.39302	-2.173062999	-1.11973	2.173062999	Down	0.022084184	0.984543317
114882	OSBPL8	Oxysterol binding protein like 8	7.38312	7.53895	7.84777	8.6702	8.17635	9.08359	2.075463173	1.053433333	2.075463173	Up	0.005952566	0.984543317
344	APOC2	Apolipoprotein C-II	6.06565	6.58253	5.60903	7.88934	6.60426	7.64836	2.453628223	1.294916667	2.453628223	Up	0.01563271	0.984543317
4731	NDUFV3	NADH:ubiquinone oxidoreductase subunit V3	5.98142	5.82403	6.15848	6.85944	6.37279	6.87874	1.642257097	0.71568	1.642257097	Up	0.00926413	0.984543317
3158	HMGCS2	3-hydroxy-3-methylglutaryl-coa synthase 2 (mitochondrial)	8.40162	7.09511	6.42248	9.75264	8.05394	8.63892	2.845660068	1.508763333	2.845660068	Up	0.045283069	0.984543317
79799	UGT2A3	UDP glucuronosyltransferase 2 family,	5.09675	7.17791	7.45864	7.58629	8.23638	8.86288	3.139968313	1.65075	3.139968313	Up	0.043651412	0.984543317

		polypeptide A3											
2115	ETV1	Ets variant 1	4.05737	5.164	5.00064	5.58062	5.29164	5.94343	1.820784271	0.86456	1.820784271	Up	0.035413324	0.984543317
2538	G6PC	Glucose-6-phosphatase, catalytic subunit	4.75452	5.43539	5.53366	5.93609	6.1429	5.72377	1.616712709	0.693063333	1.616712709	Up	0.027293841	0.984543317
9820	CUL7	Cullin 7	5.00998	5.77329	5.65355	5.96664	6.01264	6.27402	1.521498945	0.605493333	1.521498945	Up	0.038464528	0.984543317
4168	MCF2	MCF.2 cell line derived transforming sequence	3.19158	5.94366	2.65389	7.52151	7.23073	6.38593	8.671891262	3.116346667	8.671891262	Up	0.008892106	0.984543317
509	ATP5C1	ATP synthase, H+ transporting, mitochondrial F1 complex, γ polypeptide 1	8.62478	8.90994	9.09255	9.38704	9.32925	9.74082	1.526202787	0.609946667	1.526202787	Up	0.016663333	0.984543317

2059	EPS8	Epidermal growth factor receptor pathway substrate 8	6.4521	6.97625	7.3139	7.58526	7.70819	7.60306	1.644998954	0.718086667	1.644998954	Up	0.020369704	0.984543317
114294	LACTB	Lactamase β	7.35344	7.41234	7.29355	8.25159	7.71489	7.99936	1.55347964	0.635503333	1.55347964	Up	0.010135842	0.984543317
23382	AHCYL2	Adenosylhomocysteinase-like 2	6.06694	6.82365	7.0685	7.42461	7.43048	7.48329	1.732789813	0.793096667	1.732789813	Up	0.023041238	0.984543317
27233	SULT1C4	Sulfotransferase family 1C member 4	6.63325	7.2464	6.78895	7.50725	7.35134	7.57298	1.502803797	0.587656667	1.502803797	Up	0.023187931	0.984543317
151126	ZNF385B	Zinc finger protein 385B	5.11087	5.10602	4.06066	7.29064	5.58057	6.1478	2.990707187	1.580486667	2.990707187	Up	0.016389101	0.984543317
84513	PLPP5	Phospholipid phosphatase 5	4.23119	4.91952	4.9017	5.86003	5.27631	5.48967	1.812356371	0.857866667	1.812356371	Up	0.011746133	0.984543317
80036	TRPM3	Transient receptor potential cation	3.74671	4.56447	4.38304	5.54264	4.84277	4.87288	1.808370139	0.85469	1.808370139	Up	0.02078101	0.984543317

		channel, subfamily M, member 3												
10891	PPARGC1A	Peroxisome proliferator-activated receptor γ, coactivator 1 α	4.13042	5.40051	5.1803	6.71609	5.50713	6.36366	2.448474776	1.291883333	2.448474776	Up	0.021903709	0.984543317
92399	MRRF	Mitochondrial ribosome recycling factor	4.51916	5.10929	5.40633	5.55957	5.46269	6.06278	1.605942234	0.68342	1.605942234	Up	0.044729776	0.984543317
5025	P2RX4	Purinergic receptor P2X, ligand gated ion channel, 4	5.4851	6.31326	5.85511	6.63001	6.53645	6.68756	1.662687068	0.733516667	1.662687068	Up	0.016299087	0.984543317
57234	LINC00869	Long intergenic non-protein coding RNA 869	6.40799	6.69703	6.5682	6.93653	7.09127	7.44719	1.516336556	0.60059	1.516336556	Up	0.015956414	0.984543317

3312	HSPA8	Heat shock protein family A (Hsp70) member 8	10.09617	10.25724	10.40631	10.60797	11.55862	11.80896	2.102263243	1.071943333	2.102263243	Up	0.012793567	0.984543317
1016	CDH18	Cadherin 18, type 2	3.28266	3.64847	3.57381	5.42958	4.48104	4.15033	2.274164583	1.185336667	2.274164583	Up	0.009098318	0.984543317
1893	ECM1	Extracellular matrix protein 1	5.62869	6.21136	6.1515	6.83232	6.77343	6.23086	1.531579229	0.61502	1.531579229	Up	0.04185254	0.984543317
9317	PTER	Phosphotriesterase related	3.21449	3.93808	3.67125	5.01011	3.89625	4.32171	1.742811655	0.801416667	1.742811655	Up	0.0403964	0.984543317
9975	NR1D2	Nuclear receptor subfamily 1 group D member 2	3.63253	4.27309	4.70157	4.94998	5.28136	4.71676	1.717491946	0.780303333	1.717491946	Up	0.033931615	0.984543317
392465	GLOD5	Glyoxalase domain containing 5	3.28507	4.28237	3.48159	5.19657	4.35188	4.50226	2.000776476	1.00056	2.000776476	Up	0.019624845	0.984543317
7429	VIL1	Villin 1	8.13	9.27	9.39	10.1	9.53	9.75	1.8575	0.8933	1.8575	Up	0.0483	0.9845

			472	711	517	925	818	641	01445	63333	01445		71728	43317
258010	SVIP	Small VCP/p97-interacting protein	4.5147	5.62661	5.32393	5.69084	5.951	6.20547	1.73390317	0.794023333	1.73390317	Up	0.038886246	0.984543317
4311	MME	Membrane metallo-endopeptidase	4.68478	6.09163	5.60641	6.47271	6.51126	6.55611	2.074005903	1.05242	2.074005903	Up	0.020457452	0.984543317
84707	BEX2	Brain expressed X-linked 2	6.63786	7.99549	7.36425	8.43954	8.12304	8.00974	1.812825425	0.85824	1.812825425	Up	0.044832913	0.984543317
22861	NLRP1	NLR family, pyrin domain containing 1	5.35728	4.00116	4.41804	3.6486	3.50544	3.71742	-1.956588002	-0.96834	1.956588002	Down	0.023366963	0.984543317
8574	AKR7A2	Aldo-keto reductase family 7, member A2	5.60619	6.03437	6.06937	6.66709	6.45019	6.45802	1.538783217	0.62179	1.538783217	Up	0.011967809	0.984543317
4093	SMAD9	SMAD family member 9	5.27615	5.16344	5.19172	6.24706	5.91354	5.47386	1.58855679	0.667716667	1.58855679	Up	0.018172334	0.984543317

5091	PC	Pyruvate carboxylase	7.44502	5.66709	5.73504	5.5443	4.80076	4.85207	-2.324101914	-1.216673333	2.324101914	Down	0.049673598	0.984543317
12	SERPINA3	Serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	9.56178	6.78279	9.90906	5.97187	6.73813	6.30431	-5.326200235	-2.413106667	5.326200235	Down	0.021391492	0.984543317
4884	NPTX1	Neuronal pentraxin I	4.09585	4.4162	4.93406	4.89209	5.98764	6.29301	2.365606315	1.24221	2.365606315	Up	0.018543546	0.984543317
4337	MOCS1	Molybdenum cofactor synthesis 1	5.02087	4.21165	4.13603	3.6181	3.85993	4.01346	-1.542945032	-0.625686667	1.542945032	Down	0.046094105	0.984543317
1398	CRK	V-crk avian sarcoma virus CT10 oncogene homolog	5.09705	5.03338	5.78029	5.57192	6.09188	6.46167	1.668151131	0.73825	1.668151131	Up	0.045981631	0.984543317

717	C2	Complement component 2	7.73207	7.30301	6.89655	6.71272	6.28609	6.56957	-1.726379932	-0.78775	1.726379932	Down	0.017073827	0.984543317
79772	MCTP1	Multiple C2 domains, transmembrane 1	4.39319	5.29644	4.53471	5.53446	5.1604	5.39923	1.540341246	0.62325	1.540341246	Up	0.049955569	0.984543317
122618	PLD4	Phospholipase D family member 4	4.3207	5.20706	4.9939	5.71481	5.36243	5.4674	1.595851784	0.674326667	1.595851784	Up	0.033254176	0.984543317
170688	NUDT4P2	Nudix hydrolase 4 pseudogene 2	7.94991	8.72461	7.05272	8.7006	9.27632	9.22821	2.233485156	1.159296667	2.233485156	Up	0.030878175	0.984543317
100861540	CYP3A7-CYP3A51P	CYP3A7-CYP3A51P readthrough	3.08086	3.18838	4.07637	4.80214	4.14723	4.1412	1.885551646	0.914986667	1.885551646	Up	0.023528165	0.984543317
9058	SLC13A2	Solute carrier family 13 (sodium-dependent dicarboxylate	5.79316	6.90109	7.00095	7.60119	7.58437	7.5985	2.041486461	1.02962	2.041486461	Up	0.018018592	0.984543317

		transporter), member 2												
9056	SLC7A7	Solute carrier family 7 (amino acid transporter light chain, y+L system), member 7	7.44138	8.11803	8.22125	8.62044	8.63059	8.29888	1.504985931	0.58975	1.504985931	Up	0.048892039	0.984543317
10963	STIP1	Stress induced phosphoprotein 1	5.16927	4.90964	5.63706	5.65051	5.68909	6.20934	1.527306911	0.61099	1.527306911	Up	0.0458783	0.984543317
101928168	LOC101928168	Uncharacterized LOC101928168	6.36212	6.49398	6.0664	6.9183	6.80026	7.45065	1.680514899	0.748903333	1.680514899	Up	0.013906039	0.984543317
23008	KLHDC10	Kelch domain containing 10	7.77557	6.24545	6.37059	8.11342	7.40668	8.06662	2.092223054	1.065036667	2.092223054	Up	0.049083003	0.984543317
1451	B3G	B	4.77	5.35	5.31	3.48	4.90	3.40	-2.3189	-1.2134	2.3189	Down	0.0252	0.9845

73	LCT	3-glucosyltransferase	183	961	066	851	857	464	31172	6	31172		18824	43317
340547	VSIG1	V-set and immunoglobulin domain containing 1	4.09903	5.42272	4.5043	5.81982	5.65202	5.31323	1.891686914	0.919673333	1.891686914	Up	0.034645326	0.984543317
144110	TMEM86A	Transmembrane protein 86A	5.22769	5.58948	4.92738	6.00689	5.80018	5.92911	1.584334174	0.663876667	1.584334174	Up	0.01330795	0.984543317
114907	FBXO32	F-box protein 32	6.42353	6.78172	6.20567	7.01046	7.23952	7.14021	1.57981614	0.659756667	1.57981614	Up	0.011716424	0.984543317
1124	CHN2	Chimerin 2	6.36212	6.49398	6.0664	6.9183	6.80026	7.45065	1.680514899	0.748903333	1.680514899	Up	0.013906039	0.984543317
292	SLC25A5	Solute carrier family 25 (mitochondrial carrier; adenine	9.96518	10.6068	10.6481	10.95154	10.8494	11.21861	1.515530969	0.599823333	1.515530969	Up	0.034187988	0.984543317

		nucleotide translocator), member 5													
286530	P2RY8	Purinergic receptor P2Y, G-protein coupled, 8	6.2321	4.64575	6.55598	4.28532	4.00296	4.91643	-2.656831378	-1.409706667	2.656831378	Down	0.031998947	0.984543317	
100529241	HSPE1-MOB4	HSPE1-MOB4 readthrough	8.78167	9.03133	9.2259	9.61348	9.489	10.15797	1.670774079	0.740516667	1.670774079	Up	0.01468503	0.984543317	
2918	GRM8	Glutamate receptor, metabotropic 8	4.82252	6.267	4.27592	5.969	6.71442	6.57392	2.457684969	1.2973	2.457684969	Up	0.041310061	0.984543317	
55207	ARL8B	ADP ribosylation factor like gtpase 8B	4.23757	4.44026	5.19913	5.25095	5.37108	5.51666	1.686357017	0.75391	1.686357017	Up	0.02493227	0.984543317	
2292	ATF6	Activating	3.87	4.65	4.66	5.21	4.96	4.80	1.5127	0.5971	1.5127	Up	0.0479	0.9845	

6		transcription factor 6	927	411	728	611	913	691	39251	63333	39251		73605	43317
29948	OSGIN1	Oxidative stress induced growth inhibitor 1	6.69485	7.34503	7.68686	7.84135	8.09302	8.11012	1.708326027	0.772583333	1.708326027	Up	0.025872538	0.984543317
441478	NRARP	NOTCH-regulated ankyrin repeat protein	6.71516	7.32901	7.07175	7.78116	7.95987	7.45671	1.617695417	0.69394	1.617695417	Up	0.017958564	0.984543317
3221	HOXC4	Homeobox C4	5.84929	5.02388	5.20445	4.67414	4.78232	4.72506	-1.549747668	-0.632033333	1.549747668	Down	0.02851125	0.984543317
440515	ZNF506	Zinc finger protein 506	4.95326	4.38157	5.06736	2.93256	4.11428	3.21105	-2.605270791	-1.381433333	2.605270791	Down	0.005203406	0.984543317
4069	LYZ	Lysozyme	6.95675	7.94635	9.046	9.7543	10.07464	10.41466	4.281649401	2.098166667	4.281649401	Up	0.005169511	0.984543317
5791	PTPRE	Protein tyrosine phosphatase,	6.42408	5.77979	6.40078	5.58441	5.40498	4.90077	-1.872323857	-0.90483	1.872323857	Down	0.01145427	0.984543317

		receptor type, E												
4064	CD180	CD180 molecule	5.4633	4.94424	5.98171	4.91091	4.5233	4.76431	-1.658918871	-0.730243333	1.658918871	Down	0.034179795	0.984543317
9032	TM4SF5	Transmembrane 4 L six family member 5	7.48615	8.34996	7.55443	9.2635	8.49257	8.24014	1.825835343	0.868556667	1.825835343	Up	0.043272415	0.984543317
55339	WDR33	WD repeat domain 33	4.51882	4.50865	4.32977	4.74706	5.35941	5.14409	1.54875256	0.631106667	1.54875256	Up	0.011291783	0.984543317
51233	DRICH1	Aspartate-rich 1	3.80009	4.50654	4.19133	4.85564	4.598	5.23967	1.660690624	0.731783333	1.660690624	Up	0.019311424	0.984543317
335	APOA1	Apolipoprotein A-I	6.97141	6.9621	6.20648	8.47954	7.75603	8.74376	3.05911286	1.613113333	3.05911286	Up	0.002139261	0.984543317
4888	NPY6R	Neuropeptide Y receptor Y6 (pseudogene)	5.06415	5.80592	5.22999	6.09835	6.08087	6.11438	1.65999627	0.73118	1.65999627	Up	0.012398283	0.984543317
6281	S100A10	S100 calcium binding protein	10.9873	9.59624	10.0998	9.44224	9.42181	9.18126	-1.839542065	-0.879346667	1.839542065	Down	0.040791502	0.984543317

		A10			1									
64854	USP46	Ubiquitin specific peptidase 46	5.11964	4.94448	5.11929	5.33263	5.75501	5.91868	1.523761033	0.607636667	1.523761033	Up	0.014771242	0.984543317
7177	TPSAB1	Tryptase α/β 1	8.38641	8.64308	8.30774	8.76869	9.0442	9.53842	1.592573548	0.67136	1.592573548	Up	0.023929839	0.984543317
350	APOH	Apolipoprotein H (β-2-glycoprotein I)	5.17747	6.05771	6.06636	6.77987	6.59211	6.9784	2.022696691	1.01628	2.022696691	Up	0.008976808	0.984543317
127262	TPRG1L	Tumor protein p63 regulated 1-like	6.70613	6.83794	7.44113	7.43028	7.84845	7.73497	1.597888418	0.676166667	1.597888418	Up	0.027335665	0.984543317
8447	DOC2B	Double C2-like domains, β	7.2653	5.92974	5.76117	4.67499	5.28603	5.62712	-2.177526083	-1.12269	2.177526083	Down	0.042850751	0.984543317
23052	ENDOD1	Endonuclease domain containing 1	7.28837	7.70881	7.44988	7.33576	6.18527	5.97591	-1.977082856	-0.983373333	1.977082856	Down	0.033635992	0.984543317
5168	ENPP	Ectonucleotide	7.49	7.35	6.95	8.06	7.82	7.84	1.5614	0.6429	1.5614	Up	0.0126	0.9845

	2	pyrophosphatase/phosphodiesterase 2	341	066	512	32	198	276	82788	16667	82788		65517	43317
9500	MAGED1	MAGE family member D1	8.24641	9.28675	8.99486	9.39216	9.71645	9.54813	1.635320411	0.709573333	1.635320411	Up	0.041827339	0.984543317
2147	F2	Coagulation factor II (thrombin)	6.48685	6.93971	7.1044	7.54237	7.24188	7.67245	1.56039722	0.641913333	1.56039722	Up	0.022947841	0.984543317
1159	CKMT1B	Creatine kinase, mitochondrial 1B	7.76828	8.70526	8.57227	9.12401	8.82889	9.40338	1.705454974	0.770156667	1.705454974	Up	0.035150218	0.984543317
5412	UBL3	Ubiquitin like 3	5.43734	5.86081	6.36148	6.55774	6.61711	7.00531	1.790269358	0.840176667	1.790269358	Up	0.017927056	0.984543317
51316	PLAC8	Placenta specific 8	4.58949	4.5934	5.10885	5.15017	6.23335	5.90012	1.996260506	0.9973	1.996260506	Up	0.015354393	0.984543317
284266	SIGLEC15	Sialic acid binding Ig-like lectin 15	5.30928	5.47839	5.42684	6.43809	6.27643	6.11624	1.830304056	0.872083333	1.830304056	Up	0.000782001	0.984543317

10437	IFI30	Interferon, γ-inducible protein 30	9.41428	8.94371	8.86213	8.62474	8.15385	8.2067	-1.675908441	-0.744943333	1.675908441	Down	0.01218156	0.984543317
11227	GALNT5	Polypeptide N-acetylgalactosaminyltransferase 5	4.48587	5.15488	5.15143	6.16352	5.56161	5.56634	1.781505166	0.833096667	1.781505166	Up	0.016657785	0.984543317
1236	CCR7	Chemokine (C-C motif) receptor 7	4.71847	4.43796	5.22345	4.07075	4.12524	3.94766	-1.676450633	-0.74541	1.676450633	Down	0.00988378	0.984543317
140	ADORA3	Adenosine A3 receptor	4.5564	4.2361	5.03035	5.20362	5.55607	6.0288	1.984185167	0.988546667	1.984185167	Up	0.011133289	0.984543317
440482	ANKRD20A5P	Ankyrin repeat domain 20 family member A5, pseudogene	5.87277	6.2994	6.1331	7.07794	6.70578	6.65589	1.637445247	0.711446667	1.637445247	Up	0.008373927	0.984543317
4907	NT5E	5’-nucleotidase, ecto (CD73)	4.80951	5.59635	4.98493	5.71846	6.19203	6.25617	1.89906594	0.92529	1.89906594	Up	0.010015137	0.984543317
5436	CYT	Cytokine like 1	5.21	4.66	4.57	5.48	5.56	6.43	2.0084	1.0060	2.0084	Up	0.0147	0.9845

0	L1		346	467	977	422	012	174	18613	6	18613		69156	43317
2209	FCGR1A	Fc fragment of igg, high affinity Ia, receptor (CD64)	5.02935	5.64109	4.73691	5.82116	6.06513	5.86193	1.717476073	0.78029	1.717476073	Up	0.017419884	0.984543317
6549	SLC9A2	Solute carrier family 9, subfamily A (NHE2, cation proton antiporter 2), member 2	5.58032	6.68358	6.0664	8.77209	7.34553	8.32934	4.109282933	2.038886667	4.109282933	Up	0.002602688	0.984543317
10598	AHSA1	AHA1, activator of heat shock 90kda protein atpase homolog 1 (yeast)	6.91967	6.95717	6.80871	7.37942	7.25034	7.85035	1.513812649	0.598186667	1.513812649	Up	0.01961225	0.984543317
2834	CLE	C-type lectin	3.78	3.72	3.48	4.12	4.86	4.78	1.8992	0.9254	1.8992	Up	0.0042	0.9845

20	C9A	domain family 9, member A	697	959	126	436	345	632	59012	36667	59012		68823	43317
57144	PAK7	P21 protein (Cdc42/Rac)-activated kinase 7	5.37311	6.86432	6.32054	7.53321	7.30133	7.19371	2.229561507	1.15676	2.229561507	Up	0.018649543	0.984543317
192683	SCAMP5	Secretory carrier membrane protein 5	6.85663	7.23731	7.13299	7.68719	7.57987	7.79128	1.526756513	0.61047	1.526756513	Up	0.008111574	0.984543317
7384	UQCRC1	Ubiquinol-cytochrome c reductase core protein I	7.95487	8.64287	8.7476	9.13442	8.94215	9.31347	1.603880513	0.681566667	1.603880513	Up	0.029333308	0.984543317
29116	MYLIP	Myosin regulatory light chain interacting protein	6.48646	7.37281	5.97401	7.50726	8.06077	8.00213	2.371215308	1.245626667	2.371215308	Up	0.013294069	0.984543317
409	ARRB2	Arrestin, β 2	6.21669	5.98742	5.25525	6.63804	6.49793	6.35784	1.600086612	0.67815	1.600086612	Up	0.04082102	0.984543317
5575	OGD	Oxoglutarate	5.25	5.91	4.94	6.62	6.40	6.48	2.1934	1.1332	2.1934	Up	0.0040	0.9845

3	HL	dehydrogenase-like	666	72	12	718	701	053	7764	2	7764		19479	43317
79774	GRTP1	Growth hormone regulated TBC protein 1	5.15916	6.75515	6.20185	7.15484	7.26803	7.12475	2.209653262	1.14382	2.209653262	Up	0.023394585	0.984543317
105377283	LOC105377283	Uncharacterized LOC105377283	4.22032	4.47212	3.52931	4.98975	5.29408	5.69118	2.380206374	1.251086667	2.380206374	Up	0.004098923	0.984543317
3248	HPGD	Hydroxyprostaglandin dehydrogenase 15-(NAD)	6.63751	7.42988	6.84807	7.33139	7.73359	7.61146	1.502112986	0.586993333	1.502112986	Up	0.049199091	0.984543317
155465	AGR3	Anterior gradient 3, protein disulphide isomerase family	6.86873	8.27192	8.24953	8.43849	9.07537	9.09122	2.101811567	1.071633333	2.101811567	Up	0.039885849	0.984543317

		member													
10105	PPIF	Peptidylprolyl isomerase F	5.18159	5.47868	5.85025	6.06359	6.20704	6.66779	1.752360985	0.8093	1.752360985	Up	0.013597936	0.984543317
171586	ABHD3	Abhydrolase domain containing 3	5.76468	7.03506	7.41873	7.55022	7.85379	8.08051	2.12679847	1.088683333	2.12679847	Up	0.04075496	0.984543317
55824	PAG1	Phosphoprotein membrane anchor with glycosphingolipid microdomains 1	8.85497	9.62518	9.67358	9.89239	10.0028	10.17369	1.556583893	0.638383333	1.556583893	Up	0.039028654	0.984543317
283	ANG	Angiogenin, ribonuclease, rnase A family, 5	7.7847	8.77871	8.59112	9.11508	9.2694	8.93885	1.650534544	0.722933333	1.650534544	Up	0.038046933	0.984543317
4588	MUC6	Mucin 6, oligomeric mucus/gel-formin	7.34869	9.34381	9.77914	10.8643	9.77399	10.50321	2.941638574	1.55662	2.941638574	Up	0.049592732	0.984543317

		g												
55839	CENPN	Centromere protein N	4.24861	4.75759	4.58202	5.38088	4.89383	5.52855	1.668262908	0.738346667	1.668262908	Up	0.012860746	0.984543317
6583	SLC22A4	Solute carrier family 22 (organic cation/zwitterion transporter), member 4	6.16352	5.30693	5.70861	5.13732	4.96127	4.81037	-1.689621385	-0.7567	1.689621385	Down	0.016754863	0.984543317
5796	PTPRK	Protein tyrosine phosphatase, receptor type, K	3.71879	4.22215	4.0232	5.00567	4.55254	4.59609	1.658700409	0.730053333	1.658700409	Up	0.006526247	0.984543317
9556	C14orf2	Chromosome 14 open reading frame 2	6.82025	7.06968	6.35441	7.49834	7.43773	7.32001	1.591712748	0.67058	1.591712748	Up	0.01733419	0.984543317
3336	HSPE1	Heat shock protein family E	8.78167	9.03133	9.2259	9.61348	9.489	10.1579	1.670774079	0.740516667	1.670774079	Up	0.01468503	0.984543317

		(Hsp10) member 1						7						
8618	CADPS	Ca++-dependent secretion activator	6.13006	6.78967	6.54576	7.96276	8.22139	7.08978	2.410746578	1.26948	2.410746578	Up	0.007455522	0.984543317
25805	BAMBI	BMP and activin membrane-bound inhibitor	6.20576	7.0082	6.40838	7.47215	7.80716	6.97457	1.836781479	0.87718	1.836781479	Up	0.022704721	0.984543317
2861	GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)	4.36111	5.58643	4.82764	5.61596	6.1329	5.47765	1.761873079	0.81711	1.761873079	Up	0.049612669	0.984543317
8788	DLK1	Δ-like 1 homolog (Drosophila)	4.24347	6.03837	4.59342	5.75757	8.1397	7.08913	4.104045332	2.037046667	4.104045332	Up	0.024410656	0.984543317
10808	HSPH1	Heat shock protein family H (Hsp110) member	5.12016	5.62914	6.20648	6.3086	6.83421	6.67546	1.937455713	0.954163333	1.937455713	Up	0.017234577	0.984543317

		1												
3352	HTR1D	5-hydroxytryptamine (serotonin) receptor 1D, G protein-coupled	5.61007	6.61992	6.00329	6.78689	6.83965	6.64462	1.601355181	0.679293333	1.601355181	Up	0.040403688	0.984543317
440836	ODF3B	Outer dense fiber of sperm tails 3B	8.19928	7.65067	8.05663	7.47274	7.40625	7.22735	-1.515800618	-0.60008	1.515800618	Down	0.017355372	0.984543317
9829	DNAJC6	Dnaj heat shock protein family (Hsp40) member C6	5.04077	5.16208	4.98623	5.76319	5.68135	5.94548	1.662836898	0.733646667	1.662836898	Up	0.001397096	0.984543317
23647	ARFIP2	ADP ribosylation factor interacting protein 2	5.33127	5.6605	5.77209	6.04439	5.8584	6.67085	1.519145443	0.60326	1.519145443	Up	0.049488957	0.984543317
7127	TNFAIP2	Tnfα-induced protein 2	9.41795	9.7377	9.87408	8.20627	8.62645	8.3912	-2.409282111	-1.268603333	2.409282111	Down	0.00035729	0.984543317
1537	CYC	Cytochrome c-1	8.65	9.08	8.78	9.49	9.18	9.69	1.5276	0.6113	1.5276	Up	0.0183	0.9845

	1		796	706	423	002	219	096	42187	06667	42187		53348	43317
8363	HIST1H4J	Histone cluster 1, h4j	8.25122	8.45981	8.9068	8.92262	9.28796	9.16953	1.502564234	0.587426667	1.502564234	Up	0.030078133	0.984543317
5051	PAFAH2	Platelet-activating factor acetylhydrolase 2	3.90226	5.09269	5.18461	5.74365	5.68691	5.37417	1.834080125	0.875056667	1.834080125	Up	0.044757953	0.984543317
1524	CX3CR1	Chemokine (C-X3-C motif) receptor 1	7.58882	9.01504	7.09956	9.2531	9.58875	9.94036	3.233126599	1.69293	3.233126599	Up	0.011910209	0.984543317
80824	DUSP16	Dual specificity phosphatase 16	4.75548	5.43046	5.19116	5.98651	5.4491	5.73978	1.515117834	0.59943	1.515117834	Up	0.036577464	0.984543317
25780	RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	6.21067	5.89315	6.53161	5.34429	5.65298	5.58651	-1.606458079	-0.683883333	1.606458079	Down	0.013324871	0.984543317
1654	DDX3X	DEAD (Asp-Glu-Ala-As	4.01362	4.4578	4.89755	5.02448	5.07236	5.10318	1.526629527	0.61035	1.526629527	Up	0.032336386	0.984543317

		p) box helicase 3, X-linked												
1021	CDK6	Cyclin-dependent kinase 6	7.08398	6.7583	7.10094	6.13997	6.20701	6.76063	-1.528238806	-0.61187	1.528238806	Down	0.028268843	0.984543317
3669	ISG20	Interferon stimulated exonuclease gene 20kda	9.89465	10.9159	10.35688	11.71824	11.44722	11.01292	2.005066381	1.00365	2.005066381	Up	0.014308039	0.984543317
384	ARG2	Arginase 2	4.2979	4.78344	4.60113	5.8472	5.20784	5.47953	1.932810236	0.9507	1.932810236	Up	0.003429022	0.984543317
1123	CHN1	Chimerin 1	4.25305	4.38322	3.89039	4.70842	4.56107	5.01682	1.501651464	0.58655	1.501651464	Up	0.016527266	0.984543317
57413	TMIGD3	Transmembrane and immunoglobulin domain containing 3	4.5564	4.2361	5.03035	5.20362	5.55607	6.0288	1.984185167	0.988546667	1.984185167	Up	0.011133289	0.984543317

960	CD44	CD44 molecule (Indian blood group)	7.17682	6.61615	7.24365	5.97766	6.32624	6.63804	-1.622509209	-0.698226667	1.622509209	Down	0.02896452	0.984543317
548596	CKMT1A	Creatine kinase, mitochondrial 1A	7.76828	8.70526	8.57227	9.12401	8.82889	9.40338	1.705454974	0.770156667	1.705454974	Up	0.035150218	0.984543317
9620	CELSR1	Cadherin, EGF LAG seven-pass G-type receptor 1	4.79076	5.05848	5.19802	4.04164	4.26452	4.78495	-1.571399493	-0.65205	1.571399493	Down	0.023006317	0.984543317
247	ALOX15B	Arachidonate 15-lipoxygenase, type B	4.49345	4.06805	4.11029	4.63548	5.35302	4.73717	1.607286002	0.684626667	1.607286002	Up	0.02124964	0.984543317
257019	FRMD3	FERM domain containing 3	4.57856	4.17422	4.00787	4.60529	4.8808	5.0851	1.519412224	0.603513333	1.519412224	Up	0.020108455	0.984543317
5283	PIGH	Phosphatidylinositol glycan anchor biosynthesis class H	5.62533	6.41631	6.2542	6.87696	6.58989	6.98102	1.644151604	0.717343333	1.644151604	Up	0.023933616	0.984543317

94101	ORMDL1	ORMDL sphingolipid biosynthesis regulator 1	5.36048	5.74794	5.85361	6.19995	6.21425	6.51201	1.574317654	0.654726667	1.574317654	Up	0.011555215	0.984543317
11163	NUDT4	Nudix hydrolase 4	7.94991	8.72461	7.05272	8.7006	9.27632	9.22821	2.233485156	1.159296667	2.233485156	Up	0.030878175	0.984543317
8379	MAD1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	6.57326	6.82234	6.42272	7.5568	7.54316	7.36723	1.844150843	0.882956667	1.844150843	Up	0.001291689	0.984543317
1499	CTNNB1	Catenin β1	6.59189	6.85124	6.7229	6.90552	7.76503	7.26294	1.504363631	0.589153333	1.504363631	Up	0.046453649	0.984543317
114789	SLC25A25	Solute carrier family 25 (mitochondrial carrier; phosphate carrier), member	8.5552	9.08664	8.81691	9.57811	9.83023	8.98985	1.565344284	0.64648	1.565344284	Up	0.043824438	0.984543317

		25												
2330	FMO5	Flavin containing monooxygenase 5	7.54629	8.78671	8.22774	9.51296	8.88046	8.92967	1.893142925	0.920783333	1.893142925	Up	0.034276122	0.984543317
23429	RYBP	RING1 and YY1 binding protein	7.93219	7.25988	7.86155	8.04929	8.76501	8.32033	1.617392694	0.69367	1.617392694	Up	0.036831865	0.984543317
1462	VCAN	Versican	5.97797	5.78578	4.94017	4.36238	4.19191	5.0688	-2.037702354	-1.026943333	2.037702354	Down	0.021987556	0.984543317
389376	SFTA2	Surfactant associated 2	8.09184	9.22039	8.57636	9.47882	9.63941	9.20316	1.754346028	0.810933333	1.754346028	Up	0.032781368	0.984543317
114880	OSBPL6	Oxysterol binding protein like 6	6.58653	7.49918	6.38885	7.81957	7.88434	7.56299	1.906306371	0.93078	1.906306371	Up	0.020425989	0.984543317
1806	DPYD	Dihydropyrimidine dehydrogenase	6.38965	7.48049	7.80655	7.7487	8.54434	8.67662	2.140068042	1.097656667	2.140068042	Up	0.038087454	0.984543317
7504	XK	X-linked Kx blood group	4.31887	5.14045	5.36258	5.78509	5.54077	5.70231	1.664885929	0.735423333	1.664885929	Up	0.035857242	0.984543317
3556	IL1RAP	Interleukin 1 receptor accessory	3.4082	3.7528	3.78695	4.11666	5.05137	4.11279	1.714304435	0.777623333	1.714304435	Up	0.027542605	0.984543317

		protein												
8362	HIST1H4K	Histone cluster 1, h4k	8.25122	8.45981	8.9068	8.92262	9.28796	9.16953	1.502564234	0.587426667	1.502564234	Up	0.030078133	0.984543317
6563	SLC14A1	Solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	6.52426	8.22516	6.94562	8.28931	8.41077	9.06667	2.561939961	1.357236667	2.561939961	Up	0.023064922	0.984543317
5329	PLAUR	Plasminogen activator, urokinase receptor	5.02651	5.03142	5.11576	5.36989	6.11924	5.66022	1.578498985	0.658553333	1.578498985	Up	0.0172256	0.984543317
100533990	APOC4-APOC2	APOC4-APOC2 readthrough (NMD candidate)	6.06565	6.58253	5.60903	7.88934	6.60426	7.64836	2.453628223	1.294916667	2.453628223	Up	0.01563271	0.984543317
118812	MORN4	MORN repeat containing 4	4.04789	5.41598	3.60322	5.86437	5.20348	5.77418	2.392159081	1.258313333	2.392159081	Up	0.033363427	0.984543317
1137	ZBE	ZBED6	4.68	4.88	5.61	5.76	5.66	5.89	1.6365	0.7106	1.6365	Up	0.0292	0.9845

63	D6CL	C-terminal like	741	079	605	314	057	263	94225	96667	94225		52613	43317
6262	RYR2	Ryanodine receptor 2 (cardiac)	3.77091	3.92656	3.43009	3.96229	4.40075	5.0419	1.692465783	0.759126667	1.692465783	Up	0.034015582	0.984543317
6751	SSTR1	Somatostatin receptor 1	4.4669	4.90886	3.48087	5.37304	5.17383	5.09243	1.902051971	0.927556667	1.902051971	Up	0.035670655	0.984543317
10855	HPSE	Heparanase	4.32842	4.4654	4.44368	4.67105	5.03964	5.31818	1.512697309	0.597123333	1.512697309	Up	0.014748999	0.984543317
84171	LOXL4	Lysyl oxidase like 4	5.59969	4.9663	5.67802	4.19192	5.04532	4.50966	-1.780608071	-0.83237	1.780608071	Down	0.023799305	0.984543317
2214	FCGR3A	Fc fragment of igg, low affinity iiia, receptor (CD16a)	3.58645	4.08094	3.98549	4.03122	4.80199	4.63488	1.521052553	0.60507	1.521052553	Up	0.039330653	0.984543317
55342	STRBP	Spermatid perinuclear RNA	6.99395	8.14935	8.02991	8.7968	8.47681	8.32468	1.751219592	0.80836	1.751219592	Up	0.047281458	0.984543317

		binding protein												
54477	PLEKHA5	Pleckstrin homology domain containing A5	3.00045	3.88284	4.03248	4.60058	4.23541	4.39881	1.708831326	0.77301	1.708831326	Up	0.029352195	0.984543317
9060	PAPSS2	3’-phosphoadenosine 5’-phosphosulfate synthase 2	5.18235	5.78489	5.85456	6.71077	5.95796	6.19245	1.601910264	0.679793333	1.601910264	Up	0.042797552	0.984543317
2651	GCNT2	Glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group)	3.32765	3.80554	3.94279	4.37161	4.19198	4.42326	1.555045363	0.636956667	1.555045363	Up	0.00996272	0.984543317
9619	ABCG1	ATP binding cassette subfamily G member 1	5.44445	6.88116	4.89167	6.62536	7.22393	7.19237	2.419641539	1.274793333	2.419641539	Up	0.041493955	0.984543317

9446	GSTO1	Glutathione S-transferase omega 1	9.73155	10.17422	9.94167	10.68114	10.53493	10.42185	1.51238628	0.596826667	1.51238628	Up	0.009648823	0.984543317
24146	CLDN15	Claudin 15	5.57032	5.36361	5.58241	6.15631	6.52115	5.85627	1.59379197	0.672463333	1.59379197	Up	0.013935857	0.984543317
10257	ABCC4	ATP binding cassette subfamily C member 4	3.67291	4.87875	5.18755	5.4816	5.35537	5.97346	2.033182897	1.02374	2.033182897	Up	0.041794918	0.984543317
9465	AKAP7	A-kinase anchoring protein 7	3.39067	4.12529	4.07996	5.21727	4.53909	5.49863	2.328966681	1.21969	2.328966681	Up	0.00601527	0.984543317
440672	NUDT4P1	Nudix hydrolase 4 pseudogene 1	7.94991	8.72461	7.05272	8.7006	9.27632	9.22821	2.233485156	1.159296667	2.233485156	Up	0.030878175	0.984543317
157769	FAM91A1	Family with sequence similarity 91 member A1	6.40799	6.69703	6.5682	6.93653	7.09127	7.44719	1.516336556	0.60059	1.516336556	Up	0.015956414	0.984543317

117155	CATSPER2	Cation channel, sperm associated 2	5.77596	5.97083	6.05176	6.37784	6.41246	7.02371	1.593081417	0.67182	1.593081417	Up	0.018903689	0.984543317
1643	DDB2	Damage-specific DNA binding protein 2	7.56483	7.38022	6.57705	6.44201	6.35419	6.64193	-1.618499216	-0.694656667	1.618499216	Down	0.043087104	0.984543317
63982	ANO3	Anoctamin 3	3.57603	4.44541	4.19024	4.29427	4.97733	5.39171	1.761995207	0.81721	1.761995207	Up	0.047389316	0.984543317
64499	TPSB2	Tryptase β2 (gene/pseudogene)	8.38641	8.64308	8.30774	8.76869	9.0442	9.53842	1.592573548	0.67136	1.592573548	Up	0.023929839	0.984543317
7432	VIP	Vasoactive intestinal peptide	4.74873	5.10943	5.11408	6.43487	7.14496	5.42684	2.539967435	1.34481	2.539967435	Up	0.016241566	0.984543317
55755	CDK5RAP2	CDK5 regulatory subunit associated protein 2	8.12642	7.66184	7.31053	7.33027	6.09621	6.93229	-1.883400738	-0.91334	1.883400738	Down	0.042004471	0.984543317
8496	PNM	Paraneoplastic Ma	5.84	5.00	5.13	4.57	4.85	4.70	-1.5338	-0.6171	1.5338	Down	0.0397	0.9845

8	A6A	antigen family member 6A	986	544	469	44	442	978	20865	3	20865		5022	43317
26064	RAI14	Retinoic acid induced 14	5.96464	5.42866	5.70721	4.72698	5.23424	5.34736	-1.512893046	-0.59731	1.512893046	Down	0.034715536	0.984543317
22948	CCT5	Chaperonin containing TCP1, subunit 5 (epsilon)	5.69607	5.54967	5.27563	5.87926	6.01638	6.58476	1.572445484	0.65301	1.572445484	Up	0.02695592	0.984543317
10590	SCGN	Secretagogin, EF-hand calcium binding protein	4.06846	4.16228	4.48417	5.36397	4.36358	5.97665	1.995057047	0.99643	1.995057047	Up	0.041544666	0.984543317
5827	PXMP2	Peroxisomal membrane protein 2	8.18437	9.1666	9.08838	9.67184	9.45559	9.75049	1.756686399	0.812856667	1.756686399	Up	0.025953704	0.984543317
91612	CHURC1	Churchill domain containing 1	4.53896	4.76417	4.89075	5.34646	4.91886	5.79912	1.540629548	0.62352	1.540629548	Up	0.038181273	0.984543317
989	SEPT	Septin 7	8.28	7.72	7.86	7.46	7.38	6.95	-1.6140	-0.6907	1.6140	Down	0.0184	0.9845

	7		654	346	381	412	459	3	66478		66478		76645	43317
79413	ZBED2	Zinc finger, BED-type containing 2	4.32272	4.96886	4.70157	6.34898	5.71006	5.65564	2.362820444	1.24051	2.362820444	Up	0.002193826	0.984543317
3384	ICAM2	Intercellular adhesion molecule 2	6.80168	5.62558	5.75592	5.20145	5.11633	5.39364	-1.770209365	-0.82392	1.770209365	Down	0.039583186	0.984543317
440503	PLIN5	Perilipin 5	6.8256	6.2875	6.4047	6.19401	5.70564	5.5777	-1.602306342	-0.68015	1.602306342	Down	0.02362611	0.984543317
3108	HLA-DMA	Major histocompatibility complex, class II, DM α	9.15296	8.6317	8.82767	8.09745	8.20279	8.37116	-1.565883267	-0.646976667	1.565883267	Down	0.010754922	0.984543317
191	AHCY	Adenosylhomocysteinase	6.1918	6.73175	6.85943	7.25909	7.14579	7.42192	1.60355444	0.681273333	1.60355444	Up	0.016981602	0.984543317
54209	TREM2	Triggering receptor	5.84143	6.73189	5.72715	7.10693	7.13406	7.30064	2.114602754	1.080386667	2.114602754	Up	0.007474361	0.984543317

		expressed on myeloid cells 2												
4756	NEO1	Neogenin 1	5.68211	6.65759	6.30412	7.01046	6.7195	6.89183	1.579341692	0.659323333	1.579341692	Up	0.044141395	0.984543317
55228	PNMAL1	Paraneoplastic Ma antigen family-like 1	5.45139	5.2786	5.02716	5.76636	5.69683	6.42602	1.636582881	0.710686667	1.636582881	Up	0.022065553	0.984543317
65124	SOWAHC	Sosondowah ankyrin repeat domain family member C	6.61208	6.87154	7.11912	7.92193	7.94469	7.28626	1.802559231	0.850046667	1.802559231	Up	0.010676416	0.984543317
10788	IQGAP2	IQ motif containing gtpase activating protein 2	3.54593	4.43629	5.16422	5.53338	5.44819	5.40998	2.116533514	1.081703333	2.116533514	Up	0.027252649	0.984543317
4753	NELL2	Neural EGFL like 2	5.08122	5.11592	5.20055	6.54884	6.82198	6.85822	3.053470696	1.61045	3.053470696	Up	1.99954E-05	0.782419724

135656	DPCR1	Diffuse panbronchiolitis critical region 1	6.95642	8.88316	6.36644	9.20637	9.71227	8.81969	3.590297349	1.844103333	3.590297349	Up	0.025356619	0.984543317
4289	MKLN1	Muskelin 1	6.16427	5.93577	6.59064	6.55546	7.2677	6.74359	1.542592142	0.625356667	1.542592142	Up	0.048195535	0.984543317
145226	RDH12	Retinol dehydrogenase 12 (all-trans/9-cis/11-cis)	8.07578	9.35589	9.61625	10.39248	10.17873	10.28773	2.412184068	1.27034	2.412184068	Up	0.015987669	0.984543317
23401	FRAT2	Frequently rearranged in advanced T-cell lymphomas 2	5.58156	6.72878	5.89285	6.8194	6.76487	6.80152	1.655805635	0.727533333	1.655805635	Up	0.046326904	0.984543317
175	AGA	Aspartylglucosaminidase	6.26959	7.52654	7.67523	7.83404	8.25181	8.16805	1.901994841	0.927513333	1.901994841	Up	0.048867075	0.984543317
6707	SPRR3	Small proline-rich protein 3	5.59916	7.14978	7.49896	10.1885	7.66426	8.33242	3.942452391	1.979093333	3.942452391	Up	0.036763708	0.984543317

5648	MASP1	Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	7.39323	6.63161	6.45693	6.43487	6.02928	5.41323	-1.825295445	-0.86813	1.825295445	Down	0.043235696	0.984543317
11240	PADI2	Peptidyl arginine deiminase, type II	5.23616	5.19566	4.8863	6.32371	5.33365	5.8137	1.644497331	0.717646667	1.644497331	Up	0.033246961	0.984543317
219285	SAMD9L	Sterile α motif domain containing 9-like	6.01471	5.36231	5.38228	4.68774	5.1574	4.90108	-1.592205627	-0.671026667	1.592205627	Down	0.023670136	0.984543317
64781	CERK	Ceramide kinase	6.79889	6.99272	7.46089	7.77953	7.64228	8.00904	1.6541805	0.726116667	1.6541805	Up	0.013481504	0.984543317
55859	BEX1	Brain expressed X-linked 1	6.2449	6.28735	6.51006	6.81717	7.17424	8.31537	2.126022207	1.088156667	2.126022207	Up	0.026330269	0.984543317
7903	ST8S	ST8	5.41	6.18	6.04	4.60	4.78	4.71	-2.2652	-1.1796	2.2652	Down	0.0013	0.9845

	IA4	α-N-acetyl-neuraminide α-2,8-sialyltransferase 4	35	019	885	625	022	698	91432	96667	91432		52058	43317
51678	MPP6	Membrane protein, palmitoylated 6	6.45751	7.53619	7.47658	8.17297	8.03417	7.97959	1.873171942	0.905483333	1.873171942	Up	0.022581586	0.984543317
338	APOB	Apolipoprotein B	4.86106	5.69068	4.77937	8.38708	5.5525	6.64636	3.367341407	1.75161	3.367341407	Up	0.042084461	0.984543317
2215	FCGR3B	Fc fragment of igg, low affinity iiib, receptor (CD16b)	3.58645	4.08094	3.98549	4.03122	4.80199	4.63488	1.521052553	0.60507	1.521052553	Up	0.039330653	0.984543317
57194	ATP10A	Atpase, class V, type 10A	5.69622	5.30231	5.03026	6.06101	5.66088	6.11239	1.517640411	0.60183	1.517640411	Up	0.032888525	0.984543317

Table SII. DEGs in comparison II.

Entrez accession no.	Gene symbol	Gene name	Gallbladder wall of gallstone (A10933)	Gallbladder wall of gallstone (A10934)	Gallbladder wall of gallstone (A10939)	Gallbladder wall of gallbladder adenoma (A10951)	Gallbladder wall of gallbladder adenoma (A10956)	Gallbladder wall of gallbladder adenoma (A10957)	Fold-change	Log fold-change	Absolute fold-change	Regulation	P-value	False discovery rate (FDR)
51285	RASL12	RAS-like, family 12	7.93997	6.47861	6.47417	4.62598	6.52217	5.33953	-2.767065254	-1.468356667	2.767065254	Down	0.042621364	0.955609729
60481	ELOVL5	ELOVL fatty acid elongase 5	6.53161	5.53552	6.22008	5.09127	4.6677	5.06967	-2.223537393	-1.152856667	2.223537393	Down	0.005258036	0.955609729
286530	P2RY8	Purinergic receptor P2Y, G-protein coupled, 8	6.2321	4.64575	6.55598	4.15877	4.34708	4.48947	-2.78852718	-1.479503333	2.78852718	Down	0.018589415	0.955609729
287	ANK2	Ankyrin 2, neuronal	4.42072	4.24861	4.26526	5.97357	5.89655	4.40047	2.161450804	1.112	2.161450804	Up	0.033062858	0.955609729
51705	EMCN	Endomucin	8.4265	6.2599	6.21104	4.69862	4.86023	5.81842	-3.580240907	-1.840056667	3.580240907	Down	0.025342011	0.955609729
8379	MAD1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	6.57326	6.82234	6.42272	7.21085	7.2921	7.66594	1.721329555	0.783523333	1.721329555	Up	0.00638843	0.955609729
5238	PGM3	Phosphogluc	5.816	5.972	6.500	6.843	6.654	6.932	1.6399554	0.713656	1.639955	Up	0.015903	0.955609

5238	PGM3	Phosphoglucomutase 3	5.81661	5.97246	6.50025	6.84314	6.65427	6.93288	1.639955498	0.713656667	1.639955498	Up	0.015903204	0.955609729
253827	MSRB3	Methionine sulfoxide reductase B3	7.53582	6.82131	6.42354	4.51776	6.81431	4.22934	-3.339780606	-1.739753333	3.339780606	Down	0.042396569	0.955609729
3821	KLRC1	Killer cell lectin-like receptor subfamily C, member 1	4.24177	3.67414	3.58905	4.83	5.45603	5.83127	2.902803001	1.537446667	2.902803001	Up	0.00149172	0.955609729
377677	CA13	Carbonic anhydrase XIII	8.32148	9.06056	9.18074	10.31298	9.79134	10.32038	2.440719777	1.287306667	2.440719777	Up	0.002966312	0.955609729
26353	HSPB8	Heat shock protein family B (small) member 8	7.41483	5.58162	5.56715	4.39264	5.26675	4.96373	-2.485426316	-1.313493333	2.485426316	Down	0.044211383	0.955609729
29116	MYLIP	Myosin regulatory light chain interacting protein	6.59671	7.32922	6.50454	7.79451	7.53927	7.40754	1.705604717	0.770283333	1.705604717	Up	0.023000971	0.955609729
7450	VWF	Von Willebrand factor	9.93484	7.28022	6.77153	4.61827	5.34271	6.73201	-5.393418562	-2.4312	5.393418562	Down	0.033247688	0.955609729
3384	ICAM2	Intercellular adhesion molecule 2	9.40809	7.0696	8.14898	6.26764	7.08764	7.02397	-2.668088769	-1.415806667	2.668088769	Down	0.046061133	0.955609729
8436	SDPR	Serum deprivation	9.06684	7.51455	7.33903	5.18144	7.23576	5.62337	-3.890484953	-1.95995	3.890484953	Down	0.021856267	0.955609729

80704	SLC19A3	Solute carrier family 19 (thiamine transporter), member 3	7.73654	6.80539	7.81923	9.38266	8.54175	8.03075	2.294214048	1.198	2.294214048	Up	0.025848971	0.955609729
127845	GOLT1A	Golgi transport 1A	5.99845	6.77961	6.84567	8.17417	7.49718	7.41726	2.226781496	1.15496	2.226781496	Up	0.008673497	0.955609729
10562	OLFM4	Olfactomedin 4	3.12138	4.64452	5.00161	6.67413	5.16973	5.5311	2.899525179	1.535816667	2.899525179	Up	0.03455814	0.955609729
2321	FLT1	Fms-related tyrosine kinase 1	6.9715	5.30175	5.47977	3.96068	4.10089	4.94421	-2.994703836	-1.582413333	2.994703836	Down	0.015348392	0.955609729
10321	CRISP3	Cysteine-rich secretory protein 3	4.22429	5.16419	5.83304	8.833	7.39642	8.30312	8.596046776	3.103673333	8.596046776	Up	0.000569554	0.955609729
344	APOC2	Apolipoprotein C-II	6.06565	6.58253	5.60903	6.71307	7.13457	7.14033	1.879375483	0.910253333	1.879375483	Up	0.0153779	0.955609729
253635	GPATCH11	G-patch domain containing 11	4.3091	4.26509	4.47609	5.23274	5.19754	4.44669	1.525092414	0.608896667	1.525092414	Up	0.036127545	0.955609729
7075	TIE1	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1	7.72388	5.65439	5.631	4.60895	5.19698	4.87933	-2.715723626	-1.441336667	2.715723626	Down	0.040468995	0.955609729
10141	LINC01587	Long intergenic non-protein	5.13638	6.01497	6.12998	6.74036	6.66453	6.54656	1.853227505	0.89004	1.853227505	Up	0.017391422	0.955609729

		coding RNA 1587											
5332	PLCB4	Phospholipase C β4	5.6053	4.38853	4.74187	3.19283	4.02253	3.74823	-2.390595434	-1.25737	2.390595434	Down	0.009872289	0.955609729
3791	KDR	Kinase insert domain receptor	7.71087	7.03969	7.32382	5.83735	6.82885	6.75879	-1.844372423	-0.88313	1.844372423	Down	0.03037232	0.955609729
57631	LRCH2	Leucine-rich repeats and calponin homology (CH) domain containing 2	4.88502	4.18055	4.22661	3.66709	3.49055	3.31906	-1.916525685	-0.938493333	1.916525685	Down	0.003585896	0.955609729
2330	FMO5	Flavin containing monooxygenase 5	7.54629	8.78671	8.22774	9.60398	8.73291	9.51425	2.138797655	1.0968	2.138797655	Up	0.023951777	0.955609729
27145	FILIP1	Filamin A interacting protein 1	6.86584	5.59357	5.31689	3.5379	5.66773	3.67478	-3.099344952	-1.631963333	3.099344952	Down	0.044167949	0.955609729
117177	RAB3IP	RAB3A interacting protein	5.37832	6.66909	6.25659	7.25541	6.88418	7.27212	2.050397086	1.035903333	2.050397086	Up	0.020073506	0.955609729
114905	C1QTNF7	C1q and tumor necrosis factor related protein 7	6.48939	5.57121	5.63706	3.49797	5.76932	4.21929	-2.645780419	-1.403693333	2.645780419	Down	0.047836555	0.955609729
8566	PDXK	Pyridoxal (pyridoxine, vitamin B6)	5.98118	6.7183	6.59846	7.39628	7.01425	6.83207	1.567233347	0.64822	1.567233347	Up	0.04339205	0.955609729

		kinase												
155038	GIMAP8	Gtpase, IMAP family member 8	7.0011	5.72607	5.61452	4.67428	4.76251	5.59595	-2.147984129	-1.102983333	2.147984129	Down	0.039777024	0.955609729
10800	CYSLTR1	Cysteinyl leukotriene receptor 1	5.01017	4.31817	4.49562	3.83407	3.66916	4.00454	-1.707710394	-0.772063333	1.707710394	Down	0.007380425	0.955609729
2022	ENG	Endoglin	7.7622	6.54315	6.73835	4.73813	6.33454	6.01305	-2.49549613	-1.319326667	2.49549613	Down	0.034335528	0.955609729
8824	CES2	Carboxylesterase 2	8.5036	9.22469	9.31169	9.84245	9.49701	9.58793	1.546639181	0.629136667	1.546639181	Up	0.04377643	0.955609729
29842	TFCP2L1	Transcription factor CP2-like 1	5.04464	6.15848	6.58824	7.45633	6.65587	7.13162	2.220400618	1.15082	2.220400618	Up	0.031153081	0.955609729
100506548	LOC100506548	Uncharacterized LOC100506548	3.93373	4.36167	4.61121	5.11542	4.93046	4.79421	1.563190206	0.644493333	1.563190206	Up	0.016281603	0.955609729
7052	TGM2	Transglutaminase 2	4.61798	5.18571	4.76085	4.30247	4.31959	3.63367	-1.704800987	-0.769603333	1.704800987	Down	0.016932459	0.955609729
3557	IL1RN	Interleukin 1 receptor antagonist	6.91105	7.10689	7.54967	8.34007	7.86471	8.01199	1.844274413	0.883053333	1.844274413	Up	0.00713475	0.955609729
283431	GAS2L3	Growth arrest specific 2 like 3	5.84376	6.65602	6.68961	7.03149	7.49887	6.89297	1.675563853	0.744646667	1.675563853	Up	0.040334415	0.955609729
813	CALU	Calumenin	6.71747	5.93435	6.39263	5.7575	4.93046	5.83604	-1.790236267	-0.84015	1.790236267	Down	0.033962281	0.955609729
79827	CLMP	CXADR-like membrane	5.43774	4.87202	4.71977	3.99737	4.34012	4.42947	-1.686684339	-0.75419	1.686684339	Down	0.013438455	0.955609729

79827	CLMP	CXADR-like membrane protein	5.43774	4.87202	4.71977	3.99737	4.34012	4.42947	-1.686684339	-0.75419	1.686684339	Down	0.013438455	0.955609729
731	C8A	Complement component 8, α polypeptide	5.6679	7.07635	7.07818	7.89073	7.57384	8.0504	2.347046893	1.230846667	2.347046893	Up	0.020038289	0.955609729
9032	TM4SF5	Transmembrane 4 L six family member 5	7.48615	8.34996	7.55443	9.28158	8.79713	9.25838	2.488914492	1.315516667	2.488914492	Up	0.002700346	0.955609729
57453	DSCAML1	Down syndrome cell adhesion molecule like 1	4.8363	5.89943	5.72585	6.9493	6.16729	6.19251	1.930766009	0.949173333	1.930766009	Up	0.031834709	0.955609729
8863	PER3	Period circadian clock 3	3.71408	3.9558	4.05255	5.12874	4.34083	4.41311	1.647277182	0.720083333	1.647277182	Up	0.018539831	0.955609729
22941	SHANK2	SH3 and multiple ankyrin repeat domains 2	4.37035	5.48969	6.05202	6.61696	6.5895	6.18883	2.236242536	1.161076667	2.236242536	Up	0.029243598	0.955609729
84676	TRIM63	Tripartite motif containing 63, E3 ubiquitin protein ligase	6.09599	6.64266	6.39685	7.39201	7.70452	6.5989	1.806641182	0.85331	1.806641182	Up	0.032126879	0.955609729

3176	HNMT	Histamine N-methyltransferase	7.41335	8.1581	7.56743	8.88054	8.47133	8.37477	1.818295486	0.862586667	1.818295486	Up	0.012637379	0.955609729
112495	GTF3C6	General transcription factor IIIC subunit 6	9.77974	10.41175	10.25122	11.05048	10.5222	10.68102	1.519570209	0.603663333	1.519570209	Up	0.035910726	0.955609729
3556	IL1RAP	Interleukin 1 receptor accessory protein	3.4082	3.7528	3.78695	4.65299	3.97358	4.26573	1.567121097	0.648116667	1.567121097	Up	0.015786438	0.955609729
1756	DMD	Dystrophin	8.51023	8.99632	8.25355	6.7939	8.40629	7.20025	-2.173298991	-1.119886667	2.173298991	Down	0.038137717	0.955609729
55691	FRMD4A	FERM domain containing 4A	7.71316	8.03075	8.16911	8.9379	8.35913	8.91141	1.699534914	0.76514	1.699534914	Up	0.013027478	0.955609729
25827	FBXL2	F-box and leucine-rich repeat protein 2	6.2173	5.30458	5.27967	5.12159	4.86505	4.61833	-1.661162643	-0.732193333	1.661162643	Down	0.042172116	0.955609729
114294	LACTB	Lactamase β	7.35344	7.41234	7.29355	8.45789	8.05728	8.10379	1.806515959	0.85321	1.806515959	Up	0.002022108	0.955609729
27253	PCDH17	Protocadherin 17	6.74136	6.59875	5.42051	4.55903	5.56051	4.68217	-2.496032409	-1.319636667	2.496032409	Down	0.018543892	0.955609729
29970	SCHIP1	Schwannomin interacting protein 1	7.69673	6.98229	6.88494	5.7575	6.03204	6.65385	-2.056498472	-1.04019	2.056498472	Down	0.014692544	0.955609729
2651	GCNT2	Glucosaminyl (N-acetyl) transferase 2,	3.32765	3.80554	3.94279	4.63781	3.96158	4.41905	1.566436912	0.647486667	1.566436912	Up	0.027908384	0.955609729

		I-branching enzyme (I blood group)												
254896	LOC254896	Uncharacterized LOC254896	4.80854	5.73506	5.04325	5.94503	5.84501	5.71225	1.556688194	0.63848	1.556688194	Up	0.043638733	0.955609729
140739	UBE2F	Ubiquitin conjugating enzyme E2F (putative)	6.181	6.28889	5.87162	6.74492	6.84959	6.55013	1.516813104	0.601043333	1.516813104	Up	0.014597746	0.955609729
6819	SULT1C2	Sulfotransferase family 1C member 2	6.72196	9.05175	8.68515	10.50008	9.62695	10.01383	3.716642697	1.894	3.716642697	Up	0.018104673	0.955609729
25802	LMOD1	Leiomodin 1 (smooth muscle)	5.19492	5.29232	5.05287	4.27375	4.99381	4.48647	-1.510849545	-0.59536	1.510849545	Down	0.026282094	0.955609729
84225	ZMYND15	Zinc finger, MYND-type containing 15	6.58107	6.81823	6.23839	7.19784	7.57147	6.76657	1.550496211	0.63273	1.550496211	Up	0.049225283	0.955609729
6926	TBX3	T-box 3	6.1337	4.87552	5.08924	4.10509	4.50374	4.54666	-1.97381941	-0.98099	1.97381941	Down	0.024886922	0.955609729
26255	PTTG3P	Pituitary tumor-transforming 3, pseudogene	4.93315	5.63362	5.28491	4.54147	4.87043	4.62444	-1.521098241	-0.605113333	1.521098241	Down	0.025409802	0.955609729
1265	CNN2	Calponin 2	4.01497	4.08674	4.70155	3.44111	3.94468	3.60025	-1.521759107	-0.60574	1.521759107	Down	0.032090405	0.955609729
57669	EPB41L5	Erythrocyte membrane	4.80564	5.29013	5.54639	6.3026	5.69453	5.79819	1.644580924	0.71772	1.644580924	Up	0.028697357	0.955609729

		protein band 4.1 like 5												
101059938	NPIPA7	Nuclear pore complex interacting protein family member A7	6.70725	7.99302	7.37651	8.22062	8.13039	8.1216	1.739424428	0.79861	1.739424428	Up	0.043520998	0.955609729
1272	CNTN1	Contactin 1	6.73803	5.52298	4.6665	2.72684	5.22865	3.23164	-3.767114803	-1.91346	3.767114803	Down	0.041615226	0.955609729
2118	ETV4	Ets variant 4	7.32345	9.03845	8.52	9.52311	9.29648	9.15458	2.043095536	1.030756667	2.043095536	Up	0.047399034	0.955609729
3480	IGF1R	Insulin like growth factor 1 receptor	6.00857	5.92714	5.93501	4.78577	5.65894	5.54104	-1.545767494	-0.628323333	1.545767494	Down	0.042208471	0.955609729
54843	SYTL2	Synaptotagmin like 2	7.0938	6.70177	6.87649	6.38644	6.281	5.87108	-1.637142611	-0.71118	1.637142611	Down	0.011485561	0.955609729
6167	RPL37	Ribosomal protein L37	3.93373	4.36167	4.61121	5.11542	4.93046	4.79421	1.563190206	0.644493333	1.563190206	Up	0.016281603	0.955609729
55715	DOK4	Docking protein 4	8.93015	9.71637	9.18168	10.14918	9.69306	9.84028	1.534859573	0.618106667	1.534859573	Up	0.042767586	0.955609729
11037	STON1	Stonin 1	7.88192	6.61149	6.30419	4.41444	6.56373	4.87711	-3.132772487	-1.64744	3.132772487	Down	0.039128042	0.955609729
25890	ABI3BP	ABI family member 3 binding protein	10.54479	9.74565	9.77358	9.5229	9.23296	9.05153	-1.684371068	-0.75221	1.684371068	Down	0.026617833	0.955609729
79974	CPED1	Cadherin-like and PC-esterase	5.82375	5.01713	4.26789	3.82405	4.37463	3.8681	-2.019497929	-1.013996667	2.019497929	Down	0.036534141	0.955609729

79974	CPED1	Cadherin-like and PC-esterase domain containing 1	5.82375	5.01713	4.26789	3.82405	4.37463	3.8681	-2.019497929	-1.013996667	2.019497929	Down	0.036534141	0.955609729
3148	HMGB2	High mobility group box 2	8.89441	7.78942	8.5038	6.77996	7.35421	7.36426	-2.345236367	-1.229733333	2.345236367	Down	0.007406759	0.955609729
84513	PLPP5	Phospholipid phosphatase 5	4.23119	4.91952	4.9017	5.37328	5.41148	5.17187	1.552657907	0.63474	1.552657907	Up	0.024744828	0.955609729
384	ARG2	Arginase 2	4.2979	4.78344	4.60113	5.30527	5.21602	5.18457	1.596002967	0.674463333	1.596002967	Up	0.004831871	0.955609729
136895	C7orf31	Chromosome 7 open reading frame 31	4.9425	5.01029	4.77859	5.54421	5.16326	5.96539	1.566082267	0.64716	1.566082267	Up	0.025056329	0.955609729
89122	TRIM4	Tripartite motif containing 4	3.41149	4.59812	4.36346	4.8958	4.96467	4.77823	1.687877263	0.75521	1.687877263	Up	0.043303095	0.955609729
94274	PPP1R14A	Protein phosphatase 1 regulatory inhibitor subunit 14A	10.45587	9.18509	8.8964	6.41756	9.27033	6.47619	-4.360297785	-2.124426667	4.360297785	Down	0.039001009	0.955609729
1906	EDN1	Endothelin 1	6.65554	7.08405	6.93454	7.91204	7.33735	7.32048	1.549618769	0.631913333	1.549618769	Up	0.029390674	0.955609729
258010	SVIP	Small VCP/p97-interacting protein	6.6531	7.1359	7.19398	7.65916	7.25663	7.84139	1.506708157	0.5914	1.506708157	Up	0.042292622	0.955609729

3688	ITGB1	Integrin β 1	9.84964	9.49164	9.24373	8.61338	8.20969	9.04325	-1.874141653	-0.90623	1.874141653	Down	0.012743935	0.955609729
1646	AKR1C2	Aldo-keto reductase family 1, member C2	5.73796	5.85801	6.00776	5.22846	5.48921	5.11116	-1.506951863	-0.591633333	1.506951863	Down	0.010684943	0.955609729
6563	SLC14A1	Solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	7.80077	8.98518	7.49524	10.46218	8.32855	10.12263	2.916133296	1.544056667	2.916133296	Up	0.047389682	0.955609729
1184	CLCN5	Chloride channel, voltage-sensitive 5	5.77026	6.88118	6.49132	7.34552	7.22933	6.88008	1.70612498	0.770723333	1.70612498	Up	0.04279082	0.955609729
18	ABAT	4-aminobutyrate aminotransferase	6.21385	6.9098	6.15204	7.08276	6.79926	7.43479	1.602554402	0.680373333	1.602554402	Up	0.044318313	0.955609729
158471	PRUNE2	Prune homolog 2 (Drosophila)	7.29053	7.08048	7.03887	5.91321	7.0461	5.46999	-1.991046157	-0.993526667	1.991046157	Down	0.041461144	0.955609729
22915	MMRN1	Multimerin 1	9.65241	6.3822	6.2938	4.48901	5.46221	5.47451	-4.927627953	-2.300893333	4.927627953	Down	0.039715474	0.955609729
100127888	SLCO4A1-AS1	SLCO4A1 antisense RNA 1	4.17018	4.8587	4.79399	7.00298	5.38179	6.29623	3.072422599	1.619376667	3.072422599	Up	0.006932207	0.955609729
55701	ARHG	Rho guanine	6.143	6.806	6.608	7.355	7.031	7.033	1.5375357	0.62062	1.537535	Up	0.029101	0.955609

	EF40	nucleotide exchange factor (GEF) 40	29	11	19	11	19	15	97		797		318	729
9750	FAM65B	Family with sequence similarity 65 member B	5.52047	4.07092	5.34741	3.85403	3.66189	4.22593	-2.09311271	-1.06565	2.09311271	Down	0.030867911	0.955609729
3235	HOXD9	Homeobox D9	5.34209	4.8357	4.8743	4.10841	4.69016	4.32743	-1.56052341	-0.64203	1.56052341	Down	0.021005711	0.955609729
2669	GEM	GTP binding protein overexpressed in skeletal muscle	7.36613	5.85017	5.09269	3.68372	5.25079	4.37497	-3.174442692	-1.666503333	3.174442692	Down	0.036218487	0.955609729
10550	ARL6IP5	ADP ribosylation factor like gtpase 6 interacting protein 5	10.3226	9.92641	9.48523	9.30428	9.08938	9.44007	-1.551327552	-0.633503333	1.551327552	Down	0.037114281	0.955609729
54206	ERRFI1	ERBB receptor feedback inhibitor 1	9.88726	8.77667	9.1962	8.52721	8.45321	8.66681	-1.667438248	-0.737633333	1.667438248	Down	0.040187127	0.955609729
100134934	TEN1	TEN1 CST complex subunit	6.63976	6.40313	6.80187	7.40334	7.13034	7.3433	1.599262397	0.677406667	1.599262397	Up	0.007672476	0.955609729
406	ARNTL	Aryl hydrocarbon receptor	7.18308	6.62266	6.65851	5.3651	6.33485	4.77137	-2.515729255	-1.330976667	2.515729255	Down	0.014163897	0.955609729

		nuclear translocator like												
285596	FAM153A	Family with sequence similarity 153 member A	3.68869	4.0597	3.03113	3.96192	4.77083	4.72872	1.85829988	0.893983333	1.85829988	Up	0.029300486	0.955609729
81557	MAGED4B	Melanoma antigen family D4B	5.46145	6.50094	4.99384	6.90646	6.98994	6.87491	2.414447901	1.271693333	2.414447901	Up	0.012137053	0.955609729
2294	FOXF1	Forkhead box F1	7.22093	7.81116	7.83101	5.61615	7.29407	5.92498	-2.536138147	-1.342633333	2.536138147	Down	0.021787513	0.955609729
8857	FCGBP	Fc fragment of igg binding protein	11.1842	11.43776	13.1499	13.29505	13.17828	13.35627	2.553683977	1.35258	2.553683977	Up	0.0301196	0.955609729
1628	DBP	D site of albumin promoter (albumin D-box) binding protein	5.9074	6.78317	6.87615	8.1046	6.76394	7.93155	2.110800163	1.07779	2.110800163	Up	0.041609543	0.955609729
392465	GLOD5	Glyoxalase domain containing 5	5.00693	5.81513	5.23952	6.00501	6.20271	5.89121	1.601159097	0.679116667	1.601159097	Up	0.026499041	0.955609729
2982	GUCY1A3	Guanylate cyclase 1, soluble, α 3	6.05175	5.68398	5.84307	5.06444	4.27531	5.62421	-1.829707878	-0.871613333	1.829707878	Down	0.038606931	0.955609729
10631	POSTN	Periostin,	6.025	4.915	4.687	3.911	4.032	4.470	-2.1010638	-1.07112	2.101063	Down	0.022666	0.955609

10631	POSTN	Periostin, osteoblast specific factor	6.02537	4.91566	4.68719	3.91176	4.03273	4.47037	-2.101063842	-1.07112	2.101063842	Down	0.02266663	0.955609729
57144	PAK7	P21 protein (Cdc42/Rac)-activated kinase 7	5.37311	6.86432	6.32054	7.6433	6.82699	8.05523	2.501020125	1.322516667	2.501020125	Up	0.025155416	0.955609729
5142	PDE4B	Phosphodiesterase 4B	7.27315	4.17499	5.53822	3.26901	4.05672	4.11344	-3.60266207	-1.849063333	3.60266207	Down	0.041430237	0.955609729
25780	RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	6.21067	5.89315	6.53161	5.0368	5.77098	5.60738	-1.670280033	-0.74009	1.670280033	Down	0.026707015	0.955609729
1952	CELSR2	Cadherin, EGF LAG seven-pass G-type receptor 2	4.8278	5.59241	5.44282	6.30749	5.68073	5.86834	1.585029839	0.66451	1.585029839	Up	0.042945799	0.955609729
9630	GNA14	Guanine nucleotide binding protein (G protein), α 14	5.48101	4.1776	4.56219	2.98759	3.95265	3.53521	-2.375860286	-1.24845	2.375860286	Down	0.014615645	0.955609729
2259	FGF14	Fibroblast growth factor 14	4.31395	4.86193	4.91523	6.35476	4.92148	6.0785	2.125609627	1.087876667	2.125609627	Up	0.02868893	0.955609729
1368	CPM	Carboxypept	6.496	6.644	6.014	7.583	6.570	7.612	1.8283048	0.870506	1.828304	Up	0.036970	0.955609

63982	ANO3	Anoctamin 3	6.86775	8.89333	8.03012	9.53631	8.72612	9.30752	2.394265818	1.259583333	2.394265818	Up	0.044636301	0.955609729
2147	F2	Coagulation factor II (thrombin)	6.46643	6.95224	6.94369	7.18338	7.26417	7.82488	1.554757956	0.63669	1.554757956	Up	0.037055224	0.955609729
135656	DPCR1	Diffuse panbronchiolitis critical region 1	6.95642	8.88316	6.36644	9.05111	8.67817	9.55637	3.233754149	1.69321	3.233754149	Up	0.03380494	0.955609729
283377	SPRYD4	SPRY domain containing 4	6.14915	6.8962	6.42647	7.01493	7.34858	6.91737	1.518892746	0.60302	1.518892746	Up	0.043465866	0.955609729
26230	TIAM2	T-cell lymphoma invasion and metastasis 2	6.06614	6.95817	6.29399	7.156	6.99597	7.00719	1.530093696	0.61362	1.530093696	Up	0.048179562	0.955609729
84159	ARID5B	AT-rich interaction domain 5B	4.63065	5.5884	5.76194	6.03861	5.91948	6.32349	1.701566262	0.766863333	1.701566262	Up	0.047927243	0.955609729
642475	MROH6	Maestro heat-like repeat family member 6	6.11898	6.77902	6.3493	7.39173	6.91439	7.18086	1.677787497	0.74656	1.677787497	Up	0.015790581	0.955609729
283232	TMEM80	Transmembrane protein 80	5.56393	5.49429	5.32187	6.30492	5.77949	6.24439	1.56870057	0.64957	1.56870057	Up	0.01328737	0.955609729
5019	OXCT1	3-oxoacid coa-transferase 1	7.19674	5.27336	5.03636	3.7891	5.01063	4.29445	-2.771678649	-1.47076	2.771678649	Down	0.047993631	0.955609729
5175	PECAM1	Platelet/endothelial cell	10.68623	8.83193	8.83237	7.49324	8.00227	8.4386	-2.774331148	-1.47214	2.774331148	Down	0.031146665	0.955609729

5175	PECAM1	Platelet/endothelial cell adhesion molecule 1	10.68623	8.83193	8.83237	7.49324	8.00227	8.4386	-2.774331148	-1.47214	2.774331148	Down	0.031146665	0.955609729
166348	KBTBD12	Kelch repeat and BTB (POZ) domain containing 12	4.94459	5.29188	4.4749	5.28086	5.58882	6.37417	1.795219186	0.84416	1.795219186	Up	0.042023686	0.955609729
399669	ZNF321P	Zinc finger protein 321, pseudogene	5.42565	6.60386	6.31397	7.30441	7.40459	6.63712	2.001220311	1.00088	2.001220311	Up	0.028817304	0.955609729
85480	TSLP	Thymic stromal lymphopoietin	4.64221	3.87323	4.57103	3.00728	3.91712	3.19298	-1.98576743	-0.989696667	1.98576743	Down	0.014214436	0.955609729
9720	CCDC144A	Coiled-coil domain containing 144A	4.16657	3.23321	3.50829	4.60131	4.33706	4.13917	1.650790072	0.723156667	1.650790072	Up	0.026880281	0.955609729
3306	HSPA2	Heat shock protein family A (Hsp70) member 2	6.61305	5.41262	5.06584	4.94917	4.49323	4.73258	-1.961798227	-0.972176667	1.961798227	Down	0.045787785	0.955609729
202134	FAM153B	Family with sequence similarity 153 member B	3.68869	4.0597	3.03113	3.96192	4.77083	4.72872	1.85829988	0.893983333	1.85829988	Up	0.029300486	0.955609729

6580	SLC22A1	Solute carrier family 22 (organic cation transporter), member 1	5.30967	6.05123	5.59142	7.1748	6.7265	6.81397	2.385541305	1.254316667	2.385541305	Up	0.001493611	0.955609729
83661	MS4A8	Membrane-spanning 4-domains, subfamily A, member 8	6.14081	7.34354	6.97255	7.90313	7.64616	7.91508	2.003454854	1.00249	2.003454854	Up	0.016940921	0.955609729
84707	BEX2	Brain expressed X-linked 2	6.63786	7.99549	7.36425	8.41969	8.27601	8.17895	1.943984434	0.959016667	1.943984434	Up	0.026864701	0.955609729
81606	LBH	Limb bud and heart development	5.17806	5.0556	5.49202	3.87392	4.81064	4.5123	-1.79370172	-0.84294	1.79370172	Down	0.015947821	0.955609729
116159	CYYR1	Cysteine/tyrosine-rich 1	8.03254	6.17836	5.96907	4.62117	5.44168	5.55978	-2.866148447	-1.519113333	2.866148447	Down	0.034379184	0.955609729
1733	DIO1	Deiodinase, iodothyronine, type I	5.29794	6.07712	5.18107	7.58129	7.67892	7.43856	4.13402372	2.047546667	4.13402372	Up	0.000144984	0.955609729
5340	PLG	Plasminogen	4.23045	4.01421	4.60298	5.44372	4.84777	6.03869	2.235886054	1.160846667	2.235886054	Up	0.009069436	0.955609729
29094	LGALSL	Lectin, galactoside-binding-like	4.19306	3.77977	4.00931	4.96714	4.3767	4.60698	1.575955356	0.656226667	1.575955356	Up	0.01192686	0.955609729
563	AZGP1	A-2-glycoprotein 1, zinc-binding	9.25307	9.53399	9.54028	10.10918	10.01544	10.40746	1.664297487	0.734913333	1.664297487	Up	0.004879748	0.955609729

1903	S1PR3	Sphingosine-1-phosphate receptor 3	7.11302	6.41307	6.11461	4.17265	6.185	4.49489	-3.023151614	-1.596053333	3.023151614	Down	0.024359796	0.955609729
1124	CHN2	Chimerin 2	6.36212	6.49398	6.0664	7.48578	6.96308	7.84714	2.180259714	1.1245	2.180259714	Up	0.004104425	0.955609729
81889	FAHD1	Fumarylacetoacetate hydrolase domain containing 1	6.25413	7.09605	7.03754	8.06332	7.23935	8.13271	2.022145302	1.015886667	2.022145302	Up	0.020727037	0.955609729
8404	SPARCL1	SPARC like 1	11.127	9.718	9.3434	6.20234	8.75185	8.02838	-5.285146027	-2.401943333	5.285146027	Down	0.014673519	0.955609729
116441	TM4SF18	Transmembrane 4 L six family member 18	6.82149	5.4237	5.36562	3.47865	4.54942	5.06364	-2.840936661	-1.506366667	2.840936661	Down	0.026313601	0.955609729
9099	USP2	Ubiquitin specific peptidase 2	5.79999	5.86956	5.10962	7.16723	6.14325	6.40313	1.969933142	0.978146667	1.969933142	Up	0.023009257	0.955609729
56650	CLDND1	Claudin domain containing 1	7.72055	6.77058	6.90828	6.67668	5.85459	6.28875	-1.814782517	-0.859796667	1.814782517	Down	0.035154111	0.955609729
928	CD9	CD9 molecule	10.46311	9.34192	8.82678	7.26125	8.56255	8.33256	-2.812428982	-1.491816667	2.812428982	Down	0.022532912	0.955609729
147184	TMEM99	Transmembrane protein 99	7.6947	7.40063	7.99927	8.61261	8.21407	8.31538	1.604903626	0.682486667	1.604903626	Up	0.016788476	0.955609729
9975	NR1D2	Nuclear receptor subfamily 1 group D	4.85903	5.46269	6.11962	7.25161	5.93168	6.98962	2.368307918	1.243856667	2.368307918	Up	0.027483549	0.955609729

9975	NR1D2	Nuclear receptor subfamily 1 group D member 2	4.85903	5.46269	6.11962	7.25161	5.93168	6.98962	2.368307918	1.243856667	2.368307918	Up	0.027483549	0.955609729
100507387	LOC100507387	Uncharacterized LOC100507387	3.68869	4.0597	3.03113	3.96192	4.77083	4.72872	1.85829988	0.893983333	1.85829988	Up	0.029300486	0.955609729
55824	PAG1	Phosphoprotein membrane anchor with glycosphingolipid microdomains 1	6.39276	6.96324	7.0421	7.85755	7.23139	7.51684	1.665428403	0.735893333	1.665428403	Up	0.024654731	0.955609729
2697	GJA1	Gap junction protein α 1	4.52831	3.88593	4.40262	3.49652	3.85942	3.69677	-1.503213575	-0.58805	1.503213575	Down	0.021184342	0.955609729
285	ANGPT2	Angiopoietin 2	5.43242	4.39169	4.85051	4.23567	4.41553	3.70837	-1.70726065	-0.771683333	1.70726065	Down	0.040615126	0.955609729
9532	BAG2	BCL2 associated athanogene 2	6.83576	5.91758	6.54848	5.11312	5.69073	5.62249	-1.943279387	-0.958493333	1.943279387	Down	0.013434065	0.955609729
6678	SPARC	Secreted protein, acidic, cysteine-rich (osteonectin)	11.18178	8.46127	7.67109	4.62444	7.44996	7.1419	-6.49477704	-2.69928	6.49477704	Down	0.043319277	0.955609729
79924	ADM2	Adrenomedullin 2	5.39346	6.53322	6.01058	6.84164	6.71039	6.53299	1.642530318	0.71592	1.642530318	Up	0.049580221	0.955609729

4495	MT1G	Metallothionein 1G	10.14394	10.70426	10.48559	12.04633	11.76997	12.34409	3.050121402	1.608866667	3.050121402	Up	0.00019533	0.955609729
1397	CRIP2	Cysteine-rich protein 2	8.29507	7.855	8.32589	7.64456	6.96443	7.776	-1.621119003	-0.69699	1.621119003	Down	0.036913353	0.955609729
153562	MARVELD2	MARVEL domain containing 2	6.56864	8.40885	8.34554	9.40837	8.63983	9.03904	2.38623589	1.254736667	2.38623589	Up	0.0472142	0.955609729
7780	SLC30A2	Solute carrier family 30 (zinc transporter), member 2	8.71561	10.00072	9.85077	10.59677	10.4356	10.72555	2.090150269	1.063606667	2.090150269	Up	0.019267779	0.955609729
445815	PALM2-AKAP2	PALM2-AKAP2 readthrough	10.14756	8.85323	9.06801	8.56371	8.50612	8.51151	-1.776642408	-0.829153333	1.776642408	Down	0.046346954	0.955609729
84172	POLR1B	Polymerase (RNA) I polypeptide B	4.75452	5.0159	5.22821	5.51181	5.92182	5.75452	1.658455153	0.72984	1.658455153	Up	0.006954787	0.955609729
80343	SEL1L2	Sel-1 suppressor of lin-12-like 2 (C. Elegans)	4.85057	4.58405	4.65116	3.73292	4.36926	3.95275	-1.598756251	-0.67695	1.598756251	Down	0.009486051	0.955609729
58494	JAM2	Junctional adhesion molecule 2	5.97316	4.51812	3.9626	3.05466	3.8649	3.67332	-2.440201021	-1.287	2.440201021	Down	0.041366636	0.955609729
9058	SLC13A2	Solute carrier family 13 (sodium-dep	9.00713	9.87465	9.31711	10.40636	10.04087	10.43	1.856750543	0.89278	1.856750543	Up	0.011123921	0.955609729

		endent dicarboxylate transporter), member 2												
79783	SUGCT	Succinyl-coa:glutarate-coa transferase	5.22474	5.70132	6.10452	4.27268	5.32878	4.83122	-1.822560451	-0.865966667	1.822560451	Down	0.036466042	0.955609729
100288332	NPIPA5	Nuclear pore complex interacting protein family member A5	6.70725	7.99302	7.37651	8.22062	8.13039	8.1216	1.739424428	0.79861	1.739424428	Up	0.043520998	0.955609729
25777	SUN2	Sad1 and UNC84 domain containing 2	5.05381	4.68023	5.0998	4.58228	4.02772	4.36094	-1.537905298	-0.620966667	1.537905298	Down	0.016731956	0.955609729
6451	SH3BGRL	SH3 domain binding glutamate-rich protein like	8.38899	7.76771	7.71777	7.24389	6.87719	7.55091	-1.663428667	-0.73416	1.663428667	Down	0.029518603	0.955609729
9465	AKAP7	A-kinase anchoring protein 7	7.95662	8.90638	8.30835	9.22236	9.05386	9.59779	1.867213202	0.900886667	1.867213202	Up	0.016724219	0.955609729
10804	GJB6	Gap junction protein β 6	5.21204	6.49664	5.94119	7.19145	6.49512	6.93984	1.989188506	0.99218	1.989188506	Up	0.028658985	0.955609729
1031	CDKN2C	Cyclin-dependent kinase inhibitor 2C (p18, inhibits	7.335	5.50613	5.46994	4.25405	5.26275	4.89503	-2.461856493	-1.299746667	2.461856493	Down	0.049905827	0.955609729

1031	CDKN2C	Cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	7.335	5.50613	5.46994	4.25405	5.26275	4.89503	-2.461856493	-1.299746667	2.461856493	Down	0.049905827	0.955609729
154761	LOC154761	Family with sequence similarity 115, member C pseudogene	5.92317	6.01918	6.42891	7.22699	7.08036	6.95274	1.949282696	0.962943333	1.949282696	Up	0.00194573	0.955609729
7430	EZR	Ezrin	7.69011	8.51457	8.94329	9.52088	9.08617	9.13489	1.820906275	0.864656667	1.820906275	Up	0.037544454	0.955609729
9867	PJA2	Praja ring finger 2, E3 ubiquitin protein ligase	6.33444	6.25731	6.65296	6.19944	4.99889	5.60395	-1.758253798	-0.814143333	1.758253798	Down	0.038031693	0.955609729
64853	AIDA	Axin interactor, dorsalization associated	6.40668	5.66146	5.9835	5.18312	4.90105	5.79867	-1.650534544	-0.722933333	1.650534544	Down	0.046277344	0.955609729
54346	UNC93A	Unc-93 homolog A (C. Elegans)	2.87979	3.86279	4.02048	6.28794	4.93169	4.78257	3.355156356	1.74638	3.355156356	Up	0.008516354	0.955609729
222584	FAM83B	Family with sequence similarity 83 member B	3.28266	3.80458	4.25625	4.37871	4.48636	4.56854	1.62080066	0.696706667	1.62080066	Up	0.025064437	0.955609729
29785	CYP2S1	Cytochrome P450, family	6.97988	7.8761	7.00181	8.41673	9.00599	7.91493	2.234501996	1.159953333	2.234501996	Up	0.016169285	0.955609729

388650	FAM69A	Family with sequence similarity 69 member A	7.05322	6.21136	6.34414	6.02616	5.33503	5.85003	-1.740095718	-0.799166667	1.740095718	Down	0.030864694	0.955609729
10268	RAMP3	Receptor (G protein-coupled) activity modifying protein 3	8.7371	7.09844	7.32549	6.27427	7.01232	6.54269	-2.159329391	-1.110583333	2.159329391	Down	0.045755439	0.955609729
25987	TSKU	Tsukushi, small leucine rich proteoglycan	8.58319	8.21682	8.85266	7.7821	8.33242	7.7633	-1.506934454	-0.591616667	1.506934454	Down	0.049505143	0.955609729
54928	IMPAD1	Inositol monophosphatase domain containing 1	6.56025	5.68029	5.7066	5.36007	4.82925	5.45996	-1.700493314	-0.765953333	1.700493314	Down	0.039821347	0.955609729
51409	HEMK1	Hemk methyltransferase family member 1	4.21934	5.16043	4.58033	5.54806	5.36898	5.087	1.6035989	0.681313333	1.6035989	Up	0.038378038	0.955609729
100287413	LOC100287413	Uncharacterized LOC100287413	3.60313	4.55984	4.16431	4.68419	4.9627	4.5569	1.542748972	0.625503333	1.542748972	Up	0.046498198	0.955609729
4600	MX2	MX dynamin-like gtpase 2	7.77778	7.49538	7.40692	8.20222	8.42234	8.60596	1.80268418	0.850146667	1.80268418	Up	0.003140963	0.955609729
1797	DXO	Decapping exoribonuclease	7.89844	7.8536	8.26059	6.2872	7.48287	6.36953	-2.446993043	-1.29101	2.446993043	Down	0.007928414	0.955609729

10580	SORBS1	Sorbin and SH3 domain containing 1	11.43304	9.59138	9.43059	7.5514	9.02264	8.35306	-3.586649251	-1.842636667	3.586649251	Down	0.020748544	0.955609729
7903	ST8SIA4	ST8 α-N-acetyl-neuraminide α-2,8-sialyltransferase 4	5.4135	6.18019	6.04885	4.08678	4.87149	5.49882	-2.087558557	-1.061816667	2.087558557	Down	0.030140968	0.955609729
64781	CERK	Ceramide kinase	6.79889	6.99272	7.46089	7.92731	7.48885	7.71974	1.545206873	0.6278	1.545206873	Up	0.030835743	0.955609729
57619	SHROOM3	Shroom family member 3	8.82903	10.08217	10.00326	10.92889	10.41346	10.32335	1.888289544	0.91708	1.888289544	Up	0.044039197	0.955609729
80344	DCAF11	DDB1 and CUL4 associated factor 11	7.08556	7.58474	7.34787	8.05895	8.20885	8.02041	1.689597962	0.75668	1.689597962	Up	0.005252604	0.955609729
775	CACNA1C	Calcium channel, voltage-dependent, L type, α 1C subunit	5.91138	5.29592	4.66298	4.13982	4.82306	4.20215	-1.868330909	-0.90175	1.868330909	Down	0.036606075	0.955609729
101059953	NPIPA8	Nuclear pore complex interacting protein family member A8	6.70725	7.99302	7.37651	8.22062	8.13039	8.1216	1.739424428	0.79861	1.739424428	Up	0.043520998	0.955609729
4640	MYO1A	Myosin IA	7.19453	8.31363	7.35728	8.45988	8.42083	8.25692	1.690437488	0.757396667	1.690437488	Up	0.045524223	0.955609729

3751	KCND2	Potassium channel, voltage gated Shal related subfamily D, member 2	4.72799	5.22287	5.26234	5.74621	5.70666	5.73736	1.578998718	0.65901	1.578998718	Up	0.010009956	0.955609729
2634	GBP2	Guanylate binding protein 2, interferon-inducible	7.14267	6.83939	6.80187	5.34228	6.141	6.68082	-1.831818628	-0.873276667	1.831818628	Down	0.03973173	0.955609729
645954	SVILP1	Supervillin pseudogene 1	6.53557	7.12427	6.83096	5.26317	6.09226	6.24846	-1.948418158	-0.962303333	1.948418158	Down	0.017044512	0.955609729
5504	PPP1R2	Protein phosphatase 1 regulatory inhibitor subunit 2	3.78894	3.36127	3.40949	4.59208	3.95219	3.87144	1.535459011	0.61867	1.535459011	Up	0.029354265	0.955609729
84873	ADGRG7	Adhesion G protein-coupled receptor G7	3.17857	4.23839	4.45469	5.21716	4.51365	5.00258	1.937120007	0.953913333	1.937120007	Up	0.034708324	0.955609729
4629	MYH11	Myosin, heavy chain 11, smooth muscle	5.83741	6.66909	6.70445	3.60782	5.76064	4.01513	-3.843587024	-1.942453333	3.843587024	Down	0.012253837	0.955609729
9068	ANGPTL1	Angiopoietin like 1	6.75843	5.80568	5.42256	4.20536	4.5904	5.27873	-2.469227904	-1.30406	2.469227904	Down	0.016837705	0.955609729
8829	NRP1	Neuropilin 1	6.05859	5.49522	6.06472	5.26693	4.97933	5.21682	-1.645451306	-0.718483333	1.645451306	Down	0.011375334	0.955609729

100529240	ZNF816-ZNF321P	ZNF816-ZNF321P readthrough	5.42565	6.60386	6.31397	7.30441	7.40459	6.63712	2.001220311	1.00088	2.001220311	Up	0.028817304	0.955609729
23704	KCNE4	Potassium channel, voltage gated subfamily E regulatory β subunit 4	6.37988	6.55621	5.54588	3.95005	5.70851	4.11183	-2.970131212	-1.570526667	2.970131212	Down	0.019386476	0.955609729
54854	FAM83E	Family with sequence similarity 83 member E	6.15388	7.18796	7.46918	8.20634	7.51787	7.81032	1.876229965	0.907836667	1.876229965	Up	0.047249975	0.955609729
6920	TCEA3	Transcription elongation factor A (SII), 3	8.19571	8.34132	8.03098	8.93848	8.58979	8.99661	1.571660925	0.65229	1.571660925	Up	0.010315413	0.955609729
5144	PDE4D	Phosphodiesterase 4D	4.46353	4.52396	4.73349	3.2197	4.22995	4.13625	-1.637725235	-0.711693333	1.637725235	Down	0.038064	0.955609729
9472	AKAP6	A-kinase anchoring protein 6	5.31008	5.77955	6.03695	4.6925	4.80803	4.68463	-1.973112661	-0.980473333	1.973112661	Down	0.002526939	0.955609729
100526832	PHOSPHO2-KLHL23	PHOSPHO2-KLHL23 readthrough	4.84124	5.60966	5.18107	6.23534	5.97823	5.61702	1.6619458	0.732873333	1.6619458	Up	0.026046052	0.955609729
389376	SFTA2	Surfactant associated 2	8.09184	9.22039	8.57636	9.48339	9.71674	9.51244	1.920293281	0.941326667	1.920293281	Up	0.015911406	0.955609729
6541	SLC7A1	Solute carrier family 7 (cationic	4.53443	5.05435	4.74247	5.33815	5.58197	5.60243	1.659137362	0.730433333	1.659137362	Up	0.005637524	0.955609729

		amino acid transporter, y+ system), member 1												
229	ALDOB	Aldolase, fructose-bisphosphate B	4.79307	6.05438	4.76424	6.17425	5.89499	6.72964	2.088397978	1.062396667	2.088397978	Up	0.035071901	0.955609729
3158	HMGCS2	3-hydroxy-3-methylglutaryl-coa synthase 2 (mitochondrial)	8.40162	7.09511	6.42248	8.74404	9.36646	9.09609	3.39276146	1.76246	3.39276146	Up	0.009638285	0.955609729
3419	IDH3A	Isocitrate dehydrogenase 3 (NAD+) α	5.01243	4.34273	4.55457	4.20009	3.59901	3.91464	-1.660936211	-0.731996667	1.660936211	Down	0.015632015	0.955609729
54065	SMIM11A	Small integral membrane protein 11A	5.72511	5.87277	6.12979	7.16954	6.33185	6.63989	1.746584772	0.804536667	1.746584772	Up	0.016401594	0.955609729
10136	CELA3A	Chymotrypsin like elastase family member 3A	3.34836	3.79293	3.34063	4.6902	4.41693	4.94855	2.283510357	1.191253333	2.283510357	Up	0.000531616	0.955609729
23057	NMNAT2	Nicotinamide nucleotide adenylyltransferase 2	5.90012	5.73907	5.06125	4.38705	5.10312	4.24549	-1.983790945	-0.98826	1.983790945	Down	0.016489832	0.955609729
261729	STEAP	STEAP2	6.486	6.892	7.210	7.383	7.78	7.243	1.5217063	0.60569	1.521706	Up	0.047020	0.955609

	2	metalloreductase	05	58	52	11		11	68		368		49	729
64943	NT5DC2	5’-nucleotidase domain containing 2	6.06526	4.87732	5.79045	4.02577	5.34011	4.22038	-2.068985212	-1.048923333	2.068985212	Down	0.04973934	0.955609729
5788	PTPRC	Protein tyrosine phosphatase, receptor type, C	6.92578	6.39915	6.74984	5.93716	5.8343	6.49854	-1.517387965	-0.60159	1.517387965	Down	0.044848857	0.955609729
6251	RSU1	Ras suppressor protein 1	8.60448	7.66544	8.09434	7.1465	7.35079	7.62109	-1.680192656	-0.748626667	1.680192656	Down	0.031022993	0.955609729
144501	KRT80	Keratin 80, type II	4.8351	5.41487	4.86976	6.19668	6.22749	5.13174	1.755716612	0.81206	1.755716612	Up	0.04996586	0.955609729
100533990	APOC4-APOC2	APOC4-APOC2 readthrough (NMD candidate)	6.06565	6.58253	5.60903	6.71307	7.13457	7.14033	1.879375483	0.910253333	1.879375483	Up	0.0153779	0.955609729
8618	CADPS	Ca++-dependent secretion activator	6.13006	6.78967	6.54576	7.63299	7.90191	6.66909	1.882739414	0.912833333	1.882739414	Up	0.038641807	0.955609729
552889	ATXN7L3B	Ataxin 7-like 3B	4.78688	4.34721	4.91116	5.10219	5.41352	5.31492	1.510605209	0.595126667	1.510605209	Up	0.018367039	0.955609729
8976	WASL	Wiskott-Aldrich syndrome-like	7.08237	7.32989	7.26019	7.96468	8.02108	7.73409	1.604881378	0.682466667	1.604881378	Up	0.005228809	0.955609729
4211	MEIS1	Meis	6.572	6.046	5.976	4.878	5.723	5.576	-1.7478523	-0.80558	1.747852	Down	0.026103	0.955609

		homeobox 1	15	91	42	38	77	58	68	3333	368		116	729
84632	AFAP1L2	Actin filament associated protein 1 like 2	4.99559	3.7636	4.00404	3.27411	3.45742	3.65708	-1.730921143	-0.79154	1.730921143	Down	0.042915374	0.955609729
9871	SEC24D	SEC24 homolog D, COPII coat complex component	3.45295	3.64572	4.32945	4.75844	4.12413	4.89244	1.719866599	0.782296667	1.719866599	Up	0.033443325	0.955609729
2288	FKBP4	FK506 binding protein 4	9.00331	9.84381	9.56647	10.14486	10.1291	10.2102	1.613495999	0.69019	1.613495999	Up	0.022745501	0.955609729
4154	MBNL1	Muscleblind like splicing regulator 1	4.34022	4.33777	5.13346	4.04102	3.20407	3.92635	-1.840379553	-0.880003333	1.840379553	Down	0.024599023	0.955609729
54716	SLC6A20	Solute carrier family 6 (proline IMINO transporter), member 20	5.7002	7.20049	6.82153	8.12812	7.43046	7.64903	2.237358847	1.161796667	2.237358847	Up	0.026291346	0.955609729
7412	VCAM1	Vascular cell adhesion molecule 1	6.7289	5.1195	6.09612	3.82173	4.24458	4.58001	-3.401253808	-1.766066667	3.401253808	Down	0.004367906	0.955609729
1910	EDNRB	Endothelin receptor type B	8.22088	5.994	5.26778	3.99701	5.32959	4.51482	-3.681805292	-1.880413333	3.681805292	Down	0.044524281	0.955609729
5627	PROS1	Protein S (α)	6.377	6.259	5.950	5.465	5.156	5.823	-1.6403003	-0.71396	1.640300	Down	0.016429	0.955609

			24	78	85	56	75	68	43		343		44	729
213	ALB	Albumin	4.82365	5.64886	6.20353	6.16003	6.46648	7.55331	2.246885592	1.167926667	2.246885592	Up	0.044086126	0.955609729
399948	COLCA1	Colorectal cancer associated 1	6.74472	7.22002	7.35065	7.96827	7.52433	7.63514	1.520047773	0.604116667	1.520047773	Up	0.033460807	0.955609729
28970	C11orf54	Chromosome 11 open reading frame 54	8.92173	10.13882	9.52463	10.71504	10.04148	10.32633	1.780838474	0.832556667	1.780838474	Up	0.045053532	0.955609729
65124	SOWAHC	Sosondowah ankyrin repeat domain family member C	6.61208	6.87154	7.11912	7.91949	7.35367	7.62985	1.70144046	0.766756667	1.70144046	Up	0.011351346	0.955609729
79822	ARHGAP28	Rho gtpase activating protein 28	6.54485	5.41791	5.56556	4.20775	5.4397	4.80668	-2.034578578	-1.02473	2.034578578	Down	0.042059113	0.955609729
338	APOB	Apolipoprotein B	4.86106	5.69068	4.77937	6.8158	7.86662	6.46747	3.835975041	1.939593333	3.835975041	Up	0.002723894	0.955609729
79817	MOB3B	MOB kinase activator 3B	7.25018	7.88854	7.78576	8.60227	7.90801	8.57043	1.645747873	0.718743333	1.645747873	Up	0.034899863	0.955609729
10117	ENAM	Enamelin	5.40597	6.32274	6.31012	7.16697	6.56199	7.00214	1.862736146	0.897423333	1.862736146	Up	0.023611637	0.955609729
59	ACTA2	Actin, α 2, smooth muscle, aorta	5.14998	4.78971	4.42532	3.47235	4.48276	3.71024	-1.865919397	-0.899886667	1.865919397	Down	0.022338089	0.955609729
3371	TNC	Tenascin C	4.98654	3.97307	4.98309	2.32094	3.87627	2.73914	-3.17946347	-1.668783333	3.17946347	Down	0.008527761	0.955609729
122786	FRMD	FERM	8.176	5.834	6.215	4.544	5.896	5.011	-3.0134998	-1.59144	3.013499	Down	0.046906	0.955609

	6	domain containing 6	18	77	13	29		47	65		865		059	729
1582	CYP8B1	Cytochrome P450, family 8, subfamily B, polypeptide 1	4.57636	5.09878	4.68478	5.16793	5.93633	6.78776	2.261635865	1.177366667	2.261635865	Up	0.02358585	0.955609729
100861540	CYP3A7-CYP3A51P	CYP3A7-CYP3A51P readthrough	3.08086	3.18838	4.07637	4.47363	5.45531	4.1554	2.372229079	1.246243333	2.372229079	Up	0.018122813	0.955609729
4494	MT1F	Metallothionein 1F	8.83203	10.4129	9.43204	11.54488	11.15157	11.40958	3.505661422	1.809686667	3.505661422	Up	0.002675451	0.955609729
8727	CTNNAL1	Catenin α-like 1	8.87657	7.39041	6.92086	5.93111	5.74465	6.43131	-3.234606019	-1.69359	3.234606019	Down	0.012900981	0.955609729
126789	PUSL1	Pseudouridylate synthase-like 1	5.48041	5.82395	6.10997	6.59933	6.59426	6.21905	1.586781336	0.666103333	1.586781336	Up	0.020465187	0.955609729
9229	DLGAP1	Discs, large (Drosophila) homolog-associated protein 1	4.99257	6.08767	5.74986	6.55438	6.47989	6.46364	1.852238659	0.88927	1.852238659	Up	0.0183949	0.955609729
285382	C3orf70	Chromosome 3 open reading frame 70	7.47	6.49864	6.74308	3.99252	6.68833	5.24101	-3.024339291	-1.59662	3.024339291	Down	0.047422292	0.955609729
54825	CDHR2	Cadherin related family	5.74073	7.71201	7.0885	8.11601	8.21717	7.7985	2.292327754	1.196813333	2.292327754	Up	0.043676312	0.955609729

54825	CDHR2	Cadherin related family member 2	5.74073	7.71201	7.0885	8.11601	8.21717	7.7985	2.292327754	1.196813333	2.292327754	Up	0.043676312	0.955609729
54498	SMOX	Spermine oxidase	6.53356	7.99814	7.67351	9.06609	8.3249	8.11017	2.141542042	1.09865	2.141542042	Up	0.040722496	0.955609729
9648	GCC2	GRIP and coiled-coil domain containing 2	6.56655	7.14435	6.68362	7.91139	7.3413	7.18272	1.602469243	0.680296667	1.602469243	Up	0.036687559	0.955609729
27333	GOLIM4	Golgi integral membrane protein 4	6.91552	7.00355	6.67159	7.79589	8.11783	7.5562	1.944977321	0.959753333	1.944977321	Up	0.002557055	0.955609729
7757	ZNF208	Zinc finger protein 208	5.58708	4.74426	3.87978	3.37796	3.50657	3.80283	-2.257282004	-1.174586667	2.257282004	Down	0.024381804	0.955609729
4281	MID1	Midline 1	5.53705	4.59528	4.80372	4.10734	4.58478	3.45949	-1.902829988	-0.928146667	1.902829988	Down	0.035158125	0.955609729
694	BTG1	B-cell translocation gene 1, anti-proliferative	10.75788	10.92352	10.49335	10.13102	9.66688	9.70615	-1.85347587	-0.890233333	1.85347587	Down	0.003288077	0.955609729
5358	PLS3	Plastin 3	8.13826	7.47382	7.74666	7.00467	6.82451	7.42075	-1.627814909	-0.702936667	1.627814909	Down	0.026267159	0.955609729
171024	SYNPO2	Synaptopodin 2	9.30532	10.2311	10.66314	6.25942	9.62862	7.34002	-5.006607415	-2.323833333	5.006607415	Down	0.02923086	0.955609729
5292	PIM1	Pim-1 proto-oncogene, serine/threon	5.09268	4.08359	4.45469	4.04252	3.76066	3.8084	-1.594524944	-0.673126667	1.594524944	Down	0.036346202	0.955609729

3925	STMN1	Stathmin 1	7.28851	6.83858	6.33928	5.33479	6.43487	5.97194	-1.876776256	-0.908256667	1.876776256	Down	0.038954622	0.955609729
4493	MT1E	Metallothionein 1E	7.41296	7.67425	7.46962	8.43864	7.89771	8.49072	1.68967604	0.756746667	1.68967604	Up	0.010063473	0.955609729
3117	HLA-DQA1	Major histocompatibility complex, class II, DQ α1	8.63461	8.6741	8.66085	7.22608	8.02513	8.17977	-1.797751151	-0.846193333	1.797751151	Down	0.017216186	0.955609729
5908	RAP1B	RAP1B, member of RAS oncogene family	5.51884	4.59482	4.58076	4.40312	3.56146	4.28574	-1.758932354	-0.8147	1.758932354	Down	0.045776334	0.955609729
100528007	BORCS7-ASMT	BORCS7-ASMT readthrough (NMD candidate)	6.28628	7.49762	7.16565	7.76461	7.75724	8.67592	2.118054923	1.08274	2.118054923	Up	0.029555523	0.955609729
6461	SHB	Src homology 2 domain containing adaptor protein B	6.5591	7.39475	7.45992	7.9279	7.88223	7.89316	1.697219704	0.763173333	1.697219704	Up	0.025259518	0.955609729
7453	WARS	Tryptophanyl-trna synthetase	5.64626	4.64709	5.03573	4.02369	4.03239	4.56688	-1.868706505	-0.90204	1.868706505	Down	0.017348087	0.955609729
92292	GLYATL1	Glycine-N-acyltransferas	3.60313	4.55984	4.16431	4.68419	4.9627	4.5569	1.542748972	0.625503333	1.542748972	Up	0.046498198	0.955609729

		e like 1												
89870	TRIM15	Tripartite motif containing 15	6.606	7.65115	7.56353	8.31648	8.36566	7.68806	1.802301033	0.84984	1.802301033	Up	0.042727297	0.955609729
3352	HTR1D	5-hydroxytryptamine (serotonin) receptor 1D, G protein-coupled	6.19062	7.46799	6.26147	7.88426	7.24648	8.00617	2.102749025	1.072276667	2.102749025	Up	0.03154499	0.955609729
115123	MARCH3	Membrane associated ring-CH-type finger 3	7.38116	7.73124	7.691	8.62761	7.87731	8.41379	1.630261428	0.705103333	1.630261428	Up	0.022648668	0.955609729
1439	CSF2RB	Colony stimulating factor 2 receptor, β, low-affinity (granulocyte-macrophage)	7.19561	5.66866	7.2859	5.00949	6.01663	5.4832	-2.319183005	-1.213616667	2.319183005	Down	0.042292783	0.955609729
57194	ATP10A	Atpase, class V, type 10A	5.69622	5.30231	5.03026	6.19472	6.24875	6.07518	1.777627861	0.829953333	1.777627861	Up	0.005393778	0.955609729
4496	MT1H	Metallothionein 1H	7.73298	8.5811	7.99435	10.33029	9.48095	9.95369	3.527957872	1.818833333	3.527957872	Up	0.000668336	0.955609729
8934	RAB29	RAB29, member RAS	4.69341	4.8012	5.03573	6.13394	4.93555	5.69065	1.673961871	0.743266667	1.673961871	Up	0.048330077	0.955609729

		oncogene family												
335	APOA1	Apolipoprotein A-I	6.97141	6.9621	6.20648	8.39757	6.87819	8.38574	2.256108837	1.173836667	2.256108837	Up	0.039407813	0.955609729
1047	CLGN	Calmegin	3.40735	4.58114	2.98759	4.2951	4.70776	5.94924	2.505919378	1.32534	2.505919378	Up	0.046316283	0.955609729
3320	HSP90AA1	Heat shock protein 90kda α family class A member 1	8.85783	9.10029	8.77658	9.79438	9.32918	9.95485	1.718603415	0.781236667	1.718603415	Up	0.00869977	0.955609729
6555	SLC10A2	Solute carrier family 10 (sodium/bile acid cotransporter), member 2	5.83725	5.89259	6.34618	8.15236	7.90423	7.71668	3.729761379	1.899083333	3.729761379	Up	5.99474E-05	0.955609729
1266	CNN3	Calponin 3, acidic	9.48192	8.54215	8.65831	7.3953	7.57153	8.35739	-2.172545914	-1.119386667	2.172545914	Down	0.016684025	0.955609729
151230	KLHL23	Kelch like family member 23	4.84124	5.60966	5.18107	6.23534	5.97823	5.61702	1.6619458	0.732873333	1.6619458	Up	0.026046052	0.955609729
55273	TMEM100	Transmembrane protein 100	9.22438	7.19173	6.98225	6.01739	6.43213	6.56985	-2.75044172	-1.459663333	2.75044172	Down	0.043054911	0.955609729
444	ASPH	Aspartate β-hydroxylase	7.33426	5.4384	5.72774	4.8779	4.5936	5.32266	-2.354487941	-1.235413333	2.354487941	Down	0.045174305	0.955609729
9444	QKI	QKI, KH domain	5.49132	4.15041	4.39853	3.52799	3.62563	4.19177	-1.86385548	-0.89829	1.86385548	Down	0.04745479	0.955609729

		containing, RNA binding												
27295	PDLIM3	PDZ and LIM domain 3	7.91463	6.13217	6.34039	3.19979	5.98757	4.17367	-5.07023752	-2.342053333	5.07023752	Down	0.020907861	0.955609729
26298	EHF	Ets homologous factor	3.82934	4.71921	5.0773	5.56464	6.09419	5.18336	2.102510978	1.072113333	2.102510978	Up	0.025065598	0.955609729
4883	NPR3	Natriuretic peptide receptor 3	9.54168	6.75957	6.87962	5.82801	6.13219	5.66602	-3.608877067	-1.85155	3.608877067	Down	0.039376744	0.955609729
8548	BLZF1	Basic leucine zipper nuclear factor 1	3.95821	4.50605	4.73905	5.55879	4.73761	5.00008	1.62194324	0.697723333	1.62194324	Up	0.044769964	0.955609729
81831	NETO2	Neuropilin and tolloid like 2	3.69121	5.32551	5.2756	5.93311	5.84495	6.45498	2.485564141	1.313573333	2.485564141	Up	0.025580429	0.955609729
284422	SMIM24	Small integral membrane protein 24	9.24757	11.08461	10.91024	11.57432	11.38128	11.94046	2.3260466	1.21788	2.3260466	Up	0.042574392	0.955609729
10313	RTN3	Reticulon 3	6.98591	6.45409	6.73409	5.95453	5.02073	6.40851	-1.905416869	-0.930106667	1.905416869	Down	0.039956667	0.955609729
9663	LPIN2	Lipin 2	7.76756	8.56279	7.76331	9.4616	8.54908	8.90042	1.917393792	0.939146667	1.917393792	Up	0.023915043	0.955609729
4969	OGN	Osteoglycin	7.94849	7.01226	6.08125	4.50849	6.06974	5.84091	-2.909867241	-1.540953333	2.909867241	Down	0.033885405	0.955609729
10217	CTDSPL	CTD small phosphatase	8.99864	9.84443	9.58373	10.08076	10.09425	10.09637	1.531409381	0.61486	1.531409381	Up	0.03634061	0.955609729

		like												
23464	GCAT	Glycine C-acetyltransferase	5.90865	6.86708	6.90652	7.29571	7.3161	7.36659	1.699821592	0.765383333	1.699821592	Up	0.035050258	0.955609729
273	AMPH	Amphiphysin	5.43441	4.6922	4.81779	3.60198	4.81687	4.0505	-1.771555504	-0.825016667	1.771555504	Down	0.049552571	0.955609729
4134	MAP4	Microtubule associated protein 4	7.67193	7.03014	6.86864	6.66843	6.51883	6.61042	-1.506300907	-0.59101	1.506300907	Down	0.0446616	0.955609729
100529145	TEN1-CDK3	TEN1-CDK3 readthrough (NMD candidate)	6.63976	6.40313	6.80187	7.40334	7.13034	7.3433	1.599262397	0.677406667	1.599262397	Up	0.007672476	0.955609729
284266	SIGLEC15	Sialic acid binding Ig-like lectin 15	5.30928	5.47839	5.42684	6.39152	6.22749	6.08286	1.776601359	0.82912	1.776601359	Up	0.001321031	0.955609729
65268	WNK2	WNK lysine deficient protein kinase 2	6.47908	7.40952	6.98506	7.58772	7.65476	7.55789	1.560746972	0.642236667	1.560746972	Up	0.040389934	0.955609729
51715	RAB23	RAB23, member RAS oncogene family	6.09658	5.36572	5.59266	4.89661	4.96242	4.92441	-1.690175824	-0.757173333	1.690175824	Down	0.009456278	0.955609729
7429	VIL1	Villin 1	5.64118	6.43558	6.86837	7.42078	7.17696	6.95448	1.826434479	0.86903	1.826434479	Up	0.034886375	0.955609729
283420	CLEC9A	C-type lectin domain	3.78697	3.72959	3.48126	4.5633	4.10856	4.51958	1.660026954	0.731206667	1.660026954	Up	0.003290467	0.955609729

		family 9, member A												
91862	MARVELD3	MARVEL domain containing 3	6.04748	7.06624	6.61087	7.9331	7.36423	7.08429	1.847631012	0.885676667	1.847631012	Up	0.033194506	0.955609729
90634	N4BP2L1	NEDD4 binding protein 2-like 1	4.53763	4.49816	4.20277	3.62696	3.89394	3.83609	-1.544553667	-0.62719	1.544553667	Down	0.003385286	0.955609729
2042	EPHA3	EPH receptor A3	7.51783	6.2584	5.78412	3.71565	5.54408	5.14261	-3.292849709	-1.719336667	3.292849709	Down	0.025744169	0.955609729
256714	MAP7D2	MAP7 domain containing 2	3.6188	4.35022	4.09344	4.96026	5.61934	4.26186	1.90043981	0.926333333	1.90043981	Up	0.039067128	0.955609729
9987	HNRNPDL	Heterogeneous nuclear ribonucleoprotein D like	8.36081	7.68481	7.83315	7.29518	6.53932	7.44172	-1.824519622	-0.867516667	1.824519622	Down	0.025742011	0.955609729
55041	PLEKHB2	Pleckstrin homology domain containing B2	5.43472	6.49124	6.74891	7.58545	7.20565	7.45608	2.282745461	1.19077	2.282745461	Up	0.012703987	0.955609729
387628	KGFLP1	Fibroblast growth factor 7 pseudogene	7.50129	6.87949	6.73008	6.46141	6.49425	5.84314	-1.706081619	-0.770686667	1.706081619	Down	0.031197641	0.955609729
3400	ID4	Inhibitor of DNA binding 4, dominant	8.80758	5.52884	5.67161	4.64658	5.05373	4.10774	-4.189157133	-2.06666	4.189157133	Down	0.049912802	0.955609729

		negative helix-loop-helix protein												
3122	HLA-DRA	Major histocompatibility complex, class II, DR α	8.63461	8.6741	8.66085	7.22608	8.02513	8.17977	-1.797751151	-0.846193333	1.797751151	Down	0.017216186	0.955609729
2161	F12	Coagulation factor XII (Hageman factor)	6.59693	7.37518	6.98281	8.06115	7.64434	7.57151	1.710035964	0.774026667	1.710035964	Up	0.019707828	0.955609729
901	CCNG2	Cyclin G2	5.936	5.11646	5.45727	4.68819	4.48633	5.26278	-1.61418955	-0.69081	1.61418955	Down	0.04776699	0.955609729
55784	MCTP2	Multiple C2 domains, transmembrane 2	5.76443	7.31804	6.90942	7.97569	7.53406	7.65329	2.080672642	1.05705	2.080672642	Up	0.034838884	0.955609729
7102	TSPAN7	Tetraspanin 7	6.11751	4.86213	4.7495	3.94264	4.14826	4.55768	-2.03757524	-1.026853333	2.03757524	Down	0.033268171	0.955609729
79413	ZBED2	Zinc finger, BED-type containing 2	4.32272	4.96886	4.70157	5.40985	5.41216	5.36419	1.659808346	0.731016667	1.659808346	Up	0.006738927	0.955609729
90865	IL33	Interleukin 33	5.85407	3.90977	4.15754	2.72944	3.24722	3.74665	-2.637839282	-1.399356667	2.637839282	Down	0.035561786	0.955609729
55450	CAMK2N1	Calcium/calmodulin-dependent protein kinase II	9.83153	10.83764	10.23282	11.18096	10.82031	11.10972	1.66593641	0.736333333	1.66593641	Up	0.03257193	0.955609729

55450	CAMK2N1	Calcium/calmodulin-dependent protein kinase II inhibitor 1	9.83153	10.83764	10.23282	11.18096	10.82031	11.10972	1.66593641	0.736333333	1.66593641	Up	0.03257193	0.955609729
1018	CDK3	Cyclin-dependent kinase 3	6.63976	6.40313	6.80187	7.40334	7.13034	7.3433	1.599262397	0.677406667	1.599262397	Up	0.007672476	0.955609729
23022	PALLD	Palladin, cytoskeletal associated protein	10.36386	9.16236	9.0045	7.52131	9.16487	8.11978	-2.364584448	-1.241586667	2.364584448	Down	0.049168125	0.955609729
79774	GRTP1	Growth hormone regulated TBC protein 1	5.15916	6.75515	6.20185	6.96595	7.03063	7.5069	2.187232624	1.129106667	2.187232624	Up	0.029869274	0.955609729
831	CAST	Calpastatin	9.67553	9.10686	8.94728	8.69017	8.00877	8.82276	-1.665539997	-0.73599	1.665539997	Down	0.042477257	0.955609729
8611	PLPP1	Phospholipid phosphatase 1	9.51019	8.80525	8.10187	7.65097	7.95667	7.79307	-2.007685558	-1.005533333	2.007685558	Down	0.025541685	0.955609729
10232	MSLN	Mesothelin	9.47593	6.9558	7.19685	10.13834	10.0208	8.98636	3.577553479	1.838973333	3.577553479	Up	0.034944882	0.955609729
24146	CLDN15	Claudin 15	5.57032	5.36361	5.58241	7.51988	5.86847	6.27714	2.070123253	1.049716667	2.070123253	Up	0.039747936	0.955609729
960	CD44	CD44 molecule (Indian blood group)	5.90322	5.76373	6.29182	5.50703	5.08705	5.38059	-1.581580147	-0.661366667	1.581580147	Down	0.015412803	0.955609729

58191	CXCL16	Chemokine (C-X-C motif) ligand 16	8.5307	8.92471	8.51165	9.40414	9.35496	9.16623	1.572169391	0.652756667	1.572169391	Up	0.009609179	0.955609729
10979	FERMT2	Fermitin family member 2	7.08202	5.54418	5.80108	4.84471	5.00181	5.3101	-2.129065006	-1.09022	2.129065006	Down	0.032458353	0.955609729
154007	SNRNP48	Small nuclear ribonucleoprotein, U11/U12 48kda subunit	4.50275	4.72342	5.24548	5.69659	5.07438	5.57799	1.543034159	0.62577	1.543034159	Up	0.046651672	0.955609729
57509	MTUS1	Microtubule associated tumor suppressor 1	6.81485	7.5859	7.64793	8.42746	7.94742	8.14757	1.771031657	0.82459	1.771031657	Up	0.020633161	0.955609729
80150	ASRGL1	Asparaginase like 1	9.17727	9.19058	9.22682	10.60856	10.3277	9.97986	2.154196717	1.10715	2.154196717	Up	0.000883755	0.955609729
4311	MME	Membrane metallo-endopeptidase	8.59514	9.22906	8.52204	10.55378	9.6229	10.24121	2.561904445	1.357216667	2.561904445	Up	0.003374993	0.955609729
3988	LIPA	Lipase A, lysosomal acid, cholesterol esterase	7.01883	6.89773	7.20705	6.42277	5.78027	6.04418	-1.943688013	-0.958796667	1.943688013	Down	0.003194425	0.955609729
51733	UPB1	Ureidopropionase, β	4.54121	4.39138	4.94531	5.52047	5.18343	5.70352	1.793991846	0.843173333	1.793991846	Up	0.005872869	0.955609729
9371	KIF3B	Kinesin	7.623	8.201	8.205	8.917	8.470	8.640	1.5867446	0.66607	1.586744	Up	0.023786	0.955609

9371	KIF3B	Kinesin family member 3B	7.62337	8.20139	8.20543	8.91722	8.47072	8.64046	1.586744674	0.66607	1.586744674	Up	0.023786834	0.955609729
8728	ADAM19	ADAM metallopeptidase domain 19	6.42927	5.62776	6.392	4.40841	6.05329	4.65151	-2.161360914	-1.11194	2.161360914	Down	0.049548801	0.955609729
84188	FAR1	Fatty acyl coa reductase 1	6.69118	5.92454	5.98678	5.40172	5.55866	5.34648	-1.699621305	-0.765213333	1.699621305	Down	0.015904096	0.955609729
115361	GBP4	Guanylate binding protein 4	6.77756	5.39578	5.71463	4.86599	4.79668	5.36757	-1.935326083	-0.952576667	1.935326083	Down	0.040318578	0.955609729
100534612	C1QTNF3-AMACR	C1QTNF3-AMACR readthrough (NMD candidate)	7.96153	9.40853	8.90388	9.61734	9.63986	9.58988	1.81216376	0.857713333	1.81216376	Up	0.048433898	0.955609729
9153	SLC28A2	Solute carrier family 28 (concentrative nucleoside transporter), member 2	5.45774	5.83987	7.90653	9.63886	9.22374	9.32684	7.972874721	2.9951	7.972874721	Up	0.002038587	0.955609729
79745	CLIP4	CAP-Gly domain containing linker protein family	8.93796	7.74564	8.12606	6.70582	7.64167	7.40604	-2.026106486	-1.01871	2.026106486	Down	0.031683245	0.955609729

9200	HACD1	3-hydroxyacyl-coa dehydratase 1	6.34814	5.87887	4.89686	3.62604	4.94907	4.29919	-2.669414486	-1.416523333	2.669414486	Down	0.018851811	0.955609729
9991	PTBP3	Polypyrimidine tract binding protein 3	4.56037	4.62599	5.01886	5.62979	5.37559	4.96209	1.502553819	0.587416667	1.502553819	Up	0.034847798	0.955609729
783	CACNB2	Calcium channel, voltage-dependent, β 2 subunit	5.6053	4.84878	4.53991	3.52934	4.53991	4.12344	-1.910256894	-0.933766667	1.910256894	Down	0.033874121	0.955609729
2069	EREG	Epiregulin	4.22136	5.4679	6.33406	7.94664	5.9565	6.92028	3.031503175	1.600033333	3.031503175	Up	0.048716806	0.955609729
91614	DEPDC7	DEP domain containing 7	5.44738	6.5976	5.57358	6.68665	6.56373	6.89035	1.790947856	0.840723333	1.790947856	Up	0.036863027	0.955609729
83483	PLVAP	Plasmalemma vesicle associated protein	7.26471	6.56459	6.66133	5.3127	6.2259	5.97592	-1.988990888	-0.992036667	1.988990888	Down	0.014904685	0.955609729
10283	CWC27	CWC27 spliceosome-associated protein homolog	8.87771	8.6658	8.67641	9.8716	9.25135	9.12794	1.598800579	0.67699	1.598800579	Up	0.023353347	0.955609729
112483	SAT2	Spermidine/spermine N1-acetyltransferase family	9.77554	9.77563	9.4965	10.60044	10.46772	10.00371	1.596301686	0.674733333	1.596301686	Up	0.01447265	0.955609729

112483	SAT2	Spermidine/spermine N1-acetyltransferase family member 2	9.77554	9.77563	9.4965	10.60044	10.46772	10.00371	1.596301686	0.674733333	1.596301686	Up	0.01447265	0.955609729
5579	PRKCB	Protein kinase C, beta	4.52963	3.70943	4.6101	3.32303	3.75504	3.74051	-1.598656519	-0.67686	1.598656519	Down	0.039406601	0.955609729
54910	SEMA4C	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C	6.17627	5.7108	6.09631	5.00842	5.70249	5.34353	-1.561551337	-0.64298	1.561551337	Down	0.029360494	0.955609729
3669	ISG20	Interferon stimulated exonuclease gene 20kda	9.89465	10.91559	10.35688	11.42304	11.18711	11.32669	1.896233552	0.923136667	1.896233552	Up	0.011372522	0.955609729
54751	FBLIM1	Filamin binding LIM protein 1	7.11302	7.71231	8.12969	9.03992	8.71773	8.37141	2.082062438	1.058013333	2.082062438	Up	0.011592833	0.955609729
54876	DCAF16	DDB1 and CUL4	4.94915	5.59187	5.77391	6.00597	6.02544	6.16352	1.543993487	0.626666667	1.543993487	Up	0.035675016	0.955609729

87	ACTN1	Actinin, α 1	6.30263	6.43514	7.00857	5.64454	6.18351	5.81875	-1.624332145	-0.699846667	1.624332145	Down	0.028020762	0.955609729
1515	CTSV	Cathepsin V	3.11098	3.70432	3.31236	3.70264	4.70021	4.29364	1.810360067	0.856276667	1.810360067	Up	0.018438263	0.955609729
10808	HSPH1	Heat shock protein family H (Hsp110) member 1	5.6348	6.3467	6.44808	7.15221	6.61315	7.03989	1.731341118	0.79189	1.731341118	Up	0.024717048	0.955609729
388561	ZNF761	Zinc finger protein 761	7.48324	7.59802	7.23701	9.35014	8.26379	9.61666	3.111132847	1.63744	3.111132847	Up	0.002949854	0.955609729
283375	SLC39A5	Solute carrier family 39 (zinc transporter), member 5	6.9773	8.50973	7.70754	9.18697	8.619	8.55574	2.078745778	1.055713333	2.078745778	Up	0.035433404	0.955609729
132014	IL17RE	Interleukin 17 receptor E	3.61724	4.25089	3.76501	4.57933	4.23799	4.6434	1.525406057	0.609193333	1.525406057	Up	0.02105628	0.955609729
9510	ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif 1	7.95325	5.55287	5.53765	4.66797	4.97428	4.53493	-3.078434061	-1.622196667	3.078434061	Down	0.041174971	0.955609729
51776	ZAK	Sterile αmotif and leucine zipper containing	5.1138	5.03814	4.4627	5.46296	5.55817	5.54173	1.568522981	0.649406667	1.568522981	Up	0.01615754	0.955609729

		kinase AZK											
1075	CTSC	Cathepsin C	8.10942	7.94894	8.06715	7.45945	7.26144	7.42772	-1.578951291	-0.658966667	1.578951291	Down	0.004113548	0.955609729
10107	TRIM10	Tripartite motif containing 10	4.51276	5.80195	5.46239	6.10707	6.27985	5.84116	1.761730607	0.816993333	1.761730607	Up	0.0496998	0.955609729
6999	TDO2	Tryptophan 2,3-dioxygenase	4.17086	4.75785	4.76542	5.58557	4.86751	5.98345	1.884436699	0.914133333	1.884436699	Up	0.025320086	0.955609729
51110	LACTB2	Lactamase β 2	7.10202	8.05639	7.85014	8.41564	8.25906	8.28441	1.56937124	0.650186667	1.56937124	Up	0.047271719	0.955609729
9189	ZBED1	Zinc finger, BED-type containing 1	7.2554	7.9209	7.95421	8.64806	8.25122	8.16803	1.564389762	0.6456	1.564389762	Up	0.03970184	0.955609729
6319	SCD	Stearoyl-coa desaturase (Δ-9-desaturase)	5.38735	4.41205	5.37092	4.23087	4.44183	4.22038	-1.692411038	-0.75908	1.692411038	Down	0.031149526	0.955609729
9737	GPRASP1	G protein-coupled receptor associated sorting protein 1	7.27909	6.87127	7.00041	6.41341	6.77386	6.1494	-1.520662507	-0.6047	1.520662507	Down	0.029974192	0.955609729
2021	ENDOG	Endonuclease G	7.35129	7.12032	7.42289	8.46301	8.08556	7.92518	1.814723816	0.85975	1.814723816	Up	0.004077129	0.955609729
79083	MLPH	Melanophilin	4.42484	5.28647	5.11043	5.81414	5.45769	5.62209	1.614096313	0.690726667	1.614096313	Up	0.030413566	0.955609729
7424	VEGFC	Vascular endothelial	8.44395	6.33163	6.68381	4.40704	6.28982	5.60159	-3.295079637	-1.720313333	3.295079637	Down	0.03986359	0.955609729

		growth factor C												
1282	COL4A1	Collagen, type IV, alpha 1	9.21658	7.45046	6.8631	4.48193	7.22899	5.43663	-4.369687171	-2.12753	4.369687171	Down	0.040896127	0.955609729
1579	CYP4A11	Cytochrome P450, family 4, subfamily A, polypeptide 11	5.45954	5.58935	5.11509	5.71262	6.00958	6.20921	1.504353203	0.589143333	1.504353203	Up	0.025398123	0.955609729
3672	ITGA1	Integrin α 1	5.072	4.20139	4.13246	3.43023	4.07249	3.65824	-1.679808376	-0.748296667	1.679808376	Down	0.038929191	0.955609729
339044	PKD1P1	Polycystic kidney disease 1 (autosomal dominant) pseudogene 1	6.70725	7.99302	7.37651	8.22062	8.13039	8.1216	1.739424428	0.79861	1.739424428	Up	0.043520998	0.955609729
6549	SLC9A2	Solute carrier family 9, subfamily A (NHE2, cation proton antiporter 2), member 2	5.58032	6.68358	6.0664	8.88287	7.9624	8.49842	5.05529985	2.337796667	5.05529985	Up	0.000359415	0.955609729
1317	SLC31A1	Solute carrier family 31	5.49621	5.97224	6.59787	6.83115	6.67585	6.71292	1.644748123	0.717866667	1.644748123	Up	0.042163337	0.955609729

1317	SLC31A1	Solute carrier family 31 (copper transporter), member 1	5.49621	5.97224	6.59787	6.83115	6.67585	6.71292	1.644748123	0.717866667	1.644748123	Up	0.042163337	0.955609729
6876	TAGLN	Transgelin	11.46194	11.54252	10.94393	7.74805	11.35478	8.65898	-4.176207319	-2.062193333	4.176207319	Down	0.049402704	0.955609729
5350	PLN	Phospholamban	8.67777	8.74801	7.73761	4.56024	8.08321	5.55956	-4.993760622	-2.320126667	4.993760622	Down	0.032346597	0.955609729
4162	MCAM	Melanoma cell adhesion molecule	7.40952	5.91722	5.89712	4.60173	5.75946	5.10785	-2.381064442	-1.251606667	2.381064442	Down	0.038087963	0.955609729
10157	AASS	Aminoadipate-semialdehyde synthase	7.86431	8.59014	7.56887	9.07061	9.12661	8.29321	1.768308512	0.82237	1.768308512	Up	0.049677955	0.955609729
54899	PXK	PX domain containing serine/threonine kinase	5.53247	4.77692	5.12903	4.45072	4.37632	4.76475	-1.532134906	-0.615543333	1.532134906	Down	0.0302774	0.955609729
4857	NOVA1	Neuro-oncological ventral antigen 1	7.50335	7.12338	7.49287	7.16563	6.57778	5.9439	-1.754139316	-0.810763333	1.754139316	Down	0.041834676	0.955609729
2823	GPM6A	Glycoprotein M6A	6.58422	6.42113	5.77264	2.87681	5.68028	3.98532	-4.223756503	-2.078526667	4.223756503	Down	0.018467772	0.955609729
51386	EIF3L	Eukaryotic translation initiation factor 3 subunit L	9.19561	8.75392	8.78306	8.27237	7.86769	8.62928	-1.573979408	-0.654416667	1.573979408	Down	0.034093693	0.955609729

8828	NRP2	Neuropilin 2	7.66794	7.24747	7.06265	6.08546	7.00208	6.33229	-1.805931702	-0.852743333	1.805931702	Down	0.023039001	0.955609729
129807	NEU4	Neuraminidase 4 (sialidase)	7.28399	7.68602	7.40239	7.93884	8.14485	8.22849	1.565467257	0.646593333	1.565467257	Up	0.010037926	0.955609729
51752	ERAP1	Endoplasmic reticulum aminopeptidase 1	8.20696	8.53625	9.12215	7.14251	7.13385	8.25824	-2.158835525	-1.110253333	2.158835525	Down	0.02415095	0.955609729
6925	TCF4	Transcription factor 4	6.41023	6.00101	5.85724	4.58708	5.42112	5.70293	-1.805564552	-0.85245	1.805564552	Down	0.033096312	0.955609729
7364	UGT2B7	UDP glucuronosyl transferase 2 family, polypeptide B7	7.13953	7.37411	7.88589	9.20944	10.1883	7.71492	2.971195084	1.571043333	2.971195084	Up	0.035730027	0.955609729
196743	PAOX	Polyamine oxidase (exo-N4-amino)	6.80567	7.07109	6.54444	7.73237	7.7983	7.22493	1.714910557	0.778133333	1.714910557	Up	0.013039365	0.955609729
23158	TBC1D9	TBC1 domain family member 9	5.7925	5.70546	5.90924	5.30612	5.04018	5.09529	-1.574837895	-0.655203333	1.574837895	Down	0.003847688	0.955609729
3685	ITGAV	Integrin α V	5.37191	5.70933	6.05136	5.11745	3.60532	5.03644	-2.180204302	-1.124463333	2.180204302	Down	0.035352522	0.955609729
112616	CMTM7	CKLF-like MARVEL transmembrane domain	7.77598	7.92177	8.24832	8.6184	8.56706	8.59867	1.529104142	0.612686667	1.529104142	Up	0.011568619	0.955609729

		containing 7												
91624	NEXN	Nexilin (F actin binding protein)	6.88083	5.36262	4.59067	2.88557	4.48491	3.22068	-4.230964752	-2.080986667	4.230964752	Down	0.016231828	0.955609729
653190	ABCC6P1	ATP binding cassette subfamily C member 6 pseudogene 1 (functional)	4.35516	5.21993	4.47124	5.41079	5.63747	5.14654	1.642799788	0.716156667	1.642799788	Up	0.032292529	0.955609729
64240	ABCG5	ATP binding cassette subfamily G member 5	6.73366	7.82054	6.89366	8.77716	8.00535	8.71229	2.547319637	1.34898	2.547319637	Up	0.007255036	0.955609729
262	AMD1	Adenosylmethionine decarboxylase 1	9.34269	9.94217	10.35214	10.92224	10.74427	10.23574	1.687729076	0.755083333	1.687729076	Up	0.044921994	0.955609729
65997	RASL11B	RAS-like, family 11, member B	4.04259	4.64854	3.8462	3.41515	3.73771	3.32493	-1.609389286	-0.686513333	1.609389286	Down	0.021151406	0.955609729
5209	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	5.1711	4.40925	5.09269	4.43444	3.87235	3.68129	-1.859592699	-0.894986667	1.859592699	Down	0.015450602	0.955609729
10352	WARS2	Tryptophanyl trna synthetase 2, mitochondria	7.16869	6.74533	7.00684	6.43564	6.30023	6.1404	-1.60383975	-0.68153	1.60383975	Down	0.008095487	0.955609729

		l												
5552	SRGN	Serglycin	9.95874	7.29154	8.48066	6.63661	7.02393	7.13084	-3.130775369	-1.64652	3.130775369	Down	0.035079479	0.955609729
2006	ELN	Elastin	10.82073	8.83098	8.31511	6.67906	8.48244	7.50411	-3.403620059	-1.76707	3.403620059	Down	0.047553553	0.955609729
350	APOH	Apolipoprotein H (β-2-glycoprotein I)	5.17747	6.05771	6.06636	6.18702	6.67402	7.13397	1.863252678	0.897823333	1.863252678	Up	0.035236703	0.955609729
145226	RDH12	Retinol dehydrogenase 12 (all-trans/9-cis/11-cis)	8.07578	9.35589	9.61625	10.17235	10.26934	10.31421	2.355434695	1.235993333	2.355434695	Up	0.017432716	0.955609729
957	ENTPD5	Ectonucleoside triphosphate diphosphohydrolase 5	5.59922	6.72575	6.28599	6.7512	7.47657	6.88258	1.781546328	0.83313	1.781546328	Up	0.044764204	0.955609729
10018	BCL2L11	BCL2-like 11 (apoptosis facilitator)	5.69497	5.79912	5.35176	4.88994	4.59831	5.33835	-1.594477051	-0.673083333	1.594477051	Down	0.024882166	0.955609729
3003	GZMK	Granzyme K	6.77445	5.03287	6.20738	4.11203	5.33609	4.47767	-2.57214148	-1.36297	2.57214148	Down	0.031495779	0.955609729
7029	TFDP2	Transcription factor Dp-2 (E2F dimerization partner 2)	5.67986	6.78264	7.49444	7.64431	7.71151	7.75252	2.071199708	1.050466667	2.071199708	Up	0.047464801	0.955609729
347732	CATSPER3	Cation channel,	3.95427	4.7026	4.11916	5.5013	4.68057	4.88867	1.699177617	0.764836667	1.699177617	Up	0.031485865	0.955609729

		sperm associated 3												
6480	ST6GAL1	ST6 β-galactosamide α-2,6-sialyltranferase 1	7.2867	6.00408	6.8036	5.38528	5.32271	6.25606	-2.061141189	-1.043443333	2.061141189	Down	0.035412216	0.955609729
202915	TMEM184A	Transmembrane protein 184A	5.36982	7.08259	6.40887	7.12629	7.32125	7.39267	1.990287254	0.992976667	1.990287254	Up	0.049854804	0.955609729
9724	UTP14C	UTP14, U3 small nucleolar ribonucleoprotein, homolog C (yeast)	5.88654	6.07945	6.23595	6.8773	6.76774	6.72267	1.649379445	0.721923333	1.649379445	Up	0.00362658	0.955609729
27068	PPA2	Pyrophosphatase (inorganic) 2	6.63236	7.3975	6.79115	7.79752	7.40964	7.72861	1.630054273	0.70492	1.630054273	Up	0.02613186	0.955609729
6840	SVIL	Supervillin	8.14591	8.22598	8.00922	6.79698	7.9562	7.40375	-1.671789649	-0.741393333	1.671789649	Down	0.044068979	0.955609729
51176	LEF1	Lymphoid enhancer-binding factor 1	5.17407	4.70537	5.06171	4.34443	4.69188	4.03915	-1.538896992	-0.621896667	1.538896992	Down	0.023920379	0.955609729
4756	NEO1	Neogenin 1	5.68211	6.65759	6.30412	6.9549	6.85425	6.76472	1.561951871	0.64335	1.561951871	Up	0.047495272	0.955609729
284	ANGPT1	Angiopoietin 1	8.62971	7.68602	6.63804	5.07792	6.83192	5.55808	-3.551963279	-1.828616667	3.551963279	Down	0.022375555	0.955609729
54739	XAF1	XIAP associated	7.31444	7.5377	7.43291	7.67547	7.90419	8.49491	1.512050859	0.596506667	1.512050859	Up	0.044470032	0.955609729

		factor 1												
10380	BPNT1	3’(2’), 5'-bisphosphate nucleotidase 1	5.9145	6.38107	5.75932	6.56373	6.49875	6.90383	1.555242986	0.63714	1.555242986	Up	0.026007957	0.955609729
284076	TTLL6	Tubulin tyrosine ligase like 6	5.27499	6.36636	5.98293	6.4583	6.50306	7.08294	1.749173423	0.806673333	1.749173423	Up	0.043226583	0.955609729
4735	SEPT2	Septin 2	7.21653	6.9726	7.41149	6.84336	6.24685	6.75235	-1.501099907	-0.58602	1.501099907	Down	0.036525152	0.955609729
3782	KCNN3	Potassium channel, calcium activated intermediate/small conductance subfamily N α, member 3	6.58142	5.50989	5.97608	4.85761	5.44941	4.942	-1.917805838	-0.939456667	1.917805838	Down	0.019897576	0.955609729
57616	TSHZ3	Teashirt zinc finger homeobox 3	6.46959	5.22768	5.20566	3.92787	5.25113	4.17381	-2.271071825	-1.183373333	2.271071825	Down	0.040537927	0.955609729
116255	MOGAT1	Monoacylglycerol O-acyltransferase 1	8.37918	9.89235	9.91938	10.7341	10.74022	10.01279	2.141665746	1.098733333	2.141665746	Up	0.048421805	0.955609729
1559	CYP2C9	Cytochrome P450, family 2, subfamily C,	8.04265	9.61026	8.81635	9.77585	9.89629	10.01496	2.103239779	1.072613333	2.103239779	Up	0.026871426	0.955609729

		polypeptide 9												
10203	CALCRL	Calcitonin receptor like receptor	7.05911	5.70947	5.39412	4.76359	5.12523	5.12057	-2.072113937	-1.051103333	2.072113937	Down	0.04480523	0.955609729
1644	DDC	Dopa decarboxylase	4.35498	4.53579	4.87936	5.79301	4.94598	5.73736	1.868749681	0.902073333	1.868749681	Up	0.013573457	0.955609729
9556	C14orf2	Chromosome 14 open reading frame 2	4.11564	4.98428	5.12647	5.71176	5.19514	5.62009	1.701570193	0.766866667	1.701570193	Up	0.039321299	0.955609729
84329	HVCN1	Hydrogen voltage gated channel 1	5.22507	4.46936	4.82614	3.71545	4.48975	4.1244	-1.659010863	-0.730323333	1.659010863	Down	0.0293081	0.955609729
725	C4BPB	Complement component 4 binding protein, β	5.72639	6.69645	6.90632	7.05574	7.83888	7.73708	2.144805266	1.100846667	2.144805266	Up	0.021389705	0.955609729
115908	CTHRC1	Collagen triple helix repeat containing 1	7.40657	5.61814	7.10081	4.65032	4.95396	4.86173	-3.697380022	-1.886503333	3.697380022	Down	0.004704022	0.955609729
573	BAG1	BCL2 associated athanogene 1	5.58428	6.58549	5.77047	6.72381	6.51701	6.78736	1.619984489	0.69598	1.619984489	Up	0.045294551	0.955609729
5578	PRKCA	Protein kinase C, α	5.54363	6.39828	6.44584	7.15259	6.74041	6.77566	1.693846726	0.760303333	1.693846726	Up	0.034000155	0.955609729
990	CDC6	Cell division cycle 6	6.33245	7.227	7.23796	8.2462	8.44917	8.50149	2.763474564	1.466483333	2.763474564	Up	0.001361724	0.955609729
161882	ZFPM1	Zinc finger	8.052	9.106	8.160	9.392	9.105	9.164	1.7182619	0.78095	1.718261	Up	0.037553	0.955609

161882	ZFPM1	Zinc finger protein, FOG family member 1	8.05271	9.10699	8.16013	9.39258	9.10589	9.16421	1.718261958	0.78095	1.718261958	Up	0.037553936	0.955609729
1488	CTBP2	C-terminal binding protein 2	6.89802	7.09022	6.50434	7.81793	7.18758	7.26848	1.509220219	0.593803333	1.509220219	Up	0.049631995	0.955609729
100287175	LOC100287175	Uncharacterized LOC100287175	8.24491	8.98658	8.68898	9.7783	9.52784	8.8677	1.683102844	0.751123333	1.683102844	Up	0.043229413	0.955609729
80760	ITIH5	Inter-α-trypsin inhibitor heavy chain family member 5	9.0474	6.88689	6.54181	5.20002	6.6976	5.30661	-3.380625018	-1.75729	3.380625018	Down	0.047805103	0.955609729
10590	SCGN	Secretagogin, EF-hand calcium binding protein	4.06846	4.16228	4.48417	5.0137	4.74294	5.19845	1.677981333	0.746726667	1.677981333	Up	0.004656412	0.955609729
8490	RGS5	Regulator of G-protein signaling 5	7.96301	6.80106	6.76204	4.84386	5.67493	6.02431	-3.162363773	-1.661003333	3.162363773	Down	0.006881811	0.955609729
4240	MFGE8	Milk fat globule-EGF factor 8 protein	5.08738	4.57699	4.55979	4.11166	3.82555	4.24894	-1.60140328	-0.679336667	1.60140328	Down	0.011127494	0.955609729
2316	FLNA	Filamin A, α	9.10428	9.20616	8.7028	5.78567	8.62803	6.5583	-4.038296014	-2.013746667	4.038296014	Down	0.022542987	0.955609729
23366	KIAA0	KIAA0895	2.976	3.984	3.234	4.624	3.870	4.033	1.7137895	0.77719	1.713789	Up	0.040553	0.955609

6383	SDC2	Syndecan 2	8.98986	6.57857	5.74586	4.76599	5.32676	5.55738	-3.701354541	-1.888053333	3.701354541	Down	0.049177074	0.955609729
10398	MYL9	Myosin light chain 9	10.26508	10.23723	9.95727	7.26358	9.93554	7.97726	-3.389486364	-1.761066667	3.389486364	Down	0.029383295	0.955609729
79152	FA2H	Fatty acid 2-hydroxylase	6.8452	8.25221	8.09195	9.39931	8.52862	8.53857	2.132255025	1.09238	2.132255025	Up	0.041475934	0.955609729
94101	ORMDL1	ORMDL sphingolipid biosynthesis regulator 1	5.36048	5.74794	5.85361	6.66488	6.45987	6.6013	1.893873539	0.92134	1.893873539	Up	0.001928817	0.955609729
137075	CLDN23	Claudin 23	6.12474	7.13016	7.13714	8.66226	7.30412	8.06888	2.320453306	1.214406667	2.320453306	Up	0.025680041	0.955609729
23436	CELA3B	Chymotrypsin like elastase family member 3B	3.34836	3.79293	3.34063	4.6902	4.41693	4.94855	2.283510357	1.191253333	2.283510357	Up	0.000531616	0.955609729
11227	GALNT5	Polypeptide N-acetylgalactosaminyltransferase 5	4.48587	5.15488	5.15143	6.87729	5.75331	6.03815	2.448995291	1.29219	2.448995291	Up	0.007263646	0.955609729
7414	VCL	Vinculin	5.38971	5.13107	5.20479	4.48468	5.00362	4.28666	-1.56938937	-0.650203333	1.56938937	Down	0.01911254	0.955609729
2355	FOSL2	FOS-like antigen 2	8.02058	7.39448	7.78704	7.19763	6.72295	7.24437	-1.60108511	-0.67905	1.60108511	Down	0.026047627	0.955609729
8805	TRIM24	Tripartite motif containing 24	6.13827	6.26068	6.0664	7.07891	6.71224	6.91803	1.679397021	0.747943333	1.679397021	Up	0.003447696	0.955609729
5270	SERPI	Serpin	6.488	6.056	5.978	4.932	5.851	5.691	-1.6049221	-0.68250	1.604922	Down	0.049757	0.955609

	NE2	peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	01	9	88	97	37	94	67	3333	167		586	729
654	BMP6	Bone morphogenetic protein 6	4.57559	4.16257	5.29453	3.60655	4.09223	3.65174	-1.858394342	-0.894056667	1.858394342	Down	0.021633759	0.955609729
9232	PTTG1	Pituitary tumor-transforming 1	4.93315	5.63362	5.28491	4.54147	4.87043	4.62444	-1.521098241	-0.605113333	1.521098241	Down	0.025409802	0.955609729
57561	ARRDC3	Arrestin domain containing 3	7.59212	6.30397	7.38838	5.92911	4.93046	6.64694	-2.393828836	-1.25932	2.393828836	Down	0.045669144	0.955609729
4783	NFIL3	Nuclear factor, interleukin 3 regulated	8.31789	5.31043	6.29838	4.26452	5.27423	4.27174	-4.108855705	-2.038736667	4.108855705	Down	0.030342742	0.955609729
22841	RAB11FIP2	RAB11 family interacting protein 2 (class I)	4.17041	4.49963	4.09811	5.29208	4.93959	4.42513	1.547082358	0.62955	1.547082358	Up	0.037339999	0.955609729
4621	MYH3	Myosin, heavy chain 3, skeletal muscle,	4.04839	4.62444	4.36679	5.42821	5.04405	4.925	1.724143674	0.78588	1.724143674	Up	0.007549874	0.955609729

4621	MYH3	Myosin, heavy chain 3, skeletal muscle, embryonic	4.04839	4.62444	4.36679	5.42821	5.04405	4.925	1.724143674	0.78588	1.724143674	Up	0.007549874	0.955609729
348254	CCDC144CP	Coiled-coil domain containing 144C, pseudogene	4.88193	4.14682	4.17319	5.67876	5.30554	4.89543	1.856514607	0.892596667	1.856514607	Up	0.016528816	0.955609729
115207	KCTD12	Potassium channel tetramerization domain containing 12	8.07719	6.99328	7.31162	6.28256	6.57224	6.87845	-1.844138061	-0.882946667	1.844138061	Down	0.028133019	0.955609729
284047	CCDC144B	Coiled-coil domain containing 144B (pseudogene)	4.16657	3.23321	3.50829	4.60131	4.33706	4.13917	1.650790072	0.723156667	1.650790072	Up	0.026880281	0.955609729
55329	MNS1	Meiosis specific nuclear structural 1	5.06484	4.14015	4.12258	3.36732	3.52163	3.60905	-1.922775066	-0.94319	1.922775066	Down	0.009819628	0.955609729
5538	PPT1	Palmitoyl-protein thioesterase 1	6.42567	6.1348	6.31123	5.43899	5.10147	5.89363	-1.756296797	-0.812536667	1.756296797	Down	0.010999559	0.955609729
23328	SASH1	SAM and	5.968	4.616	4.665	3.939	4.215	4.360	-1.8810958	-0.91157	1.881095	Down	0.045943	0.955609

56474	CTPS2	CTP synthase 2	5.02412	5.33164	5.20249	5.98142	5.42363	5.91835	1.503560931	0.588383333	1.503560931	Up	0.023216758	0.955609729
161198	CLEC14A	C-type lectin domain family 14, member A	7.37017	6.07154	5.79045	5.21446	5.13912	5.68802	-2.090024711	-1.06352	2.090024711	Down	0.041328826	0.955609729
5997	RGS2	Regulator of G-protein signaling 2	10.68034	10.19948	9.58319	8.41367	9.16742	8.47808	-2.766278993	-1.467946667	2.766278993	Down	0.003739484	0.955609729
26049	FAM169A	Family with sequence similarity 169 member A	5.45045	6.92779	7.13483	7.66352	8.10452	7.29271	2.269791847	1.18256	2.269791847	Up	0.041889914	0.955609729
401105	FLJ42393	Uncharacterized LOC401105	6.45216	6.78184	7.62948	5.52447	4.9296	5.20446	-3.328756483	-1.734983333	3.328756483	Down	0.001420515	0.955609729
1948	EFNB2	Ephrin-B2	8.30194	6.38387	6.2291	5.35229	5.50472	5.68589	-2.746009595	-1.457336667	2.746009595	Down	0.03203185	0.955609729
347733	TUBB2B	Tubulin, β 2B class iib	7.89844	7.8536	8.26059	6.2872	7.48287	6.36953	-2.446993043	-1.29101	2.446993043	Down	0.007928414	0.955609729
54492	NEURL1B	Neuralized E3 ubiquitin protein ligase 1B	8.98913	7.53016	7.16698	5.43418	7.11171	6.63461	-2.832200366	-1.501923333	2.832200366	Down	0.041369091	0.955609729
10418	SPON1	Spondin 1, extracellular matrix protein	6.04835	6.35336	6.13005	5.0477	5.99317	4.97723	-1.787429905	-0.837886667	1.787429905	Down	0.026501541	0.955609729
1465	CSRP1	Cysteine and glycine rich	8.87892	8.2932	8.49401	7.26038	8.22986	7.44301	-1.880296271	-0.91096	1.880296271	Down	0.020346568	0.955609729

		protein 1												
728239	MAGED4	Melanoma antigen family D4	5.46145	6.50094	4.99384	6.90646	6.98994	6.87491	2.414447901	1.271693333	2.414447901	Up	0.012137053	0.955609729
3708	ITPR1	Inositol 1,4,5-trisphosphate receptor, type 1	8.49525	7.7138	7.84662	5.29905	7.45167	6.30042	-3.178126757	-1.668176667	3.178126757	Down	0.018029103	0.955609729
2113	ETS1	V-ets avian erythroblastosis virus E26 oncogene homolog 1	9.62691	8.02667	8.69066	6.98047	7.85948	7.96394	-2.265951004	-1.180116667	2.265951004	Down	0.037312378	0.955609729
121512	FGD4	FYVE, rhogef and PH domain containing 4	7.44034	7.59004	7.71744	8.64613	8.24619	7.7194	1.53826067	0.6213	1.53826067	Up	0.049178518	0.955609729
441386	RPS26P3	Ribosomal protein S26 pseudogene 3	10.9709	11.15144	11.22933	12.06451	11.34135	12.07815	1.636688762	0.71078	1.636688762	Up	0.019504025	0.955609729
389384	C6orf222	Chromosome 6 open reading frame 222	4.85817	5.16779	5.34808	6.6518	6.51619	5.44909	2.115521479	1.081013333	2.115521479	Up	0.016828898	0.955609729
2526	FUT4	Fucosyltransferase 4	6.34215	7.28724	6.87802	8.78653	7.32882	7.76085	2.177888356	1.12293	2.177888356	Up	0.033490852	0.955609729
105377751	LOC105377751	Uncharacterized LOC105377	3.68869	4.0597	3.03113	3.96192	4.77083	4.72872	1.85829988	0.893983333	1.85829988	Up	0.029300486	0.955609729

		751												
642946	FLVCR1-AS1	FLVCR1 antisense RNA 1 (head to head)	6.35898	7.01013	5.78107	7.76776	7.44754	7.41687	2.235601942	1.160663333	2.235601942	Up	0.009327456	0.955609729
10171	RCL1	RNA terminal phosphate cyclase-like 1	5.53596	4.77762	5.20045	4.53003	4.32892	4.8871	-1.504544384	-0.589326667	1.504544384	Down	0.046548285	0.955609729
25816	TNFAIP8	TNF α induced protein 8	6.2564	5.57952	6.04602	4.57449	5.08202	5.05019	-2.082639788	-1.058413333	2.082639788	Down	0.003368254	0.955609729
100507412	LOC100507412	Uncharacterized LOC100507412	9.2522	8.4969	9.65494	10.46388	10.63279	10.10649	2.405560916	1.266373333	2.405560916	Up	0.00588484	0.955609729
9586	CREB5	Camp responsive element binding protein 5	7.27657	7.22045	6.41118	8.24018	7.42358	7.70257	1.764643393	0.819376667	1.764643393	Up	0.038413364	0.955609729
7010	TEK	TEK tyrosine kinase, endothelial	8.32572	6.39828	6.05509	4.92074	5.61519	5.66638	-2.879050976	-1.525593333	2.879050976	Down	0.038670045	0.955609729
440138	ALG11	ALG11, α-1,2-mannosyltransferase	5.88654	6.07945	6.23595	6.8773	6.76774	6.72267	1.649379445	0.721923333	1.649379445	Up	0.00362658	0.955609729
84612	PARD6	Par-6 family	4.990	4.706	4.732	5.929	6.314	5.468	2.1351143	1.094313	2.135114	Up	0.002878	0.955609

	B	cell polarity regulator β	99	1	03	11	81	14	43	333	343		55	729
171220	DSTNP2	Destrin (actin depolymerizing factor) pseudogene 2	3.93291	4.46933	4.46515	5.14717	4.79643	4.73258	1.518797995	0.60293	1.518797995	Up	0.021699495	0.955609729
2992	GYG1	Glycogenin 1	6.13634	5.7694	6.08185	5.30251	4.86413	5.68494	-1.63807718	-0.712003333	1.63807718	Down	0.02330095	0.955609729
100505385	IQCJ-SCHIP1	IQCJ-SCHIP1 readthrough	7.69673	6.98229	6.88494	5.7575	6.03204	6.65385	-2.056498472	-1.04019	2.056498472	Down	0.014692544	0.955609729
1073	CFL2	Cofilin 2 (muscle)	6.69917	5.33674	5.20705	4.70932	4.7573	4.37108	-2.196317562	-1.135086667	2.196317562	Down	0.026625748	0.955609729
102723553	SMIM11B	Small integral membrane protein 11B	5.72511	5.87277	6.12979	7.16954	6.33185	6.63989	1.746584772	0.804536667	1.746584772	Up	0.016401594	0.955609729
84680	ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (inactive)	7.19174	7.29992	6.71582	7.99614	7.37538	7.96462	1.635297741	0.709553333	1.635297741	Up	0.027607602	0.955609729
26118	WSB1	WD repeat and SOCS box containing 1	5.75815	6.36299	6.7877	5.46098	5.25211	5.82992	-1.727409346	-0.78861	1.727409346	Down	0.034828079	0.955609729
54097	FAM3B	Family with sequence	7.61672	8.98351	8.63249	9.47556	9.21536	9.13247	1.819518433	0.863556667	1.819518433	Up	0.047042436	0.955609729

		similarity 3 member B												
11217	AKAP2	A-kinase anchoring protein 2	10.14756	8.85323	9.06801	8.56371	8.50612	8.51151	-1.776642408	-0.829153333	1.776642408	Down	0.046346954	0.955609729
2004	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)	9.71984	8.26282	8.30597	7.22893	7.63893	8.11172	-2.148033758	-1.103016667	2.148033758	Down	0.04312329	0.955609729
9811	CTIF	CBP80/20-dependent translation initiation factor	6.61564	6.54742	6.51871	5.56016	6.15997	5.35431	-1.826535761	-0.86911	1.826535761	Down	0.008157235	0.955609729
25932	CLIC4	Chloride intracellular channel 4	7.68231	6.75619	6.53199	6.091	6.25785	6.14042	-1.774082786	-0.827073333	1.774082786	Down	0.033276327	0.955609729
6578	SLCO2A1	Solute carrier organic anion transporter family member 2A1	8.40781	7.74997	7.83897	6.75358	7.71208	7.30802	-1.671360949	-0.741023333	1.671360949	Down	0.046069645	0.955609729
6335	SCN9A	Sodium channel, voltage gated, type IX α subunit	4.95837	5.20309	4.64324	5.83918	5.28117	5.92911	1.679757921	0.748253333	1.679757921	Up	0.017166403	0.955609729
84331	FAM19	Family with	8.244	8.986	8.688	9.778	9.527	8.867	1.6831028	0.751123	1.683102	Up	0.043229	0.955609

	5A	sequence similarity 195 member A	91	58	98	3	84	7	44	333	844		413	729
11211	FZD10	Frizzled class receptor 10	4.1975	4.07092	4.12099	3.11933	4.01621	3.21788	-1.600656049	-0.678663333	1.600656049	Down	0.026254315	0.955609729
340542	BEX5	Brain expressed X-linked 5	8.53096	9.98934	9.3434	10.72186	9.78885	10.40717	2.025193838	1.01806	2.025193838	Up	0.044299717	0.955609729
81608	FIP1L1	Factor interacting with PAPOLA and CPSF1	6.33585	7.01511	7.00022	7.80959	7.04951	7.62381	1.636458103	0.710576667	1.636458103	Up	0.043416119	0.955609729
11167	FSTL1	Follistatin like 1	7.29035	5.39675	5.1924	3.73048	4.47883	4.96855	-2.963317754	-1.567213333	2.963317754	Down	0.036329144	0.955609729
4638	MYLK	Myosin light chain kinase	9.64703	9.51765	8.71321	5.20081	8.62535	6.62087	-5.567205483	-2.476953333	5.567205483	Down	0.019856789	0.955609729
101929876	LOC101929876	40S ribosomal protein S26	10.9709	11.15144	11.22933	12.06451	11.34135	12.07815	1.636688762	0.71078	1.636688762	Up	0.019504025	0.955609729
100533181	FXYD6-FXYD2	FXYD6-FXYD2 readthrough	7.79421	6.94296	6.82305	4.41669	6.85592	5.85013	-2.787863644	-1.47916	2.787863644	Down	0.048251866	0.955609729
4628	MYH10	Myosin, heavy chain 10, non-muscle	5.69622	5.13881	4.91672	4.57208	4.53218	4.68122	-1.575078064	-0.655423333	1.575078064	Down	0.020709186	0.955609729
148523	CIART	Circadian associated	4.48865	5.19815	5.29833	7.51805	5.29409	7.12009	3.136234278	1.649033333	3.136234278	Up	0.026466979	0.955609729

		repressor of transcription												
5420	PODXL	Podocalyxin-like	8.37661	7.14614	7.11281	6.05223	6.39097	6.95173	-2.114343825	-1.08021	2.114343825	Down	0.033960081	0.955609729
4588	MUC6	Mucin 6, oligomeric mucus/gel-forming	7.34869	9.34381	9.77914	12.23407	10.87266	11.66247	6.801501794	2.765853333	6.801501794	Up	0.00480813	0.955609729
23197	FAF2	Fas associated factor family member 2	5.85259	6.2679	6.2759	6.84125	7.13068	6.40953	1.581934647	0.66169	1.581934647	Up	0.029831565	0.955609729
26051	PPP1R16B	Protein phosphatase 1 regulatory subunit 16B	7.35118	5.46882	6.18306	4.82963	5.02069	5.45435	-2.350221393	-1.232796667	2.350221393	Down	0.035076206	0.955609729
51701	NLK	Nemo-like kinase	7.39183	7.82219	7.30631	8.2158	8.02971	8.3544	1.616858396	0.693193333	1.616858396	Up	0.011692837	0.955609729
83539	CHST9	Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9	4.5729	5.09961	5.03636	6.00828	5.2929	5.54602	1.638955481	0.712776667	1.638955481	Up	0.022768018	0.955609729
9391	CIAO1	Cytosolic iron-sulfur assembly component 1	5.57585	5.53502	6.62792	7.05135	6.49877	6.79912	1.827852936	0.87015	1.827852936	Up	0.036673909	0.955609729
105372824	LOC10537282	Uncharacterized protein	5.98118	6.7183	6.59846	7.39628	7.01425	6.83207	1.567233347	0.64822	1.567233347	Up	0.04339205	0.955609729

105372824	LOC105372824	Uncharacterized protein c21orf124	5.98118	6.7183	6.59846	7.39628	7.01425	6.83207	1.567233347	0.64822	1.567233347	Up	0.04339205	0.955609729
5051	PAFAH2	Platelet-activating factor acetylhydrolase 2	3.90226	5.09269	5.18461	5.91862	5.54425	5.72724	2.004881082	1.003516667	2.004881082	Up	0.026306401	0.955609729
400506	KNOP1	Lysine-rich nucleolar protein 1	6.91145	7.38662	7.19567	7.80597	8.24422	7.58578	1.640432995	0.714076667	1.640432995	Up	0.019138247	0.955609729
117854	TRIM6	Tripartite motif containing 6	5.97928	5.56221	5.28965	4.50131	5.14533	4.68342	-1.782242109	-0.833693333	1.782242109	Down	0.01295428	0.955609729
3248	HPGD	Hydroxyprostaglandin dehydrogenase 15-(NAD)	6.69485	7.7447	6.95254	7.95547	7.67204	7.93868	1.652556961	0.7247	1.652556961	Up	0.043505376	0.955609729
56907	SPIRE1	Spire-type actin nucleation factor 1	8.28223	7.70751	7.71749	6.984	7.50423	6.5806	-1.83969508	-0.879466667	1.83969508	Down	0.0204461	0.955609729
1809	DPYSL3	Dihydropyrimidinase like 3	6.13566	4.35379	4.56356	2.98759	4.18967	3.16103	-2.972286806	-1.571573333	2.972286806	Down	0.022580497	0.955609729
6231	RPS26	Ribosomal protein S26	10.9709	11.15144	11.22933	12.06451	11.34135	12.07815	1.636688762	0.71078	1.636688762	Up	0.019504025	0.955609729
5621	PRNP	Prion protein	7.66454	6.74428	7.11883	6.37644	5.84881	6.72967	-1.811992101	-0.857576667	1.811992101	Down	0.032813287	0.955609729
57462	KIAA1161	KIAA1161	5.15417	6.25507	5.76013	6.64589	6.36285	6.52543	1.726998305	0.788266667	1.726998305	Up	0.031116268	0.955609729
2273	FHL1	Four and a	10.92	7.463	7.110	4.539	6.276	6.094	-7.2813535	-2.86420	7.281353	Down	0.030200	0.955609

25825	BACE2	B-site APP-cleaving enzyme 2	7.43194	7.97497	7.81604	8.41369	8.62673	8.13321	1.569414752	0.650226667	1.569414752	Up	0.021819233	0.955609729
6591	SNAI2	Snail family zinc finger 2	7.09906	5.70062	5.65306	4.6673	5.04155	4.9466	-2.404544012	-1.265763333	2.404544012	Down	0.016712888	0.955609729
977	CD151	CD151 molecule (Raph blood group)	9.31631	9.03382	9.26503	8.57549	8.81207	8.14376	-1.618450603	-0.694613333	1.618450603	Down	0.01573791	0.955609729
101928168	LOC101928168	Uncharacterized LOC101928168	6.36212	6.49398	6.0664	7.48578	6.96308	7.84714	2.180259714	1.1245	2.180259714	Up	0.004104425	0.955609729
79056	PRRG4	Proline rich Gla (G-carboxyglutamic acid) 4 (transmembrane)	3.66165	3.92639	4.32475	4.82986	4.34133	4.74488	1.588604505	0.66776	1.588604505	Up	0.018277738	0.955609729
3115	HLA-DPB1	Major histocompatibility complex, class II, DP β1	3.12138	2.71964	7.61231	8.27509	8.87426	7.84585	14.39294587	3.84729	14.39294587	Up	0.018542717	0.955609729
10165	SLC25A13	Solute carrier family 25 (aspartate/glutamate	8.12546	7.89533	8.24473	8.98872	8.43533	8.63098	1.512047366	0.596503333	1.512047366	Up	0.023557621	0.955609729

10165	SLC25A13	Solute carrier family 25 (aspartate/glutamate carrier), member 13	8.12546	7.89533	8.24473	8.98872	8.43533	8.63098	1.512047366	0.596503333	1.512047366	Up	0.023557621	0.955609729
252983	STXBP4	Syntaxin binding protein 4	6.22717	6.95669	6.31353	6.88362	7.21679	7.38519	1.583082747	0.662736667	1.583082747	Up	0.036877147	0.955609729
9270	ITGB1BP1	Integrin β 1 binding protein 1	11.23483	8.05543	6.61593	5.12057	6.02084	5.43891	-8.625591143	-3.108623333	8.625591143	Down	0.025422981	0.955609729
3822	KLRC2	Killer cell lectin-like receptor subfamily C, member 2	4.24177	3.67414	3.58905	4.83	5.45603	5.83127	2.902803001	1.537446667	2.902803001	Up	0.00149172	0.955609729
2331	FMOD	Fibromodulin	5.57379	4.78525	4.71535	3.88759	4.68611	4.08008	-1.749411885	-0.80687	1.749411885	Down	0.034060964	0.955609729
57493	HEG1	Heart development protein with EGF-like domains 1	9.3175	7.81526	7.72124	6.16524	7.52946	7.06722	-2.574026072	-1.364026667	2.574026072	Down	0.037238224	0.955609729
9342	SNAP29	Synaptosome associated protein 29kda	6.28587	6.21159	5.85019	6.83255	6.52122	6.82225	1.525684513	0.609456667	1.525684513	Up	0.01665029	0.955609729
55283	MCOLN3	Mucolipin 3	4.61899	5.97408	3.97674	6.57902	6.461	5.66197	2.597985418	1.377393333	2.597985418	Up	0.035436453	0.955609729

3778	KCNMA1	Potassium channel, calcium activated large conductance subfamily M α, member 1	6.11955	6.5628	5.87272	3.66307	5.27697	3.94603	-3.705495997	-1.889666667	3.705495997	Down	0.003734481	0.955609729
653316	FAM153C	Family with sequence similarity 153, member C	3.68869	4.0597	3.03113	3.96192	4.77083	4.72872	1.85829988	0.893983333	1.85829988	Up	0.029300486	0.955609729
3696	ITGB8	Integrin β 8	3.82093	3.81251	4.12557	4.89526	4.72822	4.10052	1.574612315	0.654996667	1.574612315	Up	0.024707157	0.955609729
570	BAAT	Bile acid-coa:amino acid N-acyltransferase	8.70581	9.86369	9.74827	10.65616	10.54473	10.35422	2.112737214	1.079113333	2.112737214	Up	0.013074663	0.955609729
8777	MPDZ	Multiple PDZ domain protein	7.97198	6.05521	5.86301	3.99336	5.59338	4.89503	-3.4889913	-1.80281	3.4889913	Down	0.028293754	0.955609729
94122	SYTL5	Synaptotagmin like 5	4.07812	4.85824	4.17343	5.84165	5.41384	4.95924	2.04908524	1.03498	2.04908524	Up	0.011153461	0.955609729
64902	AGXT2	Alanine--glyoxylate aminotransferase 2	4.23419	4.46689	4.6103	5.33859	5.14114	4.87361	1.602865458	0.680653333	1.602865458	Up	0.006828333	0.955609729
8794	TNFRSF10C	Tumor necrosis	4.80854	5.73506	5.04325	5.94503	5.84501	5.71225	1.556688194	0.63848	1.556688194	Up	0.043638733	0.955609729

		factor receptor superfamily member 10c, decoy without an intracellular domain												
28982	FLVCR1	Feline leukemia virus subgroup C cellular receptor 1	3.47982	4.49406	4.98428	5.57931	5.02473	5.17566	1.919211002	0.940513333	1.919211002	Up	0.045600788	0.955609729
29965	CDIP1	Cell death-inducing p53 target 1	7.56032	7.43516	7.45747	8.31783	8.41856	7.58096	1.538438387	0.621466667	1.538438387	Up	0.043772773	0.955609729
64710	NUCKS1	Nuclear casein kinase and cyclin-dependent kinase substrate 1	8.06077	7.95106	8.16921	7.64151	6.48254	7.63794	-1.748781446	-0.80635	1.748781446	Down	0.048238731	0.955609729
643752	RAP1BL	RAP1B, member of RAS oncogene family pseudogene	5.51884	4.59482	4.58076	4.40312	3.56146	4.28574	-1.758932354	-0.8147	1.758932354	Down	0.045776334	0.955609729
11126	CD160	CD160	3.897	3.685	4.441	4.964	4.469	5.034	1.7586153	0.81444	1.758615	Up	0.013774	0.955609

		molecule	43	23	82	35	11	34	91		391		421	729
6863	TAC1	Tachykinin precursor 1	7.92399	7.91241	8.43453	7.63059	6.56068	6.75505	-2.155770103	-1.108203333	2.155770103	Down	0.011422299	0.955609729
8447	DOC2B	Double C2-like domains, β	7.2653	5.92974	5.76117	5.3484	5.16561	5.08031	-2.174419049	-1.12063	2.174419049	Down	0.026911662	0.955609729
23242	COBL	Cordon-bleu WH2 repeat protein	5.45803	6.39831	6.5817	7.38957	6.99314	7.21946	2.077300601	1.05471	2.077300601	Up	0.013558969	0.955609729
3680	ITGA9	Integrin α 9	7.03306	6.39409	5.08932	3.29988	5.64968	4.26712	-3.402503549	-1.766596667	3.402503549	Down	0.041225075	0.955609729
23600	AMACR	Alpha-methylacyl-coa racemase	7.96153	9.40853	8.90388	9.61734	9.63986	9.58988	1.81216376	0.857713333	1.81216376	Up	0.048433898	0.955609729
3012	HIST1H2AE	Histone cluster 1, h2ae	5.57032	5.57215	5.55859	7.05272	6.18956	6.33486	1.943548801	0.958693333	1.943548801	Up	0.006797745	0.955609729
654466	KGFLP2	Keratinocyte growth factor-like protein 2	7.50129	6.87949	6.73008	6.46141	6.49425	5.84314	-1.706081619	-0.770686667	1.706081619	Down	0.031197641	0.955609729
10231	RCAN2	Regulator of calcineurin 2	7.53332	7.18874	7.22866	4.24573	6.03144	6.36392	-3.410248019	-1.769876667	3.410248019	Down	0.013865655	0.955609729
285343	TCAIM	T cell activation inhibitor, mitochondrial	7.2847	7.9109	7.98687	8.6807	8.6271	9.02888	2.072544866	1.051403333	2.072544866	Up	0.003841267	0.955609729
3249	HPN	Hepsin	8.08485	9.21415	8.24924	9.51153	9.38948	9.33114	1.859141614	0.894636667	1.859141614	Up	0.024194031	0.955609729
2568	GABR	Gamma-ami	5.613	6.727	7.986	10.06	8.661	7.730	4.1186361	2.042166	4.118636	Up	0.032541	0.955609

2568	GABRP	Gamma-aminobutyric acid (GABA) A receptor, pi	5.61357	6.72751	7.98656	10.06241	8.66135	7.73038	4.11863611	2.042166667	4.11863611	Up	0.032541353	0.955609729
8544	PIR	Pirin	7.91557	7.61911	7.86825	6.802	7.29306	7.14695	-1.647532205	-0.720306667	1.647532205	Down	0.008381054	0.955609729
2115	ETV1	Ets variant 1	7.7653	8.87137	8.54641	9.41547	8.77998	9.3692	1.733702873	0.793856667	1.733702873	Up	0.04874427	0.955609729
2230	FDX1	Ferredoxin 1	6.50231	6.85142	6.33267	7.51206	6.8406	7.08988	1.500434145	0.58538	1.500434145	Up	0.045867303	0.955609729
114880	OSBPL6	Oxysterol binding protein like 6	6.58653	7.49918	6.38885	7.79569	7.25704	8.69324	2.129433977	1.09047	2.129433977	Up	0.044647603	0.955609729
53826	FXYD6	FXYD domain containing ion transport regulator 6	7.79421	6.94296	6.82305	4.41669	6.85592	5.85013	-2.787863644	-1.47916	2.787863644	Down	0.048251866	0.955609729
1909	EDNRA	Endothelin receptor type A	7.99943	6.00156	5.70532	4.42795	5.72377	4.909	-2.92518932	-1.54853	2.92518932	Down	0.048830416	0.955609729
79814	AGMAT	Agmatinase	4.02117	4.92578	4.02589	5.19787	5.29075	4.84277	1.724506221	0.786183333	1.724506221	Up	0.027315375	0.955609729
100130933	SMIM6	Small integral membrane protein 6	7.09196	8.54744	8.17215	9.06327	8.60094	9.03994	1.950981368	0.9642	1.950981368	Up	0.041807891	0.955609729
2892	GRIA3	Glutamate receptor, ionotropic,	3.08577	3.65936	3.19875	3.67821	4.1986	4.3831	1.707647265	0.77201	1.707647265	Up	0.012880778	0.955609729

6785	ELOVL4	ELOVL fatty acid elongase 4	4.99489	4.23417	4.42611	3.79942	4.20958	3.76332	-1.545010526	-0.627616667	1.545010526	Down	0.031536766	0.955609729
1016	CDH18	Cadherin 18, type 2	3.28266	3.64847	3.57381	3.84575	5.27844	4.5929	2.100476531	1.070716667	2.100476531	Up	0.018304972	0.955609729
11181	TREH	Trehalase	6.11771	6.90228	6.03677	7.39866	7.59145	7.45968	2.190120122	1.13101	2.190120122	Up	0.003778472	0.955609729
7504	XK	X-linked Kx blood group	4.31887	5.14045	5.36258	5.3692	5.77334	5.88136	1.663244197	0.734	1.663244197	Up	0.046828081	0.955609729
10166	SLC25A15	Solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15	6.82353	7.57238	7.66225	8.32478	7.95257	8.03235	1.682391345	0.750513333	1.682391345	Up	0.026569751	0.955609729
84790	TUBA1C	Tubulin, α1c	10.28378	10.78814	10.76163	11.38938	11.34549	10.98621	1.546682064	0.629176667	1.546682064	Up	0.019076029	0.955609729
26503	SLC17A5	Solute carrier family 17 (acidic sugar transporter), member 5	5.33634	5.5192	5.84902	6.68775	6.27923	6.10668	1.728714949	0.7897	1.728714949	Up	0.010363395	0.955609729
26020	LRP10	LDL receptor related protein 10	4.5819	5.49059	5.83826	6.16213	6.46648	5.84914	1.809594772	0.855666667	1.809594772	Up	0.045124676	0.955609729
4907	NT5E	5’-nucleotidase, ecto	4.80951	5.59635	4.98493	5.81289	5.47855	5.992	1.548512827	0.630883333	1.548512827	Up	0.04342017	0.955609729

4907	NT5E	5’-nucleotidase, ecto (CD73)	4.80951	5.59635	4.98493	5.81289	5.47855	5.992	1.548512827	0.630883333	1.548512827	Up	0.04342017	0.955609729
6932	TCF7	Transcription factor 7 (T-cell specific, HMG-box)	6.40992	5.62125	6.33267	5.47574	5.66028	5.35891	-1.540042324	-0.62297	1.540042324	Down	0.040790551	0.955609729
1838	DTNB	Dystrobrevin β	3.15089	3.87571	3.54628	4.4302	4.18564	3.8383	1.544443042	0.627086667	1.544443042	Up	0.029957886	0.955609729
7586	ZKSCAN1	Zinc finger with KRAB and SCAN domains 1	3.95243	5.13148	4.55017	6.19946	5.39242	5.6546	2.303988209	1.204133333	2.303988209	Up	0.010795501	0.955609729
4603	MYBL1	V-myb avian myeloblastosis viral oncogene homolog-like 1	5.93296	5.41232	6.45441	5.03646	5.26138	5.42684	-1.615152065	-0.69167	1.615152065	Down	0.045311731	0.955609729
196446	MYRFL	Myelin regulatory factor-like	5.3553	5.41971	5.69906	6.56001	6.8389	6.71565	2.318990109	1.213496667	2.318990109	Up	0.00025394	0.955609729
5154	PDGFA	Platelet-derived growth factor αpolypeptide	5.35197	6.28206	5.73869	7.80274	7.02977	6.2305	2.345827074	1.230096667	2.345827074	Up	0.026097019	0.955609729
2324	FLT4	Fms-related	6.916	5.745	5.749	5.225	5.510	4.950	-1.8763686	-0.90794	1.876368	Down	0.038306	0.955609

Table SIII. DEGs in comparison III.

Entry	Gene symbol	Gene name	A10933	A10934	A10939	A10958	A10960	A10963	Fold-change	logFC	absolute FC	Regulation	P-value	FDR
28673	TRAV12-2	T cell receptor α variable 12-2	5.54752	5.20952	4.72877	4.42279	4.67467	4.56077	-1.525406057	-0.609193333	1.525406057	Down	0.033582614	0.999940436
308	ANXA5	Annexin A5	6.85555	6.75964	6.98778	7.98821	7.29296	7.38921	1.612318391	0.689136667	1.612318391	Up	0.021117163	0.999940436
23705	CADM1	Cell adhesion molecule 1	5.99482	5.26995	5.82673	6.10244	7.37413	6.41082	1.907870611	0.931963333	1.907870611	Up	0.044744464	0.999940436
3976	LIF	Leukemia inhibitory factor	6.35804	6.18455	6.77195	7.24651	7.68051	6.64502	1.684709682	0.7525	1.684709682	Up	0.047431074	0.999940436
55125	CEP192	Centrosomal protein 192kda	7.60627	8.17279	7.42922	6.90334	6.68146	7.36364	-1.685620775	-0.75328	1.685620775	Down	0.031942132	0.999940436
257019	FRMD3	FERM domain containing 3	4.57856	4.17422	4.00787	4.96956	4.96344	5.17729	1.720959723	0.783213333	1.720959723	Up	0.004114767	0.999940436
130	COL	Collagen, type	5.1	4.8	5.1	6.6	7.1	5.4	2.59	1.37	2.59	Up	0.01	0.99

5	13A1	XIII, α 1	5214	7301	1502	4765	5809	5884	3325566	4803333	3325566		6278566	9940436
634	CEACAM1	Carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	5.31662	5.20405	5.78818	6.60574	6.11219	5.89918	1.70458436	0.76942	1.70458436	Up	0.021315292	0.999940436
7474	WNT5A	Wingless-type MMTV integration site family member 5A	5.34678	4.82717	5.38379	6.39454	5.78942	5.938	1.808432813	0.85474	1.808432813	Up	0.010519655	0.999940436
55902	ACSS2	Acyl-coa synthetase short-chain family member 2	9.26684	8.6944	8.79817	7.93829	8.22859	8.42115	-1.651518732	-0.723793333	1.651518732	Down	0.016761325	0.999940436
7903	ST8SIA4	ST8 α-N-acetyl-neuraminide α-2,8-sialyltransferase 4	5.4135	6.18019	6.04885	5.50102	5.00574	4.84081	-1.699358219	-0.76499	1.699358219	Down	0.029750761	0.999940436
1906	EDN1	Endothelin 1	6.92086	7.13457	7.14945	7.68835	8.15057	7.82263	1.764048223	0.81889	1.764048223	Up	0.00384072	0.999940436
6926	TBX3	T-box 3	5.5229	4.90831	4.98417	5.45884	6.21888	5.77249	1.600227104	0.678276667	1.600227104	Up	0.039849311	0.999940436

60437	CDH26	Cadherin 26	3.94549	3.87261	4.56144	3.42556	3.78289	3.27442	-1.54995178	-0.632223333	1.54995178	Down	0.029613749	0.999940436
318	NUDT2	Nudix hydrolase 2	5.32255	5.57363	5.90924	6.31026	6.28661	6.11302	1.552747595	0.634823333	1.552747595	Up	0.015556533	0.999940436
101928168	LOC101928168	Uncharacterized LOC101928168	3.55212	3.89041	3.78003	4.23262	4.23685	4.56555	1.520086407	0.604153333	1.520086407	Up	0.005742709	0.999940436
79772	MCTP1	Multiple C2 domains, transmembrane 1	4.39319	5.29644	4.53471	6.85912	6.66634	4.94985	2.670278098	1.41699	2.670278098	Up	0.038182399	0.999940436
147685	C19orf18	Chromosome 19 open reading frame 18	5.20157	5.30855	4.64324	3.92611	4.17757	4.80961	-1.677938687	-0.74669	1.677938687	Down	0.037496223	0.999940436
573	BAG1	BCL2 associated athanogene 1	5.58428	6.58549	5.77047	6.61877	6.65603	6.71668	1.606305906	0.683746667	1.606305906	Up	0.047448864	0.999940436
2274	FHL2	Four and a half LIM domains 2	7.69013	7.86979	8.35665	9.29858	8.54644	8.54725	1.771821579	0.825233333	1.771821579	Up	0.02689116	0.999940436
100	LOC	Uncharacterized	9.2	8.4	9.6	9.7	9.7	10.	1.77	0.82	1.77	Up	0.04	0.99

507412	100507412	LOC100507412	522	969	5494	5249	8874	34978	6441278	899	6441278		7069964	9940436
11015	KDELR3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	8.28797	7.95224	8.22367	9.15424	8.97632	8.56769	1.675730331	0.74479	1.675730331	Up	0.011134946	0.999940436
55283	MCOLN3	Mucolipin 3	3.79673	4.46933	3.92922	4.25566	5.47758	5.28007	1.917655187	0.939343333	1.917655187	Up	0.036648093	0.999940436
140597	TCEAL2	Transcription elongation factor A (SII)-like 2	6.72542	7.31949	7.17566	8.37096	7.8236	7.55528	1.793888224	0.84309	1.793888224	Up	0.020215028	0.999940436
114882	OSBPL8	Oxysterol binding protein like 8	7.38312	7.53895	7.84777	8.37369	8.2259	8.01093	1.530030063	0.61356	1.530030063	Up	0.018001112	0.999940436
80003	PCNXL2	Pecanex-like 2 (Drosophila)	4.34786	4.93247	4.97897	5.55292	5.5162	5.05794	1.539633179	0.622586667	1.539633179	Up	0.035817432	0.999940436
7980	TFPI2	Tissue factor pathway inhibitor 2	4.34573	3.45055	3.87908	4.28677	4.74454	4.77157	1.634867067	0.709173333	1.634867067	Up	0.031299444	0.999940436
904	SPA	Sperm associated	2.8	3.8	3.8	4.7	4.0	4.3	1.79	0.84	1.79	Up	0.03	0.99

3	G9	antigen 9	5189	7096	6225	1241	0787	9326	3544242	2813333	3544242		8782006	9940436
168002	DACT2	Dishevelled-binding antagonist of β-catenin 2	5.53249	6.32472	5.50867	4.83213	4.9299	5.34185	-1.686462221	-0.754	1.686462221	Down	0.031555913	0.999940436
133383	SETD9	SET domain containing 9	3.92358	2.8323	3.73056	4.63078	4.00373	4.20429	1.722041606	0.78412	1.722041606	Up	0.045377542	0.999940436
4173	MCM4	Minichromosome maintenance complex component 4	3.6681	4.2565	4.16431	5.21709	5.3215	4.26353	1.871770212	0.904403333	1.871770212	Up	0.028135334	0.999940436
6909	TBX2	T-box 2	6.13341	5.98787	6.05305	7.5588	6.92211	6.22723	1.795770934	0.844603333	1.795770934	Up	0.042948982	0.999940436
5570	PKIB	Protein kinase (camp-dependent, catalytic) inhibitor β	4.27381	4.56517	4.45743	5.49596	5.13511	4.79881	1.637116133	0.711156667	1.637116133	Up	0.011953214	0.999940436
90427	BMF	Bcl2 modifying factor	6.63279	7.46628	7.40253	6.32685	5.86669	6.42511	-1.94663626	-0.960983333	1.94663626	Down	0.014049942	0.999940436
953	ENTPD1	Ectonucleoside triphosphate	5.787	5.570	5.380	6.913	6.430	5.862	1.768455	0.82249	1.768455	Up	0.02765	0.99994

		diphosphohydrolase 1	46	32	97	57	17	48	602		5602		3888	0436
3312	HSPA8	Heat shock protein family A (Hsp70) member 8	10.09617	10.25724	10.40631	10.84698	10.48642	11.19147	1.503560931	0.58383333	1.503560931	Up	0.034576183	0.999940436
5342	PLGLB2	Plasminogen-like B2	4.84556	4.92227	4.16009	4.1808	4.10089	3.40324	-1.679071113	-0.747663333	1.679071113	Down	0.039811016	0.999940436
4916	NTRK3	Neurotrophic tyrosine kinase, receptor, type 3	4.55486	3.73736	4.13965	3.46815	3.80904	3.29294	-1.537493168	-0.62058	1.537493168	Down	0.038001947	0.999940436
84883	AIFM2	Apoptosis inducing factor, mitochondria associated 2	8.24438	7.54458	7.45089	6.99637	6.89989	7.07917	-1.687179339	-0.754613333	1.687179339	Down	0.019976217	0.999940436
5343	PLGLB1	Plasminogen-like B1	4.84556	4.92227	4.16009	4.1808	4.10089	3.40324	-1.679071113	-0.747663333	1.679071113	Down	0.039811016	0.999940436
10590	SCGN	Secretagogin, EF-hand calcium binding protein	4.06846	4.16228	4.48417	6.82567	6.44091	5.46269	4.013293499	2.004786667	4.013293499	Up	0.001109112	0.999940436
126382	NR2C2AP	Nuclear receptor 2C2-associated protein	5.74154	5.79917	6.35839	6.81732	6.54189	6.49648	1.571559252	0.652196667	1.57155925	Up	0.02358947	0.99994043

											2		7	6
729857	RGPD2	RANBP2-like and GRIP domain containing 2	4.45043	3.96459	4.50505	4.7907	5.5162	4.9369	1.710688007	0.774576667	1.710688007	Up	0.018391202	0.999940436
5209	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	11.38393	9.89092	10.4103	8.81703	9.85801	9.66515	-2.165930074	-1.114986667	2.165930074	Down	0.045484684	0.999940436
79966	SCD5	Stearoyl-coa desaturase 5	7.20926	5.92625	5.89434	7.8906	7.82983	7.09839	2.39992613	1.26299	2.39992613	Up	0.022290362	0.999940436
63923	TNN	Tenascin N	3.78697	4.4004	4.03933	6.05492	4.49033	4.85331	2.081013994	1.057286667	2.081013994	Up	0.040873889	0.999940436
6581	SLC22A3	Solute carrier family 22 (organic cation transporter), member 3	7.34597	7.62627	6.92802	5.8192	6.61256	6.97734	-1.778161876	-0.830386667	1.778161876	Down	0.049614967	0.999940436
913	CD1E	CD1e molecule	4.38304	5.04694	4.80897	5.97049	5.72405	5.2543	1.87033496	0.903296667	1.87033496	Up	0.011154116	0.999940436
8174	MADCAM1	Mucosal vascular addressin cell adhesion molecule 1	6.09866	6.39244	6.79821	7.64492	9.01916	6.85512	2.657304091	1.409963333	2.657304091	Up	0.038833539	0.999940436

10781	ZNF266	Zinc finger protein 266	8.61238	8.91527	8.27325	7.77808	7.62088	7.7942	-1.826708797	-0.869246667	1.826708797	Down	0.004866272	0.999940436
57677	ZFP14	ZFP14 zinc finger protein	4.87109	5.61774	5.25754	4.56524	4.32754	4.95903	-1.549196342	-0.63152	1.549196342	Down	0.043339013	0.999940436
3659	IRF1	Interferon regulatory factor 1	6.55913	6.4293	7.16312	6.0832	5.78999	6.17743	-1.624853897	-0.70031	1.624853897	Down	0.025912492	0.999940436
55839	CENPN	Centromere protein N	4.24861	4.75759	4.58202	5.0823	5.72899	4.99883	1.670909196	0.740633333	1.670909196	Up	0.021493019	0.999940436
57670	KIAA1549	KIAA1549	3.57276	4.18185	3.99994	4.5771	4.8722	4.30055	1.58567818	0.6651	1.58567818	Up	0.020034266	0.999940436
124	ADH1A	Alcohol dehydrogenase 1A (class I), α polypeptide	11.91641	11.632334	11.582556	10.134999	10.128155	11.335542	-2.261975547	-1.177583333	2.261975547	Down	0.014293372	0.999940436
6715	SRD5A1	Steroid-5-α-reductase, α polypeptide 1 (3-oxo-5 α-steroid Δ 4-dehydrogenase α 1)	3.811115	3.90011	3.65955	4.88373	4.38403	4.24459	1.639815308	0.713533333	1.639815308	Up	0.008038338	0.999940436

79960	JADE1	Jade family PHD finger 1	8.38918	8.18989	8.1833	9.22305	9.17869	8.40485	1.603702647	0.681406667	1.603702647	Up	0.035770813	0.999940436
6234	RPS28	Ribosomal protein S28	6.505	5.87866	6.13096	7.24116	6.80741	6.68582	1.670087086	0.739923333	1.670087086	Up	0.01956437	0.999940436
4857	NOVA1	Neuro-oncological ventral antigen 1	7.50335	7.12338	7.49287	5.72048	6.54588	6.89208	-1.9821324	-0.987053333	1.9821324	Down	0.020707703	0.999940436
4199	ME1	Malic enzyme 1, NADP(+)-dependent, cytosolic	7.75563	7.58823	7.88255	6.40191	7.04388	7.44614	-1.714942256	-0.77816	1.714942256	Down	0.032389533	0.999940436
653489	RGPD3	RANBP2-like and GRIP domain containing 3	4.45043	3.96459	4.50505	4.7907	5.5162	4.9369	1.710688007	0.774576667	1.710688007	Up	0.018391202	0.999940436
56892	C8orf4	Chromosome 8 open reading frame 4	8.11815	7.30155	7.29307	8.52094	9.72417	8.18964	2.363066124	1.24066	2.363066124	Up	0.030948093	0.999940436
9076	CLDN1	Claudin 1	8.77074	9.09795	9.21638	10.1366	9.78162	9.20471	1.601347781	0.679286667	1.601347781	Up	0.04628357	0.999940436
574	C3orf	Chromosome 3	6.6	6.3	7.0	7.5	7.5	7.2	1.74	0.80	1.74	Up	0.01	0.99

15	14	open reading frame 14	2905	3345	1382	8403	7478	3934	9905078	7276667	9905078		0711783	9940436
81671	VMP1	Vacuole membrane protein 1	8.7995	8.8739	10.00355	10.38812	10.91156	10.08674	2.354890537	1.23566	2.354890537	Up	0.017191736	0.999940436
6196	RPS6KA2	Ribosomal protein S6 kinase, 90kda, polypeptide 2	7.93819	7.18131	7.64938	8.48335	8.42146	8.00924	1.641547694	0.715056667	1.641547694	Up	0.027695593	0.999940436
79819	WDR78	WD repeat domain 78	4.98536	5.78393	5.38562	4.70066	4.56876	4.90976	-1.578524515	-0.658576667	1.578524515	Down	0.026731884	0.999940436
5732	PTGER2	Prostaglandin E receptor 2	4.77091	4.08622	4.37029	5.59136	5.52194	5.00625	1.950769516	0.964043333	1.950769516	Up	0.006402317	0.999940436
78989	COLEC11	Collectin subfamily member 11	8.56426	8.53543	8.39877	9.71452	9.37069	9.55614	2.067131259	1.04763	2.067131259	Up	0.000518203	0.999940436
55816	DOK5	Docking protein 5	6.02858	5.68384	6.44555	7.68838	6.68935	7.29866	2.254498682	1.172806667	2.254498682	Up	0.009369257	0.999940436
3158	HMGCS2	3-hydroxy-3-methylglutaryl-coa	8.401	7.095	6.422	9.699	9.440	9.519	4.746431	2.246843	4.74643	Up	0.00302	0.99994

		synthase 2 (mitochondrial)	62	11	48	22	74	78	733	333	1733		3203	0436
10913	EDAR	Ectodysplasin A receptor	5.14781	5.53806	5.82922	6.40766	6.38551	5.95336	1.674596289	0.743813333	1.674596289	Up	0.017834992	0.999940436
6319	SCD	Stearoyl-coa desaturase (Δ-9-desaturase)	5.38735	4.41205	5.37092	4.0602	4.0591	4.63872	-1.746056205	-0.8041	1.746056205	Down	0.041476515	0.999940436
388	RHOB	Ras homolog family member B	6.85712	6.63494	6.95788	7.18419	7.97885	7.40019	1.629500732	0.70443	1.629500732	Up	0.02631392	0.999940436
162514	TRPV3	Transient receptor potential cation channel, subfamily V, member 3	7.10638	7.06624	6.57059	5.42038	6.24015	5.98347	-2.046374228	-1.03307	2.046374228	Down	0.007930288	0.999940436
5727	PTCH1	Patched 1	8.17178	8.19161	7.9854	9.82326	8.84261	8.70681	2.011070048	1.007963333	2.011070048	Up	0.017085235	0.999940436
25904	CNOT10	CCR4-NOT transcription complex subunit 10	3.28262	3.43407	3.77654	4.38304	3.93056	3.94601	1.503988289	0.588793333	1.503988289	Up	0.017526527	0.999940436
2018	EMX2	Empty spiracles homeobox 2	6.67211	7.65853	5.25512	3.95733	4.47195	5.59292	-3.616305768	-1.854516667	3.61630576	Down	0.03295859	0.99994043

											8		6	6
79365	BHLHE41	Basic helix-loop-helix family member e41	6.17846	6.43638	6.66	7.50762	6.84703	6.98608	1.611752253	0.68863	1.611752253	Up	0.02535026	0.999940436
440712	C1orf186	Chromosome 1 open reading frame 186	5.85853	6.44553	6.15925	6.92556	8.19261	6.68939	2.165574793	1.11475	2.165574793	Up	0.034575555	0.999940436
11075	STMN2	Stathmin 2	4.50765	3.46467	3.03375	5.9052	7.17922	4.47502	4.545555669	2.184456667	4.545555669	Up	0.021002436	0.999940436
2114	ETS2	V-ets avian erythroblastosis virus E26 oncogene homolog 2	7.68347	7.04982	7.44005	8.11808	8.44698	7.63026	1.595483107	0.673993333	1.595483107	Up	0.047464251	0.999940436
9464	HAND2	Heart and neural crest derivatives expressed 2	5.27697	5.26844	5.34583	6.7389	6.33109	5.46269	1.840987716	0.88048	1.840987716	Up	0.033141422	0.999940436
3775	KCNK1	Potassium channel, two pore domain subfamily K, member 1	7.16767	8.1144	8.3179	9.07649	8.86924	8.60175	1.97589096	0.982503333	1.97589096	Up	0.023279952	0.999940436
1136	CHRNA3	Cholinergic receptor, nicotinic α 3	3.3431	3.3087	3.67793	4.15953	4.93237	3.74887	1.786348214	0.837013333	1.786348214	Up	0.030612355	0.999940436

83661	MS4A8	Membrane-spanning 4-domains, subfamily A, member 8	6.14081	7.34354	6.97255	8.99888	7.56238	8.02294	2.59505779	1.375766667	2.59505779	Up	0.022425772	0.999940436
1359	CPA3	Carboxypeptidase A3 (mast cell)	8.17832	7.93536	7.18443	9.18195	8.37753	8.72232	1.992477363	0.994563333	1.992477363	Up	0.022002272	0.999940436
7171	TPM4	Tropomyosin 4	6.60477	6.87384	7.35804	9.04023	7.85259	7.89704	2.492787666	1.31776	2.492787666	Up	0.012087765	0.999940436
4171	MCM2	Minichromosome maintenance complex component 2	3.69121	3.94628	4.33869	4.94717	5.17896	4.45543	1.825713009	0.86846	1.825713009	Up	0.011281408	0.999940436
253260	RICTOR	RPTOR independent companion of MTOR, complex 2	3.93857	4.40925	4.77467	3.53723	3.7257	3.84308	-1.593456903	-0.67216	1.593456903	Down	0.021960535	0.999940436
10232	MSLN	Mesothelin	9.47593	6.9558	7.19685	10.39215	9.68909	9.80156	4.241986413	2.08474	4.241986413	Up	0.019588994	0.999940436
2052	EPHX1	Epoxide hydrolase 1, microsomal (xenobiotic)	8.78249	8.73339	8.6206	7.03496	8.03396	8.2843	-1.902311275	-0.927753333	1.902311275	Down	0.03024646	0.999940436
841	SLIT	SLIT and NTRK	3.9	5.0	4.4	6.0	5.9	5.2	2.41	1.27	2.41	Up	0.00	0.99

89	RK6	like family member 6	6366	1367	5415	3149	8295	4189	9904309	495	9904309		7957439	9940436
3606	IL18	Interleukin 18	4.11158	5.76801	5.26387	7.21338	6.49499	5.80284	2.740634617	1.45451	2.740634617	Up	0.029388433	0.999940436
51066	SSUH2	Ssu-2 homolog (*C. Elegans*)	4.71215	5.16349	4.89804	5.06383	5.82574	6.04659	1.648126143	0.720826667	1.648126143	Up	0.04211211	0.999940436
400966	RGPD1	RANBP2-like and GRIP domain containing 1	4.45043	3.96459	4.50505	4.7907	5.5162	4.9369	1.710688007	0.774576667	1.710688007	Up	0.018391202	0.999940436
64854	USP46	Ubiquitin specific peptidase 46	5.11964	4.94448	5.11929	5.99384	5.6271	5.49459	1.562699087	0.64404	1.562699087	Up	0.009586196	0.999940436
64499	TPSB2	Tryptase β 2 (gene/pseudogene)	8.38641	8.64308	8.30774	9.50469	8.60974	9.32877	1.62674712	0.70199	1.62674712	Up	0.037813602	0.999940436
7504	XK	X-linked Kx blood group	4.31887	5.14045	5.36258	5.85324	5.86994	5.65219	1.803946642	0.851156667	1.803946642	Up	0.022678066	0.999940436
4588	MUC6	Mucin 6, oligomeric	7.348	9.343	9.779	11.54	11.02	10.87	5.011236	2.325166	5.01123	Up	0.00901	0.99994

		mucus/gel-forming	69	81	14	042	717	955	642	667	6642		7071	0436
79611	ACSS3	Acyl-coa synthetase short-chain family member 3	4.80621	4.99576	4.73004	3.8626	3.78119	4.71638	-1.651694269	-0.723946667	1.651694269	Down	0.032129076	0.999940436
7432	VIP	Vasoactive intestinal peptide	4.26471	4.38215	5.17001	4.84747	6.35634	5.8965	2.135361015	1.09448	2.135361015	Up	0.043399893	0.999940436
761	CA3	Carbonic anhydrase III	5.44809	5.70469	5.60742	4.43285	4.35611	5.47495	-1.780270748	-0.832096667	1.780270748	Down	0.036251498	0.999940436
125	ADH1B	Alcohol dehydrogenase 1B (class I), β polypeptide	11.91641	11.632234	11.582556	10.134999	10.128155	11.335422	-2.261975547	-1.177583333	2.261975547	Down	0.014293372	0.999940436
1515	CTSV	Cathepsin V	3.11098	3.70432	3.31236	4.19192	4.46604	3.61669	1.642238125	0.715663333	1.642238125	Up	0.029088766	0.999940436
54884	RETSAT	Retinol saturase (all-trans-retinol 13,14-reductase)	10.67805	10.02024	9.48244	9.19849	9.36128	9.2678	-1.722359936	-0.784386667	1.722359936	Down	0.041180366	0.999940436
286343	LURAP1L	Leucine rich adaptor protein 1-like	6.96113	6.96415	7.35534	8.11051	8.34288	7.33294	1.784149695	0.835236667	1.784149969	Up	0.02878073	0.99994043

											5		1	6
1316	KLF6	Kruppel-like factor 6	6.16362	5.11191	5.83495	7.0376	7.22762	6.20538	2.173529987	1.12004	2.173529987	Up	0.02261142	0.999940436
55228	PNMAL1	Paraneoplastic Ma antigen family-like 1	5.45139	5.2786	5.02716	6.93386	6.47388	5.51689	2.078909084	1.055826667	2.078909084	Up	0.026606481	0.999940436
24147	FJX1	Four jointed box 1	5.33815	4.48188	4.6095	6.76877	5.79337	5.36064	2.241425684	1.164416667	2.241425684	Up	0.027787517	0.999940436
54979	HRASLS2	HRAS-like suppressor 2	3.33363	3.84583	3.56363	4.19192	4.32467	4.19423	1.575609477	0.65591	1.575609477	Up	0.004077069	0.999940436
5366	PMAIP1	Phorbol-12-myristate-13-acetate-induced protein 1	4.38584	3.89795	4.84665	4.7998	5.36292	5.16295	1.66064458	0.731743333	1.66064458	Up	0.035465435	0.999940436
51002	TPRKB	TP53RK binding protein	4.40268	4.97658	4.60412	3.6723	4.00787	4.07714	-1.67251985	-0.742023333	1.67251985	Down	0.007369063	0.999940436
57002	YAE1D1	Yae1 domain containing 1	6.30032	6.43966	6.02968	6.8712	6.94377	6.7192	1.503338614	0.58817	1.503338614	Up	0.013546643	0.999940436

966	CD59	CD59 molecule, complement regulatory protein	5.11725	5.78848	5.47272	6.44595	6.20296	5.87883	1.643111063	0.71643	1.643111063	Up	0.022484074	0.999940436
55612	FERMT1	Fermitin family member 1	6.17367	7.69513	6.54056	8.61233	7.82068	7.52156	2.268496866	1.181736667	2.268496866	Up	0.042115167	0.999940436
127700	OSCP1	Organic solute carrier partner 1	4.84606	4.86443	4.65628	4.05557	4.07875	4.43145	-1.516066812	-0.600333333	1.516066812	Down	0.006154072	0.999940436
22943	DKK1	Dickkopf WNT signaling pathway inhibitor 1	5.37692	5.77927	4.89929	8.99487	7.10549	5.93776	3.98384081	1.99416	3.98384081	Up	0.034789114	0.999940436
1908	EDN3	Endothelin 3	3.24529	3.80574	3.38356	4.92611	5.18237	3.68871	2.17477578	1.120866667	2.17477578	Up	0.028920008	0.999940436
87178	PNPT1	Polyribonucleotide nucleotidyltransferase 1	4.23782	4.43035	4.95975	5.2694	5.05009	5.12631	1.521991182	0.60596	1.521991182	Up	0.025885925	0.999940436
602	BCL3	B-cell CLL/lymphoma 3	8.42212	8.22206	8.54343	7.76993	7.52759	7.50496	-1.735129491	-0.795043333	1.735129491	Down	0.00293777	0.999940436
147	PRO	Protein interacting	5.3	5.5	5.1	5.0	4.5	4.4	-1.6	-0.6	1.60	Do	0.01	0.99

011	CA1	with cyclin A1	9067	2237	7366	0998	5942	7339	03587785	81303333	3587785	wn	0997893	9940436
51046	ST8SIA3	ST8 α-N-acetyl-neuraminide α-2,8-sialyltransferase 3	3.16993	3.48719	3.80032	4.05247	4.81198	4.20321	1.828021874	0.870283333	1.828021874	Up	0.011786976	0.999940436
7586	ZKSCAN1	Zinc finger with KRAB and SCAN domains 1	3.95243	5.13148	4.55017	5.54156	5.42799	5.50415	1.92724502	0.94654	1.92724502	Up	0.016698566	0.999940436
84513	PLPP5	Phospholipid phosphatase 5	4.23119	4.91952	4.9017	5.68766	5.40026	5.14552	1.655205105	0.72701	1.655205105	Up	0.023927799	0.999940436
55502	HES6	Hes family bhlh transcription factor 6	5.66841	6.51221	6.54508	7.15889	6.98211	6.97075	1.735498358	0.79535	1.735498358	Up	0.023750472	0.999940436
5318	PKP2	Plakophilin 2	3.60699	4.67422	4.3874	6.15848	4.75911	5.03327	2.134773982	1.094083333	2.134773982	Up	0.043853267	0.999940436
10808	HSPH1	Heat shock protein family H (Hsp110) member 1	8.53857	8.94538	9.08776	9.28621	9.60664	9.73148	1.606818154	0.684206667	1.606818154	Up	0.017741502	0.999940436
379	KCN	Potassium	4.5	4.0	4.3	7.0	6.2	4.7	3.19	1.67	3.19	Up	0.02	0.99

0	S3	voltage-gated channel, modifier subfamily S, member 3	6512	8611	1395	1125	5564	2336	3245191	5023333	3245191		2063629	9940436
1124	CHN2	Chimerin 2	3.55212	3.89041	3.78003	4.23262	4.23685	4.56555	1.520086407	0.604153333	1.520086407	Up	0.005742709	0.999940436
191	AHCY	Adenosylhomocysteinase	6.19918	6.73175	6.85943	7.69084	7.20982	7.53137	1.844227541	0.883016667	1.844227541	Up	0.009317566	0.999940436
25987	TSKU	Tsukushi, small leucine rich proteoglycan	8.58319	8.21682	8.85266	7.70854	7.57769	7.55091	-1.916547826	-0.93851	1.916547826	Down	0.003191466	0.999940436
9886	RHOBTB1	Rho-related BTB domain containing 1	6.01095	5.88469	5.90016	7.07652	6.31956	6.30822	1.554194075	0.636166667	1.554194075	Up	0.038038786	0.999940436
11221	DUSP10	Dual specificity phosphatase 10	4.42126	4.53593	4.46713	4.95095	4.99052	5.32242	1.529637715	0.61319	1.529637715	Up	0.004913287	0.999940436
406991	MIR21	Microrna 21	8.7995	8.87639	10.00355	10.38812	10.91156	10.08674	2.354890537	1.23566	2.354890537	Up	0.017191736	0.999940436
556	TRM	Trna	4.8	5.0	5.3	4.3	4.5	4.1	-1.6	-0.7	1.62	Do	0.00	0.99

87	U	5-methylaminomethyl-2-thiouridylate methyltransferase	687	1664	4491	9593	2582	9505	29560972	04483333	9560972	wn	5685826	9940436
7177	TPSAB1	Tryptase α/β 1	8.38641	8.64308	8.30774	9.50469	8.60974	9.32877	1.62674712	0.70199	1.62674712	Up	0.037813602	0.999940436
25830	SULT4A1	Sulfotransferase family 4A member 1	4.18049	4.39574	3.9571	5.34943	4.88041	4.57991	1.692090424	0.758806667	1.692090424	Up	0.014577934	0.999940436
105376948	LOC105376948	Uncharacterized LOC105376948	4.71215	5.16349	4.89804	5.06383	5.82574	6.04659	1.648126143	0.720826667	1.648126143	Up	0.04211211	0.999940436
6571	SLC18A2	Solute carrier family 18 (vesicular monoamine transporter), member 2	4.49433	4.71354	4.13241	5.72121	4.82926	5.3553	1.808963544	0.855163333	1.808963544	Up	0.017596256	0.999940436
126	ADH1C	Alcohol dehydrogenase 1C (class I), gamma polypeptide	10.18183	11.14674	10.92372	9.09393	9.21467	10.39437	-2.27065208	-1.183106667	2.27065208	Down	0.029380952	0.999940436
213	ALB	Albumin	3.59621	4.89043	4.9478	7.76461	5.40909	7.51349	5.342753043	2.417583333	5.342753043	Up	0.012242273	0.999940436

595	CCND1	Cyclin D1	5.19832	5.70083	6.01748	6.46138	6.12222	6.43957	1.626961374	0.70218	1.626961374	Up	0.027139051	0.999940436
2043	EPHA4	EPH receptor A4	5.307	4.81122	4.15531	5.28873	6.63493	5.72594	2.181554728	1.125356667	2.181554728	Up	0.036922422	0.999940436
23142	DCUN1D4	DCN1, defective in cullin neddylation 1, domain containing 4	7.34896	7.05719	6.84567	6.66378	6.18185	6.49543	-1.555005842	-0.63692	1.555005842	Down	0.021786639	0.999940436
10102	TSFM	Ts translation elongation factor, mitochondrial	4.24012	4.34001	4.4302	5.7866	4.62049	4.9365	1.714458916	0.777753333	1.714458916	Up	0.038487194	0.999940436
31	ACACA	Acetyl-coa carboxylase α	8.26977	8.02124	8.71163	7.96106	7.41114	7.5687	-1.611823009	-0.688693333	1.611823009	Down	0.030351001	0.999940436
23423	TMED3	Transmembrane p24 trafficking protein 3	6.87701	7.49908	7.54564	8.28082	7.98199	7.95992	1.701409011	0.76673	1.701409011	Up	0.015570763	0.999940436
6338	SCNN1B	Sodium channel, non-voltage gated 1 β subunit	6.51974	5.11975	5.08781	4.50753	4.37624	4.63328	-2.0997875	-1.070243333	2.0997875	Down	0.033270642	0.999940436
544	KRT	Keratin 20, type I	4.3	4.7	4.1	7.5	8.2	5.1	6.02	2.59	6.02	Up	0.01	0.99

74	20		5485	0141	4048	7998	6409	2737	7528915	1566667	7528915		4262797	9940436
51751	HIGD1B	HIG1 hypoxia inducible domain family member 1B	6.1379	6.2473	6.2982	7.2417	7.7863	6.4778	1.925700489	0.945383333	1.925700489	Up	0.025132913	0.999940436
678	ZFP36L2	ZFP36 ring finger protein-like 2	6.89948	8.12174	7.84935	8.70885	8.82265	8.0768	1.88240449	0.912576667	1.88240449	Up	0.047515363	0.999940436
100131541	LOC100131541	Uncharacterized LOC100131541	5.41389	5.57268	5.51827	7.41943	6.19709	5.95873	2.032802423	1.02347	2.032802423	Up	0.035033586	0.999940436
58513	EPS15L1	Epidermal growth factor receptor pathway substrate 15-like 1	4.50993	4.46933	4.3835	5.40169	5.09918	4.75015	1.546942958	0.62942	1.546942958	Up	0.013695069	0.999940436
55859	BEX1	Brain expressed X-linked 1	6.2449	6.28735	6.51006	6.82024	7.9403	7.71126	2.20864773	1.143163333	2.20864773	Up	0.009228066	0.999940436
91612	CHURC1	Churchill domain containing 1	4.53896	4.76417	4.89075	5.8248	4.98868	5.53328	1.644474534	0.717626667	1.644474534	Up	0.022744485	0.999940436

Table SIV. DEGs in comparison IV.

Entry	Gene symbol	Gene name	A109443	A109444	A109446	A109451	A109456	A109457	Fold-change	logFC	absoluteFC	Regulation	P-value	FDR
8794	TNFRSF10C	Tumor necrosis factor receptor superfamily member 10c, decoy without an intracellular domain	4.970008	3.823376	5.287721	5.683334	6.563359	5.33862	2.247259405	1.168166667	2.247259405	Up	0.028850244	0.930859211
7474	WNT5A	Wingless-type MMTV integration site family member 5A	5.785355	5.312267	5.492827	4.795117	5.024756	4.79736	-1.579119115	-0.65912	1.579119115	Down	0.004753832	0.930859211
1756	DMD	Dystrophin	7.952022	9.008847	9.696691	6.79739	8.406629	7.200205	-2.673976278	-1.418986667	2.673976278	Down	0.027790966	0.930859211
10923	SUB1	SUB1 homolog, transcriptional regulator	4.8814	5.273388	5.892225	4.684429	4.442247	4.732258	-1.657945596	-0.729396667	1.657945596	Down	0.021415548	0.930859211
34	APO	Apolipoprotein C-I	10	9.	9.	7.	8.	9.	-2.	-1.1	2.1	D	0.0	0.9

1	C1		.18332	442446	373334	870997	670033	120006	162329929	12586667	62329929	own	13019439	30859211
629	CFB	Complement factor B	7.82766	8.19566	8.20575	6.78039	6.70839	7.48642	-2.120821695	-1.084623333	2.120821695	Down	0.002100791	0.930859211
3122	HLA-DRA	Major histocompatibility complex, class II, DR α	8.33242	8.36488	8.95069	7.22608	8.02513	8.17977	-1.669022419	-0.739003333	1.669022419	Down	0.034178705	0.930859211
23216	TBC1D1	TBC1 domain family member 1	4.30824	4.30629	4.57105	3.92868	3.63028	3.85751	-1.50493725	-0.589703333	1.50493725	Down	0.002943522	0.930859211
100874260	UBE2CP5	Ubiquitin conjugating enzyme E2C pseudogene 5	7.31084	6.82563	7.15159	8.23835	7.69525	7.64576	1.697917859	0.763766667	1.697917859	Up	0.007921761	0.930859211
23436	CELA3B	Chymotrypsin like elastase family member 3B	4.04435	3.43445	3.87753	4.6902	4.41693	4.94855	1.865785755	0.899783333	1.865785755	Up	0.002409776	0.930859211

1385	CREB1	Camp responsive element binding protein 1	4.05529	4.60439	4.32159	3.64635	3.95265	3.59606	-1.510894926	-0.595403333	1.510894926	Down	0.009514356	0.930859211
284194	LGALS9B	Lectin, galactoside-binding, soluble, 9B	6.98307	6.93519	7.16411	5.90819	6.66258	6.73455	-1.507700636	-0.59235	1.507700636	Down	0.038335189	0.930859211
55813	UTP6	UTP6 small subunit processome component	5.24243	5.7946	5.80006	5.20081	4.64622	5.21587	-1.506704676	-0.591396667	1.506704676	Down	0.03299036	0.930859211
3492	IGH	Immunoglobulin heavy locus	8.29124	9.48486	8.88507	7.93204	8.11579	7.70461	-1.958265892	-0.969576667	1.958265892	Down	0.011120099	0.930859211
11211	FZD10	Frizzled class receptor 10	4.17576	3.93328	4.37233	3.11933	4.01621	3.21788	-1.635029501	-0.709316667	1.635029501	Down	0.021248281	0.930859211
171024	SYNPO2	Synaptopodin 2	6.7231	8.00144	7.7908	4.52102	7.15979	5.22342	-3.656263382	-1.87037	3.656262633	Down	0.0221078	0.9308592

											82		47	11
25800	SLC39A6	Solute carrier family 39 (zinc transporter), member 6	5.102	5.661266	6.05538	4.837866	4.727718	5.275188	-1.579505908	-0.659473333	1.579505908	Down	0.03891311	0.930859211
126432	RINL	Ras and Rab interactor like	5.29091	5.02801	4.64249	5.87289	5.33312	5.51242	1.50073925	0.85673333	1.50073925	Up	0.028357909	0.930859211
653635	WASH7P	WAS protein family homolog 7 pseudogene	7.80771	7.50085	7.00972	8.94646	8.50346	8.07444	2.097532745	1.068693333	2.097532745	Up	0.005381406	0.930859211
6840	SVIL	Supervillin	6.57896	7.38745	8.13843	5.8943	6.81288	6.51408	-1.946919635	-0.961193333	1.946919635	Down	0.045369139	0.930859211
116159	CYYR1	Cysteine/tyrosine-rich 1	5.75159	6.26393	6.53935	4.62117	5.44168	5.55978	-1.968932064	-0.977413333	1.968932064	Down	0.012390641	0.930859211
4311	MME	Membrane metallo-endopeptidase	3.8088	3.5677	3.3999	4.8721	4.0209	4.4228	1.7981084	0.84648	1.79810	Up	0.00565	0.93085

			5		1	3		7	04		8404		0912	9211
27145	FILIP1	Filamin A interacting protein 1	4.96158	5.87892	6.6289	3.5379	5.66773	3.67478	-2.88718456	-1.529663333	2.88718456	Down	0.04053795	0.930859211
79974	CPED1	Cadherin-like and PC-esterase domain containing 1	7.03725	8.04358	8.33234	5.49765	7.465	6.27503	-2.624113279	-1.39183	2.624113279	Down	0.02913422	0.930859211
645954	SVILP1	Supervillin pseudogene 1	6.13688	6.72362	7.48935	5.26317	6.09226	6.24846	-1.885987351	-0.91532	1.885987351	Down	0.045343889	0.930859211
29970	SCHIP1	Schwannomin interacting protein 1	4.55756	5.25841	4.92188	4.02641	4.2597	4.39801	-1.607230299	-0.684576667	1.607230299	Down	0.009854085	0.930859211
4493	MT1E	Metallothionein 1E	7.94032	7.51531	7.047	8.43864	7.89771	8.49072	1.710968659	0.748133333	1.710968659	Up	0.01976934	0.930859211
8032	CEP70	Centrosomal protein 70kda	6.87	6.35	6.54	7.63	7.22	6.73	1.5216	0.6056	1.521	Up	0.045	0.930

1			018	876	859	208	961	288	9582	8	69582		07609	859211
401387	LRRD1	Leucine-rich repeats and death domain containing 1	6.826627	6.38186	7.46444	6.20276	5.68494	6.53615	-1.681295526	-0.749573333	1.681295526	Down	0.047632703	0.930859211
729993	SHISA9	Shisa family member 9	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.010803322	0.930859211
8483	CILP	Cartilage intermediate layer protein	4.01867	6.59392	5.14138	6.89516	7.2279	9.20587	5.755681126	2.524986667	5.755681126	Up	0.011484426	0.930859211
4496	MT1H	Metallothionein 1H	9.566628	7.266633	6.223337	10.33029	9.48095	9.95369	4.711925296	2.236316667	4.711925296	Up	0.018260689	0.930859211
372	ARCN1	Archain 1	5.76748	6.03918	6.19086	5.56677	5.1217	5.54886	-1.501838832	-0.58673	1.501838832	Down	0.015265624	0.930859211
63	PRD	PR domain	5.	6.	6.	5.	5.	5.	-1.	-0.	1.7	D	0.0	0.9

9	M1	containing 1, with ZNF domain	88302	186645	57338	0757	55165	54897	76807156	822176667	6807156	own	07024351	30859211
1654	DDX3X	DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked	5.02448	5.07236	5.10318	4.72387	3.95265	4.17264	-1.721444895	-0.78362	1.72144895	Down	0.005156663	0.930859211
54469	ZFAND6	Zinc finger, AN1-type domain 6	7.00638	7.03751	7.34076	6.72698	5.87276	6.75876	-1.597021055	-0.675383333	1.597021055	Down	0.032542783	0.930859211
84230	LRRC8C	Leucine-rich repeat containing 8 family member C	5.98329	6.4611	6.55778	5.55094	6.02147	5.15552	-1.691238354	-0.75808	1.691238354	Down	0.019562322	0.930859211
29116	MYLIP	Myosin regulatory light chain interacting protein	7.50726	8.06077	8.00213	7.41044	6.70042	7.50989	-1.568954303	-0.649803333	1.568954303	Down	0.037122166	0.930859211
6335	SCN9A	Sodium channel, voltage gated, type IX α subunit	5.18415	4.56082	4.52957	5.83918	5.28117	5.92911	1.898649147	0.924973333	1.898649147	Up	0.006054837	0.930859211

3791	KDR	Kinase insert domain receptor	7.153733	6.96771	7.49391	5.83735	6.82885	6.75879	-1.658777059	-0.73012	1.658777059	Down	0.036319714	0.930859211
2321	FLT1	Fms-related tyrosine kinase 1	5.236044	5.2136	6.02825	3.96068	4.10089	4.94421	-2.230504409	-1.15737	2.230504409	Down	0.007180504	0.930859211
11331	PHB2	Prohibitin 2	8.336944	8.67429	9.04056	8.04728	7.70994	8.45083	-1.531112192	-0.61458	1.531112192	Down	0.038702064	0.930859211
7412	VCAM1	Vascular cell adhesion molecule 1	5.576955	5.23895	5.75012	3.82173	4.24458	4.58001	-2.473521889	-1.306566667	2.473521889	Down	0.000489699	0.930859211
4973	OLR1	Oxidized low density lipoprotein (lectin-like) receptor 1	6.039888	7.08649	6.28816	5.23601	5.47945	6.19111	-1.785077445	-0.835986667	1.785077445	Down	0.038692444	0.930859211
57602	USP36	Ubiquitin specific peptidase 36	5.8886	5.67315	4.90711	6.75766	6.47878	5.74428	1.786686688	0.837286667	1.7866866	Up	0.0377618	0.9308592

											88		8	11
9857	CEP350	Centrosomal protein 350kda	5.81629	4.92181	4.41786	5.51944	6.80475	5.85952	2.01286442	1.00925	2.012864442	Up	0.046864181	0.930859211
57169	ZNFX1	Zinc finger, NFX1-type containing 1	7.1713	6.93484	6.29877	7.40039	7.73385	7.11348	1.530783229	0.61427	1.530783229	Up	0.049224579	0.930859211
100507412	LOC100507412	Uncharacterized LOC100507412	10.43204	8.84047	8.21698	10.46388	10.63279	10.10649	2.358533348	1.23789	2.358533348	Up	0.040948557	0.930859211
90293	KLHL13	Kelch like family member 13	7.07828	7.30788	7.4409	5.66146	6.80355	6.30503	-2.026523165	-1.019006667	2.026523165	Down	0.007592329	0.930859211
55755	CDK5RAP2	CDK5 regulatory subunit associated protein 2	7.33027	6.09621	6.93229	7.81453	8.18785	7.40974	2.024805503	1.017783333	2.024805503	Up	0.017123916	0.930859211
10979	FERMT2	Fermitin family member 2	4.1109	4.7087	5.4245	3.9343	4.1008	3.9390	-1.689543	-0.756633	1.68954	Dow	0.03627	0.93085

				3	5	4	9	5	31	333	331	n	6501	9211
60488	MRPS35	Mitochondrial ribosomal protein S35	7.38455	7.33059	7.81242	7.05977	6.56425	7.02136	-1.544771372	-0.627393333	1.544771372	Down	0.016488555	0.930859211
255812	SDHAP1	Succinate dehydrogenase complex subunit A, flavoprotein pseudogene 1	9.64268	9.91694	10.05334	9.48216	9.02827	9.14545	-1.571737185	-0.65236	1.571737185	Down	0.006239411	0.930859211
84914	ZNF587	Zinc finger protein 587	7.31084	6.82563	7.15159	8.23835	7.69525	7.64576	1.697917859	0.763766667	1.697917859	Up	0.007921761	0.930859211
6546	SLC8A1	Solute carrier family 8 (sodium/calcium exchanger), member 1	6.55353	7.56979	7.69823	4.17879	7.21041	5.34506	-3.239482431	-1.695763333	3.239482431	Down	0.004405991	0.930859211
348	APOE	Apolipoprotein E	9.71515	9.79486	9.85658	8.08911	8.98351	9.08595	-2.098473144	-1.06934	2.098473144	Down	0.003675386	0.930859211
7898	COLEC11	Collectin subfamily member 11	8.73	8.84	9.37	6.99	8.73	7.08	-2.604	-1.381	2.604	Do	0.016	0.930

9			809	687	414	677	844	051	71706	126667	71706	wn	6399	859211
7432	VIP	Vasoactive intestinal peptide	6.43487	7.14496	5.42684	4.39455	5.38109	4.29337	-3.129401282	-1.645886667	3.129401282	Down	0.007643114	0.930859211
257019	FRMD3	FERM domain containing 3	4.605529	4.8808	5.0851	4.29282	4.2626	4.07438	-1.566049702	-0.64713	1.566049702	Down	0.003826846	0.930859211
2348	FOLR1	Folate receptor 1 (adult)	4.73404	4.83475	4.56697	5.79507	5.43328	5.0105	1.625665008	0.7010103	1.625665008	Up	0.011357503	0.930859211
6357	CCL13	Chemokine (C-C motif) ligand 13	3.92644	3.92858	3.74062	4.19727	4.63387	4.58221	1.521931402	0.605903333	1.521931402	Up	0.004293055	0.930859211
6525	SMTN	Smoothelin	6.4153	6.71891	7.72326	5.57876	6.44387	5.74909	-2.040020053	-1.028583333	2.040020053	Down	0.024689522	0.930859211
79	ZDH	Zinc finger,	6.	7.	6.	8.	7.	7.	2.0	1.0	2.0	U	0.0	0.9

844	HC11	DHHC-type containing 11	91363	05023	6832	66034	61546	44651	35076931	25083333	35076931	p	12071884	30859211
9883	POM121	POM121 transmembrane nucleoporin	6.93239	6.35221	6.04649	6.85113	7.32103	7.06535	1.553447336	0.635473333	1.553447336	Up	0.035445256	0.930859211
5315	PKM	Pyruvate kinase, muscle	8.68501	8.2172	9.26389	8.13637	7.34863	7.81707	-1.938145213	-0.954676667	1.938145213	Down	0.014088126	0.930859211
54762	GRAMD1C	GRAM domain containing 1C	4.07714	4.33337	4.28725	3.59086	3.11631	3.94895	-1.602746954	-0.680546667	1.602746954	Down	0.012285025	0.930859211
4677	NARS	Asparaginyl-trna synthetase	6.2457	6.52982	7.14171	5.88778	5.03436	5.67989	-2.15108818	-1.105066667	2.15108818	Down	0.006410016	0.930859211
4852	NPY	Neuropeptide Y	6.84776	6.56341	7.13457	5.45483	6.06343	5.53168	-2.242746665	-1.165266667	2.242746665	Down	0.000976205	0.930859211

7771	CA12	Carbonic anhydrase XII	7.56625	6.47462	6.29001	7.46371	7.97115	7.58656	1.861991732	0.96846667	1.861991732	Up	0.029215129	0.930859211
90427	BMF	Bcl2 modifying factor	6.96499	7.93226	7.13024	6.12566	6.99021	6.59202	-1.709056391	-0.7732	1.709056391	Down	0.038920225	0.930859211
3977	LIFR	Leukemia inhibitory factor receptor α	6.09063	6.29964	5.55717	5.36698	4.75164	5.01132	-1.917420373	-0.939166667	1.917420373	Down	0.005069653	0.930859211
220965	FAM13C	Family with sequence similarity 13 member C	5.2494	6.35053	6.53235	4.17587	4.37478	5.40124	-2.627085826	-1.393463333	2.627085826	Down	0.01121524	0.930859211
51719	CAB39	Calcium binding protein 39	3.91623	4.02848	4.76254	3.88712	2.79258	3.66672	-1.725414916	-0.786943333	1.725414916	Down	0.042919225	0.930859211
406	ARNTL	Aryl hydrocarbon receptor nuclear translocator like	6.83686	7.01194	6.59325	5.3651	6.33485	4.77137	-2.50285839	-1.323576667	2.5028583	Down	0.0073775	0.9308592

											9		48	11
51050	PI15	Peptidase inhibitor 15	3.874933	4.087233	5.610233	3.19852	3.862	3.46192	-2.023215507	-1.01665	2.023215507	Down	0.047988988	0.930859211
2316	FLNA	Filamin A, α	8.129222	8.994419	9.445799	5.785667	8.628033	6.5583	-3.644531408	-1.865733333	3.644531408	Down	0.027687015	0.930859211
79799	UGT2A3	UDP glucuronosyltransferase 2 family, polypeptide A3	7.586629	8.236388	8.862888	7.468825	5.630222	6.7059	-3.08882899	-1.62706	3.08882899	Down	0.010943213	0.930859211
60481	ELOVL5	ELOVL fatty acid elongase 5	5.598433	5.705833	6.381007	5.091277	4.6677	5.069667	-1.934861098	-0.95223	1.934861098	Down	0.00446503	0.930859211
85480	TSLP	Thymic stromal lymphopoietin	4.085221	4.738099	5.441556	3.007288	3.917122	3.192988	-2.60718568	-1.382493333	2.60718568	Down	0.00563318	0.930859211
440366	HERC2P8	Hect domain and RLD 2 pseudogene 8	7.1393	6.7495	6.5614	7.4161	7.6066	7.3209	1.5487847	0.6311366	1.54878	Up	0.01080	0.93085

			3	8	1	8	2	3	65	67	4765		322	9211
6596	HLTF	Helicase-like transcription factor	4.20271	4.54704	5.00229	3.96821	3.43424	4.35792	-1.584348817	-0.66389	1.584348817	Down	0.045165943	0.930859211
22984	PDCD11	Programmed cell death 11	5.79153	5.47567	5.49868	6.13764	6.51443	5.92762	1.52056062	0.604603333	1.52056062	Up	0.01512238	0.930859211
2355	FOSL2	FOS-like antigen 2	7.33323	7.99823	7.76342	7.19763	6.72295	7.24437	-1.561908565	-0.64331	1.561908565	Down	0.022423332	0.930859211
8490	RGS5	Regulator of G-protein signaling 5	6.83509	6.84044	7.73871	4.84386	5.67493	6.02431	-3.081672038	-1.623713333	3.081672038	Down	0.002194433	0.930859211
100289574	HERC2P4	Hect domain and RLD 2 pseudogene 4	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.01080322	0.930859211
2579	QPCT	Glutaminyl-peptide cyclotransferase	4.26	4.49	4.74	3.60	3.75	3.85	-1.702	-0.767	1.702	Do	0.001	0.930

7			571	764	675	173	26	241	655623	786667	655623	wn	210237	859211
7150	TOP1	Topoisomerase (DNA) I	9.71986	9.57035	8.83661	10.20024	10.01309	9.80001	1.546321173	0.62884	1.546321173	Up	0.033471996	0.930859211
55784	MCTP2	Multiple C2 domains, transmembrane 2	7.174244	6.89998	7.00005	7.97569	7.534066	7.65329	1.620295185	0.696256667	1.620295185	Up	0.003802447	0.930859211
8835	SOCS2	Suppressor of cytokine signaling 2	5.475	6.081113	6.66067	4.41945	5.193309	5.5961	-2.003774277	-1.00272	2.003774277	Down	0.029287602	0.930859211
2202	EFEMP1	EGF containing fibulin-like extracellular matrix protein 1	4.33991	6.55958	5.98509	6.45195	7.78918	8.59297	3.953617587	1.983173333	3.953617587	Up	0.019679555	0.930859211
25802	LMOD1	Leiomodin 1 (smooth muscle)	4.82349	5.20921	5.60579	4.27375	4.99381	4.48647	-1.545585359	-0.628153333	1.545585359	Down	0.040063165	0.930859211
12	KLH	Kelch domain	6.	6.	6.	5.	5.	6.	-1.	-0.	1.5	D	0.0	0.9

6823	DC9	containing 9	34782	42538	33913	69504	40488	05198	572954203	653476667	72954203	own	0919828	30859211
7010	TEK	TEK tyrosine kinase, endothelial	5.72294	6.35163	6.93919	4.92074	5.61519	5.66638	-1.914741986	-0.93715	1.914741986	Down	0.024242863	0.930859211
6383	SDC2	Syndecan 2	5.01671	5.98599	6.14636	4.2371	4.70773	5.06913	-2.063414033	-1.045033333	2.063414033	Down	0.014718739	0.930859211
145270	PRIMA1	Proline rich membrane anchor 1	5.39863	5.81392	5.76636	4.68819	4.83739	5.56016	-1.548698885	-0.631056667	1.548698885	Down	0.037041625	0.930859211
23429	RYBP	RING1 and YY1 binding protein	8.04929	8.76501	8.32033	8.00322	7.3581	7.98493	-1.511652644	-0.596126667	1.511652644	Down	0.044895557	0.930859211
10426	TUBGCP3	Tubulin, γ complex associated protein 3	3.79974	4.20073	4.45724	3.84953	3.41869	3.41286	-1.507554335	-0.59221	1.507554335	Down	0.018899054	0.930859211

901	CCNG2	Cyclin G2	5.36018	5.62057	5.57789	4.68819	4.48633	5.26278	-1.632534334	-0.707113333	1.632534334	Down	0.012102554	0.930859211
10841	FTCD	Formimidoyltransferase cyclodeaminase	6.0431	4.9939	5.3732	5.90566	6.12327	6.35134	1.576461569	0.65669	1.576461569	Up	0.044407486	0.930859211
60	ACTB	Actin, β	11.21343	11.66984	11.94289	11.35916	10.65228	10.9317	-1.545071212	-0.627673333	1.545071212	Down	0.030545359	0.930859211
182	JAG1	Jagged 1	4.65961	5.0546	5.51035	4.39057	3.95265	4.76604	-1.630257662	-0.70511	1.630257662	Down	0.033246857	0.930859211
728411	GUSBP1	Glucuronidase, β pseudogene 1	6.5403	6.28582	6.15841	6.77278	7.3511	6.74818	1.546682064	0.629176667	1.546682064	Up	0.018016071	0.930859211
3176	HNMT	Histamine N-methyltransferase	8.23054	8.03937	7.56627	8.88054	8.47133	8.37477	1.547729481	0.630153333	1.5477294	Up	0.0219281	0.9308592

											81		44	11
4897	NRCAM	Neuronal cell adhesion molecule	8.5636	8.46671	9.00145	9.621	9.09929	9.13847	1.525201653	0.609	1.525201653	Up	0.019829136	0.930859211
10398	MYL9	Myosin light chain 9	9.63381	10.0435	10.89597	7.26358	9.93554	7.97726	-3.479709012	-1.798966667	3.479709012	Down	0.025419033	0.930859211
4154	MBNL1	Muscleblind like splicing regulator 1	4.23799	4.69706	5.24882	4.04102	3.20407	3.92635	-2.005752136	-1.004143333	2.005752136	Down	0.011447038	0.930859211
441282	AKR1B15	Aldo-keto reductase family 1, member B15	11.60677	11.28922	11.82975	10.56948	10.89864	11.19427	-1.61080665	-0.687783333	1.610806665	Down	0.009676343	0.930859211
54894	RNF43	Ring finger protein 43	4.07021	3.68629	4.20305	4.79496	4.42584	4.49392	1.500097909	0.585056667	1.500097909	Up	0.010930656	0.930859211
2199	FBLN2	Fibulin 2	5.4724	7.2425	6.1901	7.0154	7.6013	8.3668	2.5660097	1.3595266	2.56600	Up	0.02439	0.93085

			2	2	7	6	8	5	76	67	9776		7318	9211
150472	CBWD2	COBW domain containing 2	4.45212	3.86237	4.15271	3.71574	3.32172	3.19774	-1.674812975	-0.744	1.674812975	Down	0.005346182	0.930859211
4494	MT1F	Metallothionein 1F	11.02706	9.27088	8.70542	11.54488	11.15157	11.40958	3.251014521	1.70089	3.251014521	Up	0.012642233	0.930859211
3306	HSPA2	Heat shock protein family A (Hsp70) member 2	5.0811	6.11404	5.88506	4.94917	4.49323	4.73258	-1.956678417	-0.968406667	1.956678417	Down	0.008475391	0.930859211
6403	SELP	Selectin P	6.38625	6.99919	7.19572	5.5435	5.97746	6.55458	-1.784112595	-0.835206667	1.784112595	Down	0.026855232	0.930859211
10418	SPON1	Spondin 1, extracellular matrix protein	6.32219	6.90541	7.802	3.95372	6.89194	4.88777	-3.399658893	-1.76539	3.399658893	Down	0.039867179	0.930859211
1056	OLFM4	Olfactomedin 4	3.99	3.00	5.20	6.67	5.16	5.53	3.3045	1.7244	3.304	Up	0.018	0.930

2			016	604	536	413	973	11	79415	66667	579415		570013	859211
2273	FHL1	Four and a half LIM domains 1	6.159911	7.261172	7.601137	4.539932	6.276624	6.094419	-2.5861692	-1.370816667	2.5861692	Down	0.032517323	0.930859211
161198	CLEC14A	C-type lectin domain family 14, member A	5.905596	6.175503	6.248885	5.214446	5.139122	5.688022	-1.696717838	-0.762746667	1.696717838	Down	0.004771372	0.930859211
283970	PDXDC2P	Pyridoxal-dependent decarboxylase domain containing 2, pseudogene	5.1531	5.579975	6.3336	4.895517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
124222	PAQR4	Progestin and adipoq receptor family member IV	7.264249	7.2302	7.515482	8.990007	7.734409	8.1328	1.930824003	0.949216667	1.930824003	Up	0.014961329	0.930859211
5655	KLK10	Kallikrein related peptidase 10	8.71146	8.579994	8.919968	7.726868	8.083356	8.38701	-1.592407973	-0.67121	1.592407973	Down	0.010188919	0.930859211
25	FUT	Fucosyltransferase	4.	5.	5.	4.	4.	4.	-1.	-0.	1.5	D	0.0	0.9

30	8	8 (α (1,6) fucosyltransferase)	84753	23615	51102	69093	41536	61099	543073376	625806667	43073376	own	12261719	30859211
100527978	TMEM56-RWDD3	TMEM56-RWDD3 readthrough	5.89431	5.86801	6.65245	5.37699	5.04311	5.84505	-1.643236349	-0.71654	1.643236349	Down	0.036143553	0.930859211
85477	SCIN	Scinderin	5.46974	6.05811	5.95791	6.97312	6.1837	6.5315	1.663459414	0.734186667	1.663459414	Up	0.019280999	0.930859211
23193	GANAB	Glucosidase, α; neutral AB	7.53749	7.28856	6.91903	6.86	6.45205	6.61989	-1.520325251	-0.60438	1.520325251	Down	0.018517825	0.930859211
10231	RCAN2	Regulator of calcineurin 2	6.2656	7.5897	7.70955	4.24573	6.03144	6.36392	-3.119367075	-1.641253333	3.119367075	Down	0.026336771	0.930859211
388	RHOB	Ras homolog family member B	6.05484	7.98135	6.76435	6.0789	5.63725	5.94725	-2.064386832	-1.045713333	2.064386832	Down	0.045713293	0.930859211

101059938	NPIPA7	Nuclear pore complex interacting protein family member A7	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
9075	CLDN2	Claudin 2	9.50763	7.6025	9.19751	10.22957	9.99578	9.58289	2.245235331	1.166866667	2.245235331	Up	0.037461152	0.930859211
8667	EIF3H	Eukaryotic translation initiation factor 3 subunit H	8.60249	9.04297	9.38656	8.5382	7.68709	8.65269	-1.644915334	-0.718013333	1.644915334	Down	0.045414479	0.930859211
3113	HLA-DPA1	Major histocompatibility complex, class II, DP α 1	9.45463	9.7172	10.40745	8.802	9.36735	9.44863	-1.573270418	-0.653766667	1.573270418	Down	0.048028631	0.930859211
388561	ZNF761	Zinc finger protein 761	6.91897	7.91121	7.83077	9.35014	8.26379	9.61666	2.874305349	1.523213333	2.874305349	Up	0.005505548	0.930859211
23600	AMACR	A-methylacyl-coa racemase	6.29647	6.20385	6.52276	5.76156	5.1254	5.71424	-1.749925294	-0.807293333	1.7499252	Down	0.0051756	0.9308592

											94		18	11
5412	UBL3	Ubiquitin like 3	6.557774	6.617111	7.00531	6.18087	5.1283	6.37456	-1.780328335	-0.832143333	1.780328335	Down	0.035279373	0.930859211
6652	SORD	Sorbitol dehydrogenase	8.312776	8.325665	8.341511	7.024455	7.520661	7.242203	-2.091121178	-1.064276667	2.091121178	Down	0.000227789	0.930859211
2861	GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like)	5.615596	6.1329	5.477765	5.090755	4.81414	5.48442	-1.528800335	-0.6124	1.528800335	Down	0.034096193	0.930859211
27341	RRP7A	Ribosomal RNA processing 7 homolog A	4.408788	4.158183	4.126624	4.779983	4.707758	5.000388	1.51384063	0.598213333	1.51384063	Up	0.003478635	0.930859211
4092	SMAD7	SMAD family member 7	4.962776	5.749941	5.9182	4.018772	4.9178	4.770667	-1.9648148	-0.974393333	1.9648148	Down	0.016280112	0.930859211
9472	AKAP6	A-kinase anchoring protein 6	5.5344	5.7225	6.2710	4.6925	4.8080	4.6846	-2.164889	-1.1142933	2.16488	Dow	0.00071	0.93085

			6	6	2		3	3	416	33	9416	n	5868	9211
1809	DPYSL3	Dihydropyrimidinase like 3	3.94271	5.0579	5.47418	2.98759	4.18967	3.16103	-2.600579845	-1.378833333	2.600579845	Down	0.014976768	0.930859211
1595	CYP51A1	Cytochrome P450, family 51, subfamily A, polypeptide 1	6.82627	6.38186	7.46444	6.20276	5.68494	6.53615	-1.681295526	-0.749573333	1.681295526	Down	0.047632703	0.930859211
7458	EIF4H	Eukaryotic translation initiation factor 4H	6.68404	7.31472	7.31691	6.76285	5.5543	6.20093	-1.908620138	-0.93253	1.908620138	Down	0.02135253	0.930859211
285343	TCAIM	T cell activation inhibitor, mitochondrial	8.13013	7.64203	7.99111	8.6807	8.6271	9.02888	1.812276812	0.857803333	1.812276812	Up	0.001931011	0.930859211
51747	LUC7L3	LUC7-like 3 pre-mrna splicing factor	7.87939	8.19702	7.35633	8.67962	9.10873	8.20291	1.806052712	0.85284	1.806052712	Up	0.018991122	0.930859211
1967	PAOX	Polyamine oxidase (exo-N4-amino)	7.24	6.79	6.63	7.73	7.79	7.22	1.6169	0.6932	1.616	Up	0.016	0.930

43			969	566	041	237	83	493	55528	8	955528		783677	859211
9532	BAG2	BCL2 associated athanogene 2	4.05303	4.07714	5.16441	2.99713	3.65673	3.83609	-1.911727198	-0.934876667	1.911727198	Down	0.025866161	0.930859211
2729	GCLC	Glutamate-cysteine ligase, catalytic subunit	6.11088	6.29771	6.51143	5.46148	5.82102	5.85135	-1.510880963	-0.59539	1.510880963	Down	0.011203131	0.930859211
498	ATP5A1	ATP synthase, H+ transporting, mitochondrial F1 complex, α subunit 1, cardiac muscle	9.54746	9.85716	10.39194	9.32102	8.61425	9.21592	-1.842660134	-0.88179	1.842660134	Down	0.011317335	0.930859211
27295	PDLIM3	PDZ and LIM domain 3	5.72428	6.44266	7.40171	3.19979	5.98757	4.17367	-4.196558426	-2.069206667	4.196558426	Down	0.019327409	0.930859211
87	ACTN1	Actinin, α 1	6.94635	7.30882	7.89574	6.44603	6.76416	6.54009	-1.741354581	-0.80021	1.741354581	Down	0.012974587	0.930859211
11	KCT	Potassium channel	7.	7.	8.	6.	6.	7.	-1.	-0.	1.7	D	0.0	0.9

5207	D12	tetramerization domain containing 12	12242	9199	03416	31744	90423	43997	747081205	804946667	47081205	own	46361673	30859211
9639	ARHGEF10	Rho guanine nucleotide exchange factor 10	6.24662	6.6201	6.49981	7.77798	6.87031	6.88556	1.649970236	0.72244	1.649970236	Up	0.0274278	0.930859211
102724993	LOC102724993	NPIP-like protein 1	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
22941	SHANK2	SH3 and multiple ankyrin repeat domains 2	6.07467	5.55295	5.98115	6.61696	6.5895	6.18883	1.511003148	0.595506667	1.511003148	Up	0.019204418	0.930859211
60592	SCOC	Short coiled-coil protein	4.96607	5.30818	6.02533	4.94612	3.88684	4.92312	-1.799795927	-0.847833333	1.799795927	Down	0.047824915	0.930859211
84260	TCHP	Trichoplein, keratin filament binding	5.57626	6.0877	5.21468	6.38939	6.92201	6.07844	1.786414253	0.837066667	1.786414253	Up	0.020457232	0.930859211

8726	EED	Embryonic ectoderm development	5.06626	5.22257	6.00327	5.09559	4.28005	4.82691	-1.620587218	-0.696516667	1.620587218	Down	0.049285771	0.930859211
2538	G6PC	Glucose-6-phosphatase, catalytic subunit	7.35586	7.23073	6.07431	5.44407	6.13128	5.60026	-2.237307153	-1.161763333	2.237307153	Down	0.012359324	0.930859211
7148	TNXB	Tenascin XB	6.00124	7.84302	6.71673	7.33293	8.09134	8.46336	2.15678146	1.10888	2.15678146	Up	0.049278826	0.930859211
57124	CD248	CD248 molecule, endosialin	7.00102	7.73357	7.80947	7.68364	8.55776	8.50399	1.662986742	0.733776667	1.662986742	Up	0.043895546	0.930859211
22873	DZIP1	DAZ interacting zinc finger protein 1	4.5828	5.33204	5.75948	3.70237	4.87182	4.17953	-1.96364391	-0.973533333	1.96364391	Down	0.030956463	0.930859211
477	ATP1A2	Atpase, Na+/K+ transporting, α 2 polypeptide	6.1017	7.00168	7.008	4.58717	6.28579	5.29877	-2.48494973	-1.313216667	2.4849497	Down	0.0181194	0.9308592

											3		41	11
5144	PDE4D	Phosphodiesterase 4D	4.37898	4.64667	5.22046	3.2197	4.22995	4.13625	-1.848989032	-0.886736667	1.848989032	Down	0.023345717	0.930859211
405753	DUOXA2	Dual oxidase maturation factor 2	9.55963	10.10792	9.87308	7.41391	9.46133	9.05497	-2.302934428	-1.203473333	2.302934428	Down	0.038631143	0.930859211
5723	PSPH	Phosphoserine phosphatase	7.83034	8.49353	8.72147	7.7528	7.13339	4.30906	-3.863825661	-1.95003	3.863825661	Down	0.042687182	0.930859211
953	ENTPD1	Ectonucleoside triphosphate diphosphohydrolase 1	5.41057	5.74526	6.16407	4.03705	5.66298	4.8104	-1.913866235	-0.93649	1.913866235	Down	0.046758887	0.930859211
51088	KLHL5	Kelch like family member 5	4.25073	4.7155	5.00998	3.74799	4.02626	4.29308	-1.554330537	-0.636293333	1.554330537	Down	0.022924557	0.930859211
339044	PKD1P1	Polycystic kidney disease 1 (autosomal	5.1531	5.5797	6.3336	4.8951	4.3209	5.2072	-1.841706	-0.881043	1.84170	Dow	0.03197	0.93085

		dominant) pseudogene 1		5		7		5	712	333	6712	n	3618	9211
7803	PTP4A1	Protein tyrosine phosphatase type IVA, member 1	6.71706	7.72555	7.84374	7.00758	5.73127	6.38395	-2.077022244	-1.054516667	2.07702244	Down	0.029346466	0.930859211
1235	CCR6	Chemokine (C-C motif) receptor 6	5.01423	4.62706	4.77043	5.03469	5.39575	5.85806	1.542845217	0.625593333	1.542845217	Up	0.025686653	0.930859211
10230	NBR2	Neighbor of BRCA1 gene 2 (non-protein coding)	6.4926	6.11404	5.84735	6.4572	6.86537	7.17673	1.604106579	0.68177	1.604106579	Up	0.023404417	0.930859211
7448	VTN	Vitronectin	13.05095	12.97801	12.83856	11.91043	12.3769	12.68673	-1.548802658	-0.631153333	1.548802658	Down	0.011852504	0.930859211
10016	PDCD6	Programmed cell death 6	5.89719	5.77288	5.26476	6.30849	5.89918	6.68593	1.572351025	0.652923333	1.572351025	Up	0.033405389	0.930859211
9077	DIRAS3	DIRAS family, GTP-binding	5.17	6.33	6.74	4.02	5.72	4.24	-2.677	-1.420	2.677	Do	0.029	0.930

		RAS-like 3	267	417	561	892	071	007	555848	916667	555848	wn	143013	859211
28896	IGKV1D-33	Immunoglobulin κ variable 1D-33	4.842292	5.686691	5.560016	4.430462	4.015588	4.395532	-2.118030454	-1.082723333	2.118030454	Down	0.00239966	0.930859211
5096	PCCB	Propionyl-coa carboxylase β subunit	7.874445	7.316666	7.931181	6.977666	6.854001	7.379501	-1.555357978	-0.637246667	1.555357978	Down	0.022313368	0.930859211
50618	ITSN2	Intersectin 2	8.2408086	7.944475	7.282245	8.879885	8.9669	8.021889	1.741334464	0.800193333	1.741334464	Up	0.040265759	0.930859211
5212	VIT	Vitrin	3.3608082	3.9637377	3.3001	3.7725257	5.0841417	5.7578783	2.513957046	1.3299 6	2.513957046	Up	0.021556095	0.930859211
4082	MARCKS	Myristoylated alanine-rich protein kinase C substrate	7.0727277	7.7080803	7.4662	6.4359594	6.8756	7.0280802	-1.553813481	-0.635813333	1.553813481	Down	0.023930034	0.930859211
64	AID	Axin interactor,	5.	5.	6.	5.	4.	5.	-1.	-0.	1.7	D	0.0	0.9

853	A	dorsalization associated	68933	98981	24048	36558	76461	28408	7840013	835116667	840013	own	0563022	30859211
3312	HSPA8	Heat shock protein family A (Hsp70) member 8	10.60797	11.55862	11.80896	10.1332	9.22478	10.57249	-2.546225158	-1.34836	2.546225158	Down	0.011188508	0.930859211
3667	IRS1	Insulin receptor substrate 1	6.284333	6.453777	6.805244	5.7139	5.772466	6.228755	-1.525635162	-0.60941	1.525635162	Down	0.019985073	0.930859211
3399	ID3	Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	6.783359	7.756667	7.124489	5.572231	5.485855	5.155549	-3.523884568	-1.817166667	3.523884568	Down	0.000147884	0.930859211
23704	KCNE4	Potassium channel, voltage gated subfamily E regulatory β subunit 4	5.110944	6.755561	6.710106	3.950005	5.708851	4.111183	-3.036494312	-1.602406667	3.036494312	Down	0.025498383	0.930859211
10397	NDRG1	N-myc downstream regulated 1	5.7925	6.310041	6.257777	5.873333	4.473309	5.143345	-1.941183721	-0.956936667	1.941183721	Down	0.024146474	0.930859211

59338	PLEKHA1	Pleckstrin homology domain containing A1	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.01080322	0.930859211
722	C4BPA	Complement component 4 binding protein, α	3.629935	3.667099	3.381134	3.7521	4.889983	4.352239	1.707848498	0.77218	1.707848498	Up	0.020935123	0.930859211
79822	ARHGAP28	Rho gtpase activating protein 28	5.332099	5.616678	6.1934	4.207775	5.4397	4.806668	-1.860959511	-0.896046667	1.860959511	Down	0.031101253	0.930859211
4826	NNAT	Neuronatin	7.445822	8.414445	8.205233	6.717776	7.600288	6.989977	-1.891105697	-0.91923	1.891105697	Down	0.01956028	0.930859211
23107	MRPS27	Mitochondrial ribosomal protein S27	4.896636	5.325111	5.692111	4.886648	4.372223	4.876667	-1.508101295	-0.592733333	1.508101295	Down	0.039630775	0.930859211
11328	FKBP9	FK506 binding protein 9	3.932877	3.735655	4.072008	3.290177	3.057277	3.619422	-1.506548029	-0.591246667	1.50654580	Down	0.0080675	0.9308592

											29		11	11
22932	POMZP3	POM121 and ZP3 fusion	6.93239	6.35221	6.04649	6.85113	7.32103	7.06535	1.553447336	0.635473333	1.553447336	Up	0.035445256	0.930859211
488	ATP2A2	Atpase, Ca++ transporting, cardiac muscle, slow twitch 2	5.53209	5.36494	5.73178	5.12314	4.58964	5.14773	-1.504655628	-0.589433333	1.504655628	Down	0.017898693	0.930859211
5253	PHF2	PHD finger protein 2	6.49051	6.09482	5.55577	6.64571	7.14311	6.36459	1.591922387	0.7077	1.591922387	Up	0.049579831	0.930859211
1938	EEF2	Eukaryotic translation elongation factor 2	8.80618	9.20569	8.597	8.22865	8.08946	8.48333	-1.518320824	-0.602476667	1.518320824	Down	0.016157497	0.930859211
3489	IGFBP6	Insulin like growth factor binding protein 6	5.14872	7.88316	6.3073	7.6634	7.76957	9.16094	3.367263606	1.751576667	3.367263606	Up	0.035074166	0.930859211
9510	ADAMTS1	ADAM metallopeptidase with	4.8275	6.0065	5.7103	4.6679	4.9742	4.5349	-1.727996	-0.7891	1.72799	Dow	0.03108	0.93085

		thrombospondin type 1 motif 1	6	5	7	7	8	3	146		6146	n	2613	9211
30835	CD209	CD209 molecule	4.59577	5.3562	4.78548	4.82281	7.34205	6.71284	2.602834052	1.380083333	2.602834052	Up	0.048163532	0.930859211
5791	PTPRE	Protein tyrosine phosphatase, receptor type, E	5.58441	5.40498	4.90077	6.04619	6.29145	5.91231	1.725000364	0.786596667	1.725000364	Up	0.006432342	0.930859211
347733	TUBB2B	Tubulin, β 2B class iib	7.43718	7.63007	8.36606	6.2872	7.48287	6.36953	-2.140433974	-1.097903333	2.140433974	Down	0.018872942	0.930859211
100528007	BORCS7-ASMT	BORCS7-ASMT readthrough (NMD candidate)	7.5926	7.6267	7.60361	7.88341	7.94925	8.79471	1.517279285	0.601486667	1.517279285	Up	0.042186567	0.930859211
55871	CBWD1	COBW domain containing 1	4.45212	3.86237	4.15271	3.71574	3.32172	3.19774	-1.674812975	-0.744	1.674812975	Down	0.005346182	0.930859211
5712	PLXDC1	Plexin domain containing 1	5.00	5.23	5.45	4.17	5.13	4.55	-1.525	-0.609	1.525	Do	0.043	0.930

5			829	615	177	677	624	419	910135	67	910135	wn	345606	859211
6500	SKP1	S-phase kinase-associated protein 1	9.73737	9.68451	9.90289	9.0912	8.7365	9.5014	-1.585813743	-0.665223333	1.585813743	Down	0.011996031	0.930859211
27233	SULT1C4	Sulfotransferase family 1C member 4	5.70971	5.61688	5.79959	4.95938	4.72822	5.15791	-1.693752802	-0.760223333	1.693752802	Down	0.00152897	0.930859211
284076	TTLL6	Tubulin tyrosine ligase like 6	6.02833	5.89985	6.00296	6.4583	6.50306	7.08294	1.629451788	0.704386667	1.629451788	Up	0.007961909	0.930859211
1845	DUSP3	Dual specificity phosphatase 3	5.96761	5.94553	6.28413	5.58075	5.32265	5.50809	-1.510744825	-0.59526	1.510744825	Down	0.00655317	0.930859211
10963	STIP1	Stress induced phosphoprotein 1	5.65051	5.68909	6.20934	5.21373	4.26916	5.37728	-1.861230413	-0.896256667	1.861230413	Down	0.020874907	0.930859211
64	SH3	SH3 domain	7.	7.	8.	7.	6.	7.	-1.	-0.	1.6	D	0.0	0.9

51	BGRL	binding glutamate-rich protein like	45174	92001	17904	21061	53161	56858	677907673	746663333	77907673	own	37819534	30859211
3577	CXCR1	Chemokine (C-X-C motif) receptor 1	4.00603	4.09439	3.87716	4.53752	5.00104	4.61081	1.651675188	0.72393	1.651675188	Up	0.001941588	0.930859211
84624	FNDC1	Fibronectin type III domain containing 1	5.85263	5.23708	6.11941	4.62444	5.27849	4.82839	-1.772681481	-0.825933333	1.772681481	Down	0.015509922	0.930859211
8724	SNX3	Sorting nexin 3	7.83893	8.24879	8.61742	7.47534	7.06162	7.85888	-1.704994005	-0.769766667	1.704994005	Down	0.020726866	0.930859211
9665	KIAA0430	KIAA0430	4.61425	5.04585	5.19464	4.33505	3.88162	4.36167	-1.692082604	-0.7588	1.692082604	Down	0.006229893	0.930859211
9421	HAND1	Heart and neural crest derivatives expressed 1	5.15438	5.47919	5.46672	4.51146	5.022	4.72747	-1.529563498	-0.61312	1.529563498	Down	0.009602999	0.930859211

9276	COPB2	Coatomer protein complex subunit β 2 (β prime)	5.87789	6.14415	6.36237	5.47505	5.12324	5.56451	-1.670797241	-0.740536667	1.670797241	Down	0.0050788836	0.930859211
7146	TNXA	Tenascin XA (pseudogene)	6.00124	7.84302	6.71673	7.33293	8.09134	8.46336	2.15678146	1.10888	2.15678146	Up	0.0049278826	0.930859211
84946	LTV1	LTV1 ribosome biogenesis factor	4.07345	4.5508	5.03455	4.08394	3.04998	3.87111	-1.846239863	-0.88459	1.846239863	Down	0.0026123699	0.930859211
5906	RAP1A	RAP1A, member of RAS oncogene family	6.14889	6.49515	7.12298	5.99011	5.36589	6.22885	-1.655641137	-0.72739	1.655641137	Down	0.0046960098	0.930859211
6769	STAC	SH3 and cysteine rich domain	5.2713	5.3494	5.39682	4.61168	3.6717	4.92527	-1.913600936	-0.93629	1.913600936	Down	0.0014711367	0.930859211
6392	SDHD	Succinate dehydrogenase complex subunit D, integral membrane	7.89267	8.22392	8.76449	7.66369	7.07532	7.78277	-1.724805081	-0.786433333	1.7248050	Down	0.0216608	0.9308592

		protein									81		74	11
1213	CLTC	Clathrin, heavy chain (Hc)	9.46725	9.65502	10.27178	9.23869	8.56941	9.43839	-1.642454418	-0.715853333	1.642454418	Down	0.037065706	0.930859211
3782	KCNN3	Potassium channel, calcium activated intermediate/small conductance subfamily N α, member 3	5.17748	6.75906	6.24528	4.85761	5.44941	4.942	-1.969186836	-0.9776	1.969186836	Down	0.03602506	0.930859211
5825	ABCD3	ATP binding cassette subfamily D member 3	5.28623	5.63453	5.59359	4.99686	4.699	4.71289	-1.626608059	-0.701866667	1.626608059	Down	0.002765319	0.930859211
2280	FKBP1A	FK506 binding protein 1A	8.13214	7.27905	7.83224	7.01033	6.99139	7.25666	-1.581927337	-0.661683333	1.581927337	Down	0.021670483	0.930859211
51616	TAF9B	TATA-box binding protein associated factor 9b	4.62656	5.32878	5.57718	4.58309	3.91979	4.38102	-1.844044324	-0.882873333	1.844044324	Down	0.013404698	0.930859211
7411	VBP1	Von Hippel-Lindau binding protein 1	5.67	5.69	6.58	5.28	5.08	5.39	-1.655	-0.727	1.655	Do	0.024	0.930

			147	231	109	644	446	149	759727	493333	759727	wn	450193	859211
114088	TRIM9	Tripartite motif containing 9	8.63477	8.2845	7.88319	7.21458	7.82657	7.61258	-1.642898479	-0.716243333	1.642898479	Down	0.018252244	0.930859211
2791	GNG11	Guanine nucleotide binding protein (G protein), γ11	7.72858	8.4243	8.52042	6.98992	7.77752	7.57405	-1.713884633	-0.77727	1.713884633	Down	0.024765891	0.930859211
100534612	C1QTNF3-AMACR	C1QTNF3-AMACR readthrough (NMD candidate)	6.29647	6.20385	6.52276	5.76156	5.1254	5.71424	-1.749925294	-0.807293333	1.749925294	Down	0.005175618	0.930859211
8935	SKAP2	Src kinase associated phosphoprotein 2	4.05747	4.09723	4.70369	3.2807	3.69675	4.0875	-1.513420963	-0.597813333	1.513420963	Down	0.04401718	0.930859211
55304	SPTLC3	Serine palmitoyltransferase, long chain base subunit 3	5.43479	5.37086	5.64637	6.35417	6.14609	5.71006	1.501183148	0.5861	1.501183148	Up	0.018970008	0.930859211
61	RPS5	Ribosomal protein	11	12	12	11	10	11	-1.	-0.	1.6	D	0.0	0.9

93		S5	.68981	.00901	.36223	.22173	.97884	.80677	607222872	68457	07222872	own	25451203	30859211
2053	EPHX2	Epoxide hydrolase 2, cytoplasmic	6.714421	6.74278	7.04668	6.18302	6.12977	6.35977	-1.52665069	-0.61037	1.52665069	Down	0.005529751	0.930859211
7784	ZP3	Zona pellucida glycoprotein 3 (sperm receptor)	5.34231	5.39734	5.38758	5.66747	6.99169	7.27348	2.409059456	1.26847	2.409059456	Up	0.011256415	0.930859211
57484	RNF150	Ring finger protein 150	6.739411	6.06378	5.99989	4.2086	6.11441	4.86538	-2.305207577	-1.204896667	2.305207577	Down	0.031457076	0.930859211
4179	CD46	CD46 molecule, complement regulatory protein	7.04581	7.55043	8.04221	7.07538	5.27697	6.88017	-2.196657585	-1.13531	2.196657585	Down	0.047231583	0.930859211
1123	CHN1	Chimerin 1	4.708432	4.56107	5.01682	3.93976	3.93741	4.63346	-1.507223468	-0.591893333	1.507223468	Down	0.030313152	0.930859211

1264	CNN1	Calponin 1, basic, smooth muscle	7.827784	8.8096	9.14239	4.888846	8.36552	5.38203	-5.209963746	-2.381273333	5.209963746	Down	0.023976288	0.930859211
6426	SRSF1	Serine/arginine-rich splicing factor 1	7.01084	7.54782	7.79517	6.88772	6.14369	6.96178	-1.725339173	-0.78688	1.725339173	Down	0.025435946	0.930859211
4883	NPR3	Natriuretic peptide receptor 3	6.4543	7.51935	7.59511	5.82801	6.13219	5.66602	-2.486609564	-1.31418	2.486609564	Down	0.00335649	0.930859211
57538	ALPK3	A kinase 3	5.52257	5.2969	5.46269	6.58466	5.82903	5.87626	1.590260744	0.669263333	1.590260744	Up	0.018417255	0.930859211
55228	PNMAL1	Paraneoplastic Ma antigen family-like 1	5.76636	5.69683	6.42602	3.46113	5.5525	3.91701	-3.144556738	-1.652856667	3.144556738	Down	0.012089701	0.930859211
928	CD9	CD9 molecule	8.632241	9.38121	9.88018	7.26125	8.56255	8.33256	-2.371522134	-1.245813333	2.3715221	Down	0.0170472	0.9308592

											34		02	11
58494	JAM2	Junctional adhesion molecule 2	3.687765	4.64654	4.48999	3.05466	3.8649	3.67332	-1.674542122	-0.743766667	1.674542122	Down	0.037512688	0.930859211
1543	CYP1A1	Cytochrome P450, family 1, subfamily A, polypeptide 1	7.94264	9.51394	7.35829	10.9909	8.89163	9.7373	3.034909157	1.601653333	3.034909157	Up	0.041312515	0.930859211
3494	IGHA2	Immunoglobulin heavy constant α 2 (A2m marker)	8.29124	9.48486	8.88507	7.93204	8.11579	7.70461	-1.958265892	-0.969576667	1.958265892	Down	0.011120099	0.930859211
3856	KRT8	Keratin 8, type II	9.716	10.33254	9.64006	9.25832	8.47072	9.03512	-1.965386884	-0.974813333	1.965386884	Down	0.006107333	0.930859211
79804	HAND2-AS1	HAND2 antisense RNA 1 (head to head)	5.354644	6.619998	6.769554	4.05788	5.952566	4.38732	-2.729808978	-1.4488	2.729808978	Down	0.031019333	0.930859211
2992	GYG1	Glycogenin 1	5.5904	5.8902	6.7606	5.3025	4.8641	5.6849	-1.736982	-0.796583	1.73698	Dow	0.04495	0.93085

			8	2	3	1	3	4	638	333	2638	n	0937	9211
2669	GEM	GTP binding protein overexpressed in skeletal muscle	4.73707	6.5294	6.10461	3.68372	5.25079	4.37497	-2.555962494	-1.353866667	2.555962494	Down	0.034189813	0.930859211
5885	RAD21	RAD21 cohesin complex component	7.45548	7.16338	7.04728	6.72698	6.50156	6.60273	-1.527977536	-0.611623333	1.527977536	Down	0.006221533	0.930859211
7296	TXNRD1	Thioredoxin reductase 1	6.42319	6.40387	7.32771	5.7908	5.26391	5.72898	-2.179040987	-1.123693333	2.179040987	Down	0.004565093	0.930859211
55057	AIM1L	Absent in melanoma 1-like	5.63222	4.90336	5.32604	7.5363	7.50839	5.31434	2.826735052	1.499136667	2.826735052	Up	0.031481094	0.930859211
26298	EHF	Ets homologous factor	5.54229	5.6899	6.07098	5.48112	4.61477	5.29151	-1.55680689	-0.63859	1.55680689	Down	0.038178343	0.930859211
5741	AS3MT	Arsenite methyltransferase	7.59	7.62	7.60	7.88	7.94	8.79	1.5172	0.6014	1.517	Up	0.042	0.930

2			26	67	361	341	925	471	79285	86667	279285		186567	85929211
4499	MT1M	Metallothionein 1M	6.98679	5.73736	5.72472	7.76906	7.01232	7.62382	2.494544951	1.318776667	2.494544951	Up	0.008008879	0.930859211
79694	MANEA	Mannosidase, endo-α	5.54783	5.75016	6.2291	5.28503	4.52889	5.30849	-1.742984814	-0.80156	1.742984814	Down	0.018180929	0.930859211
64167	ERAP2	Endoplasmic reticulum aminopeptidase 2	4.88651	5.34798	7.40019	7.25764	6.90106	8.47648	3.175168893	1.666833333	3.175168893	Up	0.039260457	0.930859211
8404	SPARCL1	SPARC like 1	8.70996	9.73118	10.0502	6.20234	8.75185	8.02838	-3.570823107	-1.836256667	3.570823107	Down	0.021180345	0.930859211
3680	ITGA9	Integrin α 9	5.47662	5.94547	6.60558	3.29988	5.64968	4.26712	-3.039140418	-1.603663333	3.039140418	Down	0.022440458	0.930859211
27	TIN	Tubulointerstitial	4.	3.	3.	4.	5.	3.	1.9	0.9	1.9	U	0.0	0.9

283	AG	nephritis antigen	11256	16057	49985	55436	34077	80666	67372307	7627	67372307	p	39212168	30859211
5634	PRPS2	Phosphoribosyl pyrophosphate synthetase 2	7.64581	8.10654	8.3905	7.22465	7.49903	7.56108	-1.536197102	-0.619363333	1.536197102	Down	0.021531782	0.930859211
5062	PAK2	P21 protein (Cdc42/Rac)-activated kinase 2	8.1465	7.85742	7.22949	8.3786	8.81307	8.04684	1.589272669	0.668366667	1.589272669	Up	0.046976264	0.930859211
619208	FAM229B	Family with sequence similarity 229 member B	6.08839	6.84043	7.00222	5.73962	6.08286	6.18939	-1.558030346	-0.639723333	1.558030346	Down	0.041513216	0.930859211
725	C4BPB	Complement component 4 binding protein, β	7.29865	6.10952	6.5749	7.05574	7.83888	7.73708	1.844048585	0.882876667	1.844048585	Up	0.030663261	0.930859211
2810	SFN	Stratifin	8.40549	8.39488	8.67077	9.70137	9.11684	8.74152	1.6202278	0.696196667	1.6202278	Up	0.022431607	0.930859211

6819	SULT1C2	Sulfotransferase family 1C member 2	9.73753	9.03072	8.87172	10.50008	9.62695	10.01383	1.782163871	0.83363	1.782163871	Up	0.021518442	0.930859211
291	SLC25A4	Solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4	6.7564	6.95812	7.51055	6.56865	5.95965	6.32819	-1.728507264	-0.789526667	1.728507264	Down	0.013048839	0.930859211
2	A2M	A-2-macroglobulin	10.79345	10.78926	11.20352	9.05239	10.66627	10.19438	-1.942251465	-0.95773	1.942251465	Down	0.036024152	0.930859211
57561	ARRDC3	Arrestin domain containing 3	4.8736	5.28433	5.13083	4.41292	4.31147	4.71784	-1.532099506	-0.61551	1.532099506	Down	0.007277358	0.930859211
3026	HABP2	Hyaluronan binding protein 2	7.46638	8.08135	8.16531	7.0741	6.86561	7.32193	-1.761901575	-0.817133333	1.761901575	Down	0.007306761	0.930859211
6580	SLC22A1	Solute carrier family 22 (organic	6.10	6.12	5.84	7.17	6.72	6.81	1.8402	0.8799	1.840	Up	0.001	0.930

		cation transporter), member 1	4441	308	803	48	65	397	69	16667	269		222389	859211
4013	VWA5A	Von Willebrand factor A domain containing 5A	5.71441	5.8481	6.10333	5.05756	5.45219	5.37099	-1.510507485	-0.595033333	1.510507485	Down	0.009993491	0.930859211
100127888	SLCO4A1-AS1	SLCO4A1 antisense RNA 1	5.39292	4.41675	4.58939	7.00298	5.38179	6.29623	2.689454037	1.427313333	2.689454037	Up	0.010484046	0.930859211
3123	HLA-DRB1	Major histocompatibility complex, class II, DR β 1	10.12015	10.23312	11.05367	9.24284	10.06713	9.22632	-1.941111961	-0.956883333	1.941111961	Down	0.016704206	0.930859211
3493	IGHA1	Immunoglobulin heavy constant α 1	8.29124	9.48486	8.88507	7.93204	8.11579	7.70461	-1.958265892	-0.969576667	1.958265892	Down	0.0111200999	0.930859211
4638	MYLK	Myosin light chain kinase	8.05897	9.21152	10.184	5.20081	8.62535	6.62087	-5.048378221	-2.33582	5.048378221	Down	0.027071176	0.930859211
57	SCU	Signal peptide,	6.	6.	7.	5.	6.	5.	-2.	-1.	2.1	D	0.0	0.9

758	BE2	CUB domain, EGF-like 2	77709	86592	63371	44248	81509	79226	107642242	07563	07642242	own	23437128	30859211
64240	ABCG5	ATP binding cassette subfamily G member 5	7.49341	7.96212	7.53214	8.77716	8.00535	8.71229	1.784735152	0.83571	1.784735152	Up	0.009631064	0.930859211
340419	RSPO2	R-spondin 2	4.00945	4.75095	5.11563	3.4712	4.44276	3.48675	-1.771666023	-0.825106667	1.771666023	Down	0.046537001	0.930859211
4501	MT1X	Metallothionein 1X	8.49345	7.74049	7.26919	8.91009	8.56566	9.15878	2.061650812	1.0438	2.061650812	Up	0.010879273	0.930859211
101101692	HELLPAR	HELLP associated long non-coding RNA	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.01080322	0.930859211
54858	PGPEP1	Pyroglutamyl-peptidase I	7.41478	7.09898	6.92696	7.88525	7.90397	7.46157	1.519247235	0.603356667	1.519247235	Up	0.015575506	0.930859211

3109	HLA-DMB	Major histocompatibility complex, class II, DM β	5.77129	5.71156	6.39422	4.19192	5.13402	5.55055	-2.000268035	-1.000193333	2.000268035	Down	0.023573446	0.930859211
515	ATP5F1	ATP synthase, H+ transporting, mitochondrial Fo complex subunit B1	3.23487	3.89185	3.93435	4.45384	4.54789	3.82807	1.504805124	0.589576667	1.504805124	Up	0.049388673	0.930859211
10957	PNRC1	Proline rich nuclear receptor coactivator 1	7.62487	8.36576	8.10048	7.61628	6.79734	7.64786	-1.598305657	-0.676543333	1.598305657	Down	0.046567212	0.930859211
83450	DRC3	Dynein regulatory complex subunit 3	5.81507	5.99291	6.01415	6.64055	6.99168	6.05198	1.537613953	0.620693333	1.537613953	Up	0.034698715	0.930859211
22998	LIMCH1	LIM and calponin homology domains 1	7.2093	7.6425	7.39387	6.77054	6.02107	7.18749	-1.688243887	-0.755523333	1.688243887	Down	0.034229556	0.930859211
56849	TCEAL7	Transcription elongation factor A (SII)-like 7	4.73291	5.698	6.19571	3.31706	4.95417	4.39475	-2.49703031	-1.320213333	2.4970303	Down	0.0266002	0.9308592

											1		57	11
57616	TSHZ3	Teashirt zinc finger homeobox 3	5.34048	5.41025	5.73888	4.72806	5.41846	4.56292	-1.508787888	-0.59339	1.508787888	Down	0.041787548	0.930859211
4502	MT2A	Metallothionein 2A	12.07233	11.42848	10.68139	12.02574	12.3518	12.73181	1.966617883	0.975716667	1.966617883	Up	0.022071365	0.930859211
3125	HLA-DRB3	Major histocompatibility complex, class II, DR β 3	10.12015	10.23312	11.05367	9.242284	10.06713	9.22632	-1.941111961	-0.956883333	1.941111961	Down	0.016704206	0.930859211
9465	AKAP7	A-kinase anchoring protein 7	5.217727	4.539909	5.498863	4.790699	4.263312	4.321233	-1.54397565	-0.62665	1.543975565	Down	0.047591599	0.930859211
10959	TMED2	Transmembrane p24 trafficking protein 2	8.058055	8.173333	8.706555	7.737899	6.723666	8.032221	-1.758960802	-0.814723333	1.758960802	Down	0.047443144	0.930859211
5034	P4HB	Prolyl 4-hydroxylase, β polypeptide	9.5819	9.3847	9.5254	9.1799	8.3309	9.0637	-1.557368	-0.63911	1.55736	Dow	0.02483	0.93085

					2	8	2	9	121		8121	n	1947	9211
221476	PI16	Peptidase inhibitor 16	5.99581	7.53747	6.48211	7.14856	7.98783	8.86538	2.511924902	1.328793333	2.511924902	Up	0.031216161	0.930859211
57687	VAT1L	Vesicle amine transport 1-like	5.76066	5.68946	6.26366	4.29342	5.8792	4.65242	-1.949242162	-0.962913333	1.949242162	Down	0.041117405	0.930859211
1948	EFNB2	Ephrin-B2	5.75666	6.40085	6.50856	5.35229	5.50472	5.68589	-1.633224748	-0.707723333	1.633224748	Down	0.014451479	0.930859211
388403	YPEL2	Yippee like 2	9.61302	9.48656	9.06991	8.56508	8.96845	8.87326	-1.502710051	-0.587566667	1.502710051	Down	0.015387845	0.930859211
2596	GAP43	Growth associated protein 43	6.25921	5.61432	5.54015	4.26168	5.28833	4.73495	-2.06037461	-1.042906667	2.06037461	Down	0.008753666	0.930859211
2302	PDZRN3	PDZ domain containing ring	5.13	5.97	6.64	4.47	5.27	5.11	-1.951	-0.964	1.951	Do	0.037	0.930

4		finger 3	538	738	919	927	186	755	283409	423333	283409	wn	6572	859211
220988	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3	5.5843	6.26131	6.40407	5.45975	4.90271	5.74049	-1.642139474	-0.715576667	1.642139474	Down	0.038242746	0.930859211
5538	PPT1	Palmitoyl-protein thioesterase 1	5.96616	6.50638	7.00513	5.43899	5.10147	5.89363	-2.020239964	-1.014526667	2.020239964	Down	0.010824397	0.930859211
3685	ITGAV	Integrin α V	5.38634	5.83115	6.29824	5.11745	3.60532	5.03644	-2.381999868	-1.252173333	2.381999868	Down	0.018979712	0.930859211
6251	RSU1	Ras suppressor protein 1	7.65165	7.97985	8.25041	7.1465	7.35079	7.62109	-1.502998254	-0.587843333	1.502998254	Down	0.021523264	0.930859211
6678	SPARC	Secreted protein, acidic, cysteine-rich (osteonectin)	6.44594	6.97959	7.5773	4.01872	6.1402	6.05198	-3.025786092	-1.59731	3.025786092	Down	0.024334595	0.930859211
57	CCD	Coiled-coil domain	6.	6.	6.	6.	7.	6.	1.5	0.6	1.5	U	0.0	0.9

821	C181	containing 181	35369	25586	00597	97868	07006	51527	68620833	49496667	68620833	p	1117137	30859211
644538	SMIM10	Small integral membrane protein 10	4.9862	6.24738	6.45113	4.27538	4.89194	4.68319	-2.425137701	-1.278066667	2.425137701	Down	0.010310559	0.930859211
10150	MBNL2	Muscleblind-like splicing regulator 2	4.57806	4.79112	4.75987	4.33728	3.8076	4.19374	-1.512368808	-0.59681	1.512368808	Down	0.007432965	0.930859211
27253	PCDH17	Protocadherin 17	5.75226	5.8694	6.34011	4.55903	5.56051	4.68217	-2.075348089	-1.053353333	2.075348089	Down	0.007434363	0.930859211
145567	TTC7B	Tetratricopeptide repeat domain 7B	6.15126	5.99875	6.35225	5.05571	5.96676	5.5835	-1.549815703	-0.632096667	1.549815703	Down	0.032529761	0.930859211
23710	GABARAPL1	GABA(A) receptor-associated protein like 1	7.57422	7.91498	7.84257	7.24045	7.13727	6.93309	-1.595107144	-0.673653333	1.595107144	Down	0.003490656	0.930859211

7075	TIE1	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1	5.00421	5.65308	6.17746	4.60895	5.19698	4.87933	-1.643186993	-0.716496667	1.643186993	Down	0.0046225878	0.930859211
132720	C4orf32	Chromosome 4 open reading frame 32	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.01080322	0.930859211
10602	CDC42EP3	CDC42 effector protein (Rho gtpase binding) 3	5.17484	5.70328	5.82367	4.68564	5.02473	5.20467	-1.511083447	-0.595583333	1.511083447	Down	0.002779205	0.930859211
9103	FCGR2C	Fc fragment of igg, low affinity iic, receptor for (CD32) (gene/pseudogene)	6.86534	6.75451	6.81512	5.45448	6.71512	6.13165	-1.637210699	-0.71124	1.637210699	Down	0.0044115506	0.930859211
140851	MT1P3	Metallothionein 1 pseudogene 3	6.88566	6.34369	5.75381	7.599	7.27873	7.30277	2.093301327	1.06578	2.093301327	Up	0.000570414	0.930859211
4069	LYZ	Lysozyme	9.7543	10.07464	10.41466	9.06195	8.48181	8.5404	-2.614400202	-1.38648	2.6144002	Down	0.0003229	0.9308592

											02		54	11
3708	ITPR1	Inositol 1,4,5-trisphosphate receptor, type 1	6.88892	7.90503	8.17772	5.29905	7.45167	6.30042	-2.473996284	-1.306843333	2.473996284	Down	0.045836873	0.930859211
4783	NFIL3	Nuclear factor, interleukin 3 regulated	5.68985	5.96377	5.53938	4.26452	5.27423	4.27174	-2.184803202	-1.127503333	2.184803202	Down	0.004761364	0.930859211
401105	FLJ42393	Uncharacterized LOC401105	6.65105	6.86473	6.4209	5.52447	4.9296	5.20446	-2.687099978	-1.42605	2.687099978	Down	0.000135084	0.930859211
1903	S1PR3	Sphingosine-1-phosphate receptor 3	5.84298	6.35269	7.70589	4.17265	6.185	4.49489	-3.210964393	-1.683006667	3.210964393	Down	0.027560811	0.930859211
3426	CFI	Complement factor I	6.80892	7.12931	7.20393	6.59889	5.50253	6.62104	-1.749044101	-0.806566667	1.749044101	Down	0.032957947	0.930859211
116985	ARAP1	Arfgap with rhogap domain, ankyrin repeat and PH	8.4608	8.3398	8.0166	7.6748	7.465	7.4067	-1.689855	-0.7569	1.68985	Dow	0.00227	0.93085

		domain 1	6	1	5	4		8	633		5633	n	6716	9211
7052	TGM2	Transglutaminase 2	4.19738	4.2943	4.79101	3.44493	3.96485	3.33025	-1.799446654	-0.847553333	1.799446654	Down	0.005198957	0.930859211
8613	PLPP3	Phospholipid phosphatase 3	8.24886	8.56039	8.82951	7.64154	7.77378	8.4405	-1.50975383	-0.594313333	1.509753833	Down	0.045622629	0.930859211
388254	HERC2P5	Hect domain and RLD 2 pseudogene 5	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.010803222	0.930859211
22999	RIMS1	Regulating synaptic membrane exocytosis 1	4.19369	4.83585	4.43581	3.99375	3.97762	3.66951	-1.524310351	-0.608156667	1.524310351	Down	0.012606044	0.930859211
79623	GALNT14	Polypeptide N-acetylgalactosaminyltransferase 14	5.48014	4.48719	5.12773	6.29896	5.90544	5.6245	1.880713381	0.91128	1.880713381	Up	0.013156365	0.930859211
5527	PGM2	Phosphoglucomutase 2	5.38	5.21	5.80	5.04	4.38	5.01	-1.576	-0.656	1.576	Do	0.025	0.930

6			454	599	908	829	049	141	22483	473333	22483	wn	120116	859211
8076	MFAP5	Microfibrillar associated protein 5	3.22509	5.60777	3.20484	6.2379	7.12758	8.6621	10.05582819	3.32996	10.05582819	Up	0.003131194	0.930859211
11005	SPINK5	Serine peptidase inhibitor, Kazal type 5	6.23781	5.0126	4.51584	3.30186	4.47224	4.42415	-2.280473386	-1.189333333	2.280473386	Down	0.0038659857	0.930859211
23052	ENDOD1	Endonuclease domain containing 1	7.33576	6.18527	5.97591	8.22059	7.78434	7.52904	2.541493721	1.345676667	2.541493721	Up	0.0065319 21	0.930859211
81607	PVRL4	Poliovirus receptor-related 4	7.0024	7.2118	7.40769	8.00317	7.73067	7.67471	1.511052026	0.595553333	1.511052026	Up	0.0085615 07	0.930859211
857	CAV1	Caveolin 1	8.02646	9.05349	9.03895	6.44522	8.11236	7.74816	-2.413377055	-1.271053333	2.413377055	Down	0.0025504243	0.930859211
66	SNA	Small nuclear RNA	4.	4.	4.	4.	3.	4.	-1.	-0.	1.5	D	0.0	0.9

19	PC3	activating complex polypeptide 3	39962	55722	89462	26458	77669	00312	518194538	602356667	18194538	own	11411923	30859211
6004	RGS16	Regulator of G-protein signaling 16	5.543668	6.531112	5.5929	4.837688	5.014188	4.98053	-1.925326783	-0.945103333	1.925326783	Down	0.008283356	0.930859211
9358	ITGBL1	Integrin β like 1	5.386667	5.869961	5.084434	6.120888	7.710201	5.8992	2.188420537	1.12989	2.188420537	Up	0.042295835	0.930859211
51386	EIF3L	Eukaryotic translation initiation factor 3 subunit L	8.790977	9.187768	9.680277	8.272377	7.867699	8.629928	-1.94962051	-0.963193333	1.94962051	Down	0.00840128	0.930859211
727956	SDHAP2	Succinate dehydrogenase complex subunit A, flavoprotein pseudogene 2	9.642688	9.916944	10.05334	9.482166	9.028277	9.145455	-1.571737185	-0.65236	1.571737185	Down	0.00623941	0.930859211
2252	FGF7	Fibroblast growth factor 7	6.716673	7.0345	7.784478	3.642225	7.017544	5.134422	-3.768525096	-1.914	3.768525096	Down	0.036442382	0.930859211

10631	POSTN	Periostin, osteoblast specific factor	4.99231	5.1436	4.89149	3.91176	4.03273	4.47037	-1.828735806	-0.870846667	1.828735806	Down	0.001232421	0.930859211
7136	TNNI2	Troponin I type 2 (skeletal, fast)	9.37267	8.80626	8.72663	10.46282	10.46736	9.38017	2.196079071	1.13493	2.196079071	Up	0.008399632	0.930859211
6275	S100A4	S100 calcium binding protein A4	9.67659	9.93601	9.31384	9.75743	10.47657	10.59514	1.552112718	0.634233333	1.552112718	Up	0.039593263	0.930859211
51326	ARL17A	ADP-ribosylation factor like gtpase 17A	4.80131	4.51232	4.51531	3.79436	3.57365	4.46307	-1.586616363	-0.665953333	1.586616363	Down	0.021746641	0.930859211
10105	PPIF	Peptidylprolyl isomerase F	6.06359	6.20704	6.66779	5.90231	5.68548	5.44759	-1.552234652	-0.634346667	1.552234652	Down	0.016786059	0.930859211
8406	SRPX	Sushi-repeat containing protein, X-linked	7.00443	8.30525	8.57886	5.89905	7.34624	7.03647	-2.300998431	-1.20226	2.3009984	Down	0.0417579	0.9308592

											31		53	11
7127	TNFAIP2	TNF α induced protein 2	5.11372	4.9476	4.53965	5.5283	5.94173	5.2173	1.61939321	0.695453333	1.61939321	Up	0.017827687	0.930859211
4498	MT1JP	Metallothionein 1J, pseudogene	6.88566	6.34369	5.75381	7.599	7.27873	7.30277	2.093301327	1.06578	2.093301327	Up	0.00570414	0.930859211
4312	MMP1	Matrix metallopeptidase 1	10.43678	9.20653	10.70303	11.16661	10.80726	10.90083	1.793511091	0.842786667	1.793511091	Up	0.048536514	0.930859211
3514	IGKC	Immunoglobulin κ constant	4.84292	5.68691	5.56016	4.43062	4.01588	4.39532	-2.118030454	-1.082723333	2.118030454	Down	0.00239966	0.930859211
2597	GAPDH	Glyceraldehyde-3-phosphate dehydrogenase	12.11278	11.86174	12.17112	11.35274	11.26905	11.68552	-1.529199535	-0.612776667	1.529199535	Down	0.003962129	0.930859211
4675	NAP1L3	Nucleosome assembly protein 1-like 3	3.7500	4.5216	5.1054	3.3077	3.9733	3.627	-1.769093	-0.82301	1.76909	Dow	0.03990	0.93085

			9	2	2	2	8		133		3133	n	4726	9211
2823	GPM6A	Glycoprotein M6A	4.750032	6.757746	7.133388	2.876881	5.680028	3.985532	-4.092786281	-2.033083333	4.092786281	Down	0.037293814	0.930859211
10085	EDIL3	EGF-like repeats and discoidin I-like domains 3	8.045688	8.751777	9.102444	6.802166	8.429066	6.150188	-2.840536287	-1.506163333	2.840536287	Down	0.027662437	0.930859211
26134	RALGAPA1P	Ral gtpase activating protein, α subunit 1 (catalytic) pseudogene	4.201422	4.954988	4.661299	4.201688	3.377996	3.963799	-1.69124617	-0.758086667	1.69124617	Down	0.020597306	0.930859211
100288778	LOC100288778	WAS protein family homolog 1 pseudogene	7.807711	7.500855	7.009722	8.946466	8.503466	8.074444	2.097532745	1.068693333	2.097532745	Up	0.005381406	0.930859211
100533181	FXYD6-FXYD2	FXYD6-FXYD2 readthrough	6.342933	7.232237	7.973332	4.416669	6.855922	5.850133	-2.780401702	-1.475293333	2.780401702	Down	0.048831246	0.930859211
6513	SLC2A1	Solute carrier family 2	9.08	8.89	9.07	10.2	9.48	9.17	1.5303	0.6138	1.530	Up	0.046	0.930

		(facilitated glucose transporter), member 1	426	055	73	3069	626	671	37649	5	337649		582373	859211
5048	PAFAH1B1	Platelet activating factor acetylhydrolase 1b regulatory subunit 1	4.38835	5.13079	5.5252	4.66162	3.93012	4.29546	-1.646093936	-0.719046667	1.646093936	Down	0.049151758	0.930859211
7364	UGT2B7	UDP glucuronosyltransferase 2 family, polypeptide B7	5.946099	6.553433	8.6662	9.20944	10.1883	7.71492	3.951261512	1.982313333	3.951261512	Up	0.040165838	0.930859211
10049	DNAJB6	Dnaj heat shock protein family (Hsp40) member B6	5.5635	6.144449	6.901131	5.50695	4.98488	5.34712	-1.896645432	-0.92345	1.896645432	Down	0.023870709	0.930859211
6876	TAGLN	Transgelin	10.61081	11.327	11.5605	7.74805	11.3478	8.65898	-3.763739209	-1.912166667	3.763739209	Down	0.049380431	0.930859211
9079	LDB2	LIM domain binding 2	4.54174	5.01248	5.17613	3.97626	3.81589	4.74761	-1.658865211	-0.730196667	1.658865211	Down	0.029659948	0.930859211
35	JCH	Joining chain of	7.	7.	7.	7.	7.	6.	-1.	-0.	1.5	D	0.0	0.9

12	AIN	multimeric iga and igm	17378	83731	80766	01919	11552	92236	502355949	587226667	02355949	own	22743409	30859211
1306	COL15A1	Collagen, type XV, α 1	7.29634	8.11177	8.21131	5.95845	7.44281	7.23572	-1.991901996	-0.994146667	1.991901996	Down	0.045642342	0.930859211
3397	ID1	Inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	9.003309	10.74028	9.3794	8.65619	7.06944	7.22709	-4.160287797	-2.056683333	4.160287797	Down	0.005823287	0.930859211
6095	RORA	RAR-related orphan receptor A	7.293364	6.941181	6.17267	7.6737	7.458888	7.53852	1.686844126	0.754326667	1.686844126	Up	0.026895754	0.930859211
3597	IL13RA1	Interleukin 13 receptor, α 1	5.34643	5.39404	5.58653	4.79147	4.5111	5.22396	-1.515881172	-0.600156667	1.515881172	Down	0.018217266	0.930859211
57187	THOC2	THO complex 2	7.189997	6.880779	6.30226	7.6167	7.54635	7.28082	1.613600385	0.690283333	1.613600385	Up	0.02172248	0.930859211

5870	RAB6A	RAB6A, member RAS oncogene family	6.03789	6.0141	6.2691	5.55746	5.07607	5.76756	-1.558329159	-0.64	1.558329159	Down	0.015031142	0.930859211
101059953	NPIPA8	Nuclear pore complex interacting protein family member A8	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
8727	CTNNAL1	Catenin α-like 1	6.62982	7.18416	7.62416	5.93111	5.74465	6.43131	-2.158990158	-1.110356667	2.158990158	Down	0.005242342	0.930859211
9987	HNRNPDL	Heterogeneous nuclear ribonucleoprotein D like	7.29798	8.06443	8.17296	7.15911	6.4849	7.48729	-1.742739175	-0.801356667	1.742739175	Down	0.037668982	0.930859211
55040	EPN3	Epsin 3	5.75658	5.66269	5.70656	6.92959	5.9757	6.14622	1.560375589	0.641893333	1.560375589	Up	0.034607229	0.930859211
5350	PLN	Phospholamban	5.52609	7.28768	7.34411	3.67542	6.61114	3.92897	-3.94707336	-1.980783333	3.9470733	Down	0.0429806	0.9308592

											6		24	11
6480	ST6GAL1	ST6 β-galactosamide α-2,6-sialyltranferase 1	5.876	6.58328	6.91925	5.38528	5.32271	6.25606	-1.746935893	-0.804826667	1.746935893	Down	0.045921455	0.930859211
51678	MPP6	Membrane protein, palmitoylated 6	8.17297	8.03417	7.97959	7.08042	7.5287	7.73267	-1.531536765	-0.61498	1.531536765	Down	0.013553494	0.930859211
8848	TSC22D1	TSC22 domain family member 1	7.41159	8.03072	8.18914	7.047	6.73666	7.32381	-1.791696985	-0.841326667	1.791696985	Down	0.009926243	0.930859211
27250	PDCD4	Programmed cell death 4 (neoplastic transformation inhibitor)	6.73873	7.33173	7.03238	6.66803	5.71681	6.40024	-1.708329974	-0.772586667	1.708329974	Down	0.023231891	0.930859211
197322	ACSF3	Acyl-coa synthetase family member 3	6.54177	7.70112	7.04728	7.95375	8.15793	7.83935	1.849266737	0.886953333	1.849266737	Up	0.014704102	0.930859211
642778	NPIPA3	Nuclear pore complex interacting protein	5.1531	5.5797	6.3336	4.8951	4.3209	5.2072	-1.841706	-0.881043	1.84170	Dow	0.03197	0.93085

		family member A3		5		7		5	712	333	6712	n	3618	9211
7453	WARS	Tryptophanyl-trna synthetase	4.68488	4.7273	5.4859	4.02369	4.03239	4.56688	-1.691582257	-0.758373333	1.691582257	Down	0.01881365	0.930859211
4837	NNMT	Nicotinamide N-methyltransferase	6.61207	6.91252	7.0356	7.75322	8.69207	7.70453	2.291898785	1.196543333	2.291898785	Up	0.003076575	0.930859211
10082	GPC6	Glypican 6	8.16534	8.27728	8.83897	7.77425	7.8687	7.52343	-1.630223762	-0.70507	1.630223762	Down	0.010515222	0.930859211
79971	WLS	Wntless Wnt ligand secretion mediator	6.43987	7.11808	7.37761	6.48117	5.73139	6.28116	-1.758014131	-0.813946667	1.758014131	Down	0.02429578	0.930859211
5925	RB1	Retinoblastoma 1	4.63073	4.65557	5.43947	4.35978	3.95265	4.13647	-1.692266363	-0.758956667	1.692266363	Down	0.013672374	0.930859211
9450	LY86	Lymphocyte antigen 86	6.53	6.63	6.99	5.59	6.02	6.50	-1.603	-0.680	1.603	Do	0.028	0.930

			375	777	115	296	084	607	176575	933333	176575	wn	303405	859211
5420	PODXL	Podocalyxin-like	7.006604	6.86383	7.48935	6.05223	6.39097	6.95173	-1.574357667	-0.654763333	1.574357667	Down	0.041817763	0.930859211
57631	LRCH2	Leucine-rich repeats and calponin homology (CH) domain containing 2	3.781544	4.164438	4.7169	3.383446	3.34999	3.7313	-1.661734619	-0.73269	1.661734619	Down	0.015722802	0.930859211
55340	GIMAP5	Gtpase, IMAP family member 5	6.163138	6.208181	6.8184	5.11419	5.78363	6.11751	-1.652656238	-0.724786667	1.652656238	Down	0.040039558	0.930859211
56997	ADCK3	Aarf domain containing kinase 3	5.323331	5.8155	5.52626	4.68319	4.66363	4.902	-1.74765046	-0.805416667	1.747650046	Down	0.001624669	0.930859211
53	ACP2	Acid phosphatase 2, lysosomal	5.55848	6.026066	6.09715	5.35144	5.11947	5.45363	-1.500784327	-0.585716667	1.500784327	Down	0.016126665	0.930859211
70	THY	Thy-1 cell surface	5.	6.	6.	6.	7.	6.	1.8	0.9	1.8	U	0.0	0.9

70	1	antigen	34646	41444	083358	27714	36488	9417	83061345	1308	83061345	p	32234336	30859211
10728	PTGES3	Prostaglandin E synthase 3	7.85919	8.3161	8.65927	7.68251	6.49934	7.95051	-1.86701476	-0.900733333	1.86701476	Down	0.049079624	0.930859211
10051	SMC4	Structural maintenance of chromosomes 4	5.52188	5.87405	6.07734	5.45906	4.80245	5.36483	-1.532241109	-0.615643333	1.532241109	Down	0.028119113	0.930859211
8425	LTBP4	Latent transforming growth factor β binding protein 4	7.45843	8.28434	8.32986	7.01864	7.50345	7.48172	-1.612843736	-0.689606667	1.612843736	Down	0.033714664	0.930859211
26353	HSPB8	Heat shock protein family B (small) member 8	5.125545	6.09181	6.72629	4.39264	5.26675	4.96373	-2.153689097	-1.10681	2.153689097	Down	0.026934048	0.930859211
728888	NPIPB11	Nuclear pore complex interacting protein family member B11	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211

116039	OSR2	Odd-skipped related transciption factor 2	4.40672	4.79669	5.3632	4.10972	4.00272	4.36349	-1.621010385	-0.696893333	1.621010385	Down	0.021749217	0.930859211
546	ATRX	A thalassemia/mental retardation syndrome X-linked	6.39847	6.62035	5.55077	7.25438	7.35221	6.63974	1.856064269	0.892246667	1.856064269	Up	0.023009218	0.930859211
23089	PEG10	Paternally expressed 10	5.60497	5.55795	5.75181	4.85559	4.74535	4.963	-1.721417054	-0.783596667	1.721417054	Down	0.000550692	0.930859211
63874	ABHD4	Abhydrolase domain containing 4	5.24335	5.42698	5.60512	4.43933	4.75683	5.28372	-1.514165953	-0.598523333	1.514165953	Down	0.032080562	0.930859211
85458	DIXDC1	DIX domain containing 1	7.01272	7.70906	7.61727	6.10305	6.93858	6.67567	-1.832631429	-0.873916667	1.832631429	Down	0.013086826	0.930859211
23576	DDAH1	Dimethylarginine dimethylaminohydrolase 1	4.32043	4.69706	5.26371	4.23805	3.29357	3.73185	-2.008209804	-1.00591	2.0082098	Down	0.0107136	0.9308592

											04		2	11
221749	PXDC1	PX domain containing 1	7.66078	7.89199	7.58798	8.97171	8.00243	8.1838	1.593718323	0.672396667	1.593718323	Up	0.032406752	0.930859211
1499	CTNNB1	Catenin β 1	6.90552	7.76503	7.26294	6.22845	6.42459	6.76774	-1.787037613	-0.83757	1.787037613	Down	0.010806354	0.930859211
23117	NPIPB3	Nuclear pore complex interacting protein family, member B3	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
9284	NPIPA1	Nuclear pore complex interacting protein family member A1	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
23197	FAF2	Fas associated factor family member 2	6.59436	6.13301	5.74384	6.84125	7.13068	6.40953	1.554822618	0.63675	1.554822618	Up	0.046300607	0.930859211
158381	ATP8B5P	Atpase, class I, type 8B, member 5, pseudogene	7.0063	7.0375	7.3407	6.7269	5.8727	6.7587	-1.597021	-0.675383	1.59702	Dow	0.03254	0.93085

			8	1	6	8	6	6	055	333	1055	n	2783	9211
54492	NEURL1B	Neuralized E3 ubiquitin protein ligase 1B	6.76121	7.88739	8.48169	5.43418	7.11171	6.63461	-2.490778388	-1.316596667	2.490778388	Down	0.03937942	0.930859211
4969	OGN	Osteoglycin	6.1313	6.35184	6.20648	4.01084	5.34575	5.5929	-2.372996545	-1.24671	2.372996545	Down	0.012119335	0.930859211
63923	TNN	Tenascin N	4.81368	3.97785	4.90855	3.81287	4.211	3.77599	-1.55122361	-0.633406667	1.55122361	Down	0.041885733	0.930859211
729602	NPIPB1P	Nuclear pore complex interacting protein family member B1, pseudogene	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
50810	HDGFRP3	Hepatoma-derived growth factor, related protein 3	5.12779	5.43799	5.90897	4.71389	5.1136	4.81656	-1.526506077	-0.610233333	1.526506077	Down	0.026602878	0.930859211
1028	CWC27	CWC27 spliceosome-associ	8.87	8.63	8.69	9.87	9.25	9.12	1.6036	0.6813	1.603	Up	0.012	0.930

3		ated protein homolog	901	351	441	16	135	794	06311	2	606311		891549	859211
117	ADCYAP1R1	Adenylate cyclase activating polypeptide 1 (pituitary) receptor type I	5.80993	6.41246	6.13546	4.97954	5.82903	5.70242	-1.532216328	-0.61562	1.532216328	Down	0.048983653	0.930859211
2040	STOM	Stomatin	5.84636	6.31651	6.79987	5.97891	5.22759	5.71006	-1.604429058	-0.68206	1.604429058	Down	0.04586344	0.930859211
51309	ARMCX1	Armadillo repeat containing, X-linked 1	7.42655	8.23888	8.01526	6.93639	7.26674	7.64494	-1.527183407	-0.610873333	1.527183407	Down	0.049896996	0.930859211
7871	SLMAP	Sarcolemma associated protein	4.0988	4.20243	5.09173	3.99514	3.55454	3.64394	-1.662222297	-0.733113333	1.662222297	Down	0.027116413	0.930859211
5908	RAP1B	RAP1B, member of RAS oncogene family	4.58076	4.65869	5.24067	4.40312	3.56146	4.28574	-1.673961871	-0.743266667	1.673961871	Down	0.024863496	0.930859211
15	SH3	SH3 domain	6.	6.	6.	5.	5.	5.	-1.	-0.	1.5	D	0.0	0.9

2503	D19	containing 19	02069	04022	48981	55884	34851	84231	516087829	600353333	16087829	own	17725681	30859211
51716	CES1P1	Carboxylesterase 1 pseudogene 1	5.99371	6.7148	5.75331	3.8169	3.71497	5.41059	-3.579570928	-1.839786667	3.579570928	Down	0.004693774	0.930859211
53826	FXYD6	FXYD domain containing ion transport regulator 6	6.34293	7.23237	7.97332	4.41669	6.85592	5.85013	-2.780401702	-1.475293333	2.780401702	Down	0.048831246	0.930859211
3313	HSPA9	Heat shock protein family A (Hsp70) member 9	8.07454	8.13407	8.45761	7.82056	7.24702	7.7556	-1.530864579	-0.614346667	1.530864579	Down	0.016532891	0.930859211
3688	ITGB1	Integrin β 1	8.97993	9.53608	9.70822	8.61338	8.20969	9.04325	-1.724251235	-0.78597	1.724251235	Down	0.018713806	0.930859211
1737	DLAT	Dihydrolipoamide S-acetyltransferase	5.17305	5.1113	5.40998	4.92274	4.23799	4.68435	-1.533062662	-0.616416667	1.533062662	Down	0.015498807	0.930859211

4495	MT1G	Metallothionein 1G	11.92811	9.025563	8.276658	12.04633	11.76997	12.34409	4.958911002	2.310023333	4.958911002	Up	0.024060491	0.930859211
54206	ERRFI1	ERBB receptor feedback inhibitor 1	8.66746	10.05274	9.31912	8.52721	8.45321	8.66681	-1.737922	-0.797363333	1.737922	Down	0.037280872	0.930859211
9378	NRXN1	Neurexin 1	4.27423	4.40929	4.13286	3.67313	3.75532	3.61402	-1.506607204	-0.591303333	1.506607204	Down	0.001289126	0.930859211
1524	CX3CR1	Chemokine (C-X3-C motif) receptor 1	9.2531	9.58875	9.94036	8.19672	8.92096	9.40129	-1.686945463	-0.754413333	1.686945463	Down	0.044574085	0.930859211
51201	ZDHHC2	Zinc finger, DHHC-type containing 2	4.08378	4.20009	4.7262	3.54884	3.53126	4.13647	-1.513441943	-0.597833333	1.513441943	Down	0.031351653	0.930859211
1465	CSRP1	Cysteine and glycine rich protein 1	7.3725	7.62535	7.87909	6.60634	7.5071	6.84282	-1.558574013	-0.640226667	1.5585740	Down	0.0385872	0.9308592

											13		56	11
821	CANX	Calnexin	9.09137	9.28207	9.5934	8.79883	8.24245	8.94031	-1.582000439	-0.66175	1.582000439	Down	0.018392048	0.930859211
115908	CTHRC1	Collagen triple helix repeat containing 1	5.02941	5.80811	5.80253	4.65032	4.95396	4.86173	-1.652534052	-0.72468	1.652534052	Down	0.015354362	0.930859211
683	BST1	Bone marrow stromal cell antigen 1	4.05179	5.3245	5.75011	6.81314	6.22161	6.59819	2.832704281	1.50218	2.832704281	Up	0.00702193	0.930859211
113146	AHNAK2	AHNAK nucleoprotein 2	4.37388	5.52912	5.49265	5.43325	6.38606	6.63593	2.027726864	1.019863333	2.027726864	Up	0.036548785	0.930859211
7168	TPM1	Tropomyosin 1 (α)	7.58717	7.7045	8.07181	7.00511	7.40952	6.80196	-1.642200182	-0.71563	1.642200182	Down	0.009996618	0.930859211
8805	TRIM24	Tripartite motif containing 24	6.8903	6.7518	6.9536	7.8357	7.465	7.2539	1.5724055	0.6529733	1.57240	Up	0.00795	0.93085

				5		5		2	2	33	552		8825	9211
5859	QARS	Glutaminyl-trna synthetase	6.62211	7.0759	7.32055	6.58426	6.11955	6.45258	-1.537645928	-0.620723333	1.537645928	Down	0.024138599	0.930859211
728013	CBWD7	COBW domain containing 7	4.45212	3.86237	4.15271	3.71574	3.32172	3.19774	-1.674812975	-0.744	1.674812975	Down	0.005346182	0.930859211
3309	HSPA5	Heat shock protein family A (Hsp70) member 5	8.23671	8.88386	9.21298	8.20758	7.01232	8.1742	-1.97221477	-0.979816667	1.97221477	Down	0.031760093	0.930859211
5627	PROS1	Protein S (α)	5.90222	5.91859	6.62526	5.46556	5.15675	5.82368	-1.587430394	-0.666693333	1.587430394	Down	0.033066823	0.930859211
11341	SCRG1	Stimulator of chondrogenesis 1	6.0758	6.67911	7.42856	3.25431	6.56355	4.00957	-4.342964018	-2.11868	4.342964018	Down	0.029038589	0.930859211
3778	KCNMA1	Potassium channel, calcium activated	7.41	8.59	8.68	4.98	8.23	6.03	-3.514	-1.813	3.514	Do	0.046	0.930

		large conductance subfamily M α, member 1	352	067	619	011	012	983	793668	44	793668	wn	773815	859211
28514	DLL1	Δ-like 1 (*Drosophila*)	5.4612	5.76582	6.20344	4.88728	5.47141	5.10643	-1.574739655	-0.655113333	1.574739655	Down	0.025019028	0.930859211
81876	RAB1B	RAB1B, member RAS oncogene family	6.127	5.95062	5.60562	5.27502	4.93547	5.31744	-1.645398082	-0.718436667	1.645398082	Down	0.005822344	0.930859211
3127	HLA-DRB5	Major histocompatibility complex, class II, DR β 5	10.12015	10.23312	11.05367	9.24284	10.06713	9.22632	-1.941111961	-0.956883333	1.941111961	Down	0.016704206	0.930859211
7102	TSPAN7	Tetraspanin 7	4.38333	5.27922	5.89003	3.94264	4.14826	4.55768	-1.956126947	-0.968	1.956126947	Down	0.029329759	0.930859211
55329	MNS1	Meiosis specific nuclear structural 1	3.77035	4.53528	4.18242	3.36732	3.52163	3.60905	-1.583755907	-0.66335	1.583755907	Down	0.009870333	0.930859211
31	HLA	Major	8.	8.	8.	7.	8.	8.	-1.	-0.	1.6	D	0.0	0.9

17	-DQA1	histocompatibility complex, class II, DQ α 1	33242	36488	95069	22608	02513	17977	669022419	739003333	69022419	own	34178705	30859211
253959	RALGAPA1	Ral gtpase activating protein, α subunit 1 (catalytic)	4.201422	4.954988	4.661299	4.201688	3.377796	3.963799	-1.69124617	-0.758086667	1.69124617	Down	0.020597306	0.930859211
6430	SRSF5	Serine/arginine-rich splicing factor 5	4.007787	5.5525	5.4063	4.33016	3.06378	4.09873	-2.231478645	-1.158	2.231478645	Down	0.039810041	0.930859211
23158	TBC1D9	TBC1 domain family member 9	5.71107	6.01238	5.99481	5.30612	5.04018	5.09529	-1.692188165	-0.75889	1.692188165	Down	0.001446491	0.930859211
10136	CELA3A	Chymotrypsin like elastase family member 3A	4.04435	3.43445	3.87753	4.6902	4.41693	4.94855	1.865785755	0.899783333	1.865785755	Up	0.002409776	0.930859211
25897	RNF19A	Ring finger protein 19A, RBR E3 ubiquitin protein ligase	6.36619	6.79026	7.07072	6.58117	5.79825	6.0366	-1.519626385	-0.603716667	1.519626385	Down	0.049818493	0.930859211

2813	GP2	Glycoprotein 2 (zymogen granule membrane)	8.37854	7.58386	8.09439	9.37074	8.31545	9.98327	2.304131943	1.204223333	2.304131943	Up	0.019710527	0.930859211
25842	ASF1A	Anti-silencing function 1A histone chaperone	6.22841	6.06925	6.59136	5.49802	5.60341	6.02822	-1.50155432	-0.586456667	1.50155432	Down	0.023463783	0.930859211
3400	ID4	Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	5.8714	7.28096	6.23389	4.29691	3.69406	3.86513	-5.696398201	-2.51005	5.696398201	Down	0.000132282	0.930859211
650669	GAS6-AS1	GAS6 antisense RNA 1	5.72012	5.08713	6.12162	6.7431	6.86891	6.05496	1.88256542	0.9127	1.88256542	Up	0.020537409	0.930859211
5493	PPL	Periplakin	9.27743	9.6664	9.32483	10.49708	9.82554	10.19089	1.679792851	0.748283333	1.679792851	Up	0.006347073	0.930859211
5334	PLCL1	Phospholipase C like 1	5.14411	4.18989	4.13043	3.45889	4.25308	3.2319	-1.790281767	-0.840186667	1.7902817	Down	0.0412737	0.9308592

											67		58	11
84981	MIR22HG	MIR22 host gene	3.966679	5.092269	4.443744	3.905066	3.8277	3.902265	-1.539650966	-0.622603333	1.539650966	Down	0.0044507808	0.930859211
28984	RGCC	Regulator of cell cycle	7.033381	7.061889	7.304344	5.283306	5.894885	6.41221	-2.41157108	-1.269973333	2.41157108	Down	0.002039842	0.930859211
5573	PRKAR1A	Protein kinase, camp-dependent, regulatory subunit type I α	5.187344	6.209122	5.965177	5.232323	4.364409	5.134242	-1.836560811	-0.877006667	1.836560811	Down	0.02798984	0.930859211
8611	PLPP1	Phospholipid phosphatase 1	8.123362	8.811666	9.353392	7.650097	7.956677	7.79307	-1.949129573	-0.96283	1.949129573	Down	0.011842488	0.930859211
728622	SKP1P2	S-phase kinase-associated protein 1 pseudogene 2	9.737377	9.684451	9.902289	9.0912	8.7365	9.5014	-1.585813743	-0.665223333	1.585813743	Down	0.011996031	0.930859211
10042 2	LOC1004 2273	Uncharacterized LOC100422737	7.1393	6.7495	6.5614	7.4161	7.6066	7.3209	1.5487847	0.6311366	1.54878	Up	0.01080	0.93085

737	7		3	8	1	8	2	3	65	67	4765		322	9211
3988	LIPA	Lipase A, lysosomal acid, cholesterol esterase	6.557055	7.04162	7.38115	6.42277	5.78027	6.04418	-1.880174632	-0.910866667	1.880174632	Down	0.007959773	0.930859211
642475	MROH6	Maestro heat-like repeat family member 6	6.514399	6.530441	6.398977	7.391773	6.914399	7.180866	1.603328451	0.68107	1.603328451	Up	0.003873338	0.930859211
27087	B3GAT1	B-1,3-glucuronyltransferase 1	4.402177	4.405466	4.203977	5.309993	4.578066	5.272221	1.642849133	0.7162	1.642849133	Up	0.010467848	0.930859211
1072	CFL1	Cofilin 1 (non-muscle)	9.636668	9.566692	10.02493	8.959994	9.0825	9.2377	-1.568584591	-0.649463333	1.568584591	Down	0.004807101	0.930859211
4604	MYBPC1	Myosin binding protein C, slow type	4.292744	4.300466	5.132992	4.809888	6.085488	6.324766	2.241814127	1.164666667	2.241814127	Up	0.023996122	0.930859211
1132	C12orf57	Chromosome 12 open reading frame	10.6	10.5	10.8	9.72	10.0	10.4	-1.506	-0.591	1.506	Do	0.015	0.930

46		57	0378	2906	003	774	0708	2338	96579	646667	96579	wn	743182	859211
105376752	LOC105376752	NPIP-like protein 1	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
25950	RWDD3	RWD domain containing 3	5.89431	5.86801	6.65245	5.37699	5.04311	5.84505	-1.643236349	-0.71654	1.643236349	Down	0.036143553	0.930859211
23401	FRAT2	Frequently rearranged in advanced T-cell lymphomas 2	6.8194	6.76487	6.80152	5.96805	5.96307	6.57376	-1.544318153	-0.62697	1.544318153	Down	0.0137108	0.930859211
22890	ZBTB1	Zinc finger and BTB domain containing 1	4.39246	4.35283	4.63361	5.4873	4.62919	5.10083	1.529231334	0.612806667	1.529231334	Up	0.026290772	0.930859211
2332	FMR1	Fragile X mental retardation 1	4.70979	5.04852	5.69065	4.63889	4.283	4.59853	-1.561407026	-0.642846667	1.561407026	Down	0.035672793	0.930859211
27	TNF	Tumor necrosis	9.	9.	9.	10	9.	9.	1.5	0.5	1.5	U	0.0	0.9

242	RSF21	factor receptor superfamily member 21	64754	46498	48916	.44892	98805	95174	11181208	95676667	11181208	p	07837509	30859211
5552	SRGN	Serglycin	7.441855	8.811655	7.974011	6.636661	7.023933	7.130844	-2.212038762	-1.145376667	2.212038762	Down	0.009645841	0.930859211
8754	ADAM9	ADAM metallopeptidase domain 9	6.6247	6.53945	7.20634	6.23513	5.61031	6.24435	-1.693764542	-0.760233333	1.693764542	Down	0.017415134	0.930859211
2022	ENG	Endoglin	6.2698	6.64573	7.42569	4.73813	6.33454	6.01305	-2.121620568	-1.085166667	2.121620568	Down	0.043971027	0.930859211
783	CACNB2	Calcium channel, voltage-dependent, β 2 subunit	4.81558	5.33757	5.61803	3.52934	4.53991	4.12344	-2.286007283	-1.19283	2.286007283	Down	0.004126459	0.930859211
4211	MEIS1	Meis homeobox 1	5.66768	6.07912	6.84947	4.87838	5.72377	5.57658	-1.748171431	-0.805846667	1.748171431	Down	0.046501382	0.930859211

105369230	LOC105369230	HLA class II histocompatibility antigen, DRB1-7 β chain	10.12015	10.23312	11.05367	9.24284	10.06713	9.22632	-1.941111961	-0.956883333	1.941111961	Down	0.016704206	0.930859211
83857	TMTC1	Transmembrane and tetratricopeptide repeat containing 1	6.45748	6.55952	6.72428	5.31792	6.46648	5.58188	-1.731073122	-0.791666667	1.731073122	Down	0.026645968	0.930859211
23136	EPB41L3	Erythrocyte membrane protein band 4.1-like 3	4.16115	4.30195	5.21452	3.59427	3.60668	4.09798	-1.732549614	-0.792896667	1.732549614	Down	0.025849023	0.930859211
9412	MED21	Mediator complex subunit 21	5.76636	5.82972	6.29477	5.52974	4.93164	5.60338	-1.524881006	-0.608696667	1.524881006	Down	0.032679878	0.930859211
474344	GIMAP6	Gtpase, IMAP family member 6	5.40146	5.37028	5.99235	4.62758	4.53771	5.51279	-1.619262259	-0.695336667	1.619262259	Down	0.048146802	0.930859211
5592	PRKG1	Protein kinase, cgmp-dependent, type I	5.37104	5.70303	5.40998	4.71237	5.25584	3.93357	-1.815990514	-0.860756667	1.81599905	Down	0.0260534	0.9308592

											14		38	11
7805	LAPTM5	Lysosomal protein transmembrane 5	8.11751	8.3044	8.3053	6.85673	7.64516	7.82604	-1.740811509	-0.79976	1.740811509	Down	0.014378569	0.930859211
51705	EMCN	Endomucin	5.46159	6.41481	6.86922	4.69862	4.86023	5.81842	-2.17766696	-1.122783333	2.177666696	Down	0.027623374	0.930859211
642946	FLVCR1-AS1	FLVCR1 antisense RNA 1 (head to head)	6.39433	6.73094	6.65454	7.76776	7.44754	7.41687	1.932926348	0.950786667	1.932926348	Up	0.000597636	0.930859211
10788	IQGAP2	IQ motif containing gtpase activating protein 2	5.53338	5.44819	5.40998	4.89319	3.93158	4.76035	-1.912522429	-0.935476667	1.912522429	Down	0.006209545	0.930859211
55754	TMEM30A	Transmembrane protein 30A	4.99577	4.91993	5.77989	4.84859	4.05567	4.32339	-1.768647655	-0.822646667	1.768647655	Down	0.021673919	0.930859211
5518	PPP2R1A	Protein phosphatase 2 regulatory subunit	6.8372	7.4090	7.3750	6.7748	6.3243	6.7281	-1.513672	-0.598053	1.51367	Dow	0.02423	0.93085

		A, α	8	3	8	1		2	749	333	2749	n	6949	9211
2634	GBP2	Guanylate binding protein 2, interferon-inducible	6.989999	7.1915	6.669994	5.34228	6.141	6.68082	-1.860611265	-0.895776667	1.860611265	Down	0.027498552	0.930859211
28976	ACAD9	Acyl-coa dehydrogenase family member 9	5.346692	5.366988	5.489919	4.684366	4.659566	5.023099	-1.528404771	-0.612026667	1.528404771	Down	0.004087542	0.930859211
51733	UPB1	Ureidopropionase, β	5.092669	4.3242	3.943442	5.520447	5.183433	5.703552	2.021888351	1.015703333	2.021888351	Up	0.009277343	0.930859211
79152	FA2H	Fatty acid 2-hydroxylase	8.410553	8.00419	8.180881	9.399931	8.528662	8.538587	1.540775499	0.623656667	1.540775499	Up	0.042543231	0.930859211
1909	EDNRA	Endothelin receptor type A	5.773886	6.33442	6.730388	4.427995	5.723777	4.909	-2.393817774	-1.259313333	2.393817774	Down	0.009133699	0.930859211
1637	CITED4	Cbp/p300-interacting transactivator,	7.62	7.70	7.70	8.74	7.84	8.25	1.5236	0.6075	1.523	Up	0.029	0.930

32		with Glu/Asp rich carboxy-terminal domain, 4	225	36	182	705	625	705	8006	6	68006		310366	859211
7384	UQCRC1	Ubiquinol-cytochrome c reductase core protein I	9.13442	8.94215	9.31347	8.51871	8.08978	8.60968	-1.651705718	-0.723956667	1.651705718	Down	0.004776632	0.930859211
261729	STEAP2	STEAP2 metalloreductase	7.00508	6.49194	7.15206	7.38311	7.78	7.24311	1.500780859	0.585713333	1.500780859	Up	0.003341928	0.930859211
4856	NOV	Nephroblastoma overexpressed	4.53881	4.5296	4.94093	4.02492	4.28444	3.86368	-1.528482463	-0.6121	1.528482463	Down	0.007749907	0.930859211
642799	NPIPA2	Nuclear pore complex interacting protein family member A2	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
8671	SLC4A4	Solute carrier family 4 (sodium bicarbonate cotransporter), member 4	4.7267	5.91459	6.18929	5.32863	3.51231	4.19229	-2.404577347	-1.265783333	2.404577347	Down	0.041553693	0.930859211
79	MM	Multimerin 2	5.	5.	6.	4.	5.	5.	-1.	-0.	1.5	D	0.0	0.9

812	RN2		55321	60537	11751	6705	1791	52025	553382732	635413333	53382732	own	38540985	30859211
1497	CTNS	Cystinosin, lysosomal cystine transporter	4.911136	4.11599	3.69795	4.97385	5.15442	4.73258	1.637903091	0.71185	1.637903091	Up	0.043760905	0.930859211
23057	NMNAT2	Nicotinamide nucleotide adenylyltransferase 2	5.04734	5.82605	6.5593	4.38705	5.10312	4.24549	-2.349483007	-1.232343333	2.349483007	Down	0.014269299	0.930859211
6262	RYR2	Ryanodine receptor 2 (cardiac)	3.962299	4.40075	5.0419	2.66941	4.12793	3.21964	-2.187556077	-1.12932	2.187556077	Down	0.022400342	0.930859211
694	BTG1	B-cell translocation gene 1, anti-proliferative	10.98663	11.02783	10.16469	10.13102	9.66688	9.70615	-1.855361101	-0.8917	1.855361101	Down	0.008738778	0.930859211
100288332	NPIPA5	Nuclear pore complex interacting protein family member A5	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211

1797	DXO	Decapping exoribonuclease	7.43718	7.63007	8.36606	6.2872	7.48287	6.36953	-2.140433974	-1.097903333	2.140433974	Down	0.018872942	0.930859211
9948	WDR1	WD repeat domain 1	4.96088	5.14356	5.67302	4.52317	4.42192	4.56292	-1.689367654	-0.756483333	1.689367654	Down	0.005370645	0.930859211
28738	TRAJ17	T cell receptor α joining 17	7.52979	7.71638	7.946	6.34803	6.65496	7.71796	-1.769988516	-0.82374	1.769988516	Down	0.042372306	0.930859211
4953	ODC1	Ornithine decarboxylase 1	8.51789	9.09982	9.02151	8.44521	7.85458	8.37172	-1.575602197	-0.655903333	1.575602197	Down	0.020192642	0.930859211
400506	KNOP1	Lysine-rich nucleolar protein 1	7.70463	6.92661	6.44794	7.80597	8.24422	7.58578	1.80533095	0.852263333	1.80533095	Up	0.03226506	0.930859211
119587	CPXM2	Carboxypeptidase X (M14 family), member 2	5.39767	6.24697	5.19841	6.38265	7.18764	7.20477	2.480567129	1.31067	2.4805671	Up	0.0046511	0.9308592

											29		81	11
8910	SGCE	Sarcoglycan epsilon	7.51904	8.06961	7.84762	6.99544	7.16729	7.26623	-1.590084388	-0.669103333	1.590084388	Down	0.006683413	0.930859211
1975	EIF4B	Eukaryotic translation initiation factor 4B	7.51157	7.79918	8.08216	7.34114	6.52978	7.38576	-1.638160447	-0.712076667	1.638160447	Down	0.029620664	0.930859211
8839	WISP2	WNT1 inducible signaling pathway protein 2	4.45589	6.03007	4.83915	6.99354	6.94561	8.36271	5.012684153	2.325583333	5.012684153	Up	0.001836636	0.930859211
23008	KLHDC10	Kelch domain containing 10	5.50372	5.58617	6.07831	5.25255	4.3329	5.08223	-1.782011524	-0.833506667	1.782011524	Down	0.016500802	0.930859211
10130	PDIA6	Protein disulfide isomerase family A member 6	9.08648	8.92015	9.38622	8.4886	8.26763	8.84635	-1.5123129	-0.596756667	1.5123129	Down	0.017421707	0.930859211
81849	ST6GALNAC	ST6 (α-N-acetyl-neuraminyl-2,3-β-galact	3.9054	5.6007	6.1284	3.5469	4.4768	3.6665	-2.487649	-1.314783	2.48764	Dow	0.04288	0.93085

	5	osyl-1,3)-N-acetylgalactosaminide α-2,6-sialyltransferase 5	8	9	3	7		8	679	333	9679	n	1161	9211
4060	LUM	Lumican	9.7553	9.83519	9.77132	7.94618	9.40997	9.30329	-1.867088095	-0.90079	1.867088095	Down	0.038652786	0.930859211
2200	FBN1	Fibrillin 1	3.78697	3.34655	2.78427	3.87273	5.73374	4.36167	2.549327403	1.350116667	2.549327403	Up	0.021083798	0.930859211
2104	ESRRG	Estrogen-related receptor γ	4.34252	4.68998	4.63092	3.77289	3.51763	3.80131	-1.811514893	-0.857196667	1.811514893	Down	0.000426158	0.930859211
4076	CAPRIN1	Cell cycle associated protein 1	6.63945	6.84262	7.36281	6.51333	5.94036	6.53938	-1.533969715	-0.61727	1.533969715	Down	0.03884998	0.930859211
2294	FOXF1	Forkhead box F1	6.82059	7.99766	8.22609	5.61615	7.29407	5.92498	-2.644594753	-1.403046667	2.644594753	Down	0.025364409	0.930859211

129684	CNTNAP5	Contactin associated protein-like 5	6.35258	5.46269	5.25704	6.00713	7.39016	7.22129	2.269052516	1.18209	2.269052516	Up	0.023725385	0.930859211
1893	ECM1	Extracellular matrix protein 1	9.3374	9.17911	9.40908	7.84396	8.77427	7.96193	-2.166165291	-1.115143333	2.166165291	Down	0.002297889	0.930859211
4588	MUC6	Mucin 6, oligomeric mucus/gel-forming	10.8643	9.77399	10.50321	12.23407	10.87266	11.66247	2.312147336	1.209233333	2.312147336	Up	0.014284357	0.930859211
3694	ITGB6	Integrin β 6	5.46155	5.2989	5.39038	5.14015	4.32012	4.89503	-1.514151959	-0.59851	1.514151959	Down	0.025539117	0.930859211
143903	LAYN	Layilin	5.54877	6.05761	6.76803	4.72476	5.96271	4.84277	-1.929272146	-0.948056667	1.929272146	Down	0.048703673	0.930859211
644019	CBWD6	COBW domain containing 6	4.45212	3.86237	4.15271	3.71574	3.32172	3.19774	-1.674812975	-0.744	1.6748129	Down	0.0053461	0.9308592

											75		82	11
114907	FBXO32	F-box protein 32	7.01046	7.23952	7.14021	5.32863	6.92662	6.26291	-1.941730979	-0.957343333	1.941730979	Down	0.031292614	0.930859211
389015	SLC9A4	Solute carrier family 9, subfamily A (NHE4, cation proton antiporter 4), member 4	7.13933	6.74958	6.56141	7.41618	7.60662	7.32093	1.548784765	0.631136667	1.548784765	Up	0.010803322	0.930859211
145173	B3GLCT	B 3-glucosyltransferase	3.99845	5.18742	4.63019	5.40162	5.16282	5.36576	1.629820784	0.704713333	1.629820784	Up	0.037887279	0.930859211
5577	PRKAR2B	Protein kinase, camp-dependent, regulatory subunit type II β	4.76039	4.93865	5.6341	4.17921	4.34605	4.02541	-1.901964408	-0.92749	1.901964408	Down	0.004560554	0.930859211
6926	TBX3	T-box 3	5.4514	5.22249	5.42917	4.10509	4.50374	4.54666	-1.975918351	-0.982523333	1.975918351	Down	0.000396975	0.930859211
27147	DENND2A	DENN/MADD domain containing 2A	4.3195	4.1740	3.8134	4.8864	5.0521	4.2356	1.5394126	0.62238	1.53941	Up	0.03185	0.93085

			5	7	8	8	5	1	42		2642		6671	9211
7275	TUB	Tubby bipartite transcription factor	5.0432	6.02216	6.58584	3.66019	5.33667	4.50836	-2.606282255	-1.381993333	2.606282255	Down	0.02458812	0.930859211
8436	SDPR	Serum deprivation response	6.98877	8.31733	8.45341	5.18144	7.23576	5.62337	-3.748499821	-1.906313333	3.748499821	Down	0.011842721	0.930859211
6934	TCF7L2	Transcription factor 7-like 2 (T-cell specific, HMG-box)	4.48553	4.26218	3.4784	4.80097	5.53027	4.35623	1.765960817	0.820453333	1.765960817	Up	0.048766808	0.930859211
5507	PPP1R3C	Protein phosphatase 1 regulatory subunit 3C	6.11404	6.23959	6.87929	5.38398	5.82903	5.33851	-1.858063748	-0.8938	1.858063748	Down	0.006804933	0.930859211
5567	PRKACB	Protein kinase, camp-dependent, β catalytic subunit	5.8681	6.14108	6.46885	5.35273	5.39992	5.85189	-1.541672866	-0.624496667	1.541672866	Down	0.020322204	0.930859211
3126	HLA-DR	Major histocompatibility	9.45	8.74	9.99	9.31	7.37	6.65	-3.061	-1.614	3.061	Do	0.038	0.930

	B4	complex, class II, DR β 4	381	299	447	631	927	245	870642	413333	870642	wn	12753	859211
2161	F12	Coagulation factor XII (Hageman factor)	7.432	6.86905	7.02126	8.06115	7.64434	7.57151	1.5708695	0.651563333	1.5708695	Up	0.014870814	0.930859211
55063	ZCWPW1	Zinc finger, CW type with PWWP domain 1	5.06904	5.33498	4.78826	6.00785	5.64968	5.41627	1.544535824	0.627173333	1.544535824	Up	0.018491149	0.930859211
55798	METTL2B	Methyltransferase like 2B	5.03493	5.16447	4.89327	5.94632	5.59186	5.67349	1.631651935	0.706333333	1.631651935	Up	0.002309083	0.930859211
84935	MEDAG	Mesenteric estrogen-dependent adipogenesis	4.12219	4.68017	4.28114	4.65063	5.2214	6.15843	1.975639885	0.98232	1.975639885	Up	0.027126894	0.930859211
54209	TREM2	Triggering receptor expressed on myeloid cells 2	7.10693	7.13406	7.30064	6.15463	6.68665	6.55639	-1.641088831	-0.714653333	1.641088831	Down	0.004474981	0.930859211
65	ZDH	Zinc finger,	6.	7.	6.	8.	7.	7.	2.0	1.0	2.0	U	0.0	0.9

3082	HC11B	DHHC-type containing 11B	913363	050223	6832	660334	615446	446651	35076931	25083333	35076931	p	12071884	30859211
3091	HIF1A	Hypoxia inducible factor 1, α subunit (basic helix-loop-helix transcription factor)	6.737433	7.425455	7.860995	6.993333	5.998664	6.573944	-1.764557774	-0.819306667	1.764557774	Down	0.044727324	0.930859211
284	ANGPT1	Angiopoietin 1	6.157719	8.034442	7.572289	5.077792	6.831922	5.558088	-2.698566675	-1.432193333	2.698566675	Down	0.038415498	0.930859211
440345	NPIPB4	Nuclear pore complex interacting protein family member B4	5.1531	5.579755	6.3336	4.895157	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
100505984	LOC100505984	Uncharacterized LOC100505984	5.461555	5.2989	5.390038	5.140115	4.320012	4.895003	-1.514151959	-0.59851	1.514151959	Down	0.025539117	0.930859211
5226	PGD	Phosphogluconate dehydrogenase	9.2788	9.409952	9.523	8.502223	8.775569	9.020066	-1.555717384	-0.63758	1.55571773	Down	0.0057684	0.9308592

											84		19	11
80344	DCAF11	DDB1 and CUL4 associated factor 11	7.66138	7.33496	7.26536	8.05895	8.20885	8.02041	1.597153897	0.675503333	1.597153897	Up	0.00316731	0.930859211
220869	CBWD5	COBW domain containing 5	4.45212	3.86237	4.15271	3.71574	3.32172	3.19774	-1.674812975	-0.744	1.674812975	Down	0.005346182	0.930859211
28513	CDH19	Cadherin 19, type 2	5.25842	5.0922	4.87529	3.80542	4.35229	3.98293	-2.03979382	-1.028423333	2.039793822	Down	0.0005452741	0.930859211
374666	WASH3P	WAS protein family homolog 3 pseudogene	7.80771	7.50085	7.00972	8.94646	8.50346	8.07444	2.097532745	1.068693333	2.097532745	Up	0.005381406	0.930859211
58475	MS4A7	Membrane-spanning 4-domains, subfamily A, member 7	4.81358	4.9675	4.90379	3.92613	4.49873	4.08461	-1.653053404	-0.725133333	1.653053404	Down	0.003002322	0.930859211
5861	RAB1A	RAB1A, member RAS oncogene family	6.127	5.9506	5.6056	5.2750	4.9354	5.3174	-1.645398	-0.718436	1.64539	Dow	0.00582	0.93085

				2	2	2	7	4	082	667	8082	n	2344	9211
10203	CALCRL	Calcitonin receptor like receptor	5.38992	5.56116	6.04324	4.76359	5.12523	5.12057	-1.581883477	-0.661643333	1.581883477	Down	0.013663322	0.930859211
28517	TRDV2	T cell receptor Δ variable 2	7.52979	7.71638	7.946	6.34803	6.65496	7.71796	-1.769988516	-0.82374	1.769988516	Down	0.042372306	0.930859211
836	CASP3	Caspase 3	4.44884	4.96301	5.07644	4.34639	3.69862	4.41277	-1.598630663	-0.676836667	1.598630663	Down	0.024853741	0.930859211
100527949	GIMAP1-GIMAP5	GIMAP1-GIMAP5 readthrough	6.16318	6.20811	6.8184	5.11419	5.78363	6.11751	-1.652656238	-0.724786667	1.652656238	Down	0.040039558	0.930859211
28933	IGKV1-33	Immunoglobulin κ variable 1-33	4.84292	5.68691	5.56016	4.43062	4.01588	4.39532	-2.118030454	-1.082723333	2.118030454	Down	0.002399966	0.930859211
2152	F3	Coagulation factor III (thromboplastin,	7.54	7.75	7.70	8.52	8.22	8.32	1.6137	0.6904	1.613	Up	0.001	0.930

		tissue factor)	101	279	712	583	143	489	42063	1	742063		821402	859211
10699	CORIN	Corin, serine peptidase	6.55344	6.18451	7.15625	4.99429	5.63527	5.71461	-2.2710246	-1.183343333	2.2710246	Down	0.004200485	0.930859211
1803	DPP4	Dipeptidyl-peptidase 4	9.39074	9.0715	8.68486	9.96931	9.37157	9.89369	1.61980858	0.695823333	1.61980858	Up	0.018019675	0.930859211
9586	CREB5	Camp responsive element binding protein 5	8.26448	7.98737	7.43654	9.23876	8.54739	8.49525	1.82050243	0.864336667	1.82050243	Up	0.014921194	0.930859211
83875	BCO2	B-carotene oxygenase 2	7.72972	8.0952	7.6886	7.49638	6.1591	7.06856	-1.905047099	-0.929826667	1.905047099	Down	0.022729587	0.930859211
54602	NDFIP2	Nedd4 family interacting protein 2	5.78918	5.65984	5.87674	5.58776	4.48095	5.25173	-1.589353455	-0.66844	1.589353455	Down	0.041136544	0.930859211
64	CHS	Carbohydrate	6.	7.	6.	5.	5.	6.	-1.	-0.	1.7	D	0.0	0.9

377	T8	(N-acetylgalactosamine 4-0) sulfotransferase 8	45376	3568	77278	8507	80862	4583	767740697	821906667	67740697	own	19033049	30859211
1643	DDB2	Damage-specific DNA binding protein 2	6.44201	6.35419	6.64193	7.44344	7.76496	6.50616	1.692094333	0.75881	1.692094333	Up	0.041063266	0.930859211
5621	PRNP	Prion protein	6.76794	6.90011	7.58552	6.37644	5.84881	6.72967	-1.700803731	-0.766216667	1.700803731	Down	0.031603507	0.930859211
9724	UTP14C	UTP14, U3 small nucleolar ribonucleoprotein, homolog C (yeast)	6.16947	6.4199	5.66854	6.9756	6.6213	6.49012	1.525945391	0.609703333	1.525945391	Up	0.031369415	0.930859211
2878	GPX3	Glutathione peroxidase 3	9.05826	8.83872	8.06456	8.73596	9.9438	9.99012	1.869665264	0.90278	1.869665264	Up	0.049688917	0.930859211
26118	WSB1	WD repeat and SOCS box containing 1	5.95645	6.34918	6.40208	5.46098	5.25211	5.82992	-1.648971731	-0.721566667	1.648971731	Down	0.008467653	0.930859211

8574	AKR7A2	Aldo-keto reductase family 7, member A2	6.66709	6.45019	6.45802	5.8418	5.42539	6.22862	-1.616824775	-0.693163333	1.616824775	Down	0.014062432	0.930859211
3779	KCNMB1	Potassium channel subfamily M regulatory β subunit 1	5.35514	5.81137	6.35757	4.62129	5.40041	4.72595	-1.899311671	-0.925476667	1.899311671	Down	0.016322972	0.930859211
5163	PDK1	Pyruvate dehydrogenase kinase, isozyme 1	6.2766	5.24491	5.95162	7.4846	6.54192	6.51119	2.030066049	1.021526667	2.030066049	Up	0.019249917	0.930859211
3420	IDH3B	Isocitrate dehydrogenase 3 (NAD+) β	8.88181	8.80942	9.0773	8.41235	7.89545	8.56942	-1.548033473	-0.630436667	1.548033473	Down	0.014199462	0.930859211
5756	TWF1	Twinfilin actin binding protein 1	4.96824	4.7891	5.61425	4.82078	3.97104	4.47508	-1.626266093	-0.701563333	1.626266093	Down	0.037940001	0.930859211
8777	MPDZ	Multiple PDZ domain protein	5.15101	6.2928	6.58532	3.99336	5.59338	4.89503	-2.269624034	-1.182453333	2.2696240	Down	0.0400759	0.9308592

											34		63	11
219902	TMEM136	Transmembrane protein 136	5.286233	5.260999	4.930466	4.594933	4.500133	4.613188	-1.505052	-0.589813333	1.505052	Down	0.004100008	0.930859211
1272	CNTN1	Contactin 1	4.947727	6.073356	6.0796	2.726684	5.228665	3.231164	-3.920669412	-1.9711	3.920669412	Down	0.014697778	0.930859211
3012	HIST1H2AE	Histone cluster 1, h2ae	6.072231	5.968044	5.685844	7.052722	6.189566	6.334866	1.533664942	0.616983333	1.533664942	Up	0.038866588	0.930859211
5727	PTCH1	Patched 1	8.157728	8.686664	9.2192	6.932251	8.063368	7.6595	-2.19741902	-1.13581	2.19741902	Down	0.012534983	0.930859211
56649	TMPRSS4	Transmembrane protease, serine 4	6.317745	6.688422	6.571194	7.047781	7.760554	7.322223	1.803654906	0.850923333	1.803654906	Up	0.004471557	0.930859211
28977	MRPL42	Mitochondrial ribosomal protein L42	6.4596	6.5966	6.9349	6.3116	5.4671	6.2171	-1.585689	-0.66511	1.58568	Dow	0.03244	0.93085

			7	5			8	1	171		9171	n	2119	9211
51316	PLAC8	Placenta specific 8	5.150177	6.233335	5.900012	4.3155	5.0026	4.929936	-2.016788784	-1.01206	2.016787884	Down	0.011616023	0.930859211
643752	RAP1BL	RAP1B, member of RAS oncogene family pseudogene	4.580776	4.658869	5.240667	4.40312	3.56146	4.28574	-1.673961871	-0.743266667	1.673961871	Down	0.024863496	0.930859211
4905	NSF	N-ethylmaleimide-sensitive factor	5.7966	6.307999	6.734997	5.450609	5.16903	6.06175	-1.646455287	-0.719363333	1.646455287	Down	0.046473933	0.930859211
9760	TOX	Thymocyte selection associated high mobility group box	3.99833	4.489554	4.5054	3.316627	4.05585	3.73553	-1.545999658	-0.62854	1.545999658	Down	0.022782183	0.930859211
55273	TMEM100	Transmembrane protein 100	7.79801	7.663866	8.85552	6.01739	6.43213	6.56985	-3.401112357	-1.766006667	3.401112357	Down	0.000731838	0.930859211
5520	ARL8B	ADP ribosylation factor like gtpase	5.25	5.37	5.51	5.06	3.79	4.88	-1.736	-0.795	1.736	Do	0.037	0.930

7		8B	095	108	666	831	874	399	140053	883333	140053	wn	158359	859211
654346	LGALS9C	Lectin, galactoside-binding, soluble, 9C	6.98307	6.93519	7.16411	5.90819	6.66258	6.73455	-1.507700636	-0.59235	1.507700636	Down	0.038335189	0.930859211
7043	TGFB3	Transforming growth factor β 3	5.91435	6.34898	6.97717	4.94336	6.26393	5.34579	-1.860649956	-0.895806667	1.860649956	Down	0.049215261	0.930859211
28663	TRAV20	T cell receptor α variable 20	7.52979	7.71638	7.946	6.34803	6.65496	7.71796	-1.769988516	-0.82374	1.769988516	Down	0.042372306	0.930859211
81606	LBH	Limb bud and heart development	5.31486	5.60777	6.85005	3.87392	4.81064	4.5123	-2.878412453	-1.525273333	2.878412453	Down	0.006725661	0.930859211
158158	RASEF	RAS and EF-hand domain containing	8.36609	7.99504	7.57596	8.67202	8.62334	8.82227	1.655017723	0.726846667	1.655017723	Up	0.009299	0.930859211
93	KL	Klotho	4.	3.	4.	3.	3.	3.	-1.	-0.	1.6	D	0.0	0.9

65			26399	94948	26007	18782	7967	31742	651602682	723866667	51602682	own	04473391	30859211
10107	TRIM10	Tripartite motif containing 10	5.607553	5.475299	5.177155	6.107077	6.279855	5.841166	1.57574782	0.656036667	1.57574782	Up	0.007731933	0.930859211
388335	TMEM220	Transmembrane protein 220	8.212217	7.820555	8.111101	7.523334	7.713359	7.110755	-1.514333888	-0.598683333	1.514333888	Down	0.017926098	0.930859211
7531	YWHAE	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon	4.9565	5.063357	5.843776	4.583552	3.839795	4.811688	-1.835652957	-0.876293333	1.835652957	Down	0.025416807	0.930859211
26273	FBXO3	F-box protein 3	5.863455	6.351443	6.730388	5.625555	5.191889	5.869884	-1.684896533	-0.75266	1.684896533	Down	0.023062487	0.930859211
80031	SEMA6D	Sema domain, transmembrane domain (TM), and cytoplasmic	5.55495	5.852688	6.253788	4.803088	5.66053	5.14165	-1.608129215	-0.685383333	1.6081292	Down	0.0335937	0.9308592

		domain, (semaphorin) 6D									15		21	11
6591	SNAI2	Snail family zinc finger 2	5.39029	5.79539	6.51787	4.6673	5.04155	4.9466	-2.022350887	-1.016033333	2.022350887	Down	0.007505927	0.930859211
1159	CKMT1B	Creatine kinase, mitochondrial 1B	9.12401	8.82889	9.40338	8.26936	8.96946	8.24301	-1.542014858	-0.624816667	1.542014858	Down	0.033737198	0.930859211
28755	TRAC	T-cell receptor α constant	7.52979	7.71638	7.946	6.34803	6.65496	7.71796	-1.769988516	-0.82374	1.769988516	Down	0.042372306	0.930859211
6389	SDHA	Succinate dehydrogenase complex subunit A, flavoprotein (Fp)	9.64268	9.91694	10.05334	9.48216	9.02827	9.14545	-1.571737185	-0.65236	1.571737185	Down	0.00623941	0.930859211
28930	IGKV1-39	Immunoglobulin κvariable 1-39 (gene/pseudogene)	5.59676	6.29761	6.34307	5.39944	5.52596	5.10193	-1.666363719	-0.736703333	1.666363719	Down	0.01484424	0.930859211
9270	ITGB1B	Integrin β 1 binding protein 1	6.65	6.47	6.93	5.12	6.02	5.43	-2.237	-1.161	2.237	Do	0.001	0.930

	P1		252	443	861	057	084	891	281307	746667	281307	wn	922376	859211
1173	AP2M1	Adaptor-related protein complex 2, mu 1 subunit	9.44631	9.57406	9.94815	8.61262	8.68953	9.13276	-1.795687953	-0.844536667	1.795687953	Down	0.003086933	0.930859211
3419	IDH3A	Isocitrate dehydrogenase 3 (NAD+) α	4.293391	4.329866	5.090994	4.200009	3.599901	3.914644	-1.587756856	-0.66699	1.587756856	Down	0.029630365	0.930859211
100505385	IQCJ-SCHIP1	IQCJ-SCHIP1 readthrough	4.557556	5.258841	4.921888	4.026641	4.2597	4.398011	-1.607230299	-0.684576667	1.607230299	Down	0.009854085	0.930859211
57509	MTUS1	Microtubule associated tumor suppressor 1	7.932477	7.652955	7.090466	8.427466	7.947742	8.147557	1.532113666	0.615523333	1.532113666	Up	0.03529564	0.930859211
2618	GART	Phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylami	4.34628	4.61662	4.96045	4.26602	3.37069	4.18105	-1.626604301	-0.701863333	1.626604301	Down	0.03100174	0.930859211

		noimidazole synthetase												
9867	PJA2	Praja ring finger 2, E3 ubiquitin protein ligase	6.00174	6.52162	7.10993	6.19944	4.99889	5.60395	-1.9234149	-0.94367	1.9234149	Down	0.033961106	0.930859211
56256	SERTAD4	SERTA domain containing 4	5.34341	5.92632	5.96804	4.7578	5.21567	5.20956	-1.607605405	-0.684913333	1.607605405	Down	0.015745261	0.930859211
8876	VNN1	Vanin 1	8.54043	8.56202	7.5046	9.59739	8.47511	9.40014	1.938843917	0.955196667	1.938843917	Up	0.036039774	0.930859211
286	ANK1	Ankyrin 1	4.13648	3.4303	4.00157	5.54034	5.50377	3.78408	2.123749096	1.086613333	2.123749096	Up	0.047809022	0.930859211
1075	CTSC	Cathepsin C	8.06299	8.25587	8.51275	7.45945	7.26144	7.42772	-1.858750762	-0.894333333	1.858750762	Down	0.000693391	0.930859211
9255	AIMP1	Aminoacyl trna synthetase	7.76	7.69	8.13	7.33	6.26	7.15	-1.926	-0.945	1.926	Do	0.012	0.930

		complex-interacting multifunctional protein 1	213	921	193	351	393	863	167724	733333	167724	wn	097782	859211
84680	ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (inactive)	7.08744	6.95079	7.49943	7.99614	7.37538	7.96462	1.515184349	0.599493333	1.515184349	Up	0.031350681	0.930859211
10720	UGT2B11	UDP glucuronosyltransferase 2 family, polypeptide B11	7.2394	7.63802	8.2027	8.51525	9.78629	8.89262	2.587119451	1.371346667	2.587119451	Up	0.005778714	0.930859211
3842	TNPO1	Transportin 1	4.11492	4.54244	4.56003	3.93804	3.5054	3.73037	-1.603465522	-0.681193333	1.603465522	Down	0.004656452	0.930859211
28893	IGKV1D-39	Immunoglobulin κ variable 1D-39	5.59676	6.29761	6.34307	5.39944	5.52596	5.10193	-1.666363719	-0.736703333	1.666363719	Down	0.014844424	0.930859211
287	ANK2	Ankyrin 2, neuronal	4.90164	3.99431	3.5574	5.97357	5.89655	4.40047	2.41565317	1.272413333	2.41565317	Up	0.031322972	0.930859211
41	MCF	MCF.2 cell line	7.	7.	6.	6.	5.	4.	-3.	-1.	3.3	D	0.0	0.9

68	2	derived transforming sequence	52151	23073	38593	17632	53485	18275	359119997	748083333	59119997	own	09604659	30859211
6285	S100B	S100 calcium binding protein B	6.86442	7.37467	6.83518	5.89322	6.28574	6.33353	-1.807413579	-0.853926667	1.807413579	Down	0.003795147	0.930859211
5164	PDK2	Pyruvate dehydrogenase kinase, isozyme 2	6.97156	7.39818	7.08756	6.83679	6.17246	6.50802	-1.565557684	-0.646676667	1.565557684	Down	0.016526421	0.930859211
3032	HADHB	Hydroxyacyl-coa dehydrogenase/3-ketoacyl-coa thiolase/enoyl-coa hydratase (trifunctional protein), β subunit	8.73963	8.77871	9.00887	8.49676	7.81727	8.43853	-1.506864821	-0.59155	1.506864821	Down	0.022749806	0.930859211
29842	TFCP2L1	Transcription factor CP2-like 1	6.59734	6.82854	7.45702	8.42015	7.43832	7.42247	1.740312837	0.799346667	1.740312837	Up	0.042641392	0.930859211
509	ATP5C1	ATP synthase, H+ transporting, mitochondrial F1	9.3870	9.3292	9.7408	8.8835	8.4972	9.0014	-1.615129	-0.69165	1.61512	Dow	0.00642	0.93085

		complex, γ polypeptide 1	4	5	2			6	675		9675	n	655	9211
105377283	LOC105377283	Uncharacterized LOC105377283	4.98975	5.29408	5.69118	4.13258	5.1287	4.69137	-1.595623194	-0.67412	1.595623194	Down	0.045317642	0.930859211
548596	CKMT1A	Creatine kinase, mitochondrial 1A	9.12401	8.82889	9.40338	8.26936	8.96946	8.24301	-1.542014858	-0.624816667	1.542014858	Down	0.033737198	0.930859211
100132247	NPIPB5	Nuclear pore complex interacting protein family, member B5	5.1531	5.57975	6.3336	4.89517	4.3209	5.20725	-1.841706712	-0.881043333	1.841706712	Down	0.031973618	0.930859211
91862	MARVELD3	MARVEL domain containing 3	6.81503	6.90583	6.50992	7.9331	7.36423	7.08429	1.643699609	0.716946667	1.643699609	Up	0.017895716	0.930859211
534	ATP6V1G2	Atpase, H+ transporting, lysosomal 13kda, V1 subunit G2	4.8016	4.93046	5.67351	4.39505	4.82062	4.42947	-1.501922114	-0.58681	1.501922114	Down	0.047988837	0.930859211
1001	POM121C	POM121 transmembrane	6.93	6.35	6.04	6.85	7.32	7.06	1.5534	0.6354	1.553	Up	0.035	0.930

01267		nucleoporin C	239	221	649	113	103	535	47336	73333	447336		445256	859211
81537	SGPP1	Sphingosine-1-phosphate phosphatase 1	5.99676	6.53129	6.38323	6.10184	4.73776	5.51197	-1.806549351	-0.853236667	1.806549351	Down	0.035521991	0.930859211
56952	PRTFDC1	Phosphoribosyl transferase domain containing 1	5.0656	4.87215	5.14097	4.72657	3.85929	4.70047	-1.513053849	-0.597463333	1.513053849	Down	0.040960929	0.930859211
2212	FCGR2A	Fc fragment of igg, low affinity iia, receptor (CD32)	6.86534	6.75451	6.81512	5.45448	6.71512	6.13165	-1.637210699	-0.71124	1.637210699	Down	0.044115506	0.930859211
57453	DSCAML1	Down syndrome cell adhesion molecule like 1	4.8815	4.9804	5.53155	6.9493	6.16729	6.19251	2.471208377	1.305216667	2.471208377	Up	0.001470229	0.930859211
10935	PRDX3	Peroxiredoxin 3	8.66549	8.97019	9.45484	8.32609	7.89238	8.78981	-1.617852407	-0.69408	1.617852407	Down	0.038747888	0.930859211
14	CIA	Circadian	5.	5.	5.	7.	5.	7.	2.5	1.3	2.5	U	0.0	0.9

8523	RT	associated repressor of transcription	16779	23164	41023	51805	29409	12009	92223299	7419	92223299	p	29837355	30859211
22996	TTC39A	Tetratricopeptide repeat domain 39A	8.03212	8.24136	8.49758	9.19022	8.98918	8.7742	1.655782681	0.727513333	1.655782681	Up	0.003875509	0.930859211
4629	MYH11	Myosin, heavy chain 11, smooth muscle	10.62069	11.58561	11.53585	7.52627	11.38804	8.62332	-4.193553708	-2.068173333	4.193553708	Down	0.046294682	0.930859211
5354	PLP1	Proteolipid protein 1	5.628806	5.769885	4.851088	4.630443	4.186155	4.7111	-1.875276505	-0.907103333	1.875276505	Down	0.009988113	0.930859211
5648	MASP1	Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	6.434887	6.029928	5.413233	7.040882	7.123398	7.197736	2.237043536	1.161593333	2.237043536	Up	0.002051791	0.930859211
1287	COL4A5	Collagen, type IV, α 5	5.49714	6.389666	7.460662	4.632366	6.130433	4.632366	-2.492206018	-1.317423333	2.4922060	Down	0.0489115	0.9308592

											18		45	11
1174	AP1S1	Adaptor-related protein complex 1 Σ 1 subunit	6.24885	5.67644	5.59645	6.14336	6.69736	6.44758	1.504050839	0.588853333	1.504050839	Up	0.034524904	0.930859211
1288	COL4A6	Collagen, type IV, α 6	7.70359	8.63787	9.33403	4.2317	8.30282	5.95453	-5.261521314	-2.39548	5.261521314	Down	0.034184257	0.930859211
7678	ZNF124	Zinc finger protein 124	4.785	5.02233	4.68831	4.00383	4.18549	4.48434	-1.523433649	-0.607326667	1.523433649	Down	0.007132352	0.930859211
148534	TMEM56	Transmembrane protein 56	5.74262	5.17949	6.36977	4.64468	4.99156	4.93879	-1.873345068	-0.905616667	1.873345068	Down	0.014837428	0.930859211
118812	MORN4	MORN repeat containing 4	5.49022	5.29762	5.97696	5.11051	3.95265	4.1447	-2.274653298	-1.185646667	2.274653298	Down	0.006628891	0.930859211
1910	EDNRB	Endothelin receptor type B	5.4464	5.4978	6.1907	3.9981	4.9278	4.6720	-2.264213	-1.17901	2.26421	Dow	0.00416	0.93085

			2	2	6	3		4	498		3498	n	1799	9211
6344	SCTR	Secretin receptor	4.82052	5.50512	5.93483	4.3234	5.00192	4.63161	-1.702726436	-0.767846667	1.702726436	Down	0.034958967	0.930859211
51454	GULP1	GULP, engulfment adaptor PTB domain containing 1	5.615509	5.94812	6.23542	5.57831	4.75906	5.51658	-1.567240589	-0.648226667	1.567240589	Down	0.040791754	0.930859211
116255	MOGAT1	Monoacylglycerol O-acyltransferase 1	10.13999	9.49004	9.59575	10.7341	10.74022	10.01279	1.68620117 2	0.75377666 7	1.686201172	Up	0.018632698	0.930859211
8313	AXIN2	Axin 2	4.5052	4.73791	5.28678	3.85456	4.44676	4.38838	-1.529856852	-0.613396667	1.529856852	Down	0.037145366	0.930859211
2300	FOXL1	Forkhead box L1	6.70446	5.42963	6.0072	7.00298	6.83123	6.88102	1.81249875	0.85798	1.81249875	Up	0.022102611	0.930859211
6614	SIGLEC1	Sialic acid binding Ig-like lectin 1,	5.47	4.97	5.20	5.50	7.15	6.65	2.3299	1.2202	2.329	Up	0.015	0.930

		sialoadhesin	804	052	932	951	745	175	13939	76667	913939		060212	859211
55729	ATF7IP	Activating transcription factor 7 interacting protein	5.55407	5.73441	5.24882	4.94846	4.79761	4.83852	-1.570151027	-0.650903333	1.570151027	Down	0.004388993	0.930859211
6943	TCF21	Transcription factor 21	5.47304	6.60752	6.8331	4.17132	5.70906	5.36381	-2.334569708	-1.223156667	2.334569708	Down	0.033549876	0.930859211
22913	RALY	RALY heterogeneous nuclear ribonucleoprotein	7.19769	7.45523	7.72919	6.84567	6.42685	7.14792	-1.57340492	-0.65389	1.57340492	Down	0.021898032	0.930859211
9444	QKI	QKI, KH domain containing, RNA binding	4.18232	4.52421	4.82967	3.52799	3.62563	4.19177	-1.658949535	-0.73027	1.658949535	Down	0.013151645	0.930859211
6518	SLC2A5	Solute carrier family 2 (facilitated glucose/fructose transporter), member 5	5.96254	5.98712	6.39936	5.44442	5.28314	5.63186	-1.583591249	-0.6632	1.583591249	Down	0.006707959	0.930859211

57502	NLGN4X	Neuroligin 4, X-linked	4.71376	3.95982	4.67388	3.33827	4.10084	3.59872	-1.705124009	-0.769876667	1.705124009	Down	0.019521087	0.930859211
846620	ST6GAL2	ST6 β-galactosamide α-2,6-sialyltranferase 2	6.28263	7.12903	7.03508	5.07413	6.17403	4.76665	-2.784290996	-1.47731	2.784290996	Down	0.00566662	0.930859211
7294	TXK	TXK tyrosine kinase	4.44542	5.00133	4.76248	5.46474	5.66576	5.19379	1.630167264	0.70502	1.630167264	Up	0.007408512	0.930859211
3956	LGALS1	Lectin, galactoside-binding, soluble, 1	10.09796	10.72687	11.05233	8.39112	10.42578	9.56396	-2.243005773	-1.165433333	2.243005773	Down	0.044784952	0.930859211
59	ACTA2	Actin, α 2, smooth muscle, aorta	4.28532	4.59609	4.86529	3.47235	4.48276	3.71024	-1.617519756	-0.693783333	1.617519756	Down	0.03617677	0.930859211
57016	AKR1B10	Aldo-keto reductase family 1, member B10 (aldose reductase)	11.60677	11.28922	11.82975	10.56948	10.89864	11.19427	-1.61080665	-0.687783333	1.6108066	Down	0.0096763	0.930859

											5		43	11
7552	ZNF711	Zinc finger protein 711	5.16396	5.98363	6.24328	4.60209	5.6095	4.3354	-1.929142881	-0.94796	1.929142881	Down	0.041562048	0.930859211
23673	STX12	Syntaxin 12	6.151164	6.40199	6.92553	6.0453	4.76093	6.01404	-1.848425204	-0.886296667	1.848425204	Down	0.045739966	0.930859211
9330	GTF3C3	General transcription factor IIIC subunit 3	4.52529	4.1934	4.78679	3.84184	3.76327	3.91703	-1.58130245	-0.661113333	1.581302445	Down	0.004373336	0.930859211
445571	CBWD3	COBW domain containing 3	4.45212	3.86237	4.15271	3.71574	3.32172	3.19774	-1.674812975	-0.744	1.674812975	Down	0.005346182	0.930859211

Table SV. DEGs in comparison V.

Entry	Gene symbol	Gene name	A109551	A109556	A109557	A109558	A109560	A109563	Fold-change	logFC	absoluteFC	Regulation	P-value	FDR
30846	EHD2	EH domain containing 2	5.93408	6.78377	6.46231	8.22787	7.72344	6.70535	2.23276797	1.158833333	2.23276797	Up	0.025642172	0.663327404
23743	BHMT2	Bine--homocysteine S-methyltransferase 2	3.52481	4.01604	4.15429	5.54651	4.49426	4.59435	1.972456294	0.979993333	1.972456294	Up	0.016650143	0.663327404
729230	CCR2	Chemokine (C-C motif) receptor 2	4.52296	5.20992	4.48186	5.65436	5.20666	5.34245	1.583272959	0.66291	1.583272959	Up	0.02879725	0.663327404
221303	FAM162B	Family with sequence similarity 162 member B	4.56661	5.69016	5.1833	6.5702	7.2855	6.20509	2.908428827	1.54024	2.908428827	Up	0.004186081	0.663327404
2313	FLI1	Fli-1 proto-oncogene, ETS transcription	3.7486	4.2752	4.7669	5.7217	5.5562	4.6667	2.0723964	1.0513	2.07239	Up	0.02096	0.66332

		factor	7	2	6		9	6	25		6425		3825	7404
4082	MARCKS	Myristoylated alanine-rich protein kinase C substrate	5.943321	6.5451	6.74067	7.55998	7.02929	7.12433	1.775476994	0.828206667	1.775476994	Up	0.015216286	0.663327404
22861	NLRP1	NLR family, pyrin domain containing 1	5.828803	6.953955	6.008444	8.257055	7.539222	6.548788	2.273439586	1.184876667	2.273439586	Up	0.042296731	0.663327404
6928	HNF1B	HNF1 homeobox B	10.52179	10.21373	10.20477	9.428864	9.979972	9.73519	-1.514575328	-0.598913333	1.514575328	Down	0.017968453	0.663327404
6348	CCL3	Chemokine (C-C motif) ligand 3	5.618788	6.182777	5.731688	6.221511	6.458011	7.512311	1.848301356	0.8862	1.848301356	Up	0.041151801	0.663327404
2160	F11	Coagulation factor XI	8.532332	7.834955	8.211655	5.499011	6.424443	7.584745	-3.227111294	-1.690243333	3.227111294	Down	0.011708839	0.663327404
1133	PHB2	Prohibitin 2	7.86	7.53	8.29	9.18	8.21	8.55	1.6839	0.7518	1.683	Up	0.042	0.663

1			689	755	626	349	437	851	97504	9	997504		198944	327404
9435	CHST2	Carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2	3.549939	3.841137	3.794457	4.628333	5.105977	3.948566	1.78078087	0.83251	1.78078087	Up	0.022149859	0.663327404
29902	FAM216A	Family with sequence similarity 216 member A	3.4586	4.25218	3.96985	5.28988	4.63208	4.18025	1.749804003	0.807193333	1.749804003	Up	0.039885045	0.663327404
100533181	FXYD6-FXYD2	FXYD6-FXYD2 readthrough	4.87029	7.22804	6.08076	8.39005	7.30876	7.40829	3.122431668	1.64267	3.122431668	Up	0.027614075	0.663327404
23129	PLXND1	Plexin D1	5.7599	6.5885	6.38153	7.82275	7.57253	6.44159	2.050032337	1.035646667	2.050032337	Up	0.034935535	0.663327404
55084	SOBP	Sine oculis binding protein homolog	3.38423	4.3301	3.86127	4.671	4.33282	4.94219	1.729238266	0.790136667	1.729238266	Up	0.022057047	0.663327404
79	PVRI	Poliovirus receptor	5.	6.	6.	5.	5.	5.	-1.	-0.	1.5	D	0.0	0.6

037	G	related immunoglobulin domain containing	58911	09271	20453	3507	32377	43316	508282497	592906667	08282497	own	20472617	63327404
10590	SCGN	Secretagogin, EF-hand calcium binding protein	4.80438	4.44612	4.94837	6.66517	6.20309	5.27051	2.48509327	1.3133	2.48509327	Up	0.007705726	0.663327404
54972	TMEM132A	Transmembrane protein 132A	4.85073	4.9295	5.04902	6.57448	6.13306	5.05006	1.967163221	0.976116667	1.967163221	Up	0.033419855	0.663327404
140733	MACROD2	MACRO domain containing 2	6.09068	4.92298	5.22787	3.79917	4.53369	4.93613	-1.987350955	-0.990846667	1.987350955	Down	0.037073425	0.663327404
1397	CRIP2	Cysteine-rich protein 2	7.39493	6.74854	7.5013	8.20555	8.43988	7.39095	1.737729268	0.797203333	1.737729268	Up	0.045737341	0.663327404
11142	PKIG	Protein kinase (camp-dependent, catalytic) inhibitor γ	6.19651	6.56689	6.43927	7.93407	6.84597	6.78099	1.724430518	0.78612	1.724430518	Up	0.046257457	0.663327404

290	ANPEP	Alanyl (membrane) aminopeptidase	12.922282	12.5612	12.6004	11.15374	11.5771	12.55534	-1.9089068	-0.932746667	1.9089068	Down	0.031508004	0.663327404
28299	IGKV1-5	Immunoglobulin κ variable 1-5	6.19851	6.53611	6.32501	6.74641	9.73041	9.47332	4.91379158	2.296836667	4.91379158	Up	0.016974436	0.663327404
65012	SLC26A10	Solute carrier family 26, member 10	4.51282	5.06983	4.28626	6.56418	5.28201	5.1978	2.082562799	1.05836	2.082562799	Up	0.032835807	0.663327404
57677	ZFP14	ZFP14 zinc finger protein	5.47751	4.72046	5.39739	4.43537	4.255	4.73764	-1.649981673	-0.72245	1.649981673	Down	0.021215297	0.663327404
348094	ANKDD1A	Ankyrin repeat and death domain containing 1A	3.63372	4.30655	4.09331	5.34007	4.77323	4.19902	1.692997684	0.75958	1.692997684	Up	0.045337244	0.663327404
64377	CHST8	Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 8	5.31405	5.371	6.1238	3.81696	5.26386	4.48414	-2.11593699	-1.081296667	2.1159369	Down	0.0286564	0.6633274

											9		06	04
51309	ARMCX1	Armadillo repeat containing, X-linked 1	6.63257	7.07069	7.41379	7.91699	7.92866	7.42603	1.645139588	0.71821	1.645139588	Up	0.024913933	0.663327404
85477	SCIN	Scinderin	6.74702	5.92381	6.27763	5.03642	3.94505	6.09423	-2.446840397	-1.29092	2.446840397	Down	0.042035024	0.663327404
4929	NR4A2	Nuclear receptor subfamily 4 group A member 2	3.20731	3.70235	3.50748	4.69032	7.52465	5.16891	5.001104208	2.32246667	5.001104208	Up	0.011274463	0.663327404
57662	CAMSAP3	Calmodulin regulated spectrin associated protein family member 3	7.48952	7.04809	7.17271	5.76232	6.55936	6.9557	-1.754402776	-0.81098	1.754402776	Down	0.036810071	0.663327404
84833	USMG5	Up-regulated during skeletal muscle growth 5 homolog (mouse)	6.23633	4.12545	5.93438	3.84923	3.93157	4.3924	-2.592456892	-1.37432	2.592456892	Down	0.035323983	0.663327404
51237	MZB1	Marginal zone B and B1 cell-specific	3.3212	3.4361	3.1519	3.2297	5.0436	4.8895	2.1206452	1.0845033	2.12064	Up	0.04844	0.66332

		protein	7	5	3	2	4		97	33	5297		9819	7404
5870	RAB6A	RAB6A, member RAS oncogene family	3.747726	2.926601	3.455547	3.900013	4.239964	4.290003	1.70175105	0.76702	1.70175105	Up	0.011796962	0.663327404
10055	SAE1	SUMO1 activating enzyme subunit 1	6.50192	6.35683	6.72784	7.53087	6.89757	7.22707	1.612881001	0.68964	1.612881001	Up	0.013997956	0.663327404
55701	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40	7.1085	6.64748	6.65675	5.40833	6.0919	6.2524	-1.84894204	-0.8867	1.84894204	Down	0.012486386	0.663327404
56146	PCDHA2	Protocadherin α 2	7.442209	7.734452	6.912929	6.5369	6.831182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
57210	SLC45A4	Solute carrier family 45, member 4	7.79953	7.53657	7.55248	6.59494	7.0351	7.32645	-1.562688255	-0.64403	1.562688255	Down	0.022643214	0.663327404
9444	QKI	QKI, KH domain containing, RNA	3.35	3.30	3.73	4.87	3.97	4.15	1.8279	0.8702	1.827	Up	0.011	0.663

		binding	241	778	176	619	29	361	79638	5	979638		025869	327404
659	BMPR2	Bone morphogenetic protein receptor type II	7.63083	7.63127	7.7927	8.89104	8.33539	7.82349	1.585612235	0.66504	1.585612235	Up	0.045010561	0.663327404
5156	PDGFRA	Platelet-derived growth factor receptor, α polypeptide	6.29716	6.94493	7.57131	8.81067	8.21188	7.89338	2.580248471	1.36751	2.580248471	Up	0.007733317	0.663327404
254827	NAALADL2	N-acetylated α-linked acidic dipeptidase-like 2	5.51384	4.85469	5.18524	4.39981	4.16668	4.58947	-1.740220357	-0.79927	1.740220357	Down	0.006793012	0.663327404
57453	DSCAML1	Down syndrome cell adhesion molecule like 1	6.87821	6.03808	6.15593	4.22579	4.1879	5.23009	-3.50515927	-1.80948	3.50515927	Down	0.001326334	0.663327404
7273	TTN	Titin	9.30067	8.80383	8.75494	5.70971	5.9017	8.58558	-4.661572376	-2.220816667	4.661572376	Down	0.018354332	0.663327404
65	ZDH	Zinc finger,	8.	7.	7.	4.	5.	7.	-3.	-1.	3.6	D	0.0	0.6

3082	HC11B	DHHC-type containing 11B	42054	32922	20324	87691	43647	09461	600847913	848336667	00847913	own	17486804	63327404
51701	NLK	Nemo-like kinase	7.89623	7.6212	7.82841	6.21266	6.858	7.36672	-1.958143733	-0.969486667	1.958143733	Down	0.013188152	0.663327404
85358	SHANK3	SH3 and multiple ankyrin repeat domains 3	7.11227	7.71073	7.50326	8.67102	9.49258	7.52951	2.176912369	1.122283333	2.176912369	Up	0.048330844	0.663327404
51540	SCLY	Selenocysteine lyase	7.20044	6.87821	6.83107	5.83972	6.29987	6.66582	-1.626123315	-0.701436667	1.626123315	Down	0.023836395	0.663327404
224	ALDH3A2	Aldehyde dehydrogenase 3 family member A2	10.55744	10.38631	10.78413	9.02122	9.50772	10.43581	-1.893484135	-0.921043333	1.893484135	Down	0.034050208	0.663327404
56138	PCDHA11	Protocadherin α 11	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404

5557	PRIM1	Primase, DNA, polypeptide 1 (49kda)	4.35042	4.24361	4.89676	5.49819	5.17564	4.83376	1.593574721	0.672266667	1.593574721	Up	0.028577933	0.663327404
309	ANXA6	Annexin A6	5.79605	7.67435	6.61311	9.09483	7.6993	7.51653	2.655622352	1.40905	2.655622352	Up	0.043721134	0.663327404
7060	THBS4	Thrombospondin 4	3.98859	4.72061	4.07819	5.31302	5.10634	4.55317	1.656777654	0.72838	1.656777654	Up	0.031759466	0.663327404
4175	MCM6	Minichromosome maintenance complex component 6	4.12807	4.34511	4.93932	6.07499	5.89068	5.04961	2.29887284	1.200926667	2.29887284	Up	0.007923899	0.663327404
10186	LHFP	Lipoma HMGIC fusion partner	5.36281	7.19772	7.34121	9.30276	8.11638	7.35941	3.085711822	1.625603333	3.085711822	Up	0.042718983	0.663327404
55909	BIN3	Bridging integrator 3	9.54018	9.13293	9.16296	8.76035	8.62886	8.64487	-1.516413634	-0.600663333	1.5164136	Down	0.0095017	0.6633274

											34		26	04
783	CACNB2	Calcium channel, voltage-dependent, β 2 subunit	3.45185	4.18193	3.87838	6.07699	4.7817	5.42662	3.012685343	1.59105	3.012685343	Up	0.0024874428	0.66327404
26515	TIMM10B	Translocase of inner mitochondrial membrane 10 homolog B (yeast)	7.07116	6.98471	6.98348	6.04239	6.23675	6.50999	-1.68187832	-0.750073333	1.68187832	Down	0.0035142777	0.66327404
2353	FOS	FBJ murine osteosarcoma viral oncogene homolog	10.18425	7.62655	10.67133	11.21935	12.11366	11.55975	4.398088597	2.136876667	4.398088597	Up	0.024823689	0.66327404
4675	NAP1L3	Nucleosome assembly protein 1-like 3	3.11532	3.67015	3.29805	5.19539	4.21432	3.96056	2.136994705	1.095583333	2.136994705	Up	0.012205355	0.66327404
9638	FEZ1	Fasciculation and elongation protein zeta 1	4.05345	4.813	3.98494	5.41048	5.16522	4.5523	1.692164707	0.75887	1.692164707	Up	0.040842907	0.66327404
91120	ZNF682	Zinc finger protein 682	5.8088	5.6916	5.7845	4.5620	5.2574	5.3235	-1.640421	-0.714066	1.64042	Dow	0.01683	0.6632

			9	8	6	1		2	624	667	1624	n	5458	7404
56999	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif 9	5.67195	6.60736	6.13778	7.75202	8.52314	6.42953	2.692973438	1.4292	2.692973438	Up	0.029281132	0.663327404
11170	FAM107A	Family with sequence similarity 107 member A	3.88703	4.1661	4.10077	5.01903	6.46198	4.31838	2.32167066	1.215163333	2.321670666	Up	0.0440143	0.663327404
11108	PRDM4	PR domain containing 4	7.40741	7.27351	6.96318	6.28796	6.73745	6.68938	-1.561684837	-0.643103333	1.561684837	Down	0.015304706	0.663327404
157503	LOC157503	Uncharacterized LOC157503	3.31835	3.13104	3.02109	4.03318	5.04561	3.53363	2.06667758	1.047313333	2.066667758	Up	0.021664189	0.663327404
3620	IDO1	Indoleamine 2,3-dioxygenase 1	3.85962	3.66033	4.17083	4.82658	4.81814	4.48483	1.756767577	0.812923333	1.756767577	Up	0.002792778	0.663327404
2851	DLL1	Δ-like 1 (*Drosophila*)	4.69	5.29	4.85	7.30	7.33	6.03	3.8439	1.9425	3.843	Up	0.001	0.663

4			604	332	255	022	424	519	245	8	9245		294613	327404
116039	OSR2	Odd-skipped related transciption factor 2	4.06668	3.64314	3.928	5.02945	4.54843	4.15361	1.622130625	0.69789	1.622130625	Up	0.022937078	0.663327404
109923	SUB1	SUB1 homolog, transcriptional regulator	4.27197	4.0926	4.42711	5.39002	4.43803	4.76434	1.515965232	0.600236667	1.515965232	Up	0.049405234	0.663327404
289984	RGCC	Regulator of cell cycle	5.17542	5.62706	6.13275	7.28237	8.56192	6.08313	3.169078361	1.664063333	3.169078361	Up	0.026765569	0.663327404
2530	FUT8	Fucosyltransferase 8 (α (1,6) fucosyltransferase)	5.86043	6.17292	5.70427	7.33935	7.27148	5.97212	1.929789293	0.948443333	1.929789293	Up	0.040471653	0.663327404
7057	THBS1	Thrombospondin 1	5.86543	7.9909	6.48339	10.95607	8.66347	8.17966	5.604141307	2.486493333	5.604141307	Up	0.018519861	0.663327404
83	TMT	Transmembrane	4.	5.	5.	6.	6.	5.	2.4	1.2	2.4	U	0.0	0.6

857	C1	and tetratricopeptide repeat containing 1	67911	54345	044	7403	86421	53905	49238614	92333333	49238614	p	1366854	63327404
2012	EMP1	Epithelial membrane protein 1	3.902227	3.325549	3.916144	5.481116	5.498366	4.592235	2.781744662	1.47599	2.781744662	Up	0.001514633	0.663327404
56141	PCDHA7	Protocadherin α 7	7.442209	7.734522	6.912929	6.5369	6.838182	6.803111	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
56140	PCDHA8	Protocadherin α 8	7.442209	7.734522	6.912929	6.5369	6.838182	6.803111	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
11332	ACOT7	Acyl-coa thioesterase 7	5.982188	6.493332	6.046332	7.675744	7.350733	6.373332	1.944397701	0.959323333	1.944397701	Up	0.028340184	0.663327404
10581	IFITM2	Interferon induced transmembrane protein 2	7.6736	8.568488	8.885561	10.20115	9.998836	8.519922	2.29264556	1.197013333	2.29264556	Up	0.049001128	0.663327404

4092	SMAD7	SMAD family member 7	3.80076	4.63342	4.50707	6.94998	5.306	4.9589	2.684295192	1.424543333	2.684295192	Up	0.028767356	0.66327404
144581	RPL14P1	Ribosomal protein L14 pseudogene 1	10.76129	10.40169	10.93275	11.60778	11.2384	11.09242	1.53080445	0.61429	1.53080445	Up	0.021889454	0.66327404
5634	PRPS2	Phosphoribosyl pyrophosphate synthetase 2	7.04611	7.28947	7.39746	8.36154	7.78989	7.78736	1.664685913	0.73525	1.664685913	Up	0.010928468	0.66327404
570	BAAT	Bile acid-coa:amino acid N-acyltransferase	10.42183	10.30716	10.09821	8.69589	8.60254	9.8917	-2.317158395	-1.212356667	2.317158395	Down	0.010155685	0.66327404
23464	GCAT	Glycine C-acetyltransferase	6.97459	7.01757	7.07412	6.38793	5.95236	6.91588	-1.519261276	-0.60337	1.519261276	Down	0.048533426	0.66327404
64423	INF2	Inverted formin, FH2 and WH2 domain containing	8.74299	8.44913	8.25537	7.3759	8.1117	7.88043	-1.616813568	-0.693153333	1.6168135	Down	0.0228552	0.663274

											68		87	04
8645	KCNK5	Potassium channel, two pore domain subfamily K, member 5	10.81714	10.36254	10.70655	9.40115	9.90486	10.30334	-1.692270273	-0.75896	1.692270273	Down	0.02168967	0.663327404
182	JAG1	Jagged 1	3.91343	3.31219	4.21692	6.49208	5.40509	4.25981	2.972094524	1.57148	2.972094524	Up	0.022615132	0.663327404
6692	SPINT1	Serine peptidase inhibitor, Kunitz type 1	9.83619	9.53206	9.27179	8.37251	8.78452	9.22252	-1.685873943	-0.753496667	1.685873943	Down	0.022922831	0.663327404
6003	RGS13	Regulator of G-protein signaling 13	3.53892	4.12144	3.3401	4.56845	4.69965	4.60694	1.942875335	0.958193333	1.942875335	Up	0.002608853	0.663327404
56899	ANKS1B	Ankyrin repeat and sterile α motif domain containing 1B	5.81935	5.54496	4.80199	4.12533	4.62584	4.91493	-1.781879775	-0.8334	1.781879775	Down	0.033098514	0.663327404
2	A2M	A-2-macroglobulin	8.8674	10.497	10.069	11.696	11.394	10.927	2.8836978	1.52792	2.88369	Up	0.00883	0.66332

			4		7	44	39	07	32		7832		2837	7404
4627	MYH9	Myosin, heavy chain 9, non-muscle	6.87017	6.5383	7.0571	7.99505	7.1943	7.22213	1.567686047	0.648636667	1.567686047	Up	0.045715308	0.663327404
1286	COL4A4	Collagen, type IV, α 4	7.55296	7.08991	7.08923	6.41008	6.20904	6.82979	-1.694739266	-0.761063333	1.694739266	Down	0.012407036	0.663327404
389136	VGLL3	Vestigial like family member 3	3.50211	4.82958	4.21737	6.26282	4.85504	4.97513	2.267826074	1.18131	2.267826074	Up	0.038179341	0.663327404
1289	COL5A1	Collagen, type V, α 1	5.14939	7.14919	5.88799	9.61962	7.11221	7.09945	3.684758327	1.88157	3.684758327	Up	0.047338333	0.663327404
79623	GALNT14	Polypeptide N-acetylgalactosaminyltransferase 14	5.92634	5.6966	5.3716	3.31835	5.30953	4.37242	-2.516490817	-1.331413333	2.516490817	Down	0.024997828	0.663327404
4804	NGFR	Nerve growth factor receptor	4.56	5.08	4.83	5.70	5.80	5.03	1.6156	0.6921	1.615	Up	0.028	0.663

			024	121	325	427	901	774	41004	06667	641004		360145	327404
8481	OFD1	Oral-facial-digital syndrome 1	8.23833	8.20417	7.77107	7.00126	7.2509	7.44608	-1.788119721	-0.838443333	1.788119721	Down	0.004402909	0.663327404
56145	PCDHA3	Protocadherin α 3	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.0031816486	0.663327404
7010	TEK	TEK tyrosine kinase, endothelial	4.54226	5.20051	5.23904	7.11552	7.43462	5.5331	3.250083236	1.700476667	3.250083236	Up	0.010893032	0.663327404
3912	LAMB1	Laminin subunit β 1	7.83615	8.0581	7.44674	9.2477	9.22031	8.11606	2.11554103	1.081026667	2.11554103	Up	0.015580912	0.663327404
5592	PRKG1	Protein kinase, cgmp-dependent, type I	4.2521	4.69279	3.46	6.63627	5.10503	4.80923	2.606077522	1.38188	2.606077522	Up	0.033040931	0.663327404
12	MBO	Membrane bound	4.	4.	4.	5.	5.	4.	1.7	0.7	1.7	U	0.0	0.6

9642	AT2	O-acyltransferase domain containing 2	75058	46564	67501	85562	69776	70625	28435379	89466667	28435379	p	36975461	63327404
55681	SCYL2	SCY1-like, kinase-like 2	8.47324	7.84438	8.07719	7.13334	7.59919	7.74968	-1.555667062	-0.637533333	1.555667062	Down	0.032678821	0.663327404
55902	ACSS2	Acyl-coa synthetase short-chain family member 2	8.7602	8.6717	8.44943	7.71995	8.00389	8.19523	-1.57361942	-0.654086667	1.57361942	Down	0.009544391	0.663327404
9465	AKAP7	A-kinase anchoring protein 7	8.93662	8.77888	9.37424	7.51548	7.90271	8.1035	-2.280499731	-1.18935	2.280499731	Down	0.001331155	0.663327404
8857	FCGBP	Fc fragment of igg binding protein	13.22012	13.12621	13.29794	11.62853	13.17297	11.37126	-2.230195217	-1.15717	2.230195217	Down	0.035015586	0.663327404
23370	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18	9.65594	9.41049	9.49198	8.50998	8.73755	9.23238	-1.616454987	-0.692833333	1.616454987	Down	0.015020776	0.663327404

3576	CXCL8	Chemokine (C-X-C motif) ligand 8	4.265597	4.620096	4.444476	5.672276	7.060045	4.600053	2.521035907	1.34016667	2.521035907	Up	0.048232384	0.663327404
22949	PTGR1	Prostaglandin reductase 1	10.70351	9.7372	10.4829	8.65173	9.06203	10.11585	-2.043912355	-1.031333333	2.043912355	Down	0.042930643	0.663327404
8761	PABPC4	Poly(A) binding protein, cytoplasmic 4 (inducible form)	6.023833	6.029833	6.630044	7.993301	6.843304	6.819	1.986804611	0.99045	1.986804611	Up	0.027700933	0.663327404
4074	M6PR	Mannose-6-phosphate receptor (cation dependent)	7.233335	6.836691	7.508889	8.017774	7.648445	7.7793	1.539128124	0.622113333	1.539128124	Up	0.024334308	0.663327404
57604	KIAA1456	KIAA1456	7.595598	7.014484	7.498867	5.469941	6.437668	7.07757	-2.058523616	-1.04161	2.058523616	Down	0.036141857	0.663327404
26508	HEYL	Hes-related family bhlh transcription factor with YRPW motif-like	3.318355	4.339277	3.983255	5.589111	5.988044	4.495777	2.784368194	1.47735	2.7843681	Up	0.0100800	0.6633274

											94		6	04
22873	DZIP1	DAZ interacting zinc finger protein 1	4.16863	5.06846	4.45812	6.34438	5.97899	5.02046	2.323350261	1.216206667	2.323350261	Up	0.01540546	0.663327404
51285	RASL12	RAS-like, family 12	4.31433	6.26035	5.04587	7.51237	6.66071	6.40608	3.1445858	1.65287	3.1445858	Up	0.015010104	0.663327404
407977	TNFSF12-TNFSF13	TNFSF12-TNFSF13 readthrough	10.73666	10.37599	11.08084	10.03984	9.86361	10.3486	-1.566067793	-0.647146667	1.566067793	Down	0.025138439	0.663327404
401474	SAMD12	Sterile α motif domain containing 12	8.76541	8.75408	8.66809	7.79264	8.15632	8.41329	-1.524613265	-0.608443333	1.524613265	Down	0.016293989	0.663327404
10913	EDAR	Ectodysplasin A receptor	4.96274	5.43955	5.20407	6.18654	5.96367	5.53142	1.615249095	0.691756667	1.615249095	Up	0.017560035	0.663327404
3992	FADS1	Fatty acid desaturase 1	4.8579	6.3415	5.3568	7.0295	6.7809	5.9511	2.0971160	1.0684066	2.09711	Up	0.04320	0.66332

			1	9	8	1	9		02	67	6002		4104	7404
79647	AKIRIN1	Akirin 1	8.29903	7.5971	7.65722	6.85912	7.3345	7.31694	-1.60317287	-0.68093	1.60317287	Down	0.028707905	0.663327404
101117	ENAM	Enamelin	6.99832	6.26626	6.75779	4.96192	5.24548	6.53872	-2.131816607	-1.092083333	2.131816607	Down	0.036735297	0.663327404
7052	TGM2	Transglutaminase 2	3.09167	3.56225	2.92497	5.6669	4.42916	3.6305	2.607300136	1.382556667	2.607300136	Up	0.023861611	0.663327404
1948	EFNB2	Ephrin-B2	5.01991	5.19358	5.39676	8.54138	7.68174	5.91759	4.521558094	2.17682	4.521558094	Up	0.008749481	0.663327404
10606	PAICS	Phosphoribosylaminoimidazole carboxylase; phosphoribosylaminoimidazolesuccinocarboxamide synthase	6.17601	5.77132	6.39986	6.62761	6.90333	6.59062	1.506767339	0.591456667	1.506767339	Up	0.025951065	0.663327404

8667	EIF3H	Eukaryotic translation initiation factor 3 subunit H	8.22777	7.42128	8.41214	9.33867	8.35846	8.93247	1.810184397	0.856136667	1.810184397	Up	0.040995694	0.663327404
1880	GPR183	G protein-coupled receptor 183	2.829033	4.4303	4.00065	5.51695	4.88243	4.7368	2.44878594	1.292066667	2.44878594	Up	0.017927705	0.663327404
64853	AIDA	Axin interactor, dorsalization associated	4.94218	4.7111	5.56343	5.62924	5.62979	5.84472	1.546506968	0.629013333	1.546506968	Up	0.034402368	0.663327404
55020	TTC38	Tetratricopeptide repeat domain 38	8.634333	8.264722	8.4279	7.615589	7.230688	8.363088	-1.631011175	-0.705766667	1.631011175	Down	0.049104412	0.663327404
3397	ID1	Inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	8.42794	6.81584	7.01724	8.93606	10.83162	8.87358	4.367315227	2.126746667	4.367315227	Up	0.012050822	0.663327404
57631	LRCH2	Leucine-rich repeats and calponin homology (CH) domain	3.32102	3.11472	3.00157	5.03894	4.17522	3.7415	2.254462219	1.172783333	2.2544622	Up	0.0071665	0.6633274

		containing 2									19		95	04
3418	IDH2	Isocitrate dehydrogenase 2 (NADP+), mitochondrial	6.57836	6.58204	5.9644	5.82775	5.67633	5.81309	-1.518390986	-0.602543333	1.518390986	Down	0.024431449	0.663327404
8869	ST3GAL5	ST3 β-galactoside α-2,3-sialyltransferase 5	9.32081	8.75688	9.18706	7.4373	8.4249	8.80491	-1.822450968	-0.86588	1.822450968	Down	0.047029696	0.663327404
91624	NEXN	Nexilin (F actin binding protein)	3.51857	6.17669	4.35728	8.59107	5.96814	6.28019	4.797512837	2.262286667	4.797512837	Up	0.035648668	0.663327404
401494	HACD4	3-hydroxyacyl-coa dehydratase 4	3.66577	5.1201	4.0774	6.3145	5.80474	4.73855	2.516653624	1.331506667	2.516653624	Up	0.031262789	0.663327404
5178	PEG3	Paternally expressed 3	4.75647	5.83866	5.7556	6.16686	6.22533	6.31055	1.721902355	0.784003333	1.721902355	Up	0.033826598	0.663327404
58494	JAM2	Junctional adhesion molecule 2	4.0412	5.0501	5.1689	7.0020	6.8266	5.1553	2.9785289	1.5746	2.97852	Up	0.02197	0.66332

			8	1	1	2	9	9	88		8988		6485	7404
55256	ADI1	Acireductone dioxygenase 1	11.78837	11.66087	11.7582	11.002	10.53033	11.5486	-1.6344856	-0.708836667	1.63448456	Down	0.028406449	0.663327404
158584	FAAH2	Fatty acid amide hydrolase 2	6.217778	6.217778	6.133366	5.401944	5.572422	5.566667	-1.597773973	-0.676063333	1.597773973	Down	0.002321571	0.663327404
57538	ALPK3	A kinase 3	6.340886	5.543445	5.636651	4.475779	5.472788	4.950688	-1.832555214	-0.873856667	1.832555214	Down	0.028625677	0.663327404
23208	SYT11	Synaptotagmin 11	4.009004	5.435722	4.176445	6.858871	6.158555	4.837099	2.659300235	1.411046667	2.659300235	Up	0.044441215	0.663327404
257397	TAB3	TGF-β activated kinase 1/MAP3K7 binding protein 3	7.896627	7.010091	7.130711	6.206637	6.260445	7.051355	-1.789934341	-0.839906667	1.789934341	Down	0.036210087	0.663327404
2211	CPNE2	Copine II	6.17	6.64	6.58	7.30	7.28	6.63	1.5234	0.6073	1.523	Up	0.041	0.663

84			315	166	733	26	742	404	1253	06667	41253		541835	327404
388561	ZNF761	Zinc finger protein 761	9.21893	8.12486	9.51418	6.01268	6.63326	8.21159	-4.000406667	-2.000146667	4.000406667	Down	0.012895263	0.663327404
6403	SELP	Selectin P	5.23419	5.7142	6.26091	6.81031	7.43939	6.12101	2.075995524	1.053803333	2.075995524	Up	0.030511147	0.663327404
8379	MAD1L1	MAD1 mitotic arrest deficient-like 1 (yeast)	6.91573	6.97398	7.39275	6.05631	6.05697	6.95389	-1.668359274	-0.73843	1.668359274	Down	0.037505483	0.663327404
23120	ATP10B	Atpase, class V, type 10B	8.89027	8.84906	8.07214	6.22633	7.39493	8.27488	-2.471025673	-1.30511	2.471025673	Down	0.037506448	0.663327404
138065	RNF183	Ring finger protein 183	6.35117	6.03836	6.12003	5.87491	5.088	5.47684	-1.613212698	-0.689936667	1.613212698	Down	0.020208242	0.663327404
51	RAB	RAB6B, member	3.	4.	4.	5.	5.	4.	1.6	0.7	1.6	U	0.0	0.6

560	6B	RAS oncogene family	99172	66603	39376	11663	50758	54261	30261428	05103333	30261428	p	42872238	63327404
55729	ATF7IP	Activating transcription factor 7 interacting protein	4.70407	4.69348	4.48467	5.29102	5.30326	5.26726	1.579834391	0.659773333	1.579834391	Up	0.002021955	0.663327404
7453	WARS	Tryptophanyl-trna synthetase	3.71396	2.96727	3.80393	4.21953	4.47361	4.22714	1.755286668	0.811706667	1.755286668	Up	0.010449656	0.663327404
389432	SAMD5	Sterile α motif domain containing 5	8.22409	7.95497	7.27312	6.82738	6.69831	7.50701	-1.748955198	-0.806493333	1.748955198	Down	0.038463271	0.663327404
2022	ENG	Endoglin	4.49172	6.11802	5.65714	7.33908	7.61147	6.52425	3.331041512	1.735973333	3.331041512	Up	0.007097954	0.663327404
57502	NLGN4X	Neuroligin 4, X-linked	3.13037	3.81191	3.24538	5.08955	6.12566	4.17942	3.33031044	1.735656667	3.33031044	Up	0.007479639	0.663327404

10580	SORBS1	Sorbin and SH3 domain containing 1	7.27566	8.76247	8.14098	10.79334	8.58166	9.37183	2.873030549	1.522573333	2.873030549	Up	0.039351951	0.663327404
23022	PALLD	Palladin, cytoskeletal associated protein	6.84864	8.65776	7.27541	10.27004	8.52919	8.46734	2.818485216	1.49492	2.818485216	Up	0.047343779	0.663327404
1465	CSRP1	Cysteine and glycine rich protein 1	6.18926	7.1774	6.50448	9.39442	7.18457	7.86756	2.878139794	1.525136667	2.878139794	Up	0.029066977	0.663327404
84225	ZMYND15	Zinc finger, MYND-type containing 15	6.79405	7.2196	6.52412	5.89416	6.24505	6.19243	-1.664832076	-0.735376667	1.664832076	Down	0.013006936	0.663327404
3784	KCNQ1	Potassium channel, voltage gated KQT-like subfamily Q, member 1	9.55646	9.32729	9.22067	8.62507	8.51612	9.07723	-1.546135401	-0.628666667	1.546135401	Down	0.016688279	0.663327404
23423	TMED3	Transmembrane p24 trafficking protein 3	7.35682	6.85428	7.8161	8.25647	7.92007	7.87772	1.597356871	0.675686667	1.5973568	Up	0.0389425	0.6633274

											71		4	04
653635	WASH7P	WAS protein family homolog 7 pseudogene	8.71932	8.39441	7.93592	7.33688	7.98365	7.7407	-1.583159561	-0.662806667	1.583159561	Down	0.038999513	0.663327404
63982	ANO3	Anoctamin 3	9.40961	8.41355	9.02573	7.08123	6.46191	8.5911	-2.972238735	-1.57155	2.972238735	Down	0.023103308	0.663327404
5819	PVRL2	Poliovirus receptor-related 2 (herpesvirus entry mediator B)	9.94557	9.49946	9.34618	8.30371	9.03701	9.23605	-1.668031654	-0.738146667	1.668031654	Down	0.036699408	0.663327404
3481	IGF2	Insulin like growth factor 2	6.765552	6.86781	7.33066	8.62012	8.74297	7.2309	2.313376368	1.21	2.313376368	Up	0.021909335	0.663327404
10457	GPNMB	Glycoprotein (transmembrane) nmb	2.80274	3.07722	3.66446	4.21382	3.37621	4.17993	1.672315052	0.741846667	1.672315052	Up	0.041541628	0.663327404
9400	RECQL5	Recq helicase-like 5	7.3604	7.7353	7.1709	6.5822	6.9489	6.7841	-1.569672	-0.650463	1.56967	Dow	0.01500	0.66332

			9	9		9	5	5	228	333	2228	n	3011	7404
25891	PAMR1	Peptidase domain containing associated with muscle regeneration 1	4.9194	5.69822	5.53828	7.69376	6.43107	6.29466	2.678075562	1.421196667	2.678075562	Up	0.009907941	0.6633274404
123606	NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1	8.409927	7.660885	7.806629	6.709297	7.014544	7.720661	-1.754017733	-0.810663333	1.754017733	Down	0.003735475	0.6633274404
276	AMY1A	Amylase, α 1A (salivary)	8.639298	8.581266	8.499993	7.491299	7.823556	8.121444	-1.695126963	-0.761393333	1.695126963	Down	0.006004873	0.6633274404
9682	KDM4A	Lysine (K)-specific demethylase 4A	7.048667	7.718559	7.102622	6.039044	6.676608	6.910889	-1.679412542	-0.747956667	1.679412542	Down	0.003661496	0.6633274404
4783	NFIL3	Nuclear factor, interleukin 3 regulated	3.953911	4.883866	4.071114	5.976605	6.288841	5.149984	2.831951713	1.501796667	2.831951713	Up	0.004294416	0.6633274404
5530	PPP3CA	Protein phosphatase 3,	6.34	6.29	6.76	7.33	7.34	6.75	1.5960	0.6744	1.596	Up	0.022	0.663

		catalytic subunit, α isozyme	684	005	906	097	462	375	02967	63333	002967		812433	327404
23136	EPB41L3	Erythrocyte membrane protein band 4.1-like 3	2.94484	2.74554	3.32827	3.69857	3.46679	3.77934	1.560508988	0.642016667	1.560508988	Up	0.007515733	0.663327404
79772	MCTP1	Multiple C2 domains, transmembrane 1	3.00467	5.07788	3.05229	6.1563	6.06221	4.55292	3.677851765	1.878863333	3.677851765	Up	0.024674286	0.663327404
28896	IGKV1D-33	Immunoglobulin κ variable 1D-33	4.13793	3.77905	4.06706	5.43043	8.05723	8.11777	9.235115471	3.20713	9.235115471	Up	0.002293251	0.663327404
57412	AS3MT	Arsenite methyltransferase	7.93687	7.81552	8.68917	5.47935	4.96837	8.19478	-3.818536992	-1.93302	3.818536992	Down	0.045456554	0.663327404
1952	CELSR2	Cadherin, EGF LAG seven-pass G-type receptor 2	7.54076	6.67527	6.58318	6.17412	6.29397	6.14432	-1.657413218	-0.728933333	1.657413218	Down	0.031172141	0.663327404
10	ZAS	ZO-2 associated	6.	6.	6.	5.	5.	6.	-1.	-0.	1.6	D	0.0	0.6

1927655	P	speckle protein	62651	38321	17946	29298	59148	02044	695166129	761426667	95166129	own	13538569	63327404
9780	PIEZO1	Piezo-type mechanosensitive ion channel component 1	7.383556	8.085554	7.524733	9.155355	8.8291	7.801877	1.90637244	0.93083	1.906372444	Up	0.0415277723	0.663327404
5366	PMAIP1	Phorbol-12-myristate-13-acetate-induced protein 1	3.321099	3.077222	2.567122	3.501455	4.4179	3.767522	1.875332833	0.907146667	1.875332833	Up	0.0145140 91	0.663327404
3240	HP	Haptoglobin	3.301488	3.695551	3.586966	4.575033	4.9179	3.982488	1.950467555	0.96382	1.950467555	Up	0.006055313	0.663327404
2736	GLI2	GLI family zinc finger 2	2.698277	3.917988	2.9058	6.018888	3.733222	4.139022	2.744144908	1.456356667	2.744144908	Up	0.048842683	0.663327404
125170	MIEF2	Mitochondrial elongation factor 2	6.837266	6.553344	6.364188	6.001055	5.820577	5.9524	-1.580360106	-0.660253333	1.580360106	Down	0.007556964	0.663327404

1281	COL3A1	Collagen, type III, α 1	6.02626	8.61683	8.06129	11.92381	9.09157	9.21889	5.696056013	2.509963333	5.696056013	Up	0.030191382	0.663327404
113612	CYP2U1	Cytochrome P450, family 2, subfamily U, polypeptide 1	3.7487	4.06114	4.14074	5.5739	4.70041	4.44232	1.89476203	0.922016667	1.89476203	Up	0.017351862	0.663327404
10157	AASS	Aminoadipate-semialdehyde synthase	8.81975	8.90233	8.03051	7.23909	7.02601	8.0351	-2.220364707	-1.150796667	2.220364707	Down	0.011874388	0.663327404
11067	C10orf10	Chromosome 10 open reading frame 10	6.13051	5.79765	6.43742	8.24824	7.23077	6.73899	2.435368355	1.28414	2.435368355	Up	0.013087292	0.663327404
80310	PDGFD	Platelet derived growth factor D	5.41291	5.20465	6.41754	6.98225	6.602	6.29769	1.930462683	0.948946667	1.930462683	Up	0.029639228	0.663327404
10659	CELF2	CUGBP, Elav-like family member 2	5.92844	6.45561	6.03105	7.04467	6.85667	6.40817	1.549142652	0.63147	1.5491426	Up	0.0303950	0.663274

											52		07	04
260030	PLEKHG3	Pleckstrin homology and rhogef domain containing G3	7.91518	7.56721	7.50716	6.73755	7.15958	7.3119	-1.508909905	-0.593506667	1.5089099905	Down	0.026704125	0.663327404
57571	CARNS1	Carnosine synthase 1	8.26466	8.1088	8.3983	5.97905	7.55544	7.67467	-2.277629893	-1.187533333	2.2776298893	Down	0.030515021	0.663327404
57523	NYNRIN	NYN domain and retroviral integrase containing	6.32077	6.34741	6.23782	5.67199	5.96421	5.28484	-1.581894442	-0.661653333	1.5818944442	Down	0.014249219	0.663327404
25953	PNKD	Paroxysmal nonkinesigenic dyskinesia	8.61183	8.16584	8.29683	7.52199	7.4971	7.67156	-1.734616414	-0.794616667	1.734616414	Down	0.002609087	0.663327404
10268	RAMP3	Receptor (G protein-coupled) activity modifying protein 3	6.23222	6.83167	6.22164	8.29453	8.31775	6.90298	2.657205858	1.40991	2.657205858	Up	0.010683707	0.663327404
55824	PAG1	Phosphoprotein membrane anchor with	7.6264	7.0832	7.3300	6.5970	6.3725	6.9659	-1.626085	-0.701403	1.62608	Dow	0.01667	0.66332

		glycosphingolipid microdomains 1	3	7	4	3	1	9	744	333	5744	n	5388	7404
23643	LY96	Lymphocyte antigen 96	4.7994	6.16703	5.98188	7.64541	7.08909	6.21779	2.52216035	1.33466	2.52216035	Up	0.025360179	0.663327404
147184	TMEM99	Transmembrane protein 99	8.409925	8.003466	8.108804	7.275244	7.542223	7.368799	-1.714946218	-0.778163333	1.714946218	Down	0.00301073	0.663327404
6330	SCN4B	Sodium channel, voltage gated, type IV β subunit	3.380046	4.531003	4.223033	5.3507	5.3507	4.306655	1.942359169	0.95781	1.942359169	Up	0.042868807	0.663327404
3026	HABP2	Hyaluronan binding protein 2	10.39833	10.37376	10.30574	8.84198	9.65064	10.16478	-1.74933913	-0.80681	1.749333913	Down	0.039637172	0.663327404
1559	CYP2C9	Cytochrome P450, family 2, subfamily C, polypeptide 9	9.69724	9.83057	9.92983	7.89211	8.61338	9.71905	-2.110668488	-1.0777	2.110668488	Down	0.039180436	0.663327404
1053	LOC1053	Uncharacterized LOC105379278	7.49	7.64	7.07	6.85	6.68	6.88	-1.511	-0.595	1.511	Do	0.018	0.663

79278	79278		636	485	385	241	844	767	010131	513333	010131	wn	43068	327404
10203	CALCRL	Calcitonin receptor like receptor	4.134555	4.73972	4.61211	6.16266	6.70343	4.65197	2.53835409	1.343893333	2.53835409	Up	0.031457337	0.663327404
84436	ZNF528	Zinc finger protein 528	5.1098	4.87838	4.88091	3.86527	4.38577	4.83675	-1.509181862	-0.593766667	1.509181862	Down	0.049859947	0.663327404
1410	CRYAB	Crystallin α B	7.28869	8.39462	7.56159	9.54038	9.39685	8.03129	2.363961708	1.241206667	2.363961708	Up	0.031210561	0.663327404
100526664	LY75-CD302	LY75-CD302 readthrough	6.911192	7.27829	7.6917	8.36372	8.28023	8.08758	1.931703049	0.949873333	1.931703049	Up	0.004114726	0.663327404
845	CASQ2	Calsequestrin 2	4.125577	4.57649	3.82972	5.37632	4.93427	5.16891	1.975895525	0.982506667	1.975895525	Up	0.003326697	0.663327404
27	AMY	Amylase, α 1C	8.	8.	8.	7.	7.	8.	-1.	-0.	1.6	D	0.0	0.6

8	1C	(salivary)	63928	58126	49993	49129	82356	12144	695126963	761393333	95126963	own	06004873	63327404
1960	EGR3	Early growth response 3	5.67633	5.37656	5.26578	6.6262	9.45732	7.51629	5.377913932	2.427046667	5.377913932	Up	0.007463626	0.663327404
2869	GRK5	G protein-coupled receptor kinase 5	5.04831	5.76668	6.0306	7.46461	6.7945	6.13578	2.270641588	1.1831	2.270641588	Up	0.019037399	0.663327404
5999	RGS4	Regulator of G-protein signaling 4	3.7042	4.88485	4.37247	7.29129	5.04494	5.19246	2.872665476	1.52239	2.872665476	Up	0.043515264	0.663327404
25854	FAM149A	Family with sequence similarity 149 member A	9.32812	8.70649	8.83568	8.06443	8.34102	8.44053	-1.596342257	-0.67477	1.596342257	Down	0.016218239	0.663327404
64943	NT5DC2	5’-nucleotidase domain containing 2	3.99873	5.18843	4.14007	7.44063	6.3425	4.84546	3.403738021	1.76712	3.403738021	Up	0.029506612	0.663327404

2778	GNAS	GNAS complex locus	9.85247	9.6599	10.55542	10.59971	10.62914	10.61973	1.509004038	0.593596667	1.509004038	Up	0.044926044	0.663327404
4171	MCM2	Minichromosome maintenance complex component 2	3.70063	3.67518	4.05523	4.28643	5.24026	4.33758	1.754520332	0.811076667	1.754520332	Up	0.021436192	0.663327404
3910	LAMA4	Laminin subunit α 4	4.834955	6.616674	5.879223	8.0331	6.753559	6.843966	2.700531419	1.433243333	2.700531419	Up	0.027844922	0.663327404
81889	FAHD1	Fumarylacetoacetate hydrolase domain containing 1	9.966632	9.409055	9.932216	8.583337	8.623375	9.2586	-1.928220448	-0.94727	1.928220448	Down	0.007110951	0.663327404
4131	MAP1B	Microtubule associated protein 1B	3.479733	5.1122	4.277533	6.931444	5.842055	4.7416	2.925216355	1.548543333	2.925216355	Up	0.038523464	0.663327404
55890	GPRC5C	G protein-coupled receptor, class C, group 5, member C	9.548869	9.198088	9.041588	7.449188	8.4924	8.775546	-2.033225176	-1.02377	2.0332251	Down	0.02264427	0.6633274

											76		79	04
345462	ZNF879	Zinc finger protein 879	5.763389	5.200663	5.492226	4.460663	4.607333	5.063382	-1.711190051	-0.775	1.711190051	Down	0.010758474	0.663327404
8463	TEAD2	TEA domain family member 2	5.241011	6.465669	5.758555	7.485514	7.6036	6.105157	2.366716115	1.242886667	2.366716115	Up	0.033803201	0.663327404
9940	DLEC1	Deleted in lung and esophageal cancer 1	4.372447	4.392022	4.2865	3.638688	3.781776	3.785011	-1.531749096	-0.61518	1.531749096	Down	0.001108489	0.663327404
10443	N4BP2L2	NEDD4 binding protein 2-like 2	9.243395	8.929978	8.6035	7.442337	7.392999	8.223066	-2.361335988	-1.239603333	2.361335988	Down	0.003132532	0.663327404
3818	KLKB1	Kallikrein B1	8.256676	7.632799	7.766899	5.654922	6.220833	7.491533	-2.693944259	-1.42972	2.693944259	Down	0.016436671	0.663327404
9464	HAND2	Heart and neural crest derivatives expressed 2	6.1012	8.6073	7.0413	10.287	9.7284	8.4216	4.6884899	2.2291233	4.68848	Up	0.01588	0.66332

			1	2	1	12	3	6	28	33	9928		5319	7404
55092	TMEM51	Transmembrane protein 51	9.44399	8.8682	8.89844	8.26081	8.31222	8.62258	-1.59291947	-0.671673333	1.59291947	Down	0.016151614	0.663327404
79838	TMC5	Transmembrane channel like 5	8.09935	7.73156	7.52751	6.80766	6.80554	7.59953	-1.64174493	-0.71523	1.64174493	Down	0.034642193	0.663327404
27295	PDLIM3	PDZ and LIM domain 3	3.273349	4.465333	3.560188	8.068788	4.389588	5.8457	5.045579581	2.35022	5.045579581	Up	0.030145372	0.663327404
51386	EIF3L	Eukaryotic translation initiation factor 3 subunit L	7.992331	7.623032	8.3974	9.458883	8.447745	8.924066	1.917469106	0.939203333	1.917469106	Up	0.018885609	0.663327404
4671	NAIP	NLR family, apoptosis inhibitory protein	5.322235	6.111152	5.770888	6.642219	6.347773	6.153144	1.564935648	0.646103333	1.564935648	Up	0.033963974	0.663327404
2311	NFASC	Neurofascin	4.30	5.80	4.87	7.94	6.01	6.17	3.2800	1.7137	3.280	Up	0.022	0.663

4			959	887	921	385	803	697	70143	26667	070143		376443	327404
27292	DIMT1	DIM1 dimethyladenosine transferase 1 homolog	6.20298	6.15677	6.53403	7.24443	6.98478	6.51454	1.533317716	0.616656667	1.533317716	Up	0.032031242	0.663327404
3092	HIP1	Huntingtin interacting protein 1	4.06684	4.47412	4.10621	5.73168	5.23047	4.3913	1.868775588	0.902093333	1.868775588	Up	0.030541828	0.663327404
7136	TNNI2	Troponin I type 2 (skeletal, fast)	10.20352	10.17803	9.09872	6.79933	7.64249	9.50616	-3.590280759	-1.844096667	3.590280759	Down	0.029573083	0.663327404
7442	TRPV1	Transient receptor potential cation channel, subfamily V, member 1	5.888856	5.8968	5.76871	5.23177	5.11956	5.35105	-1.533927185	-0.61723	1.533927185	Down	0.004103871	0.663327404
3164	NR4A1	Nuclear receptor subfamily 4 group A member 1	8.48255	6.95387	7.16755	8.83117	11.53607	9.95052	5.943296406	2.571263333	5.943296406	Up	0.008291128	0.663327404
70	TFD	Transcription	8.	8.	8.	7.	7.	8.	-1.	-0.	1.8	D	0.0	0.6

29	P2	factor Dp-2 (E2F dimerization partner 2)	61786	80785	64747	63425	31882	35562	894079212	921496667	94079212	own	11711446	63327404
440034	Dkfzp686k1684	Uncharacterized LOC440034	4.192055	4.233099	4.541611	5.9243	5.097188	4.644299	1.865643501	0.899673333	1.865643501	Up	0.025994588	0.663327404
91663	MYADM	Myeloid-associated differentiation marker	7.181162	8.077411	8.004544	9.9943	8.816614	8.427866	2.505172592	1.32491	2.505172592	Up	0.019255494	0.663327404
5138	PDE2A	Phosphodiesterase 2A	5.864556	6.7825	6.7279	7.632291	8.165833	6.824033	2.117854289	1.082603333	2.117854289	Up	0.028982876	0.663327404
3118	HLA-DQA2	Major histocompatibility complex, class II, DQ α 2	7.1646	6.85724	6.48574	7.73241	7.87646	7.13242	1.675474814	0.74457	1.675474814	Up	0.026477227	0.663327404
6366	CCL21	Chemokine (C-C motif) ligand 21	4.47669	6.62765	5.96488	7.86158	7.19605	7.18968	3.308162264	1.72603	3.308162264	Up	0.013616565	0.663327404

135656	DPCR1	Diffuse panbronchiolitis critical region 1	9.0187	8.59897	9.54945	8.01661	7.96562	8.11739	-2.031436122	-1.0225	2.031436122	Down	0.004644515	0.663327404
474344	GIMAP6	Gtpase, IMAP family member 6	4.34135	4.25829	5.14436	6.27128	6.08724	4.97358	2.291088731	1.196033333	2.291088731	Up	0.019215347	0.663327404
55620	STAP2	Signal transducing adaptor family member 2	8.08617	8.16728	8.04756	7.09814	7.45919	7.89959	-1.531236014	-0.614696667	1.531236014	Down	0.028705445	0.663327404
115123	MARCH3	Membrane associated ring-CH-type finger 3	6.83253	5.71601	6.16077	4.97255	5.03006	5.82649	-1.945404284	-0.96007	1.945404284	Down	0.028555376	0.663327404
2644	GCHFR	GTP cyclohydrolase I feedback regulator	8.67233	7.63878	8.02221	6.36907	6.93909	7.91297	-2.05252055	-1.037396667	2.05252055	Down	0.047360846	0.663327404
285440	CYP4V2	Cytochrome P450, family 4, subfamily V, polypeptide 2	5.12832	4.59583	4.23506	4.1904	4.21432	3.59689	-1.571926033	-0.652533333	1.5719260	Down	0.0482081	0.6633274

											33		91	04
155066	ATP6V0E2	Atpase, H+ transporting V0 subunit e2	8.44039	8.52286	8.13057	7.10588	7.43284	8.04059	-1.787780976	-0.83817	1.787780976	Down	0.015552491	0.663327404
9993	DGCR2	Digeorge syndrome critical region gene 2	8.18982	7.86652	8.06144	7.22577	7.39382	7.46873	-1.59824288	-0.676486667	1.59824288	Down	0.004406499	0.663327404
8496	PPFIBP1	PTPRF interacting protein, binding protein 1 (liprin β 1)	3.70968	3.8741	4.09282	5.5407	4.4708	4.15354	1.777044735	0.82948	1.777044735	Up	0.048026178	0.663327404
4496	MT1H	Metallothionein 1H	9.64143	8.88548	9.18443	7.801	5.53135	8.36562	-4.012375609	-2.004456667	4.012375609	Down	0.022574488	0.663327404
57620	STIM2	Stromal interaction molecule 2	7.21566	6.6988	7.12831	6.28041	6.02203	6.67673	-1.610899696	-0.687866667	1.610899696	Down	0.021517257	0.663327404
3293	HSD17B3	Hydroxysteroid (17-β) dehydrogenase 3	6.7036	6.5970	6.6433	4.7236	5.7588	6.2477	-2.101287	-1.071273	2.10128	Dow	0.02239	0.66332

			3	6	7	1	5	8	161	333	7161	n	3748	7404
8490	RGS5	Regulator of G-protein signaling 5	4.53388	5.28545	5.70337	8.80882	8.97192	6.64657	7.825610651	2.968203333	7.825610651	Up	0.002315253	0.663327404
1959	EGR2	Early growth response 2	4.307558	4.991553	4.096772	7.019612	7.5636	7.2093	6.959080358	2.798896667	6.959080358	Up	1.83031E-05	0.119195643
64425	POLR1E	Polymerase (RNA) I polypeptide E	4.04009	4.22335	4.53001	5.39655	4.80717	4.64459	1.607649978	0.684953333	1.607649978	Up	0.022993361	0.663327404
10966	RAB40B	RAB40B, member RAS oncogene family	8.31709	7.8822	7.94105	7.5847	7.13208	7.66055	-1.502817686	-0.58767	1.502817686	Down	0.027601783	0.663327404
283848	CES4A	Carboxylesterase 4A	3.81368	3.91562	4.10621	2.6818	3.22782	3.87863	-1.604829466	-0.68242	1.604829466	Down	0.048454021	0.663327404
2212	FCGR2A	Fc fragment of igg, low affinity iia,	5.07	6.37	5.77	6.81	6.79	6.29	1.8633	0.8979	1.863	Up	0.033	0.663

		receptor (CD32)	521	17	026	954	571	568	77528	2	377528		498937	327404
127703	C1orf216	Chromosome 1 open reading frame 216	5.55462	5.91892	5.69447	7.10564	6.33345	5.92885	1.662448905	0.73331	1.662448905	Up	0.047579875	0.663327404
342538	NACA2	Nascent polypeptide-associated complex α subunit 2	9.719055	9.299366	10.13606	10.72641	10.19168	10.20359	1.575420186	0.655736667	1.575420186	Up	0.040378897	0.663327404
9586	CREB5	Camp responsive element binding protein 5	8.181443	7.273755	7.631555	6.850996	6.805517	7.365549	-1.611461812	-0.68837	1.611461812	Down	0.042326855	0.663327404
284	ANGPT1	Angiopoietin 1	4.883177	6.667688	5.351488	7.647277	6.917776	6.649055	2.708041785	1.43725	2.708041785	Up	0.020508486	0.663327404
83539	CHST9	Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9	5.75413	4.9765	5.32766	4.208	4.66187	4.70234	-1.77607602	-0.828693333	1.77607602	Down	0.011326985	0.663327404
51	GINS	GINS complex	3.	3.	3.	4.	4.	3.	1.8	0.9	1.8	U	0.0	0.6

659	2	subunit 2 (Psf2 homolog)	08326	44977	34662	28661	81451	48071	67006133	00726667	67006133	p	26036528	63327404
3117	HLA-DQA1	Major histocompatibility complex, class II, DQ α 1	7.1646	6.85724	6.48574	7.73241	7.87646	7.13242	1.675474814	0.74457	1.675474814	Up	0.026477227	0.663327404
7538	ZFP36	ZFP36 ring finger protein	10.64728	9.81656	10.60118	10.97339	12.28788	11.26905	2.226997595	1.1551	2.226997595	Up	0.019946179	0.663327404
8848	TSC22D1	TSC22 domain family member 1	6.80835	6.43983	7.03311	7.52912	7.77926	7.79748	1.920555071	0.941523333	1.920555071	Up	0.002247797	0.663327404
969	CD69	CD69 molecule	4.11516	3.6009	4.46556	5.73168	6.20565	4.50505	2.676325024	1.420253333	2.676325024	Up	0.015145691	0.663327404
943	TNFRSF8	Tumor necrosis factor receptor superfamily member 8	4.31434	4.47967	4.15882	3.32425	3.65642	4.15882	-1.520395507	-0.604446667	1.520395507	Down	0.03024961	0.663327404

23177	CEP68	Centrosomal protein 68kda	6.94289	7.226944	7.438889	8.382258	7.961344	7.673666	1.744668976	0.802953333	1.744668976	Up	0.010997381	0.663327404
23090	ZNF423	Zinc finger protein 423	5.292205	5.784498	6.446602	7.369552	7.455581	6.054711	2.171958694	1.118996667	2.171958694	Up	0.040917643	0.663327404
667	DST	Dystonin	5.258857	5.385562	5.590503	6.266619	6.058288	5.815711	1.553102809	0.635153333	1.553102809	Up	0.010492022	0.663327404
5256	PHKA2	Phosphorylase kinase, α 2 (liver)	8.739855	8.517881	7.962833	7.440166	7.696665	8.054422	-1.59824288	-0.676486667	1.59824288	Down	0.034907041	0.663327404
155382	VPS37D	Vacuolar protein sorting 37 homolog D (S. Cerevisiae)	7.145549	6.648801	6.569968	6.011666	6.083319	6.399947	-1.540024533	-0.622953333	1.540024533	Down	0.022774013	0.663327404
28970	C11orf54	Chromosome 11 open reading frame 54	10.51057	9.75727	10.00466	8.70207	9.05928	9.63915	-1.94171752	-0.957333333	1.94171775	Down	0.01454007	0.6633274

											2		74	04
6925	TCF4	Transcription factor 4	4.512	5.70886	5.67892	7.5484	6.9616	6.17092	3.018252144	1.593713333	3.018252144	Up	0.008994654	0.663327404
23107	MRPS27	Mitochondrial ribosomal protein S27	4.7783	4.04267	4.75153	5.66053	5.00775	4.98031	1.615555149	0.69203	1.615555149	Up	0.041324847	0.663327404
6678	SPARC	Secreted protein, acidic, cysteine-rich (osteonectin)	3.73864	5.74485	5.77623	9.80911	7.38792	6.69761	7.352865865	2.878306667	7.352865865	Up	0.014094962	0.663327404
79630	C1orf54	Chromosome 1 open reading frame 54	6.91551	7.67443	7.13403	8.60089	8.21859	7.89093	1.993743755	0.99548	1.993743755	Up	0.007505572	0.663327404
1211	CLTA	Clathrin, light chain A	3.82086	4.06869	4.17881	4.69825	4.53066	4.61239	1.506269585	0.59098	1.506269585	Up	0.004487702	0.663327404
10636	RGS14	Regulator of G-protein signaling 14	7.4353	7.3191	7.6215	6.4388	6.7443	7.0126	-1.654864	-0.726713	1.65486	Dow	0.00797	0.66332

			3	5	1	3	7	5	774	333	4774	n	4051	7404
642424	IGKV1OR10-1	Immunoglobulin κ variable 1/OR10-1 (pseudogene)	5.42999	4.89863	5.48021	6.01564	9.11585	8.90337	6.690017571	2.74201	6.690017571	Up	0.009795434	0.663327404
3115	HLA-DPB1	Major histocompatibility complex, class II, DP β 1	4.96269	4.91582	7.88302	9.07234	9.36693	8.34324	8.038873416	3.006993333	8.038873416	Up	0.006560182	0.663327404
25800	SLC39A6	Solute carrier family 39 (zinc transporter), member 6	4.55479	4.44706	4.99313	6.03538	4.82597	5.50451	1.729426059	0.790293333	1.729426059	Up	0.04277524	0.663327404
79966	SCD5	Stearoyl-coa desaturase 5	6.97886	6.1151	5.40658	7.63033	7.6136	6.78204	2.258153148	1.175143333	2.258153148	Up	0.02824248	0.663327404
5444	PON1	Paraoxonase 1	4.05577	3.83537	3.51696	2.29081	3.17959	3.3775	-1.806753889	-0.8534	1.806753889	Down	0.022658339	0.663327404
1173	AP2M1	Adaptor-related protein complex 2,	8.35	8.47	8.92	9.47	9.15	9.29	1.6529	0.7250	1.652	Up	0.008	0.663

		mu 1 subunit	241	376	506	972	559	099	2737	23333	92737		666664	327404
6228	RPS23	Ribosomal protein S23	8.4904	8.99333	9.09377	9.993	9.47291	9.25792	1.641987715	0.715443333	1.641987715	Up	0.026203558	0.663327404
57801	HES4	Hes family bhlh transcription factor 4	6.00375	7.0057	6.07234	7.80932	7.18129	7.08568	1.997460075	0.998166667	1.997460075	Up	0.018962435	0.663327404
953	ENTPD1	Ectonucleoside triphosphate diphosphohydrolase 1	3.79123	5.47204	4.48591	6.60843	6.09134	5.48749	2.788250151	1.47936	2.788250151	Up	0.014928691	0.663327404
339562	IGKV1OR2-118	Immunoglobulin κ variable 1/OR2-118 (pseudogene)	5.42999	4.89863	5.48021	6.01564	9.11585	8.90337	6.690017571	2.74201	6.690017571	Up	0.009795434	0.663327404
100131541	LOC100131541	Uncharacterized LOC100131541	4.99234	5.47239	5.42643	7.16546	6.18055	5.75528	2.099496428	1.070043333	2.099496428	Up	0.021398891	0.663327404
11	CHN	Chimerin 2	7.	7.	7.	6.	6.	7.	-1.	-0.	1.8	D	0.0	0.6

24	2		67795	55515	75394	91091	23976	23801	822754167	86612	22754167	own	13695428	63327404
232231	SEL1L3	Sel-1 suppressor of lin-12-like 3 (C. Elegans)	12.03782	11.77251	11.83635	10.84753	10.97014	11.35449	-1.77133858	-0.82484	1.77133858	Down	0.002661562	0.663327404
55273	TMEM100	Transmembrane protein 100	5.597445	6.01866	6.1873	8.48468	8.78327	8.43246	6.200279851	2.632333333	6.200279851	Up	4.45457E-06	0.043854471
100423062	IGLL5	Immunoglobulin lambda-like polypeptide 5	4.55853	4.63567	4.7419	5.04929	6.59543	5.6371	2.166310438	1.1524	2.166310438	Up	0.018807832	0.663327404
140465	MYL6B	Myosin light chain 6B	5.67715	6.32466	6.05336	7.13141	6.47149	6.37599	1.559669123	0.64124	1.559669123	Up	0.047642428	0.663327404
4811	NID1	Nidogen 1	4.69832	7.80932	6.34118	9.21385	8.00463	7.62833	3.998142797	1.99933	3.998142797	Up	0.037515315	0.663327404

4439	MSH5	Muts homolog 5	7.65112	7.2602	7.30474	7.10707	6.82431	6.52804	-1.500607492	-0.585546667	1.500607492	Down	0.026586801	0.663327404
115207	KCTD12	Potassium channel tetramerization domain containing 12	5.97278	6.52104	7.11	8.8922	8.35816	7.20194	3.065579885	1.61616	3.065579885	Up	0.011012015	0.663327404
10043	TOM1	Target of myb1 membrane trafficking protein	8.188806	7.92274	7.81148	6.81128	6.97186	7.90527	-1.675536754	-0.744623333	1.675536754	Down	0.044084218	0.663327404
26353	HSPB8	Heat shock protein family B (small) member 8	5.212011	6.88988	5.18907	8.73985	6.51494	7.07201	3.201201152	1.678613333	3.201201152	Up	0.041641375	0.663327404
64710	NUCKS1	Nuclear casein kinase and cyclin-dependent kinase substrate 1	7.43189	6.29461	7.39458	8.29974	7.49123	7.99136	1.849433381	0.887083333	1.849433381	Up	0.043404697	0.663327404
203068	TUBB	Tubulin, β class I	8.212566	7.905592	8.4106	9.026691	8.68002	8.78547	1.574004865	0.65444	1.5740048	Up	0.01118071	0.6633274

											65		2	04
4739	NEDD9	Neural precursor cell expressed, developmentally down-regulated 9	4.01127	3.93064	4.49021	5.56392	5.88546	4.73851	2.381587135	1.251923333	2.381587135	Up	0.005340354	0.66327404
83483	PLVAP	Plasmalemma vesicle associated protein	4.99672	5.94708	5.69445	7.09105	7.56342	6.01803	2.539861802	1.34475	2.539861802	Up	0.016568244	0.66327404
734	OSGIN2	Oxidative stress induced growth inhibitor family member 2	6.92882	6.32617	6.80913	5.68625	6.04358	6.45074	-1.545260427	-0.62785	1.545260427	Down	0.045045333	0.66327404
56147	PCDHA1	Protocadherin α 1	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.66327404
54510	PCDH18	Protocadherin 18	4.27428	6.11499	5.92273	7.97378	6.76338	6.78986	3.336510398	1.73834	3.336510398	Up	0.016146781	0.66327404
10231	RCAN2	Regulator of calcineurin 2	3.8386	5.7116	6.0373	7.3747	6.4030	6.2950	2.8188238	1.4950933	2.81882	Up	0.04016	0.6632

			6	7	1	9	8	5	65	33	3865		2815	7404
23409	SIRT4	Sirtuin 4	4.55423	4.57934	4.62657	3.28729	4.02796	4.32432	-1.632243919	-0.706856667	1.632243919	Down	0.029246706	0.663327404
123099	DEGS2	Δ(4)-desaturase, sphingolipid 2	8.99141	9.01474	8.94877	6.83371	7.91886	8.74081	-2.225063743	-1.153846667	2.225063743	Down	0.03392318	0.663327404
94274	PPP1R14A	Protein phosphatase 1 regulatory inhibitor subunit 14A	5.92578	8.84204	6.10804	10.872	8.31191	8.6655	5.008979359	2.324516667	5.008979359	Up	0.043329971	0.663327404
6210	RPS15A	Ribosomal protein s15a	7.24462	6.63877	7.63223	8.32652	8.06632	7.73568	1.828887922	0.870966667	1.828887922	Up	0.019399312	0.663327404
100130733	LRRC70	Leucine rich repeat containing 70	3.29256	3.49992	3.4952	5.08587	5.36681	4.03284	2.637699107	1.39928	2.637699107	Up	0.003800124	0.663327404
1266	CNN3	Calponin 3, acidic	7.18	7.33	8.11	8.80	8.78	8.28	2.1135	1.0796	2.113	Up	0.007	0.663

			072	218	626	045	582	186	33042	56667	533042		210677	327404
57381	RHOJ	Ras homolog family member J	3.24186	4.11957	3.75047	5.4998	5.03257	4.19431	2.305255513	1.204926667	2.305255513	Up	0.013013866	0.663327404
80004	ESRP2	Epithelial splicing regulatory protein 2	8.80876	8.79456	8.41124	7.53472	8.19771	7.93831	-1.718647094	-0.781273333	1.718647094	Down	0.009788244	0.663327404
3725	JUN	Jun proto-oncogene	9.07763	7.94194	9.06173	9.16079	10.28355	10.17323	2.263815944	1.178756667	2.263815944	Up	0.024712842	0.663327404
5648	MASP1	Mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	6.56011	6.65797	6.78255	5.77918	5.44735	6.19714	-1.813763895	-0.858986667	1.813763895	Down	0.005865593	0.663327404
23255	MTCL1	Microtubule crosslinking factor 1	11.13356	10.69019	10.81137	9.04025	10.14372	10.389	-2.02892659	-1.020716667	2.02892659	Down	0.023425963	0.663327404

2983	GUCY1B3	Guanylate cyclase 1, soluble, β 3	7.235589	6.76196	7.17322	8.11155	8.30348	7.41727	1.849424834	0.87076667	1.8494248434	Up	0.01336387	0.66327404
116461	TSEN15	Trna splicing endonuclease subunit 15	5.3849	4.80512	5.28015	6.13926	5.47208	5.73255	1.541754795	0.624573333	1.541754795	Up	0.035356325	0.66327404
84612	PARD6B	Par-6 family cell polarity regulator β	5.647844	6.045722	5.195539	3.837877	5.093955	5.038331	-1.962836494	-0.97294	1.962836494	Down	0.038798248	0.66327404
101929829	LOC101929829	Cytochrome P450, family 2, subfamily D, polypeptide 6 pseudogene	6.310733	5.89	5.468966	5.44015	4.70028	4.76007	-1.896137168	-0.923063333	1.896137168	Down	0.015238605	0.66327404
65244	SPATS2	Spermatogenesis associated, serine rich 2	7.722044	7.123111	7.330666	6.147743	6.765722	6.893744	-1.728643055	-0.78964	1.728643055	Down	0.018582066	0.66327404
4281	MID1	Midline 1	5.647533	5.838744	4.914577	6.898851	6.147244	5.831288	1.772022186	0.825396667	1.77202221	Up	0.0495570	0.663274

											86		87	04
4772	NFATC1	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	4.31531	4.75879	4.490004	5.35014	5.46986	4.78762	1.603428475	0.68116	1.603428475	Up	0.018979419	0.663327404
113220	KIF12	Kinesin family member 12	9.09515	8.9433	9.02425	8.47395	8.01244	8.7663	-1.519226174	-0.603336667	1.519226174	Down	0.026946762	0.663327404
51409	HEMK1	Hemk methyltransferase family member 1	5.38171	5.32345	4.94475	4.46061	4.59896	4.78397	-1.517949014	-0.602123333	1.517949014	Down	0.011663581	0.663327404
80025	PANK2	Pantothenate kinase 2	5.64808	5.74519	5.64436	6.44936	6.66569	5.82479	1.551937007	0.63407	1.551937007	Up	0.031452164	0.663327404
81693	AMN	Amnion associated transmembrane protein	9.98271	9.6654	9.62185	7.33663	8.6595	9.52767	-2.376304969	-1.24872	2.376304969	Down	0.043151147	0.663327404
50810	HDGFRP3	Hepatoma-derived growth factor, related protein 3	4.1688	4.8078	4.6002	6.0080	6.3688	5.1689	2.5017656	1.3229466	2.50176	Up	0.00516	0.66332

			6	6	2	7		1	74	67	5674		9493	7404
1956	EGFR	Epidermal growth factor receptor	7.917765	7.926066	7.941337	6.720001	7.414888	7.672222	-1.579341692	-0.659323333	1.579341692	Down	0.036207417	0.663327404
4253	CTAGE5	CTAGE family member 5	8.881007	8.526533	8.998844	7.413977	7.935199	8.632999	-1.750899973	-0.808096667	1.750899973	Down	0.038528468	0.663327404
6351	CCL4	Chemokine (C-C motif) ligand 4	5.723316	6.375422	6.643445	6.6861	8.050008	7.551222	2.268580729	1.18179	2.268580729	Up	0.019158457	0.663327404
368	ABCC6	ATP binding cassette subfamily C member 6	7.429968	7.068044	7.512344	6.072664	6.388755	6.995755	-1.803717417	-0.850973333	1.803717417	Down	0.015506117	0.663327404
57617	VPS18	VPS18, CORVET/HOPS core subunit	8.151211	8.503133	7.609655	7.162699	7.397755	7.564699	-1.639156193	-0.712953333	1.639156193	Down	0.026735054	0.663327404
308	ANXA5	Annexin A5	6.18	4.97	6.92	7.78	7.10	7.13	2.4838	1.3125	2.483	Up	0.029	0.663

			303	563	73	646	39	329	2466	63333	82466		520623	327404
9507	ADAMTS4	ADAM metallopeptidase with thrombospondin type 1 motif 4	2.76352	3.517	2.93642	5.03122	6.28477	3.4609	3.61329906	1.853316667	3.613299066	Up	0.024483818	0.663327404
83987	CCDC8	Coiled-coil domain containing 8	4.07103	4.75488	4.07202	6.625	5.32178	4.70234	2.379068261	1.250396667	2.379068261	Up	0.034626694	0.663327404
22911	WDR47	WD repeat domain 47	5.52806	5.6154	5.77623	6.48367	6.30456	6.05828	1.560786639	0.642273333	1.560786639	Up	0.007994825	0.663327404
1797	DXO	Decapping exoribonuclease	5.45802	6.81726	5.52935	7.65813	7.5809	6.72777	2.616049791	1.38739	2.616049791	Up	0.013859096	0.663327404
22915	MMRN1	Multimerin 1	4.31488	5.33189	5.26922	6.7425	7.19049	6.03668	3.214423463	1.68456	3.214423463	Up	0.003048674	0.663327404
40	LRP5	LDL receptor	8.	8.	7.	7.	7.	7.	-1.	-0.	1.5	D	0.0	0.6

41		related protein 5	35322	04293	90681	12419	55938	83446	510448156	594976667	10448156	own	36412307	63327404
27242	TNFRSF21	Tumor necrosis factor receptor superfamily member 21	6.11964	5.19539	5.60798	6.65064	6.56758	5.94834	1.679288378	0.74785	1.679288378	Up	0.039571631	0.663327404
57827	C6orf47	Chromosome 6 open reading frame 47	7.33086	6.83517	6.80454	6.44834	6.33745	6.42686	-1.501051352	-0.585973333	1.501051352	Down	0.018180557	0.663327404
126	ADH1C	Alcohol dehydrogenase 1C (class I), γ polypeptide	10.43296	9.97392	11.01309	8.86581	8.95414	10.16942	-2.209214242	-1.143533333	2.209214242	Down	0.027462477	0.663327404
3249	HPN	Hepsin	9.27476	9.22389	9.10025	6.39644	6.37341	8.57847	-4.238420324	-2.083526667	4.238420324	Down	0.008110161	0.663327404
253982	ASPHD1	Aspartate β-hydroxylase domain containing 1	9.40862	8.80519	8.9578	7.73325	7.99394	8.79138	-1.845928492	-0.884346667	1.845928492	Down	0.023894384	0.663327404

164091	PAQR7	Progestin and adipoq receptor family member VII	7.20007	7.18784	6.90009	5.96824	5.6508	6.76869	-1.954441857	-0.966756667	1.954441857	Down	0.013820138	0.663327404
9806	SPOCK2	Sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	7.5872	7.23843	8.2779	5.3507	6.37522	7.45499	-2.475191247	-1.30754	2.475191247	Down	0.043525376	0.663327404
64410	KLHL25	Kelch like family member 25	6.01057	6.14035	5.77707	5.06421	5.4893	5.52421	-1.533424002	-0.616756667	1.533424002	Down	0.015304535	0.663327404
81578	COL21A1	Collagen, type XXI, α 1	4.89863	5.16071	5.39554	7.53231	7.81312	5.19726	3.239871663	1.695936667	3.239871663	Up	0.034972674	0.663327404
3021	H3F3B	H3 histone, family 3B (H3.3B)	7.9491	8.01083	8.46863	9.31723	9.47707	8.35008	1.872899301	0.905273333	1.872899301	Up	0.026395364	0.663327404
91368	CDKN2AIPNL	CDKN2A interacting protein N-terminal like	3.77452	4.34563	4.08944	3.42385	3.34902	3.46989	-1.575281873	-0.65561	1.57752818	Down	0.0049015	0.6633274

											73		18	04
26577	PCOLCE2	Procollagen C-endopeptidase enhancer 2	4.44391	5.97945	7.41418	4.62898	4.19383	3.50748	-3.569569273	-1.83575	3.569569273	Down	0.035135705	0.663327404
80150	ASRGL1	Asparaginase like 1	10.43442	10.19305	9.78515	8.74778	9.36722	9.79302	-1.783692183	-0.834866667	1.783692183	Down	0.027466117	0.663327404
85319	BAGE2	B melanoma antigen family member 2	7.49636	7.64485	7.07385	6.85241	6.68844	6.88767	-1.511010131	-0.595513333	1.511010131	Down	0.018430668	0.663327404
5218	CDK14	Cyclin-dependent kinase 14	9.3677	9.08959	8.87904	8.28984	8.16748	8.64554	-1.675381909	-0.74449	1.675381909	Down	0.008060769	0.663327404
1910	EDNRB	Endothelin receptor type B	3.51958	4.52783	4.2447	5.06593	6.67796	5.36904	3.046050795	1.60694	3.046050795	Up	0.009528755	0.663327404
2532	ACKR1	Atypical chemokine receptor 1 (Duffy	6.2375	6.6662	6.8268	8.1106	8.1879	6.7382	2.1465900	1.1020466	2.14659	Up	0.02940	0.66332

		blood group)	7	3	8	1	3	8	07	67	0007		2102	7404
163255	ZNF540	Zinc finger protein 540	4.66092	4.67314	4.41051	3.80847	3.70817	3.99807	-1.673985077	-0.743286667	1.673985077	Down	0.001287343	0.663327404
55859	BEX1	Brain expressed X-linked 1	6.24405	6.74987	6.30715	6.67492	7.64587	7.40408	1.750701758	0.807933333	1.750701758	Up	0.025866273	0.663327404
387119	CEP85L	Centrosomal protein 85kda-like	5.65144	6.16936	6.0785	7.14263	6.73423	6.58954	1.809636583	0.8557	1.809636583	Up	0.006306732	0.663327404
135114	HINT3	Histidine triad nucleotide binding protein 3	7.24975	6.47523	6.28886	5.85949	5.97287	6.07758	-1.625969928	-0.7013	1.625969928	Down	0.033707137	0.663327404
80724	ACAD10	Acyl-coa dehydrogenase family member 10	7.26273	7.27275	7.19892	6.38856	6.38296	7.19675	-1.503901418	-0.58871	1.503901418	Down	0.048886671	0.663327404
9976	CLEC2B	C-type lectin domain family 2,	6.15	6.55	7.34	8.06	7.84	7.15	2.0083	1.0059	2.008	Up	0.027	0.663

		member B	664	894	075	727	706	996	16526	86667	316526		128745	327404
5238	PGM3	Phosphoglucomutase 3	6.44116	6.35412	6.64992	5.51334	5.67316	5.74726	-1.786513315	-0.837146667	1.786513315	Down	0.001292251	0.663327404
6723	SRM	Spermidine synthase	6.70411	7.17908	7.43028	8.33597	8.1968	7.35359	1.812059088	0.85763	1.812059088	Up	0.029215683	0.663327404
6641	SNTB1	Syntrophin, β 1 (dystrophin-associated protein A1, 59kda, basic component 1)	4.69474	4.73666	4.75486	6.63588	5.98743	4.85181	2.138036773	1.096286667	2.138036773	Up	0.033456814	0.663327404
5997	RGS2	Regulator of G-protein signaling 2	8.21324	8.93128	8.2407	9.80096	10.31901	9.69063	2.780080516	1.475126667	2.780080516	Up	0.000860706	0.663327404
1305	COL13A1	Collagen, type XIII, α 1	4.44018	5.78498	4.57518	6.43829	7.10274	5.20946	2.490985574	1.316716667	2.490985574	Up	0.046591091	0.663327404
46	NAC	Nascent	8.	8.	9.	10	9.	9.	1.9	0.9	1.9	U	0.0	0.6

66	A	polypeptide-associated complex α subunit	777527	633375	42701	.35419	72288	75161	96606461	9755	96606461	p	08488835	63327404
103335	MRVI1	Murine retrovirus integration site 1 homolog	3.29808	4.42551	3.53289	5.84411	3.95122	5.05043	2.291713453	1.196426667	2.291713453	Up	0.048637971	0.663327404
51062	ATL1	Atlastin gtpase 1	3.9528	4.59062	4.23124	5.28691	5.08308	4.45396	1.605582355	0.683096667	1.605582355	Up	0.036008641	0.663327404
23328	SASH1	SAM and SH3 domain containing 1	5.98687	6.6724	7.09246	7.8689	7.86743	6.85555	1.927481037	0.946716667	1.927481037	Up	0.040934899	0.663327404
3486	IGFBP3	Insulin like growth factor binding protein 3	3.90067	5.95243	5.01926	7.80751	6.77001	5.6648	3.458116965	1.789986667	3.458116965	Up	0.030359344	0.663327404
64065	PERP	PERP, TP53 apoptosis effector	6.15669	6.60064	6.11138	5.25435	5.98545	5.29479	-1.714799617	-0.77804	1.714799617	Down	0.018468007	0.663327404

108875	FGL2	Fibrinogen-like 2	7.09794	7.41821	7.2965	8.44175	8.0294	7.99583	1.846478759	0.884776667	1.846478759	Up	0.0022256	0.66327404
107781	ZNF266	Zinc finger protein 266	8.28071	8.28426	8.21358	7.63262	7.4816	7.63815	-1.597032125	-0.675393333	1.597032125	Down	0.002176002	0.66327404
545521	WDR44	WD repeat domain 44	7.17797	6.81555	6.74408	5.61282	6.29584	6.65304	-1.653244383	-0.7253	1.653244383	Down	0.039672215	0.66327404
140597	TCEAL2	Transcription elongation factor A (SII)-like 2	4.23571	7.65625	5.07487	8.03011	7.42627	7.25359	3.769517841	1.91438	3.769517841	Up	0.049903823	0.66327404
130888	FBXO36	F-box protein 36	4.05188	3.81877	3.889	3.39122	3.39268	3.18003	-1.51421843	-0.598573333	1.51421843	Down	0.001785874	0.66327404
54970	TTC12	Tetratricopeptide repeat domain 12	6.89081	7.12084	6.77943	5.73881	6.51963	6.39577	-1.638402702	-0.71229	1.638402702	Down	0.0215842	0.663274

											02		66	04
114898	C1QTNF2	C1q and tumor necrosis factor related protein 2	3.195557	3.633394	3.679978	5.349946	4.434487	3.757763	2.015153867	1.01089	2.015153867	Up	0.033213131	0.663327404
53826	FXYD6	FXYD domain containing ion transport regulator 6	4.870029	7.228004	6.080076	8.390005	7.308876	7.408829	3.122431668	1.64267	3.122431668	Up	0.027614075	0.663327404
6548	SLC9A1	Solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1	9.736911	9.427499	9.448991	8.429733	9.211888	9.030665	-1.565926683	-0.647016667	1.565926683	Down	0.028572224	0.663327404
53405	CLIC5	Chloride intracellular channel 5	8.762966	7.766744	8.075577	7.388837	6.641044	7.889066	-1.860469406	-0.895666667	1.860469406	Down	0.049836836	0.663327404
57715	SEMA4G	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G	7.143966	6.763866	6.984577	5.967222	6.807443	6.203177	-1.556375311	-0.63819	1.556375311	Down	0.037290455	0.663327404

28930	IGKV1-39	Immunoglobulin κ variable 1-39 (gene/pseudogene)	5.108166	5.312577	4.806988	6.050099	9.173688	8.945388	7.892487114	2.98048	7.892487114	Up	0.006503133	0.663327404
9338	TCEAL1	Transcription elongation factor A (SII)-like 1	7.403339	7.507522	7.451922	9.169904	7.934413	7.873233	1.829171061	0.87119	1.829171061	Up	0.040640992	0.663327404
6943	TCF21	Transcription factor 21	3.630034	5.031774	4.412122	6.343308	6.674388	5.687099	3.672553057	1.876783333	3.672553057	Up	0.002191139	0.663327404
24147	FJX1	Four jointed box 1	3.753306	4.959655	4.176299	6.626651	5.542522	5.336221	2.905419871	1.538746667	2.905419871	Up	0.008319518	0.663327404
1803	DPP4	Dipeptidyl-peptidase 4	9.752788	9.155558	9.704944	5.950663	7.429211	9.271788	-3.964741118	-1.987226667	3.964741118	Down	0.033269688	0.663327404
105372824	LOC105372824	Uncharacterized protein c21orf124	7.1723	6.700883	6.5335	5.031447	5.711441	6.69268	-1.986676081	-0.990356667	1.9867660	Down	0.0486347	0.6633274

4											81		28	04
55607	PPP1R9A	Protein phosphatase 1, regulatory subunit 9A	6.61372	6.70927	6.46059	5.49062	6.06901	6.07539	-1.64283395	-0.716186667	1.64283395	Down	0.011014769	0.663327404
4644	MYO5A	Myosin VA	4.062055	4.907666	4.599963	5.918664	5.281699	4.798998	1.75319929	0.80999	1.75319929	Up	0.045136766	0.663327404
91607	SLFN11	Schlafen family member 11	3.396555	4.166617	4.437779	5.3507	5.009937	4.584266	1.97420709	0.981273333	1.97420709	Up	0.016220511	0.663327404
9467	SH3BP5	SH3-domain binding protein 5 (BTK-associated)	6.730889	8.016665	7.348555	8.014408	8.490886	7.990031	1.740763244	0.79972	1.740763244	Up	0.048619644	0.663327404
9023	CH25H	Cholesterol 25-hydroxylase	5.5091	5.081888	4.892133	7.169188	6.806866	5.907788	2.764279188	1.466903333	2.764279188	Up	0.003694407	0.663327404
10687	PNMA2	Paraneoplastic Ma antigen 2	3.3912	4.2668	4.4512	5.7622	4.944	4.3451	1.9733998	0.9806833	1.97339	Up	0.04954	0.66332

			2	1	7	3		2	9	33	989		331	7404
60	ACTB	Actin, β	11.12972	10.40218	10.68743	11.89793	10.96182	11.76829	1.744608511	0.802903333	1.744608511	Up	0.03222496	0.663327404
51176	LEF1	Lymphoid enhancer-binding factor 1	4.06626	4.42683	3.7145	6.48805	6.58793	4.41687	3.391100011	1.761753333	3.391100011	Up	0.017619853	0.663327404
286262	TPRN	Taperin	7.49821	7.25869	6.6679	5.75375	6.11141	6.75183	-1.913132329	-0.935936667	1.913132329	Down	0.022265664	0.663327404
406	ARNTL	Aryl hydrocarbon receptor nuclear translocator like	5.086	5.89276	4.6406	7.0076	7.14389	5.39626	2.478493256	1.309463333	2.478493256	Up	0.041149737	0.663327404
8434	RECK	Reversion-inducing-cysteine-rich protein with kazal motifs	4.7563	5.43429	5.98044	7.41566	6.86431	5.88064	2.513782798	1.32986	2.513782798	Up	0.021890744	0.663327404
5511	PLEKHJ1	Pleckstrin homology domain	9.86	9.74	9.54	8.96	8.87	9.51	-1.516	-0.600	1.516	Do	0.026	0.663

1		containing J1	644	778	331	701	18	624	585324	826667	585324	wn	261701	327404
22808	MRAS	Muscle RAS oncogene homolog	5.1336	6.37356	5.27753	7.81441	6.9568	5.86033	2.43223619	1.282283333	2.43223619	Up	0.0484799906	0.663327404
9189	ZBED1	Zinc finger, BED-type containing 1	10.195	9.667	9.95166	9.15812	8.77839	9.79112	-1.619269742	-0.695343333	1.619269742	Down	0.0044184	0.663327404
54863	TOR4A	Torsin family 4, member A	8.377776	7.585568	7.836733	6.493337	7.285455	7.323177	-1.86528145	-0.899393333	1.865281445	Down	0.0020861774	0.663327404
80169	CTC1	CTS telomere maintenance complex component 1	7.067445	6.816066	6.703799	5.961477	6.229933	6.434022	-1.57369941	-0.65416	1.573699941	Down	0.0111235055	0.663327404
5727	PTCH1	Patched 1	6.736633	7.8803	7.403348	9.660092	8.651887	8.506569	3.030921877	1.599756667	3.030921877	Up	0.004897267	0.663327404
98	ZNF	Zinc finger protein	4.	4.	3.	3.	3.	4.	-1.	-0.	1.5	D	0.0	0.6

49	518A	518A	63899	30919	9157	68535	15324	03403	584198738	663753333	84198738	own	44067821	63327404
799925	SPEF2	Sperm flagellar 2	2.666822	3.3079	3.38475	3.89211	3.86963	3.4669	1.540134841	0.623056667	1.540134841	Up	0.026022131	0.663327404
6142	RPL18A	Ribosomal protein l18a	11.47601	11.38618	11.85499	12.65825	12.03164	11.82001	1.513169218	0.597573333	1.513169218	Up	0.049631406	0.663327404
85012	TCEAL3	Transcription elongation factor A (SII)-like 3	8.1185	8.72423	8.3278	9.84905	8.88988	8.76182	1.713255122	0.77674	1.713255122	Up	0.046303516	0.663327404
7424	VEGFC	Vascular endothelial growth factor C	4.008199	6.009044	5.281044	7.762622	6.780244	6.2294	3.542243364	1.824663333	3.542243364	Up	0.015406099	0.663327404
7433	VIPR1	Vasoactive intestinal peptide receptor 1	8.965333	8.731222	9.525552	6.593511	6.965779	8.470888	-3.318727098	-1.73063	3.318727098	Down	0.009361742	0.663327404

5621	PRNP	Prion protein	5.87682	5.0359	5.72049	6.77583	6.16691	6.53287	1.928483319	0.947466667	1.928483319	Up	0.010520985	0.663274404
23704	KCNE4	Potassium channel, voltage gated subfamily E regulatory β subunit 4	3.61327	5.18082	3.76864	7.73322	5.70141	5.94319	4.828906959	2.271696667	4.828906959	Up	0.008475435	0.663274404
55340	GIMAP5	Gtpase, IMAP family member 5	5.00178	5.7393	5.83879	7.57284	6.65781	6.05898	2.356403607	1.236586667	2.356403607	Up	0.019794998	0.663274404
863	CBFA2T3	Core-binding factor, runt domain, α subunit 2; translocated to, 3	4.02548	4.52136	4.24178	4.91059	5.26181	4.64914	1.599521074	0.67764	1.599521074	Up	0.014500531	0.663274404
441631	TSPAN11	Tetraspanin 11	5.27455	5.54385	5.32481	6.99745	6.91055	6.20495	2.502285955	1.323246667	2.502285955	Up	0.000949972	0.663274404
84909	C9orf3	Chromosome 9 open reading frame 3	5.43693	5.38562	5.16891	6.9442	5.76893	5.99823	1.874665679	0.906633333	1.8746656	Up	0.0222965	0.6633274

											79		48	04
3492	IGH	Immunoglobulin heavy locus	8.497736	9.04954	8.21787	9.41809	11.85983	11.56357	5.129814533	2.358906667	5.129814533	Up	0.006856694	0.663327404
5465	PPARA	Peroxisome proliferator-activated receptor α	8.545501	8.678868	8.339937	7.866636	7.509991	8.299911	-1.546735669	-0.629226667	1.546735669	Down	0.030089791	0.663327404
100130933	SMIM6	Small integral membrane protein 6	9.051344	8.5927	9.031055	7.352889	7.6779	8.68519	-1.981193785	-0.98637	1.981193785	Down	0.026006711	0.663327404
84084	RAB6C	RAB6C, member RAS oncogene family	3.747266	2.926001	3.455477	3.900133	4.239644	4.290003	1.70175105	0.76702	1.70175105	Up	0.011796962	0.663327404
3178	HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1	10.54179	9.8463	10.5548	11.24593	10.76917	10.79045	1.53782002	0.620886667	1.53782002	Up	0.041129093	0.663327404
9783	RIMS3	Regulating synaptic membrane exocytosis 3	4.5247	5.106	4.8332	6.1368	5.6957	4.9545	1.7104429	0.7437	1.71044	Up	0.04502	0.6632

			6		5	1	3	8	67		2967		6789	7404
1052	CEBPD	CCAAT/enhancer binding protein (C/EBP), Δ	8.45614	8.75255	8.12267	9.60637	10.33385	8.55219	2.075822855	1.053683333	2.075822855	Up	0.046022816	0.663327404
1903	S1PR3	Sphingosine-1-phosphate receptor 3	3.92666	5.95354	4.17881	7.52071	6.24467	6.49587	4.19134516	2.067413333	4.19134516	Up	0.009210802	0.663327404
5836	PYGL	Phosphorylase, glycogen, liver	3.21609	4.11571	3.80693	5.06234	4.82629	3.97747	1.877904026	0.909123333	1.877904026	Up	0.030797063	0.663327404
114915	EPB41L4A-AS1	EPB41L4A antisense RNA 1	8.09351	7.70586	8.01665	9.30922	8.42719	8.41069	1.713595583	0.777026667	1.713595583	Up	0.026323207	0.663327404
586	BCAT1	Branched chain amino-acid transaminase 1, cytosolic	4.08971	4.99682	4.49162	6.14982	5.43357	5.01616	2.009913388	1.007133333	2.009913388	Up	0.022019225	0.663327404
7968	CENPU	Centromere protein U	3.53	3.57	3.96	5.66	6.03	3.65	2.6840	1.4244	2.684	Up	0.043	0.663

2			552	297	334	012	355	137	34719	03333	034719		614301	327404
23645	PPP1R15A	Protein phosphatase 1 regulatory subunit 15A	7.262133	7.1052	7.07928	7.49054	8.2217	7.85623	1.632730487	0.707286667	1.632730487	Up	0.013302515	0.663327404
55063	ZCWPW1	Zinc finger, CW type with PWWP domain 1	5.445532	5.0211	4.78358	4.14564	4.50746	4.59321	-1.588755001	-0.667896667	1.588755001	Down	0.01796144	0.663327404
622	BDH1	3-hydroxybutyrate dehydrogenase, type 1	7.848845	7.99433	7.31652	6.15859	6.07016	7.48335	-2.217703765	-1.149066667	2.217703765	Down	0.024627818	0.663327404
301	ANXA1	Annexin A1	5.498555	7.68225	7.30179	9.23268	9.39404	7.64639	3.81100984	1.930173333	3.81100984	Up	0.024232982	0.663327404
286077	FAM83H	Family with sequence similarity 83 member H	9.140663	8.7336	8.67854	8.1076	8.55227	8.1115	-1.509216732	-0.5938	1.509216732	Down	0.024076279	0.663327404
20	EPH	EPH receptor A4	4.	4.	4.	5.	6.	5.	2.5	1.3	2.5	U	0.0	0.6

43	A4		66033	83172	23727	38983	69762	70449	56564929	54206667	56564929	p	06274155	63327404
53841	CDHR5	Cadherin related family member 5	9.257277	8.869444	8.446682	7.352011	7.518477	8.577761	-2.058813765	-1.041813333	2.058813765	Down	0.024704173	0.663327404
7474	WNT5A	Wingless-type MMTV integration site family member 5A	4.3981	4.59917	4.47019	6.11443	5.32503	5.54906	2.255874277	1.173686667	2.255874277	Up	0.001187995	0.663327404
2004	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2)	6.8325	7.29147	7.81053	8.68769	8.69455	7.56685	2.006753388	1.004863333	2.006753388	Up	0.033188845	0.663327404
10230	NBR2	Neighbor of BRCA1 gene 2 (non-protein coding)	6.25853	6.55838	6.92051	6.02645	5.41544	6.27992	-1.59313663	-0.67187	1.593136663	Down	0.046704338	0.663327404
51313	FAM198B	Family with sequence similarity 198 member B	4.17226	4.41071	4.57911	7.02573	6.34058	4.64269	3.064475137	1.61564	3.064475137	Up	0.023077971	0.663327404

54751	FBLIM1	Filamin binding LIM protein 1	9.290091	9.004437	8.711558	8.082855	8.290655	8.5815	-1.606536026	-0.683953333	1.606536026	Down	0.015407928	0.663327404
10618	TGOLN2	Trans-golgi network protein 2	7.540775	7.673339	7.330006	6.509554	7.164143	7.1098	-1.502026223	-0.58691	1.502026223	Down	0.034012352	0.663327404
57636	ARHGAP23	Rho gtpase activating protein 23	5.036222	6.104408	5.521137	7.538887	6.778879	6.10115	2.382341115	1.25238	2.382341115	Up	0.019339891	0.663327404
129807	NEU4	Neuraminidase 4 (sialidase)	7.636166	7.912227	7.985688	6.949998	6.9616	7.68914	-1.563157701	-0.644463333	1.563157701	Down	0.03330898	0.663327404
9099	USP2	Ubiquitin specific peptidase 2	6.7304	5.88223	5.96125	3.81922	5.20152	5.5016	-2.550028433	-1.350513333	2.550028433	Down	0.022101125	0.663327404
51053	GMNN	Geminin, DNA replication inhibitor	6.579941	6.6861	6.939977	7.713349	7.999915	6.827794	1.7152672	0.778433333	1.7152672	Up	0.0406546	0.6633274

													31	04
5159	PDGFRB	Platelet-derived growth factor receptor, β polypeptide	5.74031	7.25869	6.59688	9.04403	8.30814	7.51606	3.380999962	1.75745	3.380999962	Up	0.008884207	0.663327404
51293	CD320	CD320 molecule	6.08187	6.38321	6.31358	7.26147	7.00748	6.49149	1.580732594	0.60593333	1.580732594	Up	0.024282108	0.663327404
5376	PMP22	Peripheral myelin protein 22	7.16554	9.06565	8.89877	10.29417	10.13005	9.10679	2.76449635	1.467016667	2.76449635	Up	0.033041245	0.663327404
83468	GLT8D2	Glycosyltransferase 8 domain containing 2	4.49697	5.41593	5.32553	7.09894	5.67736	5.7344	2.129857142	1.090756667	2.129857142	Up	0.040936141	0.663327404
55198	APPL2	Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2	8.95787	8.73889	9.1289	7.93308	8.19227	8.83804	-1.537681455	-0.620756667	1.537681455	Down	0.047400855	0.663327404
8671	SLC4A4	Solute carrier family 4 (sodium bicarbonate	9.2098	9.0758	8.7257	7.4118	8.2632	8.6182	-1.873899	-0.906043	1.87389	Dow	0.02578	0.66332

		cotransporter), member 4		6	8	2	9		178	333	9178	n	6104	7404
6646	SOAT1	Sterol O-acyltransferase 1	8.46681	7.85884	8.29903	7.29843	7.64845	7.76136	-1.557047907	-0.638813333	1.557047907	Down	0.02302982	0.663327404
375033	PEAR1	Platelet endothelial aggregation receptor 1	3.61611	3.90562	4.08909	6.00314	5.33618	4.03855	2.387802202	1.255683333	2.387802202	Up	0.030079402	0.663327404
3514	IGKC	Immunoglobulin κ constant	9.98692	10.52286	10.06924	10.87867	13.11485	12.91994	4.321343757	2.11148	4.321343757	Up	0.007525687	0.663327404
64240	ABCG5	ATP binding cassette subfamily G member 5	8.67814	7.87634	8.56186	5.42151	3.52196	7.64759	-7.168940906	-2.84176	7.168940906	Down	0.018431498	0.663327404
56137	PCDHA12	Protocadherin α 12	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
1875	E2F5	E2F transcription factor 5,	7.79	7.41	7.99	6.89	6.80	7.38	-1.636	-0.710	1.636	Do	0.018	0.663

		p130-binding	748	907	432	152	024	695	620695	72	620695	wn	51153	327404
5019	OXCT1	3-oxoacid coa-transferase 1	3.39856	4.50657	3.53363	6.68599	4.43988	4.70307	2.757562019	1.463393333	2.757562019	Up	0.04706019	0.663327404
642946	FLVCR1-AS1	FLVCR1 antisense RNA 1 (head to head)	7.42374	7.08026	7.05862	6.20565	6.18594	5.72753	-2.215808701	-1.147833333	2.215808701	Down	0.000767312	0.663327404
28912	IGKV3-20	Immunoglobulin κ variable 3-20	2.96151	3.44172	3.50444	3.70347	7.00726	5.93522	4.743964893	2.246093333	4.743964893	Up	0.020648396	0.663327404
23414	ZFPM2	Zinc finger protein, FOG family member 2	3.26451	3.56814	4.38596	6.53787	5.16307	4.42686	3.10888374	1.636396667	3.10888374	Up	0.019744935	0.663327404
79633	FAT4	FAT atypical cadherin 4	4.43495	5.15705	4.51484	6.99339	6.04771	5.75313	2.953577225	1.562463333	2.953577225	Up	0.003252033	0.663327404
30	ST6	ST6	4.	4.	5.	6.	5.	5.	1.6	0.7	1.6	U	0.0	0.6

815	GALNAC6	(α-N-acetyl-neuraminyl-2,3-β-galactosyl-1,3)-N-acetylgalactosaminide α-2,6-sialyltransferase 6	92947	42534	02933	17443	31491	12832	75401264	44506667	75401264	p	47338938	63327404
397	ARHGDIB	Rho GDP dissociation inhibitor (GDI) β	6.77552	7.57377	7.75314	8.47688	8.35302	7.69093	1.748518831	0.806133333	1.748518831	Up	0.041172956	0.663327404
127707	KLHDC7A	Kelch domain containing 7A	7.07535	6.58585	6.5819	6.13947	5.88969	6.36811	-1.531851733	-0.615276667	1.531851733	Down	0.023490218	0.663327404
3400	ID4	Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	4.01144	3.46489	3.43631	6.28259	6.72438	6.27733	6.918951046	2.790553333	6.918951046	Up	4.4894E-06	0.043854471
871	SERPINH1	Serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	6.82747	6.7145	6.81434	8.25367	7.20307	7.24311	1.718535912	0.7818	1.718535912	Up	0.033155647	0.663327404
1193	CLIC2	Chloride intracellular	3.13	3.52	3.69	4.98	5.26	3.75	2.3228	1.2159	2.322	Up	0.016	0.663

		channel 2	313	499	245	635	006	194	99386	26667	899386		350645	327404
7171	TPM4	Tropomyosin 4	8.76229	8.6255	8.28341	9.83395	9.23155	8.79584	1.658692744	0.730046667	1.658692744	Up	0.037533912	0.663327404
3312	HSPA8	Heat shock protein family A (Hsp70) member 8	9.926685	8.999555	10.37001	10.66472	10.26623	11.0095	1.84209398	0.881346667	1.84209398	Up	0.048394704	0.663327404
1525	CXADR	Coxsackie virus and adenovirus receptor	12.90564	12.70781	12.47923	11.61688	11.9554	12.17785	-1.718142862	-0.78085	1.718142862	Down	0.005552084	0.663327404
25932	CLIC4	Chloride intracellular channel 4	5.64879	5.84594	5.70033	7.25785	6.6996	5.95524	1.873682709	0.905876667	1.873682709	Up	0.025342187	0.663327404
56256	SERTAD4	SERTA domain containing 4	4.42368	4.82736	4.93364	6.56059	5.41389	5.05804	1.930908766	0.94928	1.930908766	Up	0.043011057	0.663327404
79	NSU	NOP2/Sun RNA	5.	4.	4.	3.	3.	4.	-2.	-1.	2.3	D	0.0	0.6

730	N7	methyltransferase family member 7	5651	72046	92621	51408	87797	14208	338980769	22588	38980769	own	0232608	63327404
377677	CA13	Carbonic anhydrase XIII	10.08386	9.53707	10.09713	7.65105	8.45955	9.78157	-2.420485861	-1.275296667	2.420485861	Down	0.040078589	0.663327404
200958	MUC20	Mucin 20, cell surface associated	9.72947	9.50139	8.95067	7.34985	8.89871	8.70466	-2.108333851	-1.076103333	2.108333851	Down	0.040433621	0.663327404
258878	MXRA5	Matrix-remodelling associated 5	4.37301	5.7809	4.83678	7.86501	5.79491	6.4762	3.283292618	1.715143333	3.283292618	Up	0.020097916	0.663327404
8291	DYSF	Dysferlin	4.81825	4.64038	4.84446	5.39938	5.87884	5.17568	1.643688216	0.716936667	1.643688216	Up	0.010992424	0.663327404
23254	KAZN	Kazrin, periplakin interacting protein	5.1034	5.48934	4.79632	5.85158	6.55853	5.66253	1.858999867	0.894526667	1.858999867	Up	0.017465733	0.663327404

1285	COL4A3	Collagen, type IV, α 3 (Goodpasture antigen)	6.24739	5.31369	5.39236	4.78216	4.65829	5.05804	-1.763347322	-0.818316667	1.763347322	Down	0.020967284	0.663327404
2823	GPM6A	Glycoprotein M6A	2.89515	4.15283	3.23802	4.93599	3.91673	4.6909	2.122660043	1.085873333	2.122660043	Up	0.024701766	0.663327404
358	AQP1	Aquaporin 1 (Colton blood group)	12.01175	11.72246	11.58483	9.94098	9.85619	11.72971	-2.401695639	-1.264053333	2.401695639	Down	0.035905019	0.663327404
114088	TRIM9	Tripartite motif containing 9	7.00502	7.6314	7.34753	5.73073	6.20224	7.1221	-1.967404126	-0.976293333	1.967404126	Down	0.031711819	0.663327404
51776	ZAK	Sterile α motif and leucine zipper containing kinase AZK	7.18608	7.41761	7.49043	8.77949	7.70202	8.01107	1.740481726	0.799486667	1.740481726	Up	0.026909608	0.663327404
8870	IER3	Immediate early response 3	8.43659	8.64747	8.0713	9.63076	10.04264	8.53221	2.023355751	1.01675	2.0233557	Up	0.0341924	0.6633274

											51		75	04
51299	NRN1	Neuritin 1	4.13552	4.25421	5.54165	6.04696	7.11637	5.1651	2.761942593	1.465683333	2.761942593	Up	0.034770959	0.663327404
5414	SEPT4	Septin 4	3.726628	4.552022	3.805422	6.377799	5.788388	4.248664	2.720169716	1.443696667	2.720169716	Up	0.030276359	0.663327404
170394	PWWP2B	PWWP domain containing 2B	8.567761	7.938	8.109941	7.357611	7.620833	7.764277	-1.541252605	-0.624103333	1.541252605	Down	0.023671161	0.663327404
4045	LSAMP	Limbic system-associated membrane protein	4.094446	4.788644	4.372447	4.963732	5.227833	4.918449	1.534912768	0.618156667	1.534912768	Up	0.021009157	0.663327404
57476	GRAMD1B	GRAM domain containing 1B	10.22444	9.770662	9.814122	8.190688	9.258999	9.392133	-1.984983021	-0.989126667	1.984983021	Down	0.021253336	0.663327404
9648	GCC2	GRIP and coiled-coil domain containing 2	7.6618	6.9929	6.9616	6.4766	6.3425	6.8325	-1.574474	-0.65487	1.57447	Dow	0.03303	0.6632

			1	5		8	4	3	072		4072	n	0884	7404
5754	PTK7	Protein tyrosine kinase 7 (inactive)	3.9934	4.49019	3.87646	6.68074	4.95321	4.93312	2.643299684	1.40234	2.643299684	Up	0.021579424	0.663327404
5652	PRSS8	Protease, serine 8	11.16083	10.93285	10.41471	9.0253	9.74131	10.20986	-2.261541808	-1.177306667	2.261541808	Down	0.009847911	0.663327404
118491	CFAP70	Cilia and flagella associated protein 70	6.70927	5.80003	6.55159	4.48254	4.70373	5.73232	-2.604067178	-1.380766667	2.604067178	Down	0.008839036	0.663327404
54492	NEURL1B	Neuralized E3 ubiquitin protein ligase 1B	5.15555	6.80942	6.33365	8.69339	8.31804	7.12031	3.848705638	1.944373333	3.848705638	Up	0.008263879	0.663327404
112611	RWDD2A	RWD domain containing 2A	6.9071	6.27708	6.87308	6.01211	5.78191	6.11651	-1.642139474	-0.715576667	1.642139474	Down	0.014201755	0.663327404
9368	SLC9A3R	Solute carrier family 9, subfamily	11.2	10.9	10.9	9.38	10.3	10.7	-1.801	-0.848	1.801	Do	0.043	0.663

	1	A (NHE3, cation proton antiporter 3), member 3 regulator 1	2551	0569	0569	272	2944	7832	006432	803333	006432	wn	91691	327404
3399	ID3	Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein	5.24548	5.21876	4.94003	8.07549	8.0325	6.91183	5.809913428	2.538516667	5.809913428	Up	0.000111357	0.435116634
28893	IGKV1D-39	Immunoglobulin κ variable 1D-39	5.108166	5.312577	4.806698	6.050009	9.173668	8.945388	7.892487114	2.98048	7.892487114	Up	0.006503133	0.663327404
143458	LDLRAD3	Low density lipoprotein receptor class A domain containing 3	5.052669	5.413944	5.032099	7.082922	7.383111	5.547666	2.838227039	1.50499	2.838227039	Up	0.013672886	0.663327404
112724	RDH13	Retinol dehydrogenase 13 (all-trans/9-cis)	9.327355	9.262688	8.590088	8.116651	8.565077	8.603733	-1.54928225	-0.6316	1.54928225	Down	0.041016378	0.663327404
143903	LAYN	Layilin	3.653733	6.061888	4.074566	7.595377	6.562295	5.889044	4.244898333	2.08573	4.244898333	Up	0.019039769	0.663327404

323	APBB2	Amyloid β (A4) precursor protein-binding, family B, member 2	5.09501	5.1813	5.41204	6.58375	5.9125	5.60625	1.746802701	0.804716667	1.746802701	Up	0.019399875	0.663327404
7043	TGFB3	Transforming growth factor β 3	3.3819	3.88165	3.50507	4.91457	4.43888	4.48064	2.030483542	1.021823333	2.030483542	Up	0.001179861	0.663327404
3525	IGKV1OR1-1	Immunoglobulin κ variable 1/OR1-1 (pseudogene)	5.429999	4.898863	5.480021	6.015564	9.115855	8.903337	6.690017571	2.74201	6.690017571	Up	0.009795434	0.663327404
7984	ARHGEF5	Rho guanine nucleotide exchange factor 5	7.752231	7.0524	6.951913	6.5429	6.447999	6.877078	-1.547089507	-0.629556667	1.547089507	Down	0.042876389	0.663327404
51616	TAF9B	TATA-box binding protein associated factor 9b	4.504544	4.240666	4.754366	5.485559	4.9516	5.165455	1.625661252	0.701026667	1.625661252	Up	0.011049049	0.663327404
3708	ITPR1	Inositol 1,4,5-trisphosphate receptor, type 1	4.93597	7.04627	6.02094	8.64324	7.20736	7.34887	3.322102684	1.732096667	3.3221026	Up	0.0220597	0.6633274

											84		96	04
148398	SAMD11	Sterile α motif domain containing 11	6.12429	6.8206	6.44512	7.88028	7.11078	6.93446	1.796476421	0.84517	1.796476421	Up	0.026094707	0.663327404
84168	ANTXR1	Anthrax toxin receptor 1	4.7606	8.07883	6.7107	10.09635	8.07397	8.1101	4.735215223	2.24343	4.735215223	Up	0.040660859	0.663327404
6581	SLC22A3	Solute carrier family 22 (organic cation transporter), member 3	6.99622	6.64104	7.0469	5.51069	6.26938	6.62829	-1.691848048	-0.7586	1.691848048	Down	0.039691386	0.663327404
7846	TUBA1A	Tubulin, α 1a	8.31387	10.21772	9.13989	11.43032	10.64997	10.19421	2.896558896	1.53434	2.896558896	Up	0.020443508	0.663327404
28874	IGKV3D-20	Immunoglobulin κ variable 3D-20	2.96151	3.44172	3.50444	3.70347	7.00726	5.93522	4.743964893	2.246093333	4.743964893	Up	0.020648396	0.663327404
4478	MSN	Moesin	6.6108	7.3949	7.6892	9.1067	8.6413	7.8245	2.4495894	1.29254	2.44958	Up	0.01398	0.66332

			2	8	8	4	9	7	93		9493		5906	7404
27074	LAMP3	Lysosomal-associated membrane protein 3	4.0213	4.01379	4.37478	5.45452	5.00355	4.26048	1.704749782	0.76956	1.704749782	Up	0.038147384	0.663327404
100287175	LOC100287175	Uncharacterized LOC100287175	9.58046	9.31676	8.65104	8.14055	8.00284	8.97481	-1.753235747	-0.81002	1.753235747	Down	0.047800075	0.663327404
6580	SLC22A1	Solute carrier family 22 (organic cation transporter), member 1	6.74758	6.52663	6.61046	4.66989	5.43004	6.31585	-2.22884558	-1.156296667	2.228845558	Down	0.020461418	0.663327404
482	ATP1B2	Atpase, Na+/K+ transporting, β 2 polypeptide	4.37247	4.22654	4.37247	5.01326	5.09627	4.68339	1.523243587	0.607146667	1.523243587	Up	0.006326129	0.663327404
348174	CLEC18A	C-type lectin domain family 18, member A	6.87899	6.64418	6.1582	4.97018	5.72353	5.75503	-2.110439297	-1.077543333	2.110439297	Down	0.007094489	0.663327404
960	CD44	CD44 molecule (Indian blood	5.11	4.71	5.00	7.39	7.39	4.95	3.1061	1.6351	3.106	Up	0.037	0.663

		group)	947	209	939	982	439	209	26674	16667	126674		168641	327404
10550	ARL6IP5	ADP ribosylation factor like gtpase 6 interacting protein 5	9.04449	8.83669	9.07201	9.76839	9.50811	9.57405	1.550198899	0.632453333	1.550198899	Up	0.004905645	0.663327404
644314	MT1IP	Metallothionein 1I, pseudogene	6.512988	6.462066	6.627144	5.437099	5.876455	6.275933	-1.592069519	-0.670903333	1.592069519	Down	0.002343699	0.663327404
3502	IGHG3	Immunoglobulin heavy constant γ 3 (G3m marker)	6.969771	7.487877	6.704799	7.764022	10.30554	8.636799	3.599991084	1.847993333	3.599991084	Up	0.0018419603	0.663327404
8174	MADCAM1	Mucosal vascular addressin cell adhesion molecule 1	5.426455	6.356993	5.227666	6.979066	8.393939	6.246422	2.903802501	1.537943333	2.903802501	Up	0.0029087689	0.663327404
79812	MMRN2	Multimerin 2	4.522229	5.134266	5.273446	6.601644	7.172003	5.084245	2.478218398	1.309303333	2.478218398	Up	0.0039827151	0.663327404
48	NOS	Nitric oxide	3.	4.	4.	5.	6.	4.	2.2	1.1	2.2	U	0.0	0.6

46	3	synthase 3	92415	16783	17834	42182	11156	18911	20251847	50723333	20251847	p	36444561	63327404
145567	TTC7B	Tetratricopeptide repeat domain 7B	4.71017	5.69552	5.24457	6.74503	6.28572	5.69005	2.032863482	1.023513333	2.032863482	Up	0.020529782	0.663327404
723961	INS-IGF2	INS-IGF2 readthrough	6.76552	6.86781	7.33066	8.62012	8.74297	7.2309	2.313376368	1.21	2.313376368	Up	0.021909335	0.663327404
23242	COBL	Cordon-bleu WH2 repeat protein	7.19923	6.87334	7.04577	5.44598	5.3507	6.45074	-2.445800392	-1.290306667	2.445800392	Down	0.004089519	0.663327404
2954	GSTZ1	Glutathione S-transferase zeta 1	6.54935	6.7137	5.98728	5.26731	5.47305	5.6054	-1.956384582	-0.96819	1.956384582	Down	0.003816836	0.663327404
3988	LIPA	Lipase A, lysosomal acid, cholesterol esterase	6.14442	5.42532	5.78667	6.81949	6.59014	6.94065	1.997169344	0.997956667	1.997169344	Up	0.002896618	0.663327404

111194	ABCB8	ATP binding cassette subfamily B member 8	6.06904	6.3625	6.15937	5.29601	5.31011	5.94772	-1.601055516	-0.679023333	1.601055516	Down	0.018514688	0.663327404
3977	LIFR	Leukemia inhibitory factor receptor α	4.89328	4.41563	4.56786	5.87732	6.75553	4.70762	2.226174474	1.154566667	2.226174474	Up	0.046596643	0.663327404
25992	SNED1	Sushi, nidogen and EGF-like domains 1	3.49935	4.26077	4.06257	4.96669	5.63148	4.28598	2.028603156	1.020486667	2.028603156	Up	0.025091376	0.663327404
277	AMY1B	Amylase, α 1B (salivary)	8.63928	8.58126	8.49993	7.49129	7.82356	8.12144	-1.695126963	-0.761393333	1.695126963	Down	0.006004873	0.663327404
989	SEPT7	Septin 7	6.05669	5.79359	6.09394	7.09152	6.39134	6.57356	1.629090404	0.704066667	1.629090404	Up	0.015788256	0.663327404
283970	PDXDC2P	Pyridoxal-dependent decarboxylase domain containing 2, pseudogene	5.40277	5.29949	5.91799	6.56334	5.68663	6.53251	1.648030946	0.720743333	1.6480309	Up	0.0443587	0.6633274

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8611	PLPP1	Phospholipid phosphatase 1	7.40413	7.7133	7.60498	9.09126	8.62132	8.46053	2.219497884	1.150233333	2.219497884	Up	0.000901467	0.663327404
80760	ITIH5	Inter-α-trypsin inhibitor heavy chain family member 5	4.92599	6.41784	5.00682	7.29433	6.36022	6.30229	2.300684783	1.202063333	2.300684783	Up	0.034791202	0.663327404
2247	FGF2	Fibroblast growth factor 2 (basic)	2.81259	3.52826	3.12151	4.75364	4.05603	3.60299	1.977165083	0.983433333	1.977165083	Up	0.016299629	0.663327404
151556	GPR155	G protein-coupled receptor 155	5.34215	5.7105	5.11906	7.40564	6.20437	5.68406	2.05734917	1.040786667	2.05734917	Up	0.045672399	0.663327404
28824	IGLV1-41	Immunoglobulin lambda variable 1-41 (pseudogene)	5.07238	4.98425	5.12461	5.37986	6.83042	7.06937	2.577793444	1.366136667	2.577793444	Up	0.014362389	0.663327404
1036	CDO1	Cysteine dioxygenase type 1	4.2811	5.4408	4.9990	7.0809	6.2269	5.7467	2.7217036	1.4451	2.72170	Up	0.00997	0.66332

			6	9	4	7	2	3	71		3671		6941	7404
171024	SYNPO2	Synaptopodin 2	4.05878	6.72223	4.79739	8.65694	7.0438	6.96726	5.145103147	2.3632	5.145103147	Up	0.015433909	0.663327404
100098	TSPAN5	Tetraspanin 5	3.137066	4.41078	3.61355	5.79655	5.54231	3.96217	2.602467235	1.37988	2.602467235	Up	0.034965626	0.663327404
54874	FNBP1L	Formin binding protein 1-like	5.326855	4.949938	4.8262	3.8763	4.53348	4.77292	-1.558231949	-0.63991	1.558231949	Down	0.044833866	0.663327404
6237	RRAS	Related RAS viral (r-ras) oncogene homolog	7.690042	8.0351	8.298	9.19183	8.49877	8.42195	1.620392523	0.69643333	1.620392523	Up	0.034093391	0.663327404
4051	CYP4F3	Cytochrome P450, family 4, subfamily F, polypeptide 3	9.826645	9.956888	9.633395	7.67323	8.73662	9.39047	-2.306416932	-1.205653333	2.306416932	Down	0.021028649	0.663327404
2317	RGL1	Ral guanine nucleotide	3.32	4.17	4.38	5.11	4.88	4.53	1.8422	0.8814	1.842	Up	0.021	0.663

9		dissociation stimulator-like 1	427	107	895	565	243	057	30181	53333	230181		732598	327404
3625	INHBB	Inhibin β B	5.26019	5.19539	4.74968	6.44799	6.13555	5.52023	1.953647252	0.96617	1.953647252	Up	0.009694038	0.663327404
477	ATP1A2	Atpase, Na+/K+ transporting, α 2 polypeptide	4.41421	6.17908	5.01267	6.31978	7.55749	6.08235	2.734391846	1.45122	2.734391846	Up	0.031116056	0.663327404
3822	KLRC2	Killer cell lectin-like receptor subfamily C, member 2	4.71459	5.2065	5.70248	4.6274	3.76046	4.40008	-1.925469139	-0.94521	1.925469139	Down	0.020165871	0.663327404
8436	SDPR	Serum deprivation response	4.81806	6.82065	5.17572	7.97095	7.38346	7.48442	4.022614073	2.008133333	4.022614073	Up	0.005326082	0.663327404
166614	DCLK2	Doublecortin like kinase 2	4.4942	5.59065	5.01643	6.90595	5.79377	5.63383	2.110263763	1.077423333	2.110263763	Up	0.033461995	0.663327404
26	LRR	Leucine rich repeat	5.	6.	5.	8.	7.	6.	3.2	1.6	3.2	U	0.0	0.6

15	C32	containing 32	18463	34274	7218	7148	057	55357	3119242	92066667	3119242	p	21002934	63327404
29763	PACSIN3	Protein kinase C and casein kinase substrate in neurons 3	4.43978	4.61	4.44279	6.49195	4.87704	5.08555	1.982503391	0.987323333	1.982503391	Up	0.045221348	0.663327404
59345	GNB4	Guanine nucleotide binding protein (G protein), β polypeptide 4	5.87044	6.87005	6.80492	8.59052	8.0063	7.06516	2.588632204	1.37219	2.588632204	Up	0.016388968	0.663327404
80318	GKAP1	G kinase anchoring protein 1	6.41321	6.34846	6.20584	5.12832	5.72063	5.89703	-1.670766359	-0.74051	1.670766359	Down	0.014066313	0.663327404
1272	CNTN1	Contactin 1	2.26384	4.71036	2.91311	5.80006	6.36303	4.81624	5.147980778	2.364006667	5.147980778	Up	0.008931941	0.663327404
29965	CDIP1	Cell death-inducing p53 target 1	7.99757	8.09966	7.3968	6.7656	7.16708	7.37666	-1.656605404	-0.72823	1.656605404	Down	0.024240523	0.663327404

9308	CD83	CD83 molecule	4.18597	4.82623	4.82623	5.33865	5.07784	5.75463	1.71423314	0.77563333	1.714231 4	Up	0.018227045	0.663327404
388372	CCL4L1	Chemokine (C-C motif) ligand 4-like 1	5.72316	6.37542	6.64345	6.6861	8.05008	7.55122	2.268580729	1.18179	2.268580729	Up	0.019158457	0.663327404
3501	IGHG2	Immunoglobulin heavy constant γ 2 (G2m marker)	6.96971	7.48787	6.70479	7.76402	10.30554	8.63679	3.599991084	1.847993333	3.599991084	Up	0.018419603	0.663327404
51241	COX16	COX16 cytochrome c oxidase assembly homolog	7.77008	7.4592	7.68223	6.65134	7.0237	7.46873	-1.504460957	-0.589246667	1.504460957	Down	0.041264922	0.663327404
85360	SYDE1	Synapse defective 1, Rho gtpase, homolog 1 (C. Elegans)	5.21422	6.79172	5.60965	7.58282	7.00485	6.38728	2.173148355	1.119786667	2.173148355	Up	0.046521495	0.663327404
10810	WASF3	WAS protein family member 3	5.12832	5.97467	6.11877	6.59055	6.53872	6.33086	1.67727975	0.746123333	1.6772797	Up	0.0312598	0.6633274

											5		38	04
2295	FOXF2	Forkhead box F2	4.16548	4.96732	4.37523	5.6056	5.46576	5.28951	1.933140729	0.950946667	1.933140729	Up	0.004575552	0.663327404
9948	WDR1	WD repeat domain 1	5.52495	4.68295	5.21988	6.05288	5.50997	6.03918	1.652614235	0.72475	1.652614235	Up	0.029649594	0.663327404
7106	TSPAN4	Tetraspanin 4	5.46821	6.82024	6.82238	7.96639	7.21105	7.14637	2.10087938	1.070993333	2.10087938	Up	0.037413918	0.663327404
64782	AEN	Apoptosis enhancing nuclease	8.35816	7.89432	7.39256	6.8659	7.56837	6.92791	-1.694610054	-0.760953333	1.694610054	Down	0.040488749	0.663327404
11010	GLIPR1	GLI pathogenesis-related 1	4.30655	5.33669	4.61676	6.90192	5.282	5.70427	2.312409119	1.209396667	2.312409119	Up	0.031917984	0.663327404
140706	CCM2L	Cerebral cavernous malformation 2-like	4.5031	5.1407	4.8389	5.5363	5.7260	5.0401	1.5226172	0.6065533	1.52261	Up	0.04248	0.6332

			8	2	6	3	7	2	56	33	7256		9346	7404
84167	C19orf44	Chromosome 19 open reading frame 44	5.43157	5.3792	5.27916	4.92364	4.30655	4.29124	-1.810222039	-0.856166667	1.810222039	Down	0.004115478	0.663274704
280	AMY2B	Amylase, α 2B (pancreatic)	8.01811	7.38333	7.6135	6.45255	6.91055	7.48416	-1.650107483	-0.72256	1.650107483	Down	0.046373805	0.663274704
55592	GOLGA2P5	Golgin A2 pseudogene 5	5.49025	5.52172	5.22041	4.50494	4.84314	4.90067	-1.581408408	-0.66121	1.581408408	Down	0.006864465	0.663274704
134147	CMBL	Carboxymethylene butenolidase homolog (Pseudomonas)	10.7487	10.28883	10.94977	9.69169	9.54233	10.4285	-1.711103072	-0.774926667	1.711103072	Down	0.030113076	0.663274704
4324	MMP15	Matrix metallopeptidase 15	8.94865	8.8103	8.30357	6.73802	8.0801	8.11502	-2.060688825	-1.043126667	2.060688825	Down	0.034044412	0.663274704
8741	TNFSF13	Tumor necrosis factor superfamily	10.7	10.3	11.0	10.0	9.86	10.3	-1.566	-0.647	1.566	Do	0.025	0.663

		member 13	3666	7599	8084	3984	361	486	067793	146667	067793	wn	138439	327404
4060	LUM	Lumican	7.53061	9.1427	8.99529	11.25011	10.4953	10.09385	4.160874189	2.056886667	4.160874189	Up	0.003776494	0.663327404
9802	DAZAP2	DAZ associated protein 2	7.41272	7.07712	7.24592	6.1285	6.57037	6.94258	-1.62237051	-0.698103333	1.622370511	Down	0.021519246	0.663327404
25780	RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	4.38514	5.1339	4.9677	6.08325	6.08325	4.97468	1.846525689	0.848133333	1.846525689	Up	0.0040598797	0.663327404
285343	TCAIM	T cell activation inhibitor, mitochondrial	8.3832	8.3653	8.80331	6.72014	7.232	7.93808	-2.330323102	-1.22053	2.330323102	Down	0.006438708	0.663327404
92675	DTD1	D-tyrosyl-trna deacylase 1	4.70712	4.983	5.12046	6.40784	5.44687	5.6416	1.859923564	0.895243333	1.859923564	Up	0.013779134	0.663327404
66	HNR	Heterogeneous	10	9.	10	11	10	10	1.5	0.6	1.5	U	0.0	0.6

4709	NPA1P10	nuclear ribonucleoprotein A1 pseudogene 10	.54179	8463	.5548	.24593	.76917	.79045	3782002	20886667	3782002	p	41129093	63327404
6720	SREBF1	Sterol regulatory element binding transcription factor 1	7.553309	7.473306	7.4916	6.617244	6.41028	6.95108	-1.797987927	-0.846383333	1.797987927	Down	0.002438005	0.663327404
445815	PALM2-AKAP2	PALM2-AKAP2 readthrough	8.277718	8.207644	8.220093	9.339292	8.525944	8.749777	1.554438279	0.636393333	1.554438279	Up	0.027040058	0.663327404
162514	TRPV3	Transient receptor potential cation channel, subfamily V, member 3	6.978871	6.266266	6.330788	5.235011	5.975711	5.853833	-1.786414253	-0.837066667	1.786414253	Down	0.020357062	0.663327404
57761	TRIB3	Tribbles pseudokinase 3	6.945552	7.092711	6.649961	6.492022	6.540069	5.7021	-1.570267122	-0.65101	1.570267122	Down	0.044665487	0.663327404
4869	NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)	10.13714	9.85456	10.33739	11.34299	10.78674	10.59538	1.739500789	0.798673333	1.739500789	Up	0.012184746	0.663327404

1901	S1PR1	Sphingosine-1-phosphate receptor 1	3.937775	3.907787	4.221344	5.749544	6.640662	4.446442	3.010229189	1.589873333	3.010229189	Up	0.015833455	0.663327404
9220	TIAF1	TGFB1-induced anti-apoptotic factor 1	8.997757	9.080449	8.520778	7.135585	8.126678	8.347749	-1.99479432	-0.99624	1.99479432	Down	0.021753249	0.663327404
7412	VCAM1	Vascular cell adhesion molecule 1	3.253778	3.673329	4.124777	6.0293	5.804344	5.906133	4.689096599	2.22931	4.689096599	Up	2.759116E-05	0.134764092
6363	CCL19	Chemokine (C-C motif) ligand 19	4.771866	6.411744	5.267522	7.637244	6.546111	6.225066	2.49509832	1.319096667	2.49509832	Up	0.035498591	0.663327404
8501	SLC43A1	Solute carrier family 43 (amino acid system L transporter), member 1	10.47418	10.28779	10.2337	8.79626	8.42322	10.38222	-2.190595838	-1.131323333	2.190595838	Down	0.048936299	0.663327404
26470	SEZ6L2	Seizure related 6 homolog (mouse)-like 2	8.385563	8.084999	8.567111	7.142877	7.436133	8.099972	-1.724689516	-0.786336667	1.7246895	Down	0.0243756	0.6633274

											16		57	04
4015	LOX	Lysyl oxidase	3.25782	3.83589	3.67114	4.92149	4.03894	4.02946	1.67212187	0.74168	1.67212187	Up	0.032503006	0.663327404
3815	KIT	V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	6.17109	7.14921	6.04979	7.90385	7.08986	7.40255	2.012129742	1.008723333	2.012129742	Up	0.022703606	0.663327404
51196	PLCE1	Phospholipase C epsilon 1	2.92576	3.37598	3.62729	4.36583	4.8248	3.39782	1.848651569	0.886473333	1.848651569	Up	0.046535541	0.663327404
56849	TCEAL7	Transcription elongation factor A (SII)-like 7	3.05875	4.71517	4.22252	6.08368	5.9399	4.97651	3.177480636	1.667883333	3.177480636	Up	0.009446517	0.663327404
92610	TIFA	TRAF-interacting protein with forkhead-associated domain	5.28469	5.07248	5.37746	6.3607	5.59031	5.68829	1.552819349	0.63489	1.552819349	Up	0.031770058	0.663327404
152579	SCFD2	Sec1 family domain containing 2	5.3452	5.0508	5.2909	5.8885	6.1784	5.5786	1.5723292	0.6529033	1.57232	Up	0.01378	0.66332

			7		3	8	7	6	28	33	9228		4799	7404
83690	CRISPLD1	Cysteine-rich secretory protein LCCL domain containing 1	2.90966	4.09912	3.37598	5.55932	4.70234	3.67646	2.272772583	1.184453333	2.272772583	Up	0.049218663	0.663327404
51187	RSL24D1	Ribosomal L24 domain containing 1	6.25884	6.0058	6.4249	7.2264	6.56772	7.11483	1.669948178	0.739803333	1.669948178	Up	0.013791566	0.663327404
3726	JUNB	Jun B proto-oncogene	7.19225	6.79621	7.17655	8.18281	8.95868	7.95081	2.477863417	1.309096667	2.477863417	Up	0.002508979	0.663327404
28774	IGLV8-61	Immunoglobulin lambda variable 8-61	3.51056	4.0999	3.25867	3.78288	5.15543	4.91618	1.993246312	0.99512	1.993246312	Up	0.036782854	0.663327404
246269	LACE1	Lactation elevated 1	5.34172	5.39125	5.2599	4.40543	5.12832	4.6211	-1.529090001	-0.612673333	1.529090001	Down	0.021710659	0.663327404
1012	CDH13	Cadherin 13	3.24	4.11	4.13	8.22	6.50	5.61	7.7095	2.9466	7.709	Up	0.002	0.663

			947	181	803	839	083	002	32257	43333	532257		35585	327404
399687	MYO18A	Myosin XVIIIA	8.99757	9.08049	8.52078	7.13585	8.12678	8.34749	-1.99479432	-0.99624	1.99479432	Down	0.021753249	0.663327404
57462	KIAA1161	KIAA1161	6.123111	5.9037	6.0222	4.76627	5.00954	5.93042	-1.718234168	-0.780926667	1.718234168	Down	0.037027894	0.663327404
9510	ADAMTS1	ADAM metallopeptidase with thrombospondin type 1 motif 1	4.309947	4.707789	4.449998	5.073199	7.173677	5.398188	2.625453541	1.392566667	2.625453541	Up	0.031017322	0.663327404
109	ADCY3	Adenylate cyclase 3	6.469244	7.1886	7.210222	7.81441	8.22364	7.22445	1.738865887	0.798146667	1.738865887	Up	0.040147304	0.663327404
5909	RAP1GAP	RAP1 gtpase activating protein	9.44941	10.06653	10.04344	8.16975	8.85019	9.72606	-1.915596007	-0.937793333	1.915596007	Down	0.049670483	0.663327404
20	EPH	EPH receptor A3	3.	5.	5.	8.	6.	6.	6.4	2.6	6.4	U	0.0	0.6

42	A3		64501	50699	02753	89603	95532	42734	9675815	9972	9675815	p	07141204	63327404
9153	SLC28A2	Solute carrier family 28 (concentrative nucleoside transporter), member 2	9.48843	9.07478	9.17632	6.87291	6.98414	8.36701	-3.576355124	-1.83849	3.576355124	Down	0.002445873	0.663327404
10800	CYSLTR1	Cysteinyl leukotriene receptor 1	3.57842	3.47712	3.75204	4.15318	4.86638	3.78956	1.587965974	0.66718	1.587965974	Up	0.041445061	0.663327404
25777	SUN2	Sad1 and UNC84 domain containing 2	4.43582	3.80558	4.21827	5.43647	4.47347	4.72852	1.654348676	0.726263333	1.654348676	Up	0.037754392	0.663327404
115361	GBP4	Guanylate binding protein 4	4.55163	4.5813	5.0671	6.17269	5.56676	5.00763	1.801272769	0.849016667	1.801272769	Up	0.029743403	0.663327404
10974	ADIRF	Adipogenesis regulatory factor	7.70233	8.02233	8.63396	9.66697	10.35293	8.22414	2.454008081	1.29514	2.454008081	Up	0.0457209	0.6633274

											81		61	04
3215	HOXB5	Homeobox B5	3.78962	3.74434	3.83091	6.04472	5.22783	3.83091	2.372152346	1.246196667	2.372152346	Up	0.042018099	0.663327404
51085	MLXIPL	MLX interacting protein-like	10.01843	9.431183	9.15647	7.84191	8.08857	9.30912	-2.177053206	-1.122376667	2.177053206	Down	0.030414704	0.663327404
4673	NAP1L1	Nucleosome assembly protein 1-like 1	8.04133	7.72293	8.17013	9.19958	8.42838	8.29932	1.584795476	0.642966667	1.584795476	Up	0.044216727	0.663327404
2702	GJA5	Gap junction protein α 5	3.45535	3.61419	3.37831	4.61866	4.29894	3.687	1.645945614	0.718916667	1.645945614	Up	0.018773304	0.663327404
27315	PGAP2	Post-GPI attachment to proteins 2	5.2857	4.59794	5.44401	6.09866	5.56515	5.87549	1.666956742	0.737216667	1.666956742	Up	0.027144442	0.663327404
8483	CILP	Cartilage intermediate layer protein	6.7724	6.9908	9.1482	5.0913	4.4602	5.6174	-5.982934	-2.580853	5.98293	Dow	0.00500	0.66332

			7	8	9	1	9	8	768	333	4768	n	5053	7404
5314	PKHD1	Polycystic kidney and hepatic disease 1 (autosomal recessive)	6.51943	5.69625	5.42451	4.64857	5.21617	5.11837	-1.847652357	-0.885693333	1.847652357	Down	0.025000569	0.663327404
51186	WBP5	WW domain binding protein 5	7.01472	7.26994	7.00349	8.42139	7.81361	7.58903	1.796630005	0.845293333	1.796630005	Up	0.010060129	0.663327404
114786	XKR4	X-linked Kx blood group related 4	3.31835	3.13104	3.02109	4.03318	5.04561	3.53363	2.066677758	1.047313333	2.066677758	Up	0.021664189	0.663327404
286343	LURAP1L	Leucine rich adaptor protein 1-like	6.96396	7.04284	7.04928	7.85755	8.10051	7.07741	1.579859943	0.659796667	1.579859943	Up	0.045473232	0.663327404
642475	MROH6	Maestro heat-like repeat family member 6	7.22734	6.83423	6.94176	5.45523	6.05167	6.36062	-2.063752553	-1.04527	2.063752553	Down	0.005013057	0.663327404
9619	ABCG1	ATP binding cassette subfamily	8.25	7.55	8.19	7.33	6.01	7.58	-2.034	-1.024	2.034	Do	0.048	0.663

		G member 1	974	946	023	896	033	532	874754	94	874754	wn	045191	327404
28396	IGHV4-31	Immunoglobulin heavy variable 4-31	6.96971	7.48787	6.70479	7.76402	10.30554	8.63679	3.599991084	1.847993333	3.599991084	Up	0.018419603	0.663327404
1827	RCAN1	Regulator of calcineurin 1	6.266266	5.48031	6.36153	6.95126	7.72438	7.04069	2.301769444	1.202743333	2.301769444	Up	0.006305797	0.663327404
6513	SLC2A1	Solute carrier family 2 (facilitated glucose transporter), member 1	10.01251	9.29385	8.94118	7.41478	8.50697	8.89984	-2.206841985	-1.141983333	2.206841985	Down	0.033483176	0.663327404
3491	CYR61	Cysteine-rich, angiogenic inducer, 61	5.77177	6.55452	5.52715	9.76615	9.54015	8.81194	10.7152975	3.4216	10.7152975	Up	2.35374E-05	0.131385988
5274	SERPINI1	Serpin peptidase inhibitor, clade I (neuroserpin), member 1	3.86535	3.85783	3.76048	4.71461	5.33295	4.18061	1.885355611	0.914836667	1.885355611	Up	0.013005969	0.663327404
14	CTG	Connective tissue	3.	6.	5.	10	9.	7.	12.	3.6	12.	U	0.0	0.6

90	F	growth factor	87475	77841	30396	.25735	30438	40285	72111598	69153333	72111598	p	04864122	63327404
4680	CEACAM6	Carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	7.20651	6.99634	7.51356	8.3654	9.31235	7.44265	2.195673186	1.13466333	2.195673186	Up	0.038005353	0.663327404
257629	ANKS4B	Ankyrin repeat and sterile α motif domain containing 4B	7.61114	7.0416	7.25137	6.5181	6.13339	7.12437	-1.635142837	-0.709416667	1.635142837	Down	0.04276043	0.663327404
114794	ELFN2	Extracellular leucine-rich repeat and fibronectin type III domain containing 2	7.44202	7.62608	8.51839	6.55588	6.48753	7.56607	-1.98940453	-0.992336667	1.98940453	Down	0.038042778	0.663327404
55299	BRIX1	BRX1, biogenesis of ribosomes	4.02946	3.2238	3.92404	4.55354	4.47472	4.22261	1.614614776	0.6919	1.614614776	Up	0.020471421	0.663327404
26999	CYFIP2	Cytoplasmic FMR1 interacting protein 2	7.9296	7.09882	7.14292	6.30057	6.70129	7.02462	-1.641430122	-0.714953333	1.6414301	Down	0.0446162	0.66332 74

											22		36	04
9852	EPM2AIP1	EPM2A (laforin) interacting protein 1	6.98213	7.03695	6.86846	6.32282	6.25179	6.51297	-1.515702558	-0.599986667	1.515702558	Down	0.006216084	0.663327404
7027	TFDP1	Transcription factor Dp-1	5.65057	5.2321	6.07372	6.47062	6.17309	6.19846	1.546056811	0.628593333	1.546056811	Up	0.034714997	0.663327404
1428	CRYM	Crystallin mu	8.6716	8.87978	8.57522	7.1452	7.70812	8.42021	-1.933243461	-0.951023333	1.933243461	Down	0.020038118	0.663327404
374666	WASH3P	WAS protein family homolog 3 pseudogene	8.71932	8.39441	7.93592	7.33688	7.98365	7.7407	-1.583159561	-0.662806667	1.583159561	Down	0.038999513	0.663327404
4493	MT1E	Metallothionein 1E	8.32281	7.80217	8.30669	7.45244	7.86744	7.06337	-1.605259645	-0.682806667	1.605259645	Down	0.032751015	0.663327404
8045	RASSF7	Ras association (ralgds/AF-6) domain family	10.313	9.5383	9.4660	8.4638	9.0165	9.1815	-1.847165	-0.885313	1.84716	Dow	0.01969	0.66332

		(N-terminal) member 7	45	1	6	3		5	757	333	5757	n	649	7404
7780	SLC30A2	Solute carrier family 30 (zinc transporter), member 2	10.38438	10.22299	10.45328	7.13593	7.78188	9.63002	-4.503167059	-2.17094	4.503167059	Down	0.007354935	0.663327404
28820	IGLV1-51	Immunoglobulin lambda variable 1-51	5.072338	4.984255	5.124461	5.379866	6.830442	7.069377	2.577793444	1.366136667	2.577793444	Up	0.014362389	0.663327404
1844	DUSP2	Dual specificity phosphatase 2	4.519962	4.413361	4.779913	4.932966	5.613888	5.195399	1.598394289	0.676623333	1.598394289	Up	0.015301955	0.663327404
55312	RFK	Riboflavin kinase	9.399622	9.128211	9.297522	8.149088	8.693311	9.119991	-1.537958598	-0.621016667	1.537958598	Down	0.047083693	0.663327404
221424	LRRC73	Leucine rich repeat containing 73	4.647249	4.261088	4.833255	3.7001	3.7338	4.244922	-1.610601967	-0.6876	1.610601967	Down	0.015213539	0.663327404
2214	C6orf223	Chromosome 6 open reading frame	6.65	6.73	6.03	4.85	4.88	6.31	-2.180	-1.124	2.180	Do	0.032	0.663

16		223	542	949	128	363	76	099	496488	656667	496488	wn	488058	327404
55040	EPN3	Epsin 3	9.00533	8.25081	7.99307	7.06609	7.4363	8.00761	-1.883048293	-0.91307	1.883048293	Down	0.030474216	0.663327404
56143	PCDHA5	Protocadherin α 5	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
83856	FSD1L	Fibronectin type III and SPRY domain containing 1-like	5.91038	4.49142	5.11874	3.76989	2.99114	4.85511	-2.464793301	-1.301466667	2.464793301	Down	0.042533433	0.663327404
83450	DRC3	Dynein regulatory complex subunit 3	6.25638	6.53043	5.6252	5.21923	5.03257	5.26465	-1.95231611	-0.965186667	1.952316111	Down	0.006149158	0.663327404
10299	MARCH6	Membrane associated ring-CH-type finger 6	9.7532	9.74451	9.49859	8.86822	9.28694	8.87192	-1.576151995	-0.656406667	1.576151995	Down	0.008448227	0.663327404
55	PNM	Paraneoplastic Ma	3.	5.	3.	6.	6.	5.	3.8	1.9	3.8	U	0.0	0.6

228	AL1	antigen family-like 1	13611	2838	56173	5797	1593	08403	56066682	4713	56066682	p	15479983	63327404
5730	PTGDS	Prostaglandin D2 synthase	9.42994	10.42884	9.48787	11.1943	10.17478	11.24459	2.127275176	1.089006667	2.127275176	Up	0.024683072	0.663327404
119032	BORCS7	BLOC-1 related complex subunit 7	7.55009	7.1215	7.77023	6.33768	6.94433	7.09877	-1.609947154	-0.687013333	1.609947154	Down	0.03615205	0.663327404
236624	CBLC	Cbl proto-oncogene C, E3 ubiquitin protein ligase	7.88654	7.25651	7.08517	6.25634	6.31728	6.796	-1.935715147	-0.952866667	1.935715147	Down	0.008612028	0.663327404
80115	BAIAP2L2	BAI1-associated protein 2-like 2	9.74216	9.58795	9.34772	7.64819	8.58043	9.2431	-2.097930182	-1.068966667	2.097930182	Down	0.027127713	0.663327404
55745	AP5M1	Adaptor-related protein complex 5, mu 1 subunit	4.33417	4.0762	3.53363	3.27134	3.12762	3.52304	-1.59549048	-0.674	1.595490448	Down	0.018640789	0.663327404

79652	TMEM204	Transmembrane protein 204	6.1676	6.67771	6.00119	7.9135	7.7854	6.7354	2.29092993	1.19593333	2.29092993	Up	0.0111161198	0.663327404
187	APLNR	Apelin receptor	3.58276	4.89167	4.48411	7.58706	6.01803	4.99772	3.684383747	1.881423333	3.684383747	Up	0.023535748	0.663327404
7980	TFPI2	Tissue factor pathway inhibitor 2	3.53327	3.64314	2.96727	4.00648	4.49258	4.46691	1.919543605	0.940763333	1.919543605	Up	0.003941998	0.663327404
7431	VIM	Vimentin	9.18325	9.88896	10.76845	12.33322	11.7375	10.63206	3.07525628	1.620706667	3.07525628	Up	0.017971801	0.663327404
283971	CLEC18C	C-type lectin domain family 18, member C	6.87899	6.64418	6.1582	4.97018	5.72353	5.75503	-2.110439297	-1.077543333	2.110439297	Down	0.007094489	0.663327404
55342	STRBP	Spermatid perinuclear RNA binding protein	8.39094	7.62236	7.91238	6.92836	7.5441	7.54143	-1.555375947	-0.637263333	1.5553759	Down	0.0485702	0.6633274

											47		68	04
90268	OTULIN	OTU deubiquitinase with linear linkage specificity	6.26948	5.89574	5.76938	5.27322	5.36117	5.45085	-1.533101626	-0.616453333	1.533101626	Down	0.011433404	0.663327404
65997	RASL11B	RAS-like, family 11, member B	3.136611	3.42212	2.99695	5.51218	3.94011	3.52283	2.203779681	1.13998	2.203779681	Up	0.048394047	0.663327404
29951	PDZRN4	PDZ domain containing ring finger 4	2.549855	3.953233	2.827799	4.684477	3.698622	4.0901	2.066859044	1.04744	2.066859044	Up	0.034996578	0.663327404
2919	CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, α)	4.312557	4.571818	4.68506	7.632944	7.788655	4.378667	4.219113797	2.076944	4.219113797	Up	0.045309439	0.663327404
5450	POU2AF1	POU class 2 associating factor 1	8.518884	9.545581	8.9705	6.322269	7.376612	7.48901	-3.861362502	-1.94911	3.861362502	Down	0.001438326	0.663327404
3003	GZMK	Granzyme K	3.74	4.98	4.04	5.58	5.16	5.60	2.2870	1.1935	2.287	Up	0.008	0.663

			606	425	118	379	575	249	90308	13333	090308		126818	327404
57045	TWSG1	Twisted gastrulation BMP signaling modulator 1	6.89899	6.49309	6.67121	7.95317	7.03554	7.08585	1.591539908	0.670423333	1.591539908	Up	0.047033367	0.663327404
22932	POMZP3	POM121 and ZP3 fusion	5.40749	6.60325	7.05956	5.39117	5.34056	4.79999	-2.265024518	-1.179526667	2.265024518	Down	0.026502938	0.663327404
10699	CORIN	Corin, serine peptidase	4.71782	5.37076	5.53637	6.3739	5.84541	6.88207	2.232731858	1.15881	2.232731858	Up	0.009092357	0.663327404
3751	KCND2	Potassium channel, voltage gated Shal related subfamily D, member 2	5.44575	5.48501	5.44575	3.83202	4.69725	5.2892	-1.805852425	-0.85268	1.805852425	Down	0.042460385	0.663327404
7620	ZNF69	Zinc finger protein 69	8.55975	7.53921	7.86612	6.53764	7.39914	7.49844	-1.794132782	-0.843286667	1.794132782	Down	0.047557424	0.663327404
74	MYR	Myelin regulatory	10	10	10	9.	9.	9.	-1.	-0.	1.5	D	0.0	0.6

5	F	factor	.4634	.09271	.27236	414427	80376	8155	513945565	598313333	13945565	own	1392446	63327404
110075	STMN2	Stathmin 2	2.81178	3.41038	3.60171	5.66108	6.8842	4.11819	4.856330697	2.279866667	4.856330697	Up	0.009239704	0.663327404
221223	CES5A	Carboxylesterase 5A	4.99095	4.49137	5.55351	2.80942	3.09628	4.36149	-3.009547666	-1.589546667	3.009547666	Down	0.008800089	0.663327404
60677	CELF6	CUGBP, Elav-like family member 6	5.53838	5.06955	5.32744	4.61989	4.5668	4.95148	-1.51473631	-0.599066667	1.51473631	Down	0.015114215	0.663327404
1466	CSRP2	Cysteine and glycine rich protein 2	4.21271	5.94205	4.57113	7.54261	7.21242	5.57045	3.6465445	1.86653	3.6465445	Up	0.020151671	0.663327404
90990	KIFC2	Kinesin family member C2	7.41714	7.27596	6.8159	6.18989	6.547	6.78405	-1.583027883	-0.662686667	1.583027883	Down	0.025597168	0.663327404

25817	FAM19A5	Family with sequence similarity 19 (chemokine (C-C motif)-like), member A5	3.26759	3.8714	3.40546	5.6813	5.22783	3.87236	2.661697587	1.412346667	2.661697587	Up	0.015914596	0.663327404
634	CEACAM1	Carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)	5.2622	5.21462	5.52831	6.35194	5.99493	5.69248	1.600075521	0.67814	1.600075521	Up	0.014879253	0.663327404
28923	IGKV2-24	Immunoglobulin κ variable 2-24	9.98692	10.52286	10.06924	10.87867	13.11485	12.91994	4.321343757	2.11148	4.321343757	Up	0.007525687	0.663327404
196740	VSTM4	V-set and transmembrane domain containing 4	2.99759	3.68399	3.38502	5.61388	3.97043	3.96685	2.236929828	1.16152	2.236929828	Up	0.037219757	0.663327404
28831	IGLJ3	Immunoglobulin lambda joining 3	4.55853	4.63567	4.7419	5.04929	6.59543	5.6371	2.166310438	1.11524	2.166310438	Up	0.018807832	0.663327404
51705	EMCN	Endomucin	4.33466	4.60275	5.47082	7.43819	7.70315	5.33007	4.058818984	2.02106	4.05881889	Up	0.0157485	0.6633274

											84		37	04
5337	PLD1	Phospholipase D1	10.9788	10.26772	10.86983	9.13397	9.83914	10.3569	-1.9036655	-0.92878	1.9036655	Down	0.029745895	0.663327404
57556	SEMA6A	Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	10.33536	10.06941	9.82647	8.16728	9.00461	9.96887	-2.042250732	-1.03016	2.042250732	Down	0.047530667	0.663327404
125488	TTC39C	Tetratricopeptide repeat domain 39C	8.28213	8.01736	8.02539	6.02472	7.16641	7.91372	-2.104304282	-1.073343333	2.104304282	Down	0.045463734	0.663327404
11156	PTP4A3	Protein tyrosine phosphatase type IVA, member 3	5.98054	6.39824	6.1453	7.21728	7.35198	6.23467	1.693431934	0.75995	1.693431934	Up	0.045927799	0.663327404
132430	PABPC4L	Poly(A) binding protein, cytoplasmic 4-like	3.39952	4.06641	3.79054	4.62446	4.58397	4.09727	1.605560097	0.683076667	1.605560097	Up	0.018011007	0.663327404
5069	PAPPA	Pregnancy-associated plasma protein	3.99	4.61	4.17	5.91	5.23	4.52	1.9514	0.9645	1.951	Up	0.030	0.663

		A, pappalysin 1	705	038	165	403	833	047	99825	83333	499825		032194	327404
161198	CLEC14A	C-type lectin domain family 14, member A	5.2536	4.81349	5.55299	6.95538	7.12021	5.67443	2.596641179	1.376646667	2.596641179	Up	0.01147695	0.663327404
10100	TSPAN2	Tetraspanin 2	3.32129	4.32776	3.14636	6.12239	4.69278	4.15361	2.62282824	1.391123333	2.62282824	Up	0.03555192	0.663327404
152007	GLIPR2	GLI pathogenesis-related 2	4.57525	5.06056	4.94514	7.06609	5.52365	5.33431	2.164999462	1.114366667	2.164999462	Up	0.042066012	0.663327404
302	ANXA2	Annexin A2	9.57071	9.10102	9.85703	10.67315	10.9875	9.69464	1.921425004	0.942176667	1.921425004	Up	0.035452806	0.663327404
56907	SPIRE1	Spire-type actin nucleation factor 1	4.71869	5.0508	4.79137	5.55969	5.42903	5.42529	1.534444714	0.617716667	1.534444714	Up	0.005212778	0.663327404
37	MAL	Metastasis	7.	7.	7.	8.	8.	8.	1.8	0.8	1.8	U	0.0	0.6

8938	AT1	associated lung adenocarcinoma transcript 1 (non-protein coding)	58175	57159	48152	40548	5794	19652	01060528	48846667	01060528	p	01201676	63327404
5792	PTPRF	Protein tyrosine phosphatase, receptor type, F	11.299979	11.17211	11.17116	10.04873	10.56327	10.9741	-1.608430204	-0.685653333	1.608430204	Down	0.025197188	0.663327404
4217	MAP3K5	Mitogen-activated protein kinase kinase kinase 5	7.205992	6.9245	6.8702	7.58019	7.99411	7.27744	1.533725183	0.61704	1.533725183	Up	0.027926119	0.663327404
80704	SLC19A3	Solute carrier family 19 (thiamine transporter), member 3	9.043348	8.38237	7.80055	6.8909	5.84793	8.06518	-2.778160598	-1.47413	2.778160598	Down	0.036403907	0.663327404
101928168	LOC101928168	Uncharacterized LOC101928168	7.677955	7.55515	7.75394	6.91091	6.23976	7.23801	-1.822754167	-0.86612	1.822754167	Down	0.013695428	0.663327404
761	CA3	Carbonic anhydrase III	6.269947	5.61789	5.84014	4.69977	4.88953	5.47739	-1.849245374	-0.886936667	1.8492453	Down	0.0122404	0.6633274

											74		18	04
3782	KCNN3	Potassium channel, calcium activated intermediate/small conductance subfamily N α, member 3	4.19241	4.90447	4.59386	5.0289	5.62269	5.32846	1.697137357	0.763103333	1.697137357	Up	0.015155034	0.663327404
117245	HRASLS5	HRAS like suppressor family member 5	4.40683	4.68356	5.10629	3.66392	4.3056	4.38552	-1.530369472	-0.61388	1.530369472	Down	0.049214088	0.663327404
9839	ZEB2	Zinc finger E-box binding homeobox 2	5.42705	6.91852	6.13348	7.99136	7.76576	6.92051	2.63815013	1.399526667	2.63815013	Up	0.014067874	0.663327404
5547	PRCP	Prolylcarboxypeptidase	7.5216	7.40998	7.93609	8.32575	8.28853	8.14536	1.548269554	0.630656667	1.548269554	Up	0.011949526	0.663327404
6196	RPS6KA2	Ribosomal protein S6 kinase, 90kda, polypeptide 2	6.85489	7.73286	7.50095	8.25353	8.17645	7.76554	1.627066631	0.702273333	1.627066631	Up	0.033884503	0.663327404
3482	CCL15-C	CCL15-CCL14 readthrough (NMD	7.03	7.60	7.46	8.16	8.29	7.51	1.5378	0.6209	1.537	Up	0.049	0.663

49	CL14	candidate)	811	729	465	17	755	351	37786	03333	837786		952204	327404
105369239	LOC105369239	Multidrug resistance-associated protein 6	7.42968	7.06804	7.51234	6.07264	6.38875	6.99575	-1.803717417	-0.850973333	1.803717417	Down	0.015506117	0.663327404
10409	BASP1	Brain abundant, membrane attached signal protein 1	5.49182	7.38603	6.49407	9.01622	7.21242	7.52355	2.751255263	1.46009	2.751255263	Up	0.046626802	0.663327404
200014	CC2D1B	Coiled-coil and C2 domain containing 1B	5.7607	5.72116	5.59014	4.95866	5.3076	4.89938	-1.553425801	-0.635453333	1.553425801	Down	0.007028902	0.663327404
64284	RAB17	RAB17, member RAS oncogene family	10.55987	10.22196	10.03988	8.70329	8.846	10.0624	-2.099443069	-1.070006667	2.099443069	Down	0.023184165	0.663327404
10370	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp rich carboxy-terminal domain, 2	4.51542	4.5454	5.59917	5.81535	5.67267	5.60407	1.754062313	0.8107	1.754062313	Up	0.03190991	0.663327404
17	DST	Destrin (actin	4.	4.	4.	4.	3.	3.	-1.	-0.	1.5	D	0.0	0.6

1220	NP2	depolymerizing factor) pseudogene 2	95357	54333	47122	09777	90648	99712	575252756	655583333	75252756	own	05537389	63327404
3384	ICAM2	Intercellular adhesion molecule 2	4.9533	5.57593	5.75054	6.30413	7.15366	5.87266	2.023556783	1.016893333	2.023556783	Up	0.026987399	0.663327404
5774	PTPN3	Protein tyrosine phosphatase, non-receptor type 3	8.26086	7.25946	7.29379	6.54878	6.90313	6.58746	-1.898570186	-0.924913333	1.898570186	Down	0.016771339	0.663327404
57616	TSHZ3	Teashirt zinc finger homeobox 3	3.56362	4.88906	3.96473	6.8694	4.96525	5.31082	2.981462105	1.57602	2.981462105	Up	0.023614164	0.663327404
467	ATF3	Activating transcription factor 3	6.56294	4.94031	5.25558	6.31737	10.09572	8.14533	6.062291957	2.599863333	6.062291957	Up	0.025046176	0.663327404
11237	RNF24	Ring finger protein 24	5.17914	5.46479	5.04764	6.63785	6.18374	5.71762	1.930819542	0.949213333	1.930819542	Up	0.008120013	0.663327404

9415	FADS2	Fatty acid desaturase 2	5.04949	6.11027	5.22121	7.11637	6.14934	5.94678	1.923641559	0.94384	1.923641559	Up	0.047543877	0.663327404
54854	FAM83E	Family with sequence similarity 83 member E	7.88254	7.18773	7.48236	6.42201	7.08716	7.0815	-1.573510348	-0.653986667	1.573510348	Down	0.042735881	0.663327404
79574	EPS8L3	EPS8-like 3	10.82613	10.82964	10.39907	9.5149	9.72985	10.39494	-1.747206344	-0.80505	1.747206344	Down	0.018030634	0.663327404
84440	RAB11FIP4	RAB11 family interacting protein 4 (class II)	7.55957	7.47728	7.25869	6.10045	6.90012	6.95745	-1.716147236	-0.779173333	1.716147236	Down	0.019893222	0.663327404
93517	SDR42E1	Short chain dehydrogenase/reductase family 42E, member 1	5.81402	5.44037	5.58868	4.75517	4.80598	5.2768	-1.589280013	-0.668373333	1.589280013	Down	0.012291505	0.663327404
10053273	MSH5-SAPCD1	MSH5-SAPCD1 readthrough (NMD candidate)	7.65112	7.2602	7.30474	7.10707	6.82431	6.52804	-1.500607492	-0.585546667	1.50006074	Down	0.0265868	0.6633274

2											92		01	04
116441	TM4SF18	Transmembrane 4 L six family member 18	3.42051	4.45629	4.94033	5.93271	6.12695	4.75505	2.518433552	1.332526667	2.518433552	Up	0.028615696	0.663327404
1306	COL15A1	Collagen, type XV, α 1	5.61927	7.23856	6.9172	9.83576	9.11951	7.7956	5.011630323	2.32528	5.011630323	Up	0.006165538	0.663327404
165215	FAM171B	Family with sequence similarity 171 member B	5.96513	5.76567	5.57027	6.94169	7.22534	6.08132	1.975785961	0.982426667	1.975785961	Up	0.015000776	0.663327404
54964	C1orf56	Chromosome 1 open reading frame 56	7.16811	7.12157	7.11115	6.60613	6.11141	6.8861	-1.51473281	-0.599063333	1.51473281	Down	0.029968256	0.663327404
9537	TP53I11	Tumor protein p53 inducible protein 11	7.95333	7.53515	7.99922	6.28454	7.27075	7.05326	-1.94492789	-0.959716667	1.94492789	Down	0.012381973	0.663327404
22795	NID2	Nidogen 2	5.0011	5.8121	5.8237	7.6483	6.6999	6.0347	2.3761896	1.24865	2.37618	Up	0.02323	0.6632

			8	6	1		6	4	73		9673		6396	7404
1073	CFL2	Cofilin 2 (muscle)	3.91418	4.05342	3.86809	5.76318	4.24369	4.6501	1.919095713	0.940426667	1.919095713	Up	0.036419605	0.663327404
3512	JCHAIN	Joining chain of multimeric iga and igm	6.68684	6.68638	6.64623	7.28964	9.46322	9.69855	4.419817091	2.143986667	4.419817091	Up	0.008692649	0.663327404
81567	TXNDC5	Thioredoxin domain containing 5 (endoplasmic reticulum)	9.30081	8.98733	9.05773	10.22305	9.94188	9.28659	1.62662685	0.701883333	1.62662685	Up	0.029886844	0.663327404
1287	COL4A5	Collagen, type IV, α 5	4.47536	5.96731	4.38868	7.18918	6.33991	6.12515	3.047507983	1.60763	3.047507983	Up	0.012017855	0.663327404
54331	GNG2	Guanine nucleotide binding protein (G protein), γ 2	6.23018	7.00982	7.26687	7.68451	8.38664	7.16549	1.878945646	0.909923333	1.878945646	Up	0.048676659	0.663327404
2579	QPCT	Glutaminyl-peptide cyclotransferase	3.40	3.47	3.56	5.89	5.79	4.25	3.5653	1.8340	3.565	Up	0.003	0.663

7			218	535	641	395	385	833	98499	63333	398499		177208	327404
80031	SEMA6D	Sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D	4.420633	5.265778	4.849499	5.941855	6.175944	5.835011	2.202232313	1.138966667	2.202232313	Up	0.002086226	0.663327404
64787	EPS8L2	EPS8-like 2	10.12189	9.646699	9.410711	8.4127	8.944406	9.2058	-1.83063394	-0.872343333	1.830633394	Down	0.014827066	0.663327404
7092	TLL1	Tolloid like 1	3.0851	3.855592	3.537335	5.412229	6.050822	3.732233	2.973901093	1.572356667	2.973901093	Up	0.02624027	0.663327404
85409	NKD2	Naked cuticle homolog 2 (*Drosophila*)	3.6096	4.848861	3.556553	4.777773	4.887761	4.891344	1.799147332	0.847313333	1.799147332	Up	0.041633746	0.663327404
5327	PLAT	Plasminogen activator, tissue	4.983325	5.202284	6.18	7.505445	7.363365	6.648667	3.288037303	1.717226667	3.288037303	Up	0.002340012	0.663327404

240	ALOX5	Arachidonate 5-lipoxygenase	4.99013	4.50345	4.68183	5.39201	6.12327	5.138	1.72710152	0.825956667	1.772710152	Up	0.021252067	0.663327404
83657	DYNLRB2	Dynein, light chain, roadblock-type 2	4.80852	5.02922	4.8889	4.23618	3.68573	3.83115	-1.987828555	-0.991193333	1.987828555	Down	0.000806553	0.663327404
3485	IGFBP2	Insulin like growth factor binding protein 2	5.04445	5.93853	4.89047	9.2768	7.33843	6.05828	4.812166855	2.266686667	4.812166855	Up	0.020541215	0.663327404
115106	HAUS1	HAUS augmin like complex subunit 1	5.59755	5.40289	6.36748	6.75501	6.7845	6.18788	1.72487283	0.78649	1.72487283	Up	0.034423843	0.663327404
2562	GABRB3	Γ-aminobutyric acid (GABA) A receptor, β 3	8.99277	8.69317	8.52312	6.47173	7.41261	8.19705	-2.595279646	-1.37589	2.595279646	Down	0.012661939	0.663327404
84632	AFAP1L2	Actin filament associated protein 1 like 2	3.24794	3.85679	3.82814	6.38888	6.12468	3.93289	3.574793732	1.83786	3.5747937	Up	0.0206866	0.6633274

											32		31	04
728239	MAGED4	Melanoma antigen family D4	6.44492	6.68921	6.56182	6.14301	5.62802	6.01457	-1.554858543	-0.636783333	1.554858543	Down	0.011942804	0.663327404
23648	SSBP3	Single stranded DNA binding protein 3	10.8633	10.69713	10.59343	9.45012	9.87608	10.23322	-1.821104024	-0.864813333	1.821104024	Down	0.006080024	0.663327404
23036	ZNF292	Zinc finger protein 292	9.40838	8.54444	8.54645	7.77166	8.13624	8.37779	-1.667700245	-0.73786	1.667700245	Down	0.037721228	0.663327404
694	BTG1	B-cell translocation gene 1, anti-proliferative	9.92171	9.42769	9.48467	10.10669	10.10259	10.45278	1.525550566	0.60933	1.525550566	Up	0.017600183	0.663327404
1282	COL4A1	Collagen, type IV, α 1	3.89775	6.69455	4.87417	9.43228	7.06166	6.23927	5.360050773	2.422246667	5.360050773	Up	0.039839993	0.663327404
3148	HMGB2	High mobility group box 2	6.6474	7.2332	7.1513	8.7347	8.1794	7.3377	2.1042216	1.0732866	2.10422	Up	0.02129	0.66332

			1	5	4	3		3	3	67	163		7815	7404
23024	PDZRN3	PDZ domain containing ring finger 3	4.124558	4.89863	4.88243	7.07969	5.43647	5.57953	2.632955856	1.396683333	2.632955856	Up	0.019050539	0.663327404
6138	RPL15	Ribosomal protein L15	8.815507	8.257	8.848803	9.901137	9.03975	9.2427	1.687132561	0.754573333	1.687132561	Up	0.030216955	0.663327404
862	RUNX1T1	Runt-related transcription factor 1; translocated to, 1 (cyclin D-related)	4.396621	6.1412	5.05548	7.24408	6.45899	5.90009	2.525828467	1.336756667	2.525828467	Up	0.032574005	0.663327404
83992	CTTNBP2	Cortactin binding protein 2	8.27753	7.38758	8.14239	6.77023	6.70737	7.39082	-1.972046176	-0.979693333	1.972046176	Down	0.013683527	0.663327404
2528	FUT6	Fucosyltransferase 6	7.878895	7.83498	7.6786	6.80221	7.10328	7.50792	-1.579761389	-0.659706667	1.579761389	Down	0.017015587	0.663327404
2461	AKR7L	Aldo-keto reductase family	8.71	8.15	8.39	7.01	7.11	8.12	-2.000	-1.000	2.000	Do	0.017	0.663

81		7-like (gene/pseudogene)	234	057	389	448	508	715	041589	03	041589	wn	94255	327404
162681	C18orf54	Chromosome 18 open reading frame 54	3.07625	3.78495	3.20204	4.34685	4.14224	3.53184	1.571958721	0.652563333	1.571958721	Up	0.044249364	0.663327404
114801	TMEM200A	Transmembrane protein 200A	3.33092	4.26607	4.17463	5.7168	5.0876	4.8248	2.438273565	1.28586	2.438273565	Up	0.005347251	0.663327404
2013	EMP2	Epithelial membrane protein 2	4.40525	4.87925	5.39909	6.78622	7.18591	4.99103	2.687981732	1.426523333	2.687981732	Up	0.040851386	0.663327404
11126	CD160	CD160 molecule	4.21366	4.28128	4.51814	3.0438	3.46522	4.23265	-1.690132868	-0.757136667	1.690132868	Down	0.035551722	0.663327404
89822	KCNK17	Potassium channel, two pore domain subfamily K, member 17	4.5168	5.50974	4.82425	5.65304	6.53655	5.53696	1.943405109	0.958586667	1.943405109	Up	0.029567186	0.663327404
64	SH3	SH3 domain	8.	8.	8.	9.	9.	9.	1.6	0.7	1.6	U	0.0	0.6

51	BGRL	binding glutamate-rich protein like	55545	1084	92635	66913	06551	09291	76884512	45783333	76884512	p	27375475	63327404
7056	THBD	Thrombomodulin	4.6032	5.52958	5.21798	6.87383	7.05534	5.71773	2.698292349	1.432046667	2.698292349	Up	0.009108291	0.663327404
9762	LZTS3	Leucine zipper, putative tumor suppressor family member 3	9.33585	9.63527	9.11655	8.28141	8.9753	9.00656	-1.524285698	-0.608133333	1.524285698	Down	0.045685195	0.663327404
2781	GNAZ	Guanine nucleotide binding protein (G protein), α z polypeptide	9.59569	9.33038	9.63124	8.21588	8.65567	9.22536	-1.765569158	-0.820133333	1.765569158	Down	0.018290811	0.663327404
341640	FREM2	FRAS1 related extracellular matrix protein 2	4.60124	4.251	4.47022	3.80186	3.55464	4.01801	-1.568425134	-0.649316667	1.568425134	Down	0.006061154	0.663327404
30850	CDR2L	Cerebellar degeneration-related protein 2-like	9.7179	9.11754	9.12068	8.44172	8.81459	8.78824	-1.555296888	-0.63719	1.555296888	Down	0.023692514	0.663327404

1359	CPA3	Carboxypeptidase A3 (mast cell)	6.92099	8.08316	7.19188	8.94481	8.14111	8.44765	2.162220019	1.112513333	2.162220019	Up	0.014881776	0.663327404
8613	PLPP3	Phospholipid phosphatase 3	7.44081	7.52465	8.20449	8.4668	8.33749	8.48029	1.630005313	0.704876667	1.630005313	Up	0.018397554	0.663327404
84277	DNAJC30	Dnaj heat shock protein family (Hsp40) member C30	8.74512	8.43035	8.27405	7.73506	7.83941	8.02124	-1.534678723	-0.617936667	1.534678723	Down	0.011836953	0.663327404
639	PRDM1	PR domain containing 1, with ZNF domain	4.83931	5.32746	5.22768	6.69525	7.12078	5.9507	2.746180906	1.457426667	2.746180906	Up	0.002330327	0.663327404
88819	SAP30	Sin3A associated protein 30kda	4.72932	4.53343	4.64729	6.42708	5.8149	4.85768	2.089570836	1.063206667	2.089570836	Up	0.024162198	0.663327404
92241	RCSD1	RCSD domain containing 1	5.25264	5.90621	5.99093	6.70099	6.39363	6.02454	1.576210263	0.65646	1.5762102	Up	0.0442424	0.663274

											63		39	04
63933	MCUR1	Mitochondrial calcium uniporter regulator 1	6.231151	6.641104	6.386693	7.103369	7.069947	7.231112	1.641407367	0.714933333	1.641407367	Up	0.003959233	0.663327404
3306	HSPA2	Heat shock protein family A (Hsp70) member 2	4.269044	3.691111	4.133144	6.196711	5.226822	4.515099	2.431382152	1.281776667	2.431382152	Up	0.01654976	0.663327404
3176	HNMT	Histamine N-methyltransferase	8.667644	8.256555	8.198744	7.385311	7.135777	7.728299	-1.944842251	-0.959653333	1.944842251	Down	0.003170911	0.663327404
1809	DPYSL3	Dihydropyrimidinase like 3	2.777778	4.020012	2.841147	7.357077	4.116833	4.490111	4.311570091	2.108213333	4.311570091	Up	0.0040112527	0.663327404
161253	REM2	RAS (RAD and GEM)-like GTP binding 2	4.481344	4.559422	4.544733	3.576544	3.781999	4.335776	-1.547994129	-0.6304	1.547994129	Down	0.017906481	0.663327404
147968	CAPN12	Calpain 12	10.361	10.922	10.479	8.9272	9.9114	8.8797	-2.546183	-1.348336	2.54618	Dow	0.00356	0.66332

			93	16	35	7	1	5	978	667	3978	n	6475	7404
51504	TRMT112	Trna methyltransferase 11-2 homolog (S. Cerevisiae)	7.72696	7.64842	8.17941	8.89813	8.55878	8.44461	1.71980302	0.782243333	1.71980302	Up	0.00766548	0.663327404
54993	ZSCAN2	Zinc finger and SCAN domain containing 2	5.130733	5.119466	4.9883	4.063788	4.48771	4.60524	-1.617672991	-0.69392	1.617672991	Down	0.005890693	0.663327404
8835	SOCS2	Suppressor of cytokine signaling 2	3.663361	4.586755	5.175549	6.616628	6.9616	5.385662	3.594729799	1.845883333	3.594729799	Up	0.008384607	0.663327404
55088	CCDC186	Coiled-coil domain containing 186	6.612933	6.538722	5.780336	5.305477	5.896001	5.538644	-1.659363549	-0.73063	1.659363549	Down	0.033038533	0.663327404
57480	PLEKHG1	Pleckstrin homology and rhogef domain containing G1	6.079611	5.866788	5.630622	6.650644	6.780999	6.169396	1.596220547	0.67466	1.596220547	Up	0.018250584	0.663327404
9103	FCGR2C	Fc fragment of igg, low affinity iic,	5.07	6.37	5.77	6.81	6.79	6.29	1.8633	0.8979	1.863	Up	0.033	0.663

		receptor for (CD32) (gene/pseudogene)	521	17	026	954	571	568	77528	2	377528		498937	327404
4600	MX2	MX dynamin-like gtpase 2	7.962772	8.264011	8.401311	7.215711	7.084777	7.888813	-1.757035491	-0.813143333	1.757035491	Down	0.014597893	0.663327404
163050	ZNF564	Zinc finger protein 564	5.463066	5.721114	5.511007	4.9807	4.392355	5.1655	-1.645934205	-0.718906667	1.645934205	Down	0.015890344	0.663327404
4034	LRCH4	Leucine-rich repeats and calponin homology (CH) domain containing 4	6.62651	6.38321	6.17946	5.29298	5.59148	6.02044	-1.695166129	-0.761426667	1.695166129	Down	0.013538569	0.663327404
150786	WTH3DI	RAB6C-like	3.747266	2.926011	3.455447	3.900133	4.239644	4.290003	1.70175105	0.76702	1.70175105	Up	0.011796962	0.663327404
22918	CD93	CD93 molecule	4.49221	5.77404	5.28259	7.66987	7.70574	5.43463	3.372456887	1.7538	3.372456887	Up	0.030382401	0.663327404
87	MPD	Multiple PDZ	3.	5.	4.	7.	6.	5.	3.4	1.7	3.4	U	0.0	0.6

77	Z	domain protein	78969	46046	69438	17467	37419	72259	23898656	7564	23898656	p	09460214	63327404
5217	PFN2	Profilin 2	3.66984	3.79179	4.22767	5.07299	4.11205	4.45464	1.569305973	0.650126667	1.569305973	Up	0.047973985	0.663327404
5937	RBMS1	RNA binding motif, single stranded interacting protein 1	7.54077	7.72176	7.60497	8.85182	8.09649	7.87438	1.571050984	0.65173	1.571050984	Up	0.04350429	0.663327404
56135	PCDHAC1	Protocadherin α subfamily C, 1	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
84706	GPT2	Glutamic pyruvate transaminase (alanine aminotransferase) 2	9.0366	8.66828	9.28833	7.61149	8.502	8.44157	-1.756515937	-0.812716667	1.756515937	Down	0.026275154	0.663327404
65055	REEP1	Receptor accessory protein 1	7.08968	6.92872	6.9525	6.43104	6.12608	6.49632	-1.557414899	-0.639153333	1.557414899	Down	0.006633025	0.663327404

9020	MAP3K14	Mitogen-activated protein kinase kinase kinase 14	6.953387	7.152273	6.925444	6.344486	6.131711	6.653044	-1.552015895	-0.634143333	1.552015895	Down	0.011805276	0.663327404
497190	CLEC18B	C-type lectin domain family 18, member B	6.878899	6.644418	6.1582	4.970818	5.723533	5.755033	-2.110439297	-1.077543333	2.110439297	Down	0.007094489	0.663327404
10278	EFS	Embryonal Fyn-associated substrate	3.549011	5.162522	4.702344	6.6808	5.751044	5.128322	2.606468937	1.382096667	2.606468937	Up	0.031138058	0.663327404
9768	KIAA0101	KIAA0101	4.406866	4.748355	4.708355	6.604566	6.411744	4.708355	2.440251764	1.2870 3	2.440251764	Up	0.031610036	0.663327404
54458	PRR13	Proline rich 13	11.84037	11.82628	11.65935	10.65946	11.17046	11.58832	-1.553928367	-0.63592	1.553928367	Down	0.034647625	0.663327404
2152	F3	Coagulation factor III (thromboplastin, tissue factor)	5.05307	4.09189	4.8411	5.47746	5.84829	5.12489	1.767275142	0.821526667	1.7672751	Up	0.0289452	0.6633274

											42		49	04
283989	TSEN54	Trna splicing endonuclease subunit 54	9.79176	9.24152	9.14886	7.91272	8.84674	9.05173	-1.72945403	-0.790316667	1.729454403	Down	0.049491758	0.663327404
8398	PLA2G6	Phospholipase A2 group VI	7.76572	7.84807	7.93582	7.02265	6.92249	7.57621	-1.597799814	-0.676086667	1.597979814	Down	0.014508799	0.663327404
56134	PCDHAC2	Protocadherin α subfamily C, 2	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
9915	ARNT2	Aryl hydrocarbon receptor nuclear translocator 2	3.3906	4.62594	3.64431	5.57616	4.70793	4.38235	2.002584797	1.001863333	2.002584797	Up	0.043773749	0.663327404
54206	ERRFI1	ERBB receptor feedback inhibitor 1	8.2692	8.1615	8.3915	9.71073	10.10547	8.87272	2.443428124	1.288906667	2.443428124	Up	0.004226025	0.663327404
1908	EDN3	Endothelin 3	2.9571	3.3309	3.9248	4.6569	5.1123	3.6117	2.0791300	1.05598	2.07913	Up	0.03693	0.66332

			9	4	6	1	2		47		0047		4909	7404
1003	CDH5	Cadherin 5, type 2 (vascular endothelium)	5.19978	5.92188	5.89231	7.90792	8.00007	5.94933	3.061948462	1.61445	3.061948462	Up	0.022371205	0.663327404
4494	MT1F	Metallothionein 1F	11.2958	10.8747	11.17153	8.58877	7.63674	10.10622	-5.051691949	-2.336766667	5.051691949	Down	0.00442519	0.663327404
4782	NFIC	Nuclear factor I/C (CCAAT-binding transcription factor)	10.23532	10.83249	10.44072	9.68455	10.27803	9.58616	-1.572721625	-0.653263333	1.572721625	Down	0.033460585	0.663327404
1363	CPE	Carboxypeptidase E	4.620036	5.526631	6.607166	7.766869	7.5441	6.0019	2.867287693	1.519686667	2.867287693	Up	0.043706761	0.663327404
256643	Cxorf23	Chromosome X open reading frame 23	6.261194	5.690991	6.082477	4.903933	5.29411	5.25957	-1.814078224	-0.859236667	1.814078224	Down	0.004424186	0.663327404
5410	CLIC6	Chloride intracellular	8.31	8.00	8.67	6.24	7.76	7.25	-2.363	-1.240	2.363	Do	0.015	0.663

2		channel 6	441	02	283	929	518	052	322751	816667	322751	wn	714484	327404
3398	ID2	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	11.29648	10.84871	11.22295	10.14531	10.27013	10.96691	-1.582197832	-0.66193	1.582197832	Down	0.035458799	0.663274404
6819	SULT1C2	Sulfotransferase family 1C member 2	10.32071	9.38493	9.79662	8.9801	7.91593	9.33635	-2.128681345	-1.08996	2.128681345	Down	0.030798214	0.663274404
1075	CTSC	Cathepsin C	7.31263	7.11428	7.29177	9.02713	8.23084	8.33961	2.450314049	1.292966667	2.450314049	Up	0.000960918	0.663274404
6575	SLC20A2	Solute carrier family 20 (phosphate transporter), member 2	8.44084	8.2407	8.29805	7.19766	7.55181	8.05958	-1.651198235	-0.723513333	1.651198235	Down	0.018672374	0.663274404
25907	TMEM158	Transmembrane protein 158 (gene/pseudogene)	4.92309	6.67083	5.00373	10.40929	7.28735	6.48336	5.765517073	2.5745	5.765517073	Up	0.040937949	0.663274404
34	CAT	Cation channel,	5.	4.	4.	3.	4.	4.	-1.	-0.	1.5	D	0.0	0.6

7732	SPER3	sperm associated 3	15377	37525	51657	68604	03945	30602	592573548	67136	92573548	own	32879625	63327404
148170	CDC42EP5	CDC42 effector protein (Rho gtpase binding) 5	4.857911	5.508977	5.016333	6.533966	6.324099	5.514877	1.995250658	0.99657	1.995250658	Up	0.014493631	0.663327404
11217	AKAP2	A-kinase anchoring protein 2	8.277718	8.207644	8.220933	9.339922	8.525594	8.749777	1.554438279	0.636393333	1.554438279	Up	0.027040058	0.663327404
155038	GIMAP8	Gtpase, IMAP family member 8	4.518666	4.705411	5.438443	6.751522	6.100311	5.243188	2.210189392	1.14417	2.210189392	Up	0.028020021	0.663327404
23230	VPS13A	Vacuolar protein sorting 13 homolog A (S. Cerevisiae)	9.790557	9.245008	9.384545	8.9361	8.424844	9.173667	-1.545988942	-0.62853	1.545988942	Down	0.038423919	0.663327404
27158	NDOR1	NADPH dependent diflavin oxidoreductase 1	7.180883	7.034422	6.965733	5.892133	6.440122	6.568233	-1.693686276	-0.760166667	1.693686276	Down	0.009457231	0.663327404

633	BGN	Biglycan	3.563387	3.643314	3.4323	5.704427	4.306655	4.0156	2.187126501	1.129036667	2.187126501	Up	0.028591943	0.663327404
7421	VDR	Vitamin D (1,25-dihydroxyvitamin D3) receptor	8.289957	8.002238	8.048898	6.724332	7.106933	8.019336	-1.777816802	-0.830106667	1.777816802	Down	0.03912629	0.663327404
4485	MST1	Macrophage stimulating 1	9.838829	8.776681	8.698022	8.235011	7.663348	8.626647	-1.904466178	-0.929386667	1.904466178	Down	0.041926307	0.663327404
27347	STK39	Serine/threonine kinase 39	9.061511	8.452477	8.783177	7.610008	8.435155	8.188776	-1.610735938	-0.68772	1.610735938	Down	0.035647308	0.663327404
26118	WSB1	WD repeat and SOCS box containing 1	4.771577	4.835154	4.787779	5.896722	5.366677	5.077855	1.567986712	0.648913333	1.567986712	Up	0.022741063	0.663327404
10192981	LOC101929815	D(1B) dopamine receptor-like	7.496366	7.644855	7.073855	6.852411	6.688444	6.887677	-1.511010131	-0.595513333	1.511010101	Down	0.0184306	0.6633274

5											31		8	04
50802	IGK	Immunoglobulin κ locus	9.98692	10.52286	10.06924	10.87867	13.11485	12.91994	4.321343757	2.11148	4.321343757	Up	0.007525687	0.663327404
103655	KLF2	Kruppel-like factor 2	7.925556	7.142275	8.123114	8.857745	9.627792	8.427784	2.362946011	1.240586667	2.362946011	Up	0.012794281	0.663327404
106602	CDC42EP3	CDC42 effector protein (Rho gtpase binding) 3	4.307666	4.644449	4.8533	7.0633	6.769772	5.059155	3.239280347	1.695673333	3.239280347	Up	0.012100195	0.663327404
289333	IGKV1-33	Immunoglobulin κ variable 1-33	4.137933	3.779005	4.067006	5.430403	8.057203	8.117707	9.235115471	3.20713	9.235115471	Up	0.002293251	0.663327404
109122	GADD45G	Growth arrest and DNA damage inducible γ	8.142263	7.949498	8.009383	6.709772	7.438188	7.550688	-1.742400975	-0.801076667	1.742409075	Down	0.013844388	0.663327404
3487	IGFBP4	Insulin like growth factor binding protein 4	4.6653	5.3437	5.8096	6.3004	6.0984	6.007	1.8180266	0.8623733	1.81802	Up	0.02157	0.66332

			8	1	9	8	2		32	33	6632		4509	7404
7784	ZP3	Zona pellucida glycoprotein 3 (sperm receptor)	5.407749	6.603325	7.05956	5.39117	5.34056	4.79999	-2.265024518	-1.179526667	2.265024518	Down	0.026502938	0.663327404
5321	PLA2G4A	Phospholipase A2 group IVA	3.83921	3.78176	4.57811	6.14536	5.90299	4.95765	3.036283845	1.602306667	3.036283845	Up	0.002865528	0.663327404
5225	PGC	Progastricsin (pepsinogen C)	5.23762	5.19539	5.10291	6.30985	7.6592	5.40543	2.427581952	1.27952	2.427581952	Up	0.041610658	0.663327404
51194	IPO11	Importin 11	3.29256	3.49992	3.4952	5.08587	5.36681	4.03284	2.637699107	1.39928	2.637699107	Up	0.003800124	0.663327404
8724	SNX3	Sorting nexin 3	7.07201	6.70135	7.46761	7.67802	7.74238	8.16339	1.718250048	0.78094	1.718250048	Up	0.015360883	0.663327404
7275	TUB	Tubby bipartite transcription factor	3.40	5.05	4.11	6.77	6.15	5.19	3.6088	1.8515	3.608	Up	0.008	0.663

			442	193	358	001	92	539	93744	56667	893744		871108	327404
2118	ETV4	Ets variant 4	9.13178	8.91046	8.75535	8.16728	7.28197	8.22657	-2.057068734	-1.04059	2.057068734	Down	0.007492176	0.663327404
51101	ZC2HC1A	Zinc finger, C2HC-type containing 1A	5.73558	5.57681	5.85237	6.92011	6.35735	5.99422	1.627104225	0.702306667	1.627104225	Up	0.027546139	0.663327404
100128927	ZBTB42	Zinc finger and BTB domain containing 42	7.20235	6.57806	6.91812	5.94115	6.01803	6.34465	-1.738970349	-0.798233333	1.738970349	Down	0.007670943	0.663327404
10052	GJC1	Gap junction protein γ 1	3.47463	3.81719	3.34566	4.48465	4.43803	3.79936	1.618719863	0.694853333	1.618719863	Up	0.017053763	0.663327404
261729	STEAP2	STEAP2 metalloreductase	8.54921	8.06773	8.61445	7.53376	7.53093	8.18308	-1.581404754	-0.661206667	1.581404754	Down	0.033108707	0.663327404
72	TRO	Trophinin	4.	4.	4.	6.	5.	4.	2.1	1.0	2.1	U	0.0	0.6

16			05915	90948	14091	35561	45608	56118	25462296	87776667	25462296	p	49619773	63327404
84188	FAR1	Fatty acyl coa reductase 1	5.095516	4.984425	4.971511	6.509999	5.743999	5.656733	1.936247442	0.953263333	1.936247442	Up	0.006167653	0.663327404
10000	AKT3	V-akt murine thymoma viral oncogene homolog 3	4.4717	5.15742	4.753334	5.886602	5.413558	5.093555	1.591326643	0.67023	1.591326643	Up	0.038672379	0.663327404
7832	BTG2	BTG family member 2	5.860155	5.388444	5.988655	7.347866	8.136997	6.8089	3.216511098	1.685496667	3.216511098	Up	0.001950283	0.663327404
857	CAV1	Caveolin 1	6.38291	8.156664	7.798886	10.07235	9.098222	9.017731	3.863272206	1.949823333	3.863272206	Up	0.005958753	0.663327404
286530	P2RY8	Purinergic receptor P2Y, G-protein coupled, 8	3.423888	3.8921	3.9211	5.231615	4.1908	4.40941	1.821247089	0.864926667	1.821247089	Up	0.020492698	0.663327404

9077	DIRAS3	DIRAS family, GTP-binding RAS-like 3	3.45786	5.12827	3.6732	6.61154	5.93032	5.26913	3.606384783	1.850553333	3.606384783	Up	0.008305819	0.663327404
2920	CXCL2	Chemokine (C-X-C motif) ligand 2	6.18926	6.48963	6.82326	7.75778	9.16821	6.82326	2.667891509	1.4157	2.667891509	Up	0.036902247	0.663327404
262	AMD1	Adenosylmethionine decarboxylase 1	10.74745	10.605	9.97916	8.69166	9.75723	10.0973	-1.90326089	-0.928473333	1.90326089	Down	0.048351493	0.663327404
4659	PPP1R12A	Protein phosphatase 1 regulatory subunit 12A	5.49356	4.64331	5.53912	6.51713	5.53581	6.0092	1.735538457	0.795383333	1.735538457	Up	0.0495484	0.663327404
56650	CLDND1	Claudin domain containing 1	6.42241	5.64622	6.10239	7.06747	6.66112	6.64654	1.664055248	0.734703333	1.664055248	Up	0.019298986	0.663327404
85462	FHDC1	FH2 domain containing 1	8.43014	8.33154	8.09108	6.50642	7.67	7.88835	-1.904391375	-0.92933	1.9043913	Down	0.0363102	0.6633274

											75			04
1164	CKS2	CDC28 protein kinase regulatory subunit 2	5.17775	5.44583	5.45846	6.60816	6.26937	5.99143	1.903920625	0.928973333	1.903920625	Up	0.002635623	0.663327404
257019	FRMD3	FERM domain containing 3	3.85924	3.91562	3.80847	4.52229	4.46766	4.85157	1.684978286	0.75273	1.684978286	Up	0.001298358	0.663327404
4170	MCL1	Myeloid cell leukemia 1	9.690822	8.74713	9.461121	10.27454	10.22604	9.80664	1.744346523	0.802686667	1.744346523	Up	0.022681681	0.663327404
913	CD1E	CD1e molecule	3.89438	4.55785	4.3335	5.66961	5.28719	4.90752	2.036648014	1.026196667	2.036648014	Up	0.004918619	0.663327404
2487	FRZB	Frizzled-related protein	3.50419	6.78583	5.00682	8.39358	7.0768	6.85532	5.073401486	2.342953333	5.073401486	Up	0.023756901	0.663327404
92291	CAPN13	Calpain 13	7.5486	7.1494	7.6157	6.4479	6.3924	7.1587	-1.707083	-0.771533	1.70708	Dow	0.01981	0.66332

			1	6	3	9	2	9	152	333	3152	n	2197	7404
1265	CNN2	Calponin 2	3.39612	3.84833	3.48054	6.01955	4.13202	4.5942	2.531969454	1.34026	2.531969454	Up	0.021620423	0.663274704
51514	DTL	Denticleless E3 ubiquitin protein ligase homolog (Drosophila)	2.7602	3.72817	3.15077	5.37293	5.34358	3.66183	2.989145935	1.579733333	2.989145935	Up	0.014366987	0.663274704
29995	LMCD1	LIM and cysteine-rich domains 1	4.34708	5.49628	5.22483	7.96311	7.02148	5.5331	3.522256564	1.8165	3.522256564	Up	0.020640545	0.663274704
2882	GPX7	Glutathione peroxidase 7	4.76308	5.31843	4.73261	6.3359	5.40716	5.45544	1.734828842	0.794793333	1.734828842	Up	0.033124882	0.663274704
144195	SLC2A14	Solute carrier family 2 (facilitated glucose transporter), member 14	3.68235	3.95904	3.68235	4.76854	4.75576	4.01807	1.66964725	0.739543333	1.66964725	Up	0.014143669	0.663274704
5492	RASIP1	Ras interacting protein 1	5.29	5.81	5.59	6.67	7.25	5.63	1.9298	0.9484	1.929	Up	0.049	0.663

2			872	398	907	033	353	338	51717	9	851717		395621	327404
22856	CHSY1	Chondroitin sulfate synthase 1	6.57267	7.07064	6.70671	8.15188	8.01294	7.13344	1.976224253	0.982746667	1.976224253	Up	0.013436362	0.663327404
102724562	LOC102724562	Hepatocyte growth factor-like protein	7.83797	5.90329	6.1364	4.57056	4.20383	6.19995	-3.10467015	-1.63444	3.10467015	Down	0.044136992	0.663327404
3791	KDR	Kinase insert domain receptor	5.27993	6.44712	6.32645	7.47061	7.9189	6.78675	2.592337098	1.374253333	2.592337098	Up	0.0107869	0.663327404
27067	STAU2	Staufen double-stranded RNA binding protein 2	7.75168	7.13667	6.87585	6.82458	6.64011	6.53683	-1.502703107	-0.58756	1.502703107	Down	0.049918572	0.663327404
50854	C6orf48	Chromosome 6 open reading frame 48	9.32343	9.12215	9.3773	10.53019	9.45722	9.90651	1.613671223	0.690346667	1.613671223	Up	0.040945661	0.663327404
58	IL22	Interleukin 22	7.	7.	8.	5.	6.	7.	-2.	-1.	2.8	D	0.0	0.6

985	RA1	receptor, α 1	5835	92148	37453	32869	31539	75022	818778275	49507	18778275	own	35439121	63327404
28989	NTMT1	N-terminal Xaa-Pro-Lys N-methyltransferase 1	7.37423	7.26636	7.29635	6.28839	6.86272	6.88642	-1.550933326	-0.633136667	1.550933326	Down	0.017197776	0.663327404
23416	KCNH3	Potassium channel, voltage gated eag related subfamily H, member 3	7.27344	7.00532	6.80776	5.59252	6.0718	6.53501	-1.948544213	-0.962396667	1.948544213	Down	0.008857317	0.663327404
5996	RGS1	Regulator of G-protein signaling 1	4.20432	5.40417	4.48864	6.64825	7.3324	4.79157	2.945195359	1.558363333	2.945195359	Up	0.047375674	0.663327404
4736	RPL10A	Ribosomal protein l10a	10.54172	10.31032	10.98158	11.77896	11.25909	10.99794	1.663386391	0.734123333	1.663386391	Up	0.026421835	0.663327404
51088	KLHL5	Kelch like family member 5	3.52268	3.81553	4.20864	5.18587	4.58108	4.32568	1.800744295	0.848593333	1.800744295	Up	0.015994869	0.663327404

3419	IDH3A	Isocitrate dehydrogenase 3 (NAD+) α	3.84141	3.33902	3.61597	4.24847	4.30655	4.34014	1.624039437	0.699586667	1.624039437	Up	0.002578045	0.663327404
9353	SLIT2	Slit guidance ligand 2	5.88057	6.94359	7.04341	7.94362	8.42216	6.92051	2.203158567	1.139573333	2.203158567	Up	0.041736578	0.663327404
2956	MSH6	Muts homolog 6	3.15354	2.66218	3.64775	4.55435	3.65522	3.66351	1.74497133	0.803203333	1.74497133	Up	0.043062424	0.663327404
100529257	SYNJ2BP-COX16	SYNJ2BP-COX16 readthrough	7.77008	7.4592	7.68223	6.65134	7.0237	7.46873	-1.504460957	-0.589246667	1.504460957	Down	0.041264922	0.663327404
2294	FOXF1	Forkhead box F1	5.29809	7.01091	5.81746	8.54945	7.25253	7.64245	3.416825729	1.772656667	3.416825729	Up	0.009383153	0.663327404
10052683	BLOC1S5-TXNDC	BLOC1S5-TXNDC5 readthrough (NMD candidate)	9.30081	8.98733	9.05773	10.22305	9.94188	9.28659	1.62662685	0.701883333	1.6266268	Up	0.02988868	0.6633274

6	5										5		44	04
9045	RPL14	Ribosomal protein L14	10.76129	10.40169	10.93275	11.60778	11.2384	11.09242	1.53080445	0.61429	1.53080445	Up	0.021889454	0.663327404
91355	LRP5L	LDL receptor related protein 5 like	6.272222	5.977726	6.216624	5.392144	5.804487	5.475244	-1.513431453	-0.597823333	1.513431453	Down	0.012899227	0.663327404
6358	CCL14	Chemokine (C-C motif) ligand 14	7.038111	7.607729	7.464645	8.1617	8.297555	7.513511	1.537837786	0.620903333	1.537837786	Up	0.049952204	0.663327404
79152	FA2H	Fatty acid 2-hydroxylase	9.228665	8.244622	8.266811	6.262422	7.197388	8.160722	-2.590421144	-1.373186667	2.590421144	Down	0.028627996	0.663327404
134548	SOWAHA	Sosondowah ankyrin repeat domain family member A	8.130588	6.944788	7.659088	5.671744	5.967966	7.344222	-2.378700003	-1.250173333	2.378700003	Down	0.037487175	0.663327404
116159	CYYR1	Cysteine/tyrosine-rich 1	4.5072	5.2664	5.3464	7.6711	7.9133	5.3288	3.8133880	1.9310733	3.81338	Up	0.02335	0.66332

			7	3	2	5	5	4	14	33	8014		4145	7404
124739	USP43	Ubiquitin specific peptidase 43	6.48172	6.20099	6.27466	4.75896	5.7969	5.5906	-1.914503105	-0.93697	1.914503105	Down	0.012973735	0.663327404
51733	UPB1	Ureidopropionase, β	5.38077	4.97603	5.62194	3.66156	3.73318	5.28072	-2.145172008	-1.101093333	2.145172008	Down	0.041199137	0.663327404
125893	ZNF816	Zinc finger protein 816	5.87047	4.84626	5.61007	4.39641	4.70053	4.87257	-1.724004253	-0.785763333	1.724004253	Down	0.028343383	0.663327404
9208	LRRFIP1	Leucine rich repeat (in FLII) interacting protein 1	5.59098	5.75734	5.82371	6.90644	6.60989	5.79234	1.638315638	0.712213333	1.638315638	Up	0.044689156	0.663327404
124975	GGT6	Γ-glutamyltransferase 6	7.39051	7.73641	7.32998	6.41737	6.64198	6.63368	-1.893807904	-0.92129	1.893807904	Down	0.00125162	0.663327404
1933	EEF1B2	Eukaryotic translation	10.7	10.2	10.8	11.6	11.2	10.8	1.5351	0.6183	1.535	Up	0.049	0.663

		elongation factor 1 β 2	6795	8151	1462	5666	5999	0258	53942	83333	153942		259702	327404
2618	GART	Phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	3.985033	3.343309	4.042677	4.687736	4.358352	4.503277	1.654184322	0.72612	1.654184322	Up	0.011587713	0.663327404
8519	IFITM1	Interferon induced transmembrane protein 1	8.371555	8.935581	9.895788	11.04233	10.90055	9.49313	2.659134344	1.410956667	2.659134344	Up	0.029886961	0.663327404
5538	PPT1	Palmitoyl-protein thioesterase 1	5.0621	4.704667	5.608667	6.302	5.868774	5.984899	1.900962405	0.92673	1.900962405	Up	0.009052754	0.663327404
50861	STMN3	Stathmin 3	4.298377	5.0508	5.5937	6.938277	6.5606	5.16613	2.363148023	1.24071	2.363148023	Up	0.046545138	0.663327404
4638	MYLK	Myosin light chain kinase	4.898987	8.3527	6.3961	10.793	7.9437	9.0511	6.5598523	2.7136633	6.55985	Up	0.02891	0.66332

			6	8	3	77	1	8	07	33	2307		703	7404
100129583	FAM47E	Family with sequence similarity 47 member E	8.4114	8.11059	8.00546	6.87129	6.92506	8.1533	-1.814115947	-0.859266667	1.814115947	Down	0.046821321	0.663327404
5788	PTPRC	Protein tyrosine phosphatase, receptor type, C	4.33116	4.78297	4.78297	5.65259	4.82126	5.24904	1.524775313	0.608596667	1.524775313	Up	0.044229635	0.663327404
197322	ACSF3	Acyl-coa synthetase family member 3	7.87309	7.95761	7.63521	6.9888	7.45372	6.81128	-1.66713392	-0.73737	1.66713392	Down	0.01043351	0.663327404
728392	LOC728392	Uncharacterized LOC728392	5.82803	6.95395	6.00844	8.25705	7.53922	6.54878	2.273439586	1.184876667	2.273439586	Up	0.042296731	0.663327404
84501	SPIRE2	Spire-type actin nucleation factor 2	7.79397	7.41426	7.16526	6.6208	6.91446	6.86192	-1.578736065	-0.65877	1.578736065	Down	0.015435015	0.663327404
8905	AP1S2	Adaptor-related protein complex 1	6.11	7.01	7.06	8.23	8.49	7.34	2.4482	1.2917	2.448	Up	0.0111	0.663

		Σ 2 subunit	708	966	185	108	916	353	08903	26667	208903		2639	327404
8828	NRP2	Neuropilin 2	5.7615	6.68205	5.97777	7.70728	6.90693	6.78344	1.989091992	0.99211	1.989091992	Up	0.020620003	0.663327404
3956	LGALS1	Lectin, galactoside-binding, soluble, 1	8.19405	10.23436	9.35646	11.70943	10.66754	10.33799	3.123932613	1.643363333	3.123932613	Up	0.021874562	0.663327404
3688	ITGB1	Integrin β 1	8.40286	8.04333	8.83696	9.81464	9.33681	9.20855	2.035829395	1.025616667	2.035829395	Up	0.00553886	0.663327404
1268	CNR1	Cannabinoid receptor 1 (brain)	5.07942	4.04267	4.64489	5.44994	5.91473	5.098	1.864208639	0.898563333	1.864208639	Up	0.024917759	0.663327404
284654	RSPO1	R-spondin 1	3.9032	4.63517	3.92285	5.53472	4.73305	4.49173	1.700658339	0.766093333	1.700658339	Up	0.048995964	0.663327404
23	ACO	Acyl-coa	4.	5.	4.	5.	5.	5.	1.6	0.6	1.6	U	0.0	0.6

597	T9	thioesterase 9	46791	10102	84993	81267	09493	60195	2101413	96896667	2101413	p	26682455	63327404
3500	IGHG1	Immunoglobulin heavy constant γ 1 (G1m marker)	6.969971	7.487877	6.704779	7.764002	10.30554	8.636779	3.599991084	1.847993333	3.599991084	Up	0.0184196003	0.663327404
2624	GATA2	GATA binding protein 2	5.709833	6.841799	5.409193	7.450116	6.642666	6.802721	1.9700879	0.97826	1.9700879	Up	0.04563133	0.663327404
8418	CMAHP	Cytidine monophospho-N-acetylneuraminic acid hydroxylase, pseudogene	3.320446	3.415777	3.638411	6.486411	5.550776	3.943011	3.651561005	1.868513333	3.651561005	Up	0.014260589	0.663327404
347733	TUBB2B	Tubulin, β 2B class iib	5.458022	6.817266	5.529395	7.658133	7.5809	6.727777	2.616049791	1.38739	2.616049791	Up	0.013859096	0.663327404
966	CD59	CD59 molecule, complement regulatory protein	4.736069	5.410884	5.096626	6.281004	5.939394	5.6865	1.850476311	0.887896667	1.850476311	Up	0.007378236	0.663327404

140576	S100A16	S100 calcium binding protein A16	7.9748	7.69971	8.36257	9.20547	9.12128	8.15674	1.759871388	0.81547	1.759871388	Up	0.039334225	0.66327404
110944	CACFD1	Calcium channel flower domain containing 1	8.76838	8.61723	8.48724	7.36023	7.78947	8.39445	-1.712653542	-0.776233333	1.712653542	Down	0.024304449	0.66327404
28513	CDH19	Cadherin 19, type 2	3.63458	4.08373	3.82773	5.95831	8.14434	4.44372	5.040068471	2.333443333	5.040068471	Up	0.025684409	0.66327404
5478	PPIA	Peptidylprolyl isomerase A (cyclophilin A)	4.30403	4.53057	4.83879	5.54547	5.03622	5.39886	1.704151188	0.769053333	1.704151188	Up	0.00747576	0.66327404
23500	DAAM2	Dishevelled associated activator of morphogenesis 2	4.87579	5.71067	5.2841	6.77595	7.11587	5.58853	2.302599235	1.203263333	2.302599235	Up	0.023545433	0.66327404
144717	FAM109A	Family with sequence similarity 109 member A	6.76357	6.64275	6.58326	5.66642	5.83566	6.58326	-1.552665082	-0.634746667	1.5526650	Down	0.0429340	0.663274

											82		74	04
4129	MAOB	Monoamine oxidase B	5.42923	5.63013	5.91093	5.95126	6.50316	6.58954	1.614652082	0.691233333	1.614652082	Up	0.019836604	0.663274704
54843	SYTL2	Synaptotagmin like 2	6.83771	7.0754	6.55361	9.24886	7.69518	7.48567	2.498386479	1.320996667	2.498386479	Up	0.023144614	0.663274704
9021	SOCS3	Suppressor of cytokine signaling 3	3.80756	3.80733	3.37769	7.01372	7.61695	4.62848	6.752975547	2.755523333	6.752975547	Up	0.005992986	0.663274704
1439	CSF2RB	Colony stimulating factor 2 receptor, β, low-affinity (granulocyte-macrophage)	4.73341	5.50671	4.96263	6.55419	5.67633	5.79019	1.917624172	0.93932	1.917624172	Up	0.017177415	0.663274704
2494	NR5A2	Nuclear receptor subfamily 5 group A member 2	8.22226	7.99807	8.66227	7.09943	7.03964	8.2108	-1.795322885	-0.844243333	1.795322885	Down	0.047058175	0.663274704
23507	LRRC8B	Leucine-rich repeat containing 8 family member B	7.6132	6.6315	7.2321	5.7722	6.4754	6.4671	-1.892985	-0.920663	1.89298	Dow	0.02112	0.6632

			9			7	9	4	465	333	5465	n	3444	7404
1174	AP1S1	Adaptor-related protein complex 1 Σ 1 subunit	6.665568	6.888283	6.920051	6.180073	5.836668	6.384431	-1.612277414	-0.6891	1.612277414	Down	0.009213705	0.663327404
50863	NTM	Neurotrimin	4.9326267	6.401222	5.640045	7.906755	7.496822	6.513775	3.133250248	1.64766	3.133250248	Up	0.009724211	0.663327404
6480	ST6GAL1	ST6 β-galactosamide α-2,6-sialyltranferase 1	5.463319	5.149932	6.145581	6.918552	6.4827	6.031194	1.855249648	0.891613333	1.855249648	Up	0.02883628	0.663327404
144423	GLT1D1	Glycosyltransferase 1 domain containing 1	5.583391	6.878211	5.7049	4.382222	4.773233	5.701522	-2.148530117	-1.10335	2.148530117	Down	0.043974563	0.663327404
9560	CCL4L2	Chemokine (C-C motif) ligand 4-like 2	5.723316	6.375422	6.643345	6.6861	8.050008	7.551222	2.268580729	1.18179	2.268580729	Up	0.019158457	0.663327404
7989	ZNF671	Zinc finger protein 671	7.62	7.56	7.68	6.47	7.09	6.96	-1.719	-0.782	1.719	Do	0.005	0.663

1			79	826	887	827	833	16	842756	276667	842756	wn	789808	327404
149466	C1orf210	Chromosome 1 open reading frame 210	7.17849	6.36207	7.3362	5.37119	5.62428	6.79005	-2.042609377	-1.030413333	2.042609377	Down	0.045540221	0.663327404
25937	WWTR1	WW domain containing transcription regulator 1	7.938885	7.678867	7.744889	9.349795	8.5039	7.991136	1.774648538	0.827533333	1.774648538	Up	0.042296425	0.663327404
9311	ASIC3	Acid sensing ion channel 3	6.069044	6.3625	6.15937	5.29601	5.31011	5.94772	-1.601055516	-0.679023333	1.601055516	Down	0.018514688	0.663327404
79841	AGBL2	ATP/GTP binding protein-like 2	4.509688	4.14209	4.706694	3.38064	3.74201	3.52596	-1.870425711	-0.903366667	1.870425711	Down	0.001634888	0.663327404
202915	TMEM184A	Transmembrane protein 184A	6.841118	6.888823	6.9821	5.868	6.40025	6.44197	-1.587874253	-0.667096667	1.587874253	Down	0.012315699	0.663327404
25	REX	RNA exonuclease	6.	5.	6.	8.	6.	7.	2.2	1.1	2.2	U	0.0	0.6

996	O2	2	05077	58704	84931	00129	89781	12086	62022584	77613333	62022584	p	21983933	63327404
28797	IGLV3-19	Immunoglobulin lambda variable 3-19	4.558853	4.635567	4.7419	5.049929	6.595543	5.6371	2.166310438	1.11524	2.166310438	Up	0.018807832	0.663327404
9581	PREPL	Prolyl endopeptidase-like	7.76018	7.60346	7.2954	6.38883	6.75449	7.34095	-1.652812801	-0.724923333	1.652812801	Down	0.031880715	0.663327404
4173	MCM4	Minichromosome maintenance complex component 4	3.445055	3.727748	3.8137	4.826867	5.008133	4.026766	1.943301837	0.95851	1.943301837	Up	0.008725261	0.663327404
29094	LGALSL	Lectin, galactoside-binding-like	8.537776	7.603371	8.492788	7.172822	7.429771	7.842966	-1.658163958	-0.729586667	1.658163958	Down	0.048217026	0.663327404
3268	AGFG2	Arfgap with FG repeats 2	7.4513	7.226622	6.997669	5.290557	6.130118	6.873339	-2.184076415	-1.127023333	2.184076415	Down	0.022100876	0.663327404

100288778	LOC100288778	WAS protein family homolog 1 pseudogene	8.71932	8.39441	7.93592	7.33688	7.98365	7.7407	-1.583159561	-0.662806667	1.583159561	Down	0.038999513	0.663274404
29089	UBE2T	Ubiquitin conjugating enzyme E2T	3.99912	4.96071	4.70234	6.05563	5.64015	4.75936	1.906583875	0.93099	1.906583875	Up	0.045375397	0.663274404
3309	HSPA5	Heat shock protein family A (Hsp70) member 5	8.58602	7.36779	8.54101	8.98424	8.7889	9.4492	1.877969111	0.909173333	1.877969111	Up	0.040184386	0.663274404
2735	GLI1	GLI family zinc finger 1	4.58378	4.97027	5.19956	5.89533	5.58272	5.24792	1.577295899	0.657453333	1.577295899	Up	0.027003897	0.663274404
28898	IGKV1D-27	Immunoglobulin κ variable 1D-27 (pseudogene)	5.42999	4.89863	5.48021	6.01564	9.11585	8.90337	6.690017571	2.74201	6.690017571	Up	0.009795434	0.663274404
27134	TJP3	Tight junction protein 3	7.07	6.31326	6.36611	5.41677	6.03599	6.19593	-1.624760044	-0.700226667	1.6247600	Down	0.0476781	0.663274

											44		25	04
2992	GYG1	Glycogenin 1	4.95251	4.5798	5.27402	6.30695	5.25211	5.85524	1.826805873	0.869323333	1.826805873	Up	0.025136775	0.663327404
2078	ERG	V-ets avian erythroblastosis virus E26 oncogene homolog	3.25887	3.55833	3.55485	4.93583	5.21107	3.90608	2.340759425	1.226976667	2.340759425	Up	0.007175275	0.663327404
8404	SPARCL1	SPARC like 1	5.86123	8.44727	7.72484	10.63874	9.9354	8.89964	5.579541862	2.480146667	5.579541862	Up	0.009976979	0.663327404
84668	FAM126A	Family with sequence similarity 126 member A	6.55156	7.42432	6.50165	8.47586	8.1021	7.31963	2.203840783	1.14002	2.203840783	Up	0.017617154	0.663327404
11320	MGAT4A	Mannosyl (α-1,3-)-glycoprotein β-1,4-N-acetylglucosaminyltransferase, isozyme A	4.10956	4.4776	3.95922	3.51541	3.58429	3.68899	-1.500971586	-0.585896667	1.500971586	Down	0.008118914	0.663327404
5175	PECAM1	Platelet/endothelial cell adhesion	4.65	5.05	5.67	7.32	7.41	5.65	3.1812	1.6696	3.181	Up	0.013	0.663

		molecule 1	683	061	268	017	613	263	71129	03333	271129		074722	327404
387	RHOA	Ras homolog family member A	8.08554	7.25417	8.01014	8.74921	8.13276	8.46092	1.584850401	0.664346667	1.584850401	Up	0.047751086	0.663327404
219654	ZCCHC24	Zinc finger, CCHC domain containing 24	5.26945	7.14921	6.4651	8.77748	7.64772	7.05889	2.894759181	1.533443333	2.894759181	Up	0.033170153	0.663327404
283219	KCTD21	Potassium channel tetramerization domain containing 21	6.17682	5.91386	6.4793	5.34004	5.27032	5.80381	-1.645588177	-0.718603333	1.645588177	Down	0.014782445	0.663327404
729974	RFPL4AL1	Ret finger protein-like 4A-like 1	4.49864	4.13042	5.02821	3.46771	3.92055	4.18261	-1.619408176	-0.695466667	1.619408176	Down	0.039534122	0.663327404
1807	DPYS	Dihydropyrimidinase	8.15299	8.52932	8.53753	5.73428	7.51194	7.94937	-2.53400025	-1.341416667	2.534000025	Down	0.041412807	0.663327404
12	OSC	Organic solute	5.	4.	5.	4.	3.	4.	-1.	-0.	1.8	D	0.0	0.6

7700	P1	carrier partner 1	05051	72791	19367	07132	94321	19163	894709497	921976667	94709497	own	00872436	63327404
1938	EEF2	Eukaryotic translation elongation factor 2	8.08613	7.82348	8.26319	9.78795	8.11953	9.11848	1.933283662	0.951053333	1.933283662	Up	0.04992433	0.663327404
260511	PPP1R16B	Protein phosphatase 1 regulatory subunit 16B	4.68787	4.8798	5.30381	6.24735	6.1337	5.15216	1.849638501	0.887243333	1.849638501	Up	0.029319313	0.663327404
116255	MOGAT1	Monoacylglycerol O-acyltransferase 1	10.53748	10.53732	9.79544	8.47511	9.41552	9.73278	-2.117374801	-1.082276667	2.117374801	Down	0.021081531	0.663327404
54472	TOLLIP	Toll interacting protein	8.79482	8.68518	8.31065	7.54834	8.15175	8.16869	-1.559002599	-0.640623333	1.559002599	Down	0.028757911	0.663327404
84617	TUBB6	Tubulin, β 6 class V	6.43151	7.91763	6.84609	9.95688	9.08365	8.1731	4.017041409	2.006133333	4.017041409	Up	0.00687605	0.663327404

1184	CLCN5	Chloride channel, voltage-sensitive 5	7.18782	7.0663	6.66018	5.53327	5.94246	6.88157	-1.805418547	-0.852333333	1.805418547	Down	0.046475292	0.663327404
220136	CFAP53	Cilia and flagella associated protein 53	4.81883	4.45369	4.68135	3.83455	4.01908	4.04434	-1.608036328	-0.6853	1.608036328	Down	0.00236694	0.663327404
79822	ARHGAP28	Rho gtpase activating protein 28	4.32351	5.23226	4.40945	5.89286	5.66274	5.68489	2.131333959	1.091756667	2.131333959	Up	0.004099941	0.663327404
3122	HLA-DRA	Major histocompatibility complex, class II, DR α	6.9399	7.81237	7.96845	9.00262	8.47936	8.63084	2.190104942	1.131	2.190104942	Up	0.007143692	0.663327404
5552	SRGN	Serglycin	6.38692	6.77526	6.85822	8.41378	8.79727	7.73757	3.122583173	1.64274	3.122583173	Up	0.000803185	0.663327404
10085	EDIL3	EGF-like repeats and discoidin I-like domains 3	6.53872	8.1979	5.90871	10.20138	8.42008	8.36964	4.332670929	2.115256667	4.3326709	Up	0.0194303	0.6633274

											29		25	04
8727	CTNNAL1	Catenin α-like 1	5.73755	5.50037	6.17727	8.01936	7.88531	6.91532	3.486066281	1.8016	3.486066281	Up	0.000988327	0.663327404
6781	STC1	Stanniocalcin 1	3.39122	4.0027	3.67114	5.04225	6.3186	3.8272	2.592474862	1.3743	2.592474862	Up	0.004695536	0.663327404
10809	STARD10	Star related lipid transfer domain containing 10	11.09801	10.77026	11.35102	9.83784	10.15639	10.76165	-1.766797464	-0.821136667	1.766797464	Down	0.019814403	0.663327404
54869	EPS8L1	EPS8 like 1	8.08478	7.62392	7.48108	6.73894	7.52699	6.93774	-1.582314817	-0.662036667	1.582314817	Down	0.040700224	0.663327404
55647	RAB20	RAB20, member RAS oncogene family	9.42551	8.8822	9.15752	8.38301	8.75137	8.51464	-1.521404032	-0.605403333	1.521404032	Down	0.017980144	0.663327404
286	ANK1	Ankyrin 1	6.1089	5.3322	4.8588	4.4523	4.7732	4.2032	-1.941385	-0.957086	1.94138	Dow	0.02227	0.66332

			4	6	9	1	3	9	56	667	556	n	7185	7404
8076	MFAP5	Microfibrillar associated protein 5	5.937725	6.831164	8.520026	5.798889	4.488838	3.416661	-5.769408168	-2.528423333	5.769408168	Down	0.014621662	0.663327404
91614	DEPDC7	DEP domain containing 7	6.473667	6.385332	6.657911	5.185933	5.489466	6.440062	-1.741459192	-0.800296667	1.741459192	Down	0.042295681	0.663327404
9459	ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor 6	6.330008	7.074166	6.878566	8.133099	7.509666	7.050558	1.74534229	0.80351	1.74534229	Up	0.041132595	0.663327404
64123	ADGRL4	Adhesion G protein-coupled receptor L4	5.502111	5.724335	6.111228	7.693335	8.106488	6.004199	2.806476541	1.48876	2.806476541	Up	0.024718875	0.663327404
10486	CAP2	CAP, adenylate cyclase-associated protein, 2 (yeast)	5.301998	6.410772	5.392881	7.798199	6.444883	6.3294	2.227826167	1.155636667	2.227826167	Up	0.042514771	0.663327404
1564	CYP2D7	Cytochrome P450, family 2, subfamily	6.31	5.89	5.46	5.44	4.70	4.76	-1.896	-0.923	1.896	Do	0.015	0.663

		D, polypeptide 7 (gene/pseudogene)	073		896	015	028	007	137168	063333	137168	wn	238605	327404
84941	HSH2D	Hematopoietic SH2 domain containing	5.04877	5.06936	5.07804	4.18512	4.30655	4.86371	-1.53006895	-0.613596667	1.53006895	Down	0.018214391	0.663327404
10352	WARS2	Tryptophanyl trna synthetase 2, mitochondrial	6.15372	6.00354	5.84744	6.87821	6.68844	6.63275	1.660441237	0.731566667	1.660441237	Up	0.002930271	0.663327404
23086	EXPH5	Exophilin 5	4.06477	4.00589	4.15457	3.25912	3.64461	3.48037	-1.530189151	-0.61371	1.530189151	Down	0.00268418	0.663327404
10130	PDIA6	Protein disulfide isomerase family A member 6	8.293	8.02498	8.5719	8.77205	9.09591	9.01019	1.583104694	0.662756667	1.583104694	Up	0.01135095	0.663327404
6382	SDC1	Syndecan 1	13.15775	13.07611	13.00265	11.80737	12.52739	12.87407	-1.59758571	-0.675893333	1.59758571	Down	0.040248928	0.663327404
34	IGH	Immunoglobulin	8.	9.	8.	9.	11	11	5.1	2.3	5.1	U	0.0	0.6

93	A1	heavy constant α 1	49736	04954	21787	41809	.85983	.56357	29814533	58906667	29814533	p	06856694	63327404
6091	ROBO1	Roundabout guidance receptor 1	5.60218	6.54325	6.09781	7.78445	7.71997	6.48417	2.375860286	1.24845	2.375860286	Up	0.017602936	0.663327404
23705	CADM1	Cell adhesion molecule 1	4.92327	5.86662	5.54843	6.33491	6.75862	5.84543	1.823714632	0.86688	1.823714632	Up	0.030203136	0.663327404
54858	PGPEP1	Pyroglutamyl-peptidase I	7.68947	7.66167	7.29738	6.42245	6.92249	7.10633	-1.661419816	-0.732416667	1.661419816	Down	0.014823616	0.663327404
2321	FLT1	Fms-related tyrosine kinase 1	3.60419	3.78175	4.51076	6.44799	7.10855	4.78022	4.428096512	2.146686667	4.428096512	Up	0.007494843	0.663327404
928	CD9	CD9 molecule	6.96651	8.31556	8.07877	10.53018	10.50338	8.90826	4.574645659	2.19366	4.574645659	Up	0.004334993	0.663327404

220108	FAM124A	Family with sequence similarity 124 member A	2.91965	3.78176	3.29241	4.47178	3.83622	3.84736	1.647768232	0.720513333	1.647768232	Up	0.029999934	0.663327404
8912	CACNA1H	Calcium channel, voltage-dependent, T type, α 1H subunit	8.782	8.77879	8.98901	8.00484	7.80688	8.62167	-1.630675819	-0.70547	1.630675819	Down	0.020067729	0.663327404
81606	LBH	Limb bud and heart development	3.89793	4.88894	4.23294	7.64341	5.19972	5.78662	3.655275128	1.86998	3.655275128	Up	0.018463196	0.663327404
4311	MME	Membrane metallo-endopeptidase	10.40724	9.47825	10.02718	8.62317	8.41976	9.60735	-2.125000725	-1.087463333	2.125000725	Down	0.021380055	0.663327404
64771	C6orf106	Chromosome 6 open reading frame 106	8.85458	8.68187	8.39791	8.01345	7.80287	8.24868	-1.540202454	-0.62312	1.540202454	Down	0.015184231	0.663327404
23654	PLXNB2	Plexin B2	11.84677	11.81703	11.48377	10.25227	11.35918	11.0306	-1.784071374	-0.835173333	1.7840713	Down	0.0243668	0.6633274

											74			04
6935	ZEB1	Zinc finger E-box binding homeobox 1	6.22029	7.82719	7.04171	9.34313	8.59371	7.69096	2.853771849	1.51287	2.853771849	Up	0.022867697	0.663327404
4345	CD200	CD200 molecule	4.92423	5.44205	4.43254	7.08708	6.1364	5.61934	2.545589871	1.348	2.545589871	Up	0.014059171	0.663327404
26136	TES	Testin LIM domain protein	9.16258	9.13956	8.40779	7.65401	8.49451	8.33154	-1.673988945	-0.74329	1.673988945	Down	0.043336379	0.663327404
2690	GHR	Growth hormone receptor	3.34564	5.19539	4.9794	5.81402	6.23199	5.36243	2.455477041	1.29600333	2.455477041	Up	0.035092143	0.663327404
7074	TIAM1	T-cell lymphoma invasion and metastasis 1	5.55758	6.79621	6.38304	7.62715	7.89592	6.65889	2.216643353	1.14837667	2.216643353	Up	0.028783966	0.663327404
79819	WDR78	WD repeat domain 78	5.4274	5.0230	5.5612	4.3412	4.3285	4.6400	-1.866893	-0.90064	1.86689	Dow	0.0018	0.6632

			7	5	5	4	3	8	98		398	n	7906	7404
79656	BEND5	BEN domain containing 5	7.73978	7.21273	6.98785	6.09149	5.90621	6.98659	-1.979802704	-0.985356667	1.979802704	Down	0.021166056	0.663327404
130589	GALM	Galactose mutarotase (aldose 1-epimerase)	8.63275	8.47317	8.25698	7.4627	7.78006	8.05184	-1.612649972	-0.689433333	1.612649972	Down	0.011957198	0.663327404
29	ABR	Active BCR-related	10.98544	10.78165	10.78883	10.28163	10.07012	10.26919	-1.56373206	-0.644993333	1.56373206	Down	0.003390861	0.663327404
56139	PCDHA10	Protocadherin α 10	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
860	RUNX2	Runt-related transcription factor 2	4.69869	5.17146	5.00682	6.11039	6.32389	5.50116	2.027202207	1.01949	2.027202207	Up	0.004908948	0.663327404
7980	HAND2-A	HAND2 antisense RNA 1 (head to	3.90	5.59	4.37	7.51	5.88	5.66	3.3102	1.7269	3.310	Up	0.023	0.663

4	S1	head)	327	907	77	548	195	346	72537	5	272537		449448	327404
114971	PTPMT1	Protein tyrosine phosphatase, mitochondrial 1	6.408477	6.496277	6.062811	5.522455	5.771717	5.833339	-1.529793228	-0.613336667	1.529793228	Down	0.012818357	0.663327404
1316	KLF6	Kruppel-like factor 6	5.159951	4.802855	5.689989	6.967099	6.952664	5.898855	2.618383955	1.388676667	2.618383955	Up	0.006049284	0.663327404
8887	TAX1BP1	Tax1 (human T-cell leukemia virus type I) binding protein 1	7.636627	6.965581	7.185337	5.927553	5.790112	7.210003	-1.936238495	-0.953256667	1.936238495	Down	0.047598516	0.663327404
390	RND3	Rho family gtpase 3	6.581519	6.995548	6.295447	9.035557	9.2883	7.72758	4.168813023	2.059636667	4.168813023	Up	0.00172267	0.663327404
79844	ZDHHC11	Zinc finger, DHHC-type containing 11	8.420554	7.329922	7.20324	4.876891	5.436647	7.094611	-3.600847913	-1.848336667	3.600847913	Down	0.017486804	0.663327404
26	CHI	Cysteine rich	5.	5.	5.	6.	6.	6.	1.5	0.6	1.5	U	0.0	0.6

511	C2	hydrophobic domain 2	67409	92854	9994	90031	37645	29171	75139932	5548	75139932	p	17928197	63327404
5332	PLCB4	Phospholipase C β 4	2.7843	3.504223	3.31227	7.1451	5.04459	3.856	4.43304088	2.14829666 7	4.43304088	Up	0.0249445	0.663327404
2074	ERCC6	Excision repair cross-complementation group 6	4.8401	4.86964	4.97313	4.21948	4.45014	4.22078	-1.513081816	-0.59749	1.513081816	Down	0.03242708	0.663327404
114757	CYGB	Cytoglobin	7.00281	7.60912	7.44692	7.99216	8.20171	7.78856	1.559618673	0.641193333	1.559618673	Up	0.019969463	0.663327404
1009	CDH11	Cadherin 11, type 2, OB-cadherin (osteoblast)	3.71827	6.01978	4.83304	8.97747	6.40293	7.1481	6.287428113	2.6247	6.287428113	Up	0.011245942	0.663327404
80723	SLC35G2	Solute carrier family 35 member G2	3.64694	3.64314	3.94737	4.8566	4.71452	4.14841	1.774435335	0.82736	1.774435335	Up	0.005742543	0.663327404

10797	MTHFD2	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	5.180885	5.4803	6.16129	7.88023	7.51404	5.82922	2.76449635	1.467016667	2.764496355	Up	0.030506788	0.663327404
6387	CXCL12	Chemokine (C-X-C motif) ligand 12	5.877877	7.00791	6.985955	7.788855	7.92572	7.14719	1.995398184	0.996676667	1.995398184	Up	0.028478666	0.663327404
10491	CRTAP	Cartilage associated protein	7.509981	7.136678	7.809981	8.81508	8.08591	7.95179	1.739645483	0.798793333	1.739645483	Up	0.026514264	0.663327404
7291	TWIST1	Twist family bhlh transcription factor 1	4.355035	4.32193	4.47211	5.89842	4.96571	4.75405	1.769125833	0.823036667	1.769125833	Up	0.026874767	0.663327404
894	CCND2	Cyclin D2	7.613362	8.73702	8.22088	9.96345	9.27992	8.60409	2.131663921	1.09198	2.131663921	Up	0.031560736	0.663327404
41	ARS	Arylsulfatase D	10	9.	10	9.	9.	9.	-1.	-0.	1.6	D	0.0	0.6

4	D		.35118	56825	.38312	11193	1316	80901	681796716	750003333	81796716	own	39266234	63327404
258816	TNFAIP8	TNF α induced protein 8	4.207	4.71941	4.64358	5.90279	4.88366	5.10883	1.711304712	0.775096667	1.711304712	Up	0.032459455	0.663327404
5732	PTGER2	Prostaglandin E receptor 2	3.808847	3.796636	4.114145	5.152422	5.202291	4.6145	2.119342369	1.083616667	2.119342369	Up	0.000983195	0.663327404
8313	AXIN2	Axin 2	3.635899	4.365611	4.235777	6.043411	5.604911	4.664056	2.563947403	1.358366667	2.563947403	Up	0.008145135	0.663327404
23345	SYNE1	Spectrin repeat containing, nuclear envelope 1	4.877777	5.592688	5.7578	7.318887	6.396555	5.94701	2.211042362	1.144726667	2.211042362	Up	0.022286052	0.663327404
155368	WBSCR27	Williams Beuren syndrome chromosome region 27	5.959956	6.362558	5.791141	5.05535	5.31491	5.30278	-1.757473984	-0.813503333	1.757473984	Down	0.004420057	0.663327404

8805	TRIM24	Tripartite motif containing 24	7.46777	7.06099	6.89889	6.9273	6.30793	6.30845	-1.545410387	-0.62799	1.545410387	Down	0.037186703	0.663327404
7078	TIMP3	TIMP metallopeptidase inhibitor 3	4.56273	6.1234	6.65627	8.03419	8.04287	6.68144	3.495179785	1.805366667	3.495179785	Up	0.019780705	0.663327404
200916	RPL22L1	Ribosomal protein L22-like 1	8.04141	7.8173	8.00958	9.29321	9.38395	8.25168	2.028176678	1.020183333	2.028176678	Up	0.013376778	0.663327404
388	RHOB	Ras homolog family member B	6.33984	5.84539	5.70122	6.88539	7.59229	7.04226	2.315242537	1.211163333	2.315242537	Up	0.002240672	0.663327404
6920	TCEA3	Transcription elongation factor A (SII), 3	8.68462	8.40811	8.71392	8.2082	7.32452	7.93551	-1.716504136	-0.779473333	1.716504136	Down	0.017119167	0.663327404
154091	SLC2A12	Solute carrier family 2 (facilitated glucose transporter),	6.24555	5.99248	6.46908	4.61761	5.31416	6.12873	-1.843188133	-0.882203333	1.843188181	Down	0.0494167	0.6633274

		member 12									33		1	04
81617	CAB39L	Calcium binding protein 39 like	4.89212	5.46898	5.20924	6.50338	6.49259	5.62448	2.023290303	1.016703333	2.02329030303	Up	0.0095374991	0.663327404
2166	FAAH	Fatty acid amide hydrolase	8.2085	8.13133	7.72773	6.70298	7.33848	7.58028	-1.7596315	-0.815273333	1.7596315	Down	0.018100534	0.663327404
132720	C4orf32	Chromosome 4 open reading frame 32	4.74968	4.77465	4.91457	5.82746	5.84794	4.92314	1.647045031	0.71988	1.647045031	Up	0.031009077	0.663327404
6251	RSU1	Ras suppressor protein 1	6.89193	7.0829	7.43853	8.27106	8.18892	7.40511	1.762035918	0.817243333	1.762035918	Up	0.021540946	0.663327404
56904	SH3GLB2	SH3-domain GRB2-like endophilin B2	5.27117	5.11645	4.9659	4.25592	4.77346	4.44496	-1.543700989	-0.626393333	1.543700989	Down	0.010608333	0.663327404
63874	ABHD4	Abhydrolase domain containing 4	8.5437	8.9785	9.0470	7.7957	8.2569	8.6064	-1.554804	-0.636733	1.55480	Dow	0.03993	0.6632

			7		1	1	1	6	656	333	4656	n	377	7404
55704	CCDC88A	Coiled-coil domain containing 88A	3.26951	4.29162	4.30383	5.82962	4.50978	4.58062	2.025605649	1.018353333	2.025605649	Up	0.049952644	0.663327404
54742	LY6K	Lymphocyte antigen 6 complex, locus K	5.630377	4.927566	5.8318	4.553988	4.773233	4.5116	-1.802884115	-0.850306667	1.802884115	Down	0.011647358	0.663327404
85004	RERG	RAS-like, estrogen-regulated, growth inhibitor	3.624055	4.334471	4.750688	6.800644	6.837422	5.274622	4.192313679	2.067746667	4.192313679	Up	0.003516344	0.663327404
7163	TPD52	Tumor protein D52	10.49032	9.833389	10.72522	9.555556	9.619388	9.075344	-1.909299376	-0.933043333	1.909299376	Down	0.011236225	0.663327404
5793	PTPRG	Protein tyrosine phosphatase, receptor type, G	5.315517	5.705152	5.5699	7.189744	6.899999	6.018488	2.254759147	1.172973333	2.254759147	Up	0.007064818	0.663327404
1074	MAP3K2	Mitogen-activated protein kinase	6.78	6.65	6.32	5.97	5.95	6.06	-1.504	-0.589	1.504	Do	0.011	0.663

6		kinase kinase 2	537	519	422	91	334	317	958113	723333	958113	wn	931898	327404
342931	RFPL4A	Ret finger protein-like 4A	4.49864	4.13042	5.02821	3.46771	3.92055	4.18261	-1.619408176	-0.695466667	1.619408176	Down	0.039534122	0.663327404
8566	PDXK	Pyridoxal (pyridoxine, vitamin B6) kinase	7.1723	6.70083	6.5335	5.03147	5.71141	6.69268	-1.986676081	-0.990356667	1.986676081	Down	0.048634728	0.663327404
3705	ITPK1	Inositol-tetrakisphosphate 1-kinase	9.303389	9.320944	9.324447	8.053332	8.543555	9.089022	-1.687011724	-0.75447	1.687011724	Down	0.023999724	0.663327404
55715	DOK4	Docking protein 4	9.921055	9.4373	9.617022	8.41741	9.09905	9.4359	-1.595862846	-0.674336667	1.595862846	Down	0.048955304	0.663327404
6193	RPS5	Ribosomal protein S5	11.01929	11.03741	11.5592	12.28556	11.94526	11.46026	1.615215507	0.691726667	1.615215507	Up	0.031470205	0.663327404
59	RCN	Reticulocalbin 1	4.	4.	4.	5.	5.	4.	1.8	0.8	1.8	U	0.0	0.6

54	1		19205	23309	54161	9243	09718	64429	65643501	99673333	65643501	p	25994588	63327404
4609	MYC	V-myc avian myelocytomatosis viral oncogene homolog	4.40167	4.94324	4.81407	8.03023	8.2336	5.4576	5.739068789	2.520816667	5.739068789	Up	0.008678966	0.663327404
653232	RPL15P3	Ribosomal protein L15 pseudogene 3	10.81167	10.56248	11.14835	11.92535	11.62817	11.51061	1.799018472	0.8471	1.799018472	Up	0.004202242	0.663327404
81557	MAGED4B	Melanoma antigen family D4B	6.44492	6.68921	6.56182	6.14301	5.62802	6.01457	-1.554858543	-0.636783333	1.554858543	Down	0.011942804	0.663327404
25890	ABI3BP	ABI family member 3 binding protein	9.28605	8.94214	8.82169	9.97184	9.52937	9.8784	1.713061168	0.776576667	1.713061168	Up	0.005699147	0.663327404
10963	STIP1	Stress induced phosphoprotein 1	4.89863	3.99897	5.01308	5.24166	5.12895	5.79801	1.684880961	0.752646667	1.684880961	Up	0.048339465	0.663327404

27253	PCDH17	Protocadherin 17	4.06512	5.31072	4.47012	6.95645	6.52312	5.90501	3.595535532	1.846206667	3.595535532	Up	0.001961816	0.66327404
100533179	UBE2F-SCLY	UBE2F-SCLY readthrough (NMD candidate)	7.20044	6.87821	6.83107	5.83972	6.29987	6.66582	-1.626123315	-0.701436667	1.626123315	Down	0.023836395	0.66327404
285016	FAM150B	Family with sequence similarity 150 member B	10.47936	9.83055	10.33835	7.68627	8.80574	10.06021	-2.576382266	-1.365346667	2.576382266	Down	0.043393056	0.66327404
1909	EDNRA	Endothelin receptor type A	4.36807	5.45213	4.72331	7.83165	6.71924	5.95915	3.969186449	1.988843333	3.969186449	Up	0.005083242	0.66327404
4621	MYH3	Myosin, heavy chain 3, skeletal muscle, embryonic	5.06064	4.47539	4.41543	3.3632	3.63212	4.00878	-1.975822482	-0.982453333	1.975822482	Down	0.004321469	0.66327404
160622	GRASP	GRP1 (general receptor for phosphoinositides 1)-associated	6.33679	6.74653	6.5462	7.29895	8.08554	6.86582	1.832224984	0.873596667	1.83222249	Up	0.0278924	0.663274

		scaffold protein								84		09	04
6426	SRSF1	Serine/arginine-rich splicing factor 1	6.64226	5.85534	6.67357	6.92769	6.89851	7.20134	1.535586732	0.61879	1.535586732	Up	0.046177376	0.663327404
9936	CD302	CD302 molecule	6.91192	7.27829	7.6917	8.36372	8.28023	8.08758	1.931703049	0.949873333	1.931703049	Up	0.004114726	0.663327404
55752	SEPT11	Septin 11	4.00904	5.43572	4.17645	6.85871	6.15855	4.83709	2.659300235	1.411046667	2.659300235	Up	0.044441215	0.663327404
51501	C11orf73	Chromosome 11 open reading frame 73	6.80441	6.78918	7.10536	8.18402	7.38345	7.22559	1.622295542	0.698036667	1.622295542	Up	0.038461126	0.663327404
115908	CTHRC1	Collagen triple helix repeat containing 1	4.28318	4.70173	4.65999	10.52077	6.4368	6.52862	9.716454665	3.28043	9.716454665	Up	0.01542261	0.663327404
54504	CPVL	Carboxypeptidase, vitellogenic-like	4.8379	5.9547	5.9704	7.3672	6.5525	6.427	2.2887501	1.19456	2.28875	Up	0.01740	0.66332

				2	9	6	3		81		0181		5689	7404
5743	PTGS2	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	3.06113	4.64444	2.86293	5.70513	6.00017	6.74825	6.183184265	2.62835	6.183184265	Up	0.001195479	0.663327404
100528007	BORCS7-ASMT	BORCS7-ASMT readthrough (NMD candidate)	7.93687	7.81552	8.68917	5.47935	4.96837	8.19478	-3.818536992	-1.93302	3.818536992	Down	0.045456554	0.663327404
10252	SPRY1	Sprouty RTK signaling antagonist 1	7.97596	7.70399	8.10751	9.10059	9.6273	8.38605	2.15670173	1.108826667	2.15670173	Up	0.009943452	0.663327404
5577	PRKAR2B	Protein kinase, camp-dependent, regulatory subunit type II β	3.59412	3.80791	3.54001	4.74205	5.39532	4.41088	2.300695414	1.20207	2.300695414	Up	0.002077847	0.663327404
2791	GNG11	Guanine nucleotide binding protein (G protein), γ 11	6.68471	7.6546	7.33823	8.77138	9.0066	8.13464	2.660492494	1.411693333	2.660492494	Up	0.003228736	0.663327404
3899	AFF3	AF4/FMR2 family member 3	3.16	4.24	4.01	5.53	4.72	4.17	2.0060	1.0043	2.006	Up	0.041	0.663

			559	877	584	581	974	774	58021	63333	058021		865243	327404
92255	LMBRD2	LMBR1 domain containing 2	4.51632	4.2808	4.14656	3.48265	3.72112	3.93446	-1.517626385	-0.601816667	1.517626385	Down	0.008558315	0.663327404
10734	STAG3	Stromal antigen 3	5.58911	6.09271	6.20453	5.3507	5.32377	5.43316	-1.508282497	-0.592906667	1.508282497	Down	0.020472617	0.663327404
9032	TM4SF5	Transmembrane 4 L six family member 5	8.99406	8.60969	9.04158	7.96562	6.92249	8.66927	-2.041057274	-1.029316667	2.041057274	Down	0.043833817	0.663327404
56920	SEMA3G	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3G	3.98804	4.91634	4.73827	5.79134	6.7247	5.00702	2.451169074	1.29347	2.451169074	Up	0.02413113	0.663327404
8876	VNN1	Vanin 1	5.45981	5.65971	5.39069	4.56138	4.77323	5.29018	-1.545928219	-0.628473333	1.545928219	Down	0.023535667	0.663327404

23034	SAMD4A	Sterile α motif domain containing 4A	6.173448	6.919993	6.367995	8.499554	7.188088	7.474155	2.351318543	1.23347	2.351318543	Up	0.012747385	0.663327404
55195	C14orf105	Chromosome 14 open reading frame 105	8.796603	7.9199	8.245525	7.298992	7.358851	8.092774	-1.666710265	-0.737003333	1.666710265	Down	0.046440969	0.663327404
10766	TOB2	Transducer of ERBB2, 2	8.594222	8.765573	7.8233	6.903133	7.674331	7.7152	-1.950084537	-0.963536667	1.950084537	Down	0.021280776	0.663327404
3175	ONECUT1	One cut homeobox 1	7.427999	7.758477	7.340228	6.891222	6.646618	7.069499	-1.558275153	-0.63995	1.558275153	Down	0.012594177	0.663327404
11278	KLF12	Kruppel-like factor 12	4.160332	4.221877	4.711399	5.056622	5.075466	4.817855	1.535579636	0.618783333	1.535579636	Up	0.013834033	0.663327404
972	CD74	CD74 molecule, major histocompatibility complex, class II	5.588871	7.050016	6.578455	7.636499	7.339223	7.375517	2.062684735	1.044523333	2.0626847	Up	0.0230516	0.6633274

		invariant chain									35		51	04
80177	MYCT1	Myc target 1	3.95391	4.20015	4.20488	4.8417	4.98373	4.33597	1.516578315	0.60082	1.516578315	Up	0.019181236	0.663327404
7450	VWF	Von Willebrand factor	4.25708	5.04428	6.39432	7.50925	7.71327	5.64176	3.30091655	1.722866667	3.300916555	Up	0.043188112	0.663327404
9987	HNRNPDL	Heterogeneous nuclear ribonucleoprotein D like	7.13183	6.25157	7.26238	7.95064	8.05357	7.48249	1.927823981	0.946973333	1.927823981	Up	0.017623152	0.663327404
9314	KLF4	Kruppel-like factor 4 (gut)	5.43647	5.34855	6.78851	8.2235	9.02382	6.58544	4.246899592	2.08641	4.246899592	Up	0.015966915	0.663327404
80705	TSGA10	Testis specific 10	5.25753	4.12761	5.2182	3.21232	3.48823	3.84499	-2.553719379	-1.3526	2.553719379	Down	0.004638584	0.663327404
8839	WISP2	WNT1 inducible signaling pathway protein 2	6.4327	6.5567	8.1046	5.0802	5.5754	4.5155	-3.929284	-1.974266	3.92928	Dow	0.00485	0.66332

			5	3	3	6	8	7	6	667	46	n	0483	7404
8013	NR4A3	Nuclear receptor subfamily 4 group A member 3	3.74683	3.8255	3.87561	4.23186	5.4192	5.09583	2.14302696	1.09965	2.14302696	Up	0.007070258	0.663327404
116832	RPL39L	Ribosomal protein L39 like	4.76465	5.40576	5.11343	7.02503	6.2326	5.33489	2.147850135	1.102893333	2.147850135	Up	0.033190979	0.663327404
253827	MSRB3	Methionine sulfoxide reductase B3	5.13369	5.49628	4.96314	6.91843	5.59745	5.70427	1.834872732	0.87568	1.834872732	Up	0.048543733	0.663327404
145376	PPP1R36	Protein phosphatase 1 regulatory subunit 36	7.54538	7.03891	7.28105	6.40381	6.44799	6.8884	-1.633968306	-0.70838	1.633968306	Down	0.012461346	0.663327404
79974	CPED1	Cadherin-like and PC-esterase domain containing 1	5.31499	7.35201	6.19015	8.91941	7.91008	7.60576	3.628483392	1.859366667	3.628483392	Up	0.012174142	0.663327404
3879	SERP2	Stress-associated endoplasmic	5.26	5.96	5.00	6.27	6.75	5.75	1.8010	0.8488	1.801	Up	0.039	0.663

23		reticulum protein family member 2	467	273	571	237	136	593	6469	5	06469		172194	327404
1838	DTNB	Dystrobrevin β	6.60187	6.80852	6.27054	5.23275	5.98609	5.9013	-1.807000201	-0.853596667	1.807000201	Down	0.012502981	0.663327404
80777	CYB5B	Cytochrome b5 type B (outer mitochondrial membrane)	4.68321	4.54989	4.84343	5.54344	5.14699	5.18515	1.515383908	0.599683333	1.515383908	Up	0.010081377	0.663327404
79767	ELMO3	Engulfment and cell motility 3	8.72043	8.52699	8.14699	7.37438	7.55862	8.14228	-1.708870809	-0.773043333	1.708870809	Down	0.019280858	0.663327404
677813	SNORA30	Small nucleolar RNA, H/ACA box 30	5.66102	5.65932	5.78219	4.92543	5.10048	5.27655	-1.515741081	-0.600023333	1.515741081	Down	0.006505195	0.663327404
11209	MST1P2	Macrophage stimulating 1 (hepatocyte growth factor-like) pseudogene 2	9.83829	8.77681	8.69802	8.23501	7.66348	8.62647	-1.904466178	-0.929386667	1.904466178	Down	0.041926307	0.663327404
23	AFF2	AF4/FMR2 family	4.	4.	4.	3.	4.	4.	-1.	-0.	1.6	D	0.0	0.6

34		member 2	43393	75692	79546	42658	29007	19536	61488713	691433333	1488713	own	28311881	63327404
25927	CNRIP1	Cannabinoid receptor interacting protein 1	5.49461	6.92795	6.51971	7.96103	7.83701	6.6498	2.247815046	1.168523333	2.247815046	Up	0.042349472	0.663327404
8324	FZD7	Frizzled class receptor 7	5.10081	6.23148	5.65604	7.04226	7.32378	6.1388	2.253503983	1.17217	2.253503983	Up	0.0199972	0.663327404
147179	WIPF2	WAS/WASL interacting protein family member 2	7.21541	6.8887	6.98251	6.32864	5.95505	6.69296	-1.628251249	-0.703323333	1.628251249	Down	0.016642794	0.663327404
65983	GRAMD3	GRAM domain containing 3	4.96292	5.03544	5.55327	5.9616	5.58697	5.78865	1.510678506	0.595196667	1.510678506	Up	0.025638743	0.663327404
6515	SLC2A3	Solute carrier family 2 (facilitated glucose transporter), member 3	3.68235	3.95904	3.68235	4.76854	4.75576	4.01807	1.66964725	0.739543333	1.66964725	Up	0.014143669	0.663327404

91977	MYOZ3	Myozenin 3	3.81836	4.98425	3.85529	5.70427	5.79801	4.62505	2.229123683	1.156476667	2.229123683	Up	0.029362813	0.663327404
27283	TINAG	Tubulointerstitial nephritis antigen	5.06338	4.98425	3.30198	2.96727	2.92373	3.687	-2.390319277	-1.257203333	2.390319277	Down	0.035295549	0.663327404
22822	PHLDA1	Pleckstrin homology-like domain, family A, member 1	5.50587	5.6626	5.04862	6.94095	7.63279	6.29758	2.931034603	1.5141	2.931034603	Up	0.003079035	0.663327404
10082	GPC6	Glypican 6	7.54851	7.59846	7.29158	9.01782	8.20242	8.48828	2.12872561	1.08999	2.12872561	Up	0.002504836	0.663327404
4867	NPHP1	Nephronophthisis 1 (juvenile)	5.43588	5.92357	5.12302	4.90402	4.6482	4.63012	-1.701385425	-0.76671	1.701385425	Down	0.012131044	0.663327404
3821	KLRC1	Killer cell lectin-like receptor subfamily C, member 1	4.71459	5.2065	5.70248	4.6274	3.76046	4.40008	-1.925469139	-0.94521	1.9254691	Down	0.0201658	0.6633274

											39		71	04
94101	ORMDL1	ORMDL sphingolipid biosynthesis regulator 1	6.46096	6.28437	6.3624	5.40214	5.26004	6.05828	-1.735987629	-0.795756667	1.735987629	Down	0.011521628	0.663327404
10468	FST	Follistatin	4.85791	4.62988	4.96898	5.88934	5.47836	5.73168	1.841485452	0.88087	1.841485452	Up	0.001584884	0.663327404
100527949	GIMAP1-GIMAP5	GIMAP1-GIMAP5 readthrough	5.00178	5.7393	5.83879	7.57284	6.65781	6.05898	2.356403607	1.236586667	2.356403607	Up	0.01979498	0.663327404
105369252	LOC105369252	Hepatocyte growth factor-like protein	7.83797	5.90329	6.1364	4.57056	4.20383	6.19995	-3.10467015	-1.63444	3.10467015	Down	0.044136992	0.663327404
57198	ATP8B2	Atpase, aminophospholipid transporter, class I, type 8B, member 2	5.17297	6.20083	6.28163	7.99366	6.85555	6.42461	2.307179099	1.20613	2.307179099	Up	0.03590824	0.663327404
114793	FMNL2	Formin like 2	6.3740	7.1679	6.5231	8.8922	7.5904	7.1845	2.2985169	1.2007033	2.29851	Up	0.03257	0.66332

			8	7	2	8	1	9	95	33	6995		9145	7404
10266	RAMP2	Receptor (G protein-coupled) activity modifying protein 2	5.04842	5.04251	5.38109	6.36625	7.06916	5.19539	2.07473441	1.052926667	2.07473441	Up	0.048973069	0.663327404
2669	GEM	GTP binding protein overexpressed in skeletal muscle	3.48178	5.05584	4.34963	7.81142	6.11997	5.59748	4.639191285	2.213873333	4.639191285	Up	0.009417292	0.663327404
273	AMPH	Amphiphysin	3.19477	4.31532	3.56344	5.22783	4.71304	3.97582	1.928821985	0.94772	1.928821985	Up	0.043945887	0.663327404
57758	SCUBE2	Signal peptide, CUB domain, EGF-like 2	5.26586	6.66119	5.56632	7.56898	6.40301	7.25732	2.370700369	1.245313333	2.370700369	Up	0.024705657	0.663327404
1565	CYP2D6	Cytochrome P450, family 2, subfamily D, polypeptide 6	6.31073	5.89	5.46896	5.44015	4.70028	4.76007	-1.896137168	-0.923063333	1.896137168	Down	0.015238605	0.663327404
8163	MAP1LC3	Microtubule associated protein	5.17	4.66	5.48	6.08	5.57	5.93	1.6896	0.7567	1.689	Up	0.019	0.663

1	B	1 light chain 3 β	984	634	063	727	405	57	64328	36667	664328		849247	327404
2114	ETS2	V-ets avian erythroblastosis virus E26 oncogene homolog 2	7.38777	6.59457	7.00591	7.85716	8.18421	7.33509	1.736364702	0.79607	1.736364702	Up	0.028484493	0.663327404
7940	LST1	Leukocyte specific transcript 1	6.61017	7.53547	7.17019	8.24645	7.6838	7.53635	1.643673025	0.716923333	1.643673025	Up	0.045332644	0.663327404
51751	HIGD1B	HIG1 hypoxia inducible domain family member 1B	5.03009	5.66512	5.1813	6.58058	7.06102	5.78808	2.272672812	1.18439	2.272672812	Up	0.010779704	0.663327404
535	ATP6V0A1	Atpase, H+ transporting, lysosomal V0 subunit a1	9.52132	9.27291	8.82748	8.4022	8.37347	8.66009	-1.657087748	-0.72865	1.657087748	Down	0.011699273	0.663327404
94	ACVRL1	Activin A receptor type IL	5.04855	5.08452	5.11737	6.13062	6.35523	5.19801	1.754597356	0.81114	1.754597356	Up	0.030369497	0.663327404
25	ADG	Adhesion G	6.	7.	6.	9.	8.	8.	3.1	1.6	3.1	U	0.0	0.6

960	RA2	protein-coupled receptor A2	32632	95475	85514	42437	70237	0302	9004476	73576667	9004476	p	11427772	63327404
7512	XPNPEP2	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound	4.08459	4.38419	4.56571	3.59773	3.80928	3.63101	-1.58610689	-0.66549	1.58610689	Down	0.003991782	0.663327404
6591	SNAI2	Snail family zinc finger 2	4.352044	4.93014	4.4739	6.70927	7.45372	5.74165	4.13968215	2.04952	4.13968215	Up	0.00177888	0.663327404
81575	APOLD1	Apolipoprotein L domain containing 1	4.665	4.32524	4.64124	7.99585	9.99793	5.88618	10.67496918	3.41616	10.67496918	Up	0.007145905	0.663327404
5796	PTPRK	Protein tyrosine phosphatase, receptor type, K	11.81851	11.4466	11.8151	10.51886	11.14638	11.27261	-1.640482268	-0.71412	1.640482268	Down	0.019316768	0.663327404
2701	GJA4	Gap junction protein α 4	3.7033	3.78627	4.07601	5.52599	5.88412	4.20337	2.547884713	1.3493	2.547884713	Up	0.013652877	0.663327404

100060	ABCC9	ATP binding cassette subfamily C member 9	4.41549	5.45822	5.06914	6.56492	6.56467	5.39029	2.285236271	1.192343333	2.285236271	Up	0.020056925	0.663327404
196743	PAOX	Polyamine oxidase (exo-N4-amino)	7.42069	7.47008	6.91479	6.21169	5.91003	6.59132	-2.043213553	-1.03084	2.043213553	Down	0.003879167	0.663327404
3790	KCNS3	Potassium voltage-gated channel, modifier subfamily S, member 3	3.13611	3.88772	3.60374	6.34718	5.80816	4.1191	3.686597723	1.88229	3.686597723	Up	0.010698633	0.663327404
111130	ZWINT	ZW10 interacting kinetochore protein	5.74105	5.99015	6.24001	7.08741	7.7152	6.07621	1.957759208	0.969203333	1.957759208	Up	0.046436779	0.663327404
4172	MCM3	Minichromosome maintenance complex component 3	6.09185	6.03022	6.3877	7.00904	7.18063	6.46539	1.641593208	0.715096667	1.641593208	Up	0.016990201	0.663327404
10272511	LOC102725117	Rho guanine nucleotide exchange factor 5-like	7.75231	7.0524	6.95193	6.5429	6.44799	6.87708	-1.547089507	-0.629556667	1.5470895	Down	0.0428763	0.6633274

7											07		89	04
1843	DUSP1	Dual specificity phosphatase 1	6.52143	6.06267	7.02797	8.81121	9.92794	8.40723	5.701876007	2.511436667	5.701876007	Up	0.000595047	0.663327404
65267	WNK3	WNK lysine deficient protein kinase 3	5.26578	5.34671	5.4929	4.12703	4.5414	5.10355	-1.714518336	-0.777803333	1.714518336	Down	0.018178595	0.663327404
283377	SPRYD4	SPRY domain containing 4	6.6673	6.9528	6.66019	5.67116	5.88195	6.61683	-1.628394214	-0.70345	1.628394214	Down	0.033812098	0.663327404
126669	SHE	Src homology 2 domain containing E	3.90466	4.4765	4.6034	5.05804	5.57252	4.60788	1.683301184	0.751293333	1.683301184	Up	0.037040776	0.663327404
54928	IMPAD1	Inositol monophosphatase domain containing 1	5.05625	4.46194	5.05348	5.54715	5.7518	5.21002	1.564570498	0.645766667	1.564570498	Up	0.02688223	0.663327404
113189	CHST14	Carbohydrate (N-acetylgalactosamine 4-0)	6.7905	7.0336	7.3452	8.1935	7.5871	7.3130	1.5598961	0.64145	1.55989	Up	0.04849	0.66332

		sulfotransferase 14		4	6	3	8	4	66		6166		1353	7404
26002	MOXD1	Monooxygenase, DBH-like 1	4.47781	4.5433	4.28036	7.07329	5.31491	4.8248	2.468857098	1.303843333	2.468857098	Up	0.044846336	0.663327404
129049	SGSM1	Small G protein signaling modulator 1	5.327769	4.8926	4.48822	4.13368	4.02745	4.30216	-1.679936459	-0.748406667	1.679936459	Down	0.012947013	0.663327404
63923	TNN	Tenascin N	3.7878	4.069913	3.646647	5.937379	4.3591	4.683352	2.232824717	1.15887	2.232824717	Up	0.021365529	0.663327404
161882	ZFPM1	Zinc finger protein, FOG family member 1	9.109963	8.841778	8.917716	7.845695	7.619355	8.34833	-2.025671172	-1.0184	2.025671172	Down	0.002409588	0.663327404
1937	EEF1G	Eukaryotic translation elongation factor 1 γ	10.73006	9.98153	10.93637	11.78837	11.05684	11.26032	1.764415085	0.81919	1.764415085	Up	0.030311153	0.663327404
987	LRBA	LPS-responsive vesicle trafficking,	8.35	7.97	8.38	7.29	7.58	7.95	-1.543	-0.626	1.543	Do	0.026	0.663

		beach and anchor containing	376	234	911	594	544	5	576159	276667	576159	wn	09817	327404
153201	SLC36A2	Solute carrier family 36 (proton/amino acid symporter), member 2	3.95391	3.9186	3.76496	2.6818	2.92816	3.48665	-1.798698441	-0.846953333	1.798698441	Down	0.004651663	0.663327404
28850	IGKV1OR22-5	Immunoglobulin κ variable 1/OR22-5 (pseudogene)	5.42999	4.89863	5.48021	6.01564	9.11585	8.90337	6.690017571	2.74201	6.690017571	Up	0.009795434	0.663327404
27333	GOLIM4	Golgi integral membrane protein 4	7.46906	7.76324	7.29065	6.57994	6.66728	7.32054	-1.571050984	-0.65173	1.571050984	Down	0.033556555	0.663327404
54463	FAM134B	Family with sequence similarity 134 member B	8.70742	9.18653	8.89371	8.07553	8.63377	8.13956	-1.565112831	-0.646266667	1.565112831	Down	0.020615028	0.663327404
1973	EIF4A1	Eukaryotic translation initiation factor 4A1	6.0882	5.82795	5.92623	6.54606	7.17337	6.22132	1.623893103	0.699456667	1.623893103	Up	0.030592141	0.663327404
20	FBX	F-box protein 15	5.	4.	5.	4.	4.	4.	-1.	-0.	1.6	D	0.0	0.6

1456	O15		59442	68403	08795	30318	31393	64729	625255647	700666667	25255647	own	26039036	63327404
6541	SLC7A1	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	4.94217	5.17218	5.10049	4.00009	4.33925	4.45609	-1.748926912	-0.80647	1.748926912	Down	0.001921947	0.663327404
148534	TMEM56	Transmembrane protein 56	4.56471	4.80786	4.64729	6.18926	4.92625	5.66815	1.893777274	0.921266667	1.893777274	Up	0.020850247	0.663327404
3897	L1CAM	L1 cell adhesion molecule	5.443	4.99174	5.64472	6.25863	7.42011	5.87383	2.231019825	1.157703333	2.231019825	Up	0.024172577	0.663327404
113246	C12orf57	Chromosome 12 open reading frame 57	9.45477	9.67062	10.11836	10.58211	10.45907	10.21317	1.591293552	0.6702	1.591293552	Up	0.016491561	0.663327404
5420	PODXL	Podocalyxin-like	5.70016	6.09449	6.50331	8.50105	8.86933	6.31427	3.471510015	1.795563333	3.471510015	Up	0.02665387	0.663327404

85027	SMIM3	Small integral membrane protein 3	5.547955	5.343899	5.676765	6.488	7.615633	5.854644	2.188552006	1.129976667	2.188552006	Up	0.030805696	0.663327404
8604	SLC25A12	Solute carrier family 25 (aspartate/glutamate carrier), member 12	3.512558	4.203558	3.837735	5.5704	4.387544	4.321611	1.877327044	0.90868	1.877327044	Up	0.039448773	0.663327404
4648	MYO7B	Myosin VIIB	8.607533	8.623788	8.221611	7.437611	7.946607	8.243688	-1.524694287	-0.60852	1.524694287	Down	0.041969496	0.663327404
11031	RAB31	RAB31, member RAS oncogene family	5.126637	6.538722	5.1153	7.917777	6.759935	6.077772	2.505010528	1.324816667	2.505010528	Up	0.049202694	0.663327404
342979	PALM3	Paralemmin 3	8.433788	8.605066	7.6329	6.825722	6.437677	7.978966	-2.2085967	-1.14313	2.2085967	Down	0.035029412	0.663327404
5918	RARRES1	Retinoic acid receptor responder (tazarotene induced) 1	4.733999	5.216899	5.810499	7.552211	8.108222	5.705933	3.651097005	1.86833	3.6510970	Up	0.0185400	0.6633274

											05		45	04
7071	KLF10	Kruppel-like factor 10	7.09095	6.33767	6.84366	7.51528	7.81499	6.98132	1.601884356	0.67977	1.601884356	Up	0.04834187	0.663327404
197342	EME2	Essential meiotic structure-specific endonuclease subunit 2	5.535546	6.356631	5.526755	4.6711	5.265542	4.8248	-1.847703585	-0.885733333	1.847703585	Down	0.016078067	0.663327404
5140	PDE3B	Phosphodiesterase 3B	3.8186	4.154451	3.823833	4.4433	5.063347	4.1092	1.522395638	0.606343333	1.522395638	Up	0.047792647	0.663327404
2634	GBP2	Guanylate binding protein 2, interferon-inducible	5.197773	5.936629	6.422722	6.501622	6.975558	6.750355	1.853522978	0.89027	1.853522978	Up	0.027125002	0.663327404
29887	SNX10	Sorting nexin 10	3.989973	4.838834	4.833255	5.439099	5.704277	4.878244	1.72519567	0.78676	1.72519567	Up	0.038116147	0.663327404
9752	PCDHA9	Protocadherin α 9	7.4420	7.7345	6.9129	6.5369	6.8318	6.8031	-1.557526	-0.639256	1.55752	Dow	0.03181	0.66332

			9	2	9		2	1	454	667	6454	n	6486	7404
29969	MDFIC	Myod family inhibitor domain containing	3.24562	3.28682	3.70481	5.03163	4.6714	3.70481	2.080403447	1.056863333	2.080403447	Up	0.016180755	0.663327404
132014	IL17RE	Interleukin 17 receptor E	8.3216	8.16473	8.13552	6.74174	7.17666	8.03757	-1.851412884	-0.888626667	1.851412884	Down	0.027936139	0.663327404
8406	SRPX	Sushi-repeat containing protein, X-linked	5.58605	7.10298	6.77705	8.16116	8.48121	7.74461	3.117306477	1.6403	3.117306477	Up	0.005023248	0.663327404
27068	PPA2	Pyrophosphatase (inorganic) 2	7.75901	7.27209	7.67521	6.49823	7.08027	7.27664	-1.533742901	-0.617056667	1.533742901	Down	0.043700277	0.663327404
58508	KMT2C	Lysine (K)-specific methyltransferase 2C	7.49636	7.64485	7.07385	6.85241	6.68844	6.88767	-1.511010131	-0.595513333	1.511010131	Down	0.01843068	0.663327404
4734	NEDD4	Neural precursor cell expressed,	4.50	3.68	4.42	4.90	4.80	4.73	1.5274	0.6111	1.527	Up	0.033	0.663

		developmentally down-regulated 4, E3 ubiquitin protein ligase	255	652	711	576	529	855	65717	4	465717		799743	327404
81671	VMP1	Vacuole membrane protein 1	9.81463	8.77821	9.39823	10.20991	10.84161	9.97723	2.017487871	1.01256	2.017487871	Up	0.01746532	0.6632327404
84913	ATOH8	Atonal bhlh transcription factor 8	6.52486	6.82847	6.67238	7.74321	7.50509	6.81036	1.599532161	0.67765	1.599532161	Up	0.035703373	0.6632327404
2034	EPAS1	Endothelial PAS domain protein 1	8.36182	9.01538	9.00678	10.06201	9.93678	9.49304	2.050463411	1.03595	2.050463411	Up	0.004146435	0.6632327404
10395	DLC1	DLC1 Rho gtpase activating protein	6.33179	6.82312	6.66894	7.85595	8.19692	7.49797	2.365803089	1.24233	2.365803089	Up	0.001082864	0.6632327404
1040	CDS1	CDP-diacylglycerol synthase 1	9.35776	8.67233	8.71004	7.25711	7.80932	8.79471	-1.944855991	-0.959663333	1.944855991	Down	0.048534987	0.6632327404

7410	VAV2	Vav guanine nucleotide exchange factor 2	8.86686	8.42615	8.3582	7.50095	7.84777	7.95381	-1.720578044	-0.782893333	1.720578044	Down	0.007232044	0.663327404
543345	SOX18	SRY-box 18	5.03505	5.74682	5.86953	7.29479	6.99301	5.96556	2.298437336	1.200653333	2.298437336	Up	0.017316974	0.663327404
3490	IGFBP7	Insulin like growth factor binding protein 7	8.01392	11.11789	9.88565	12.65496	11.5533	10.92023	4.103941028	2.03701	4.103941028	Up	0.036895811	0.663327404
161145	TMEM229B	Transmembrane protein 229B	7.77907	7.65194	7.31694	6.66521	7.02391	7.02708	-1.599088738	-0.67725	1.599088738	Down	0.010433993	0.663327404
51661	FKBP7	FK506 binding protein 7	4.39676	5.30278	4.84546	6.17917	5.65738	5.12404	1.747383977	0.805196667	1.747383977	Up	0.044984882	0.663327404
10631	POSTN	Periostin, osteoblast specific factor	3.86899	3.40506	4.02957	6.59211	6.39413	4.01946	3.733925993	1.900693333	3.7339259	Up	0.0224017	0.6633274

											93		24	04
9079	LDB2	LIM domain binding 2	3.722	3.38857	4.3545	5.71778	6.3343	4.59413	3.310494347	1.727046667	3.310494347	Up	0.006858645	0.663327404
5136	PDE1A	Phosphodiesterase 1A	5.48938	7.49357	6.34752	7.95152	7.61408	7.30344	2.265019284	1.179523333	2.265019284	Up	0.043927199	0.663327404
8495	PPFIBP2	PTPRF interacting protein, binding protein 2 (liprin β 2)	8.54685	8.38008	8.56141	7.37496	7.94137	8.31653	-1.535270996	-0.618493333	1.535270996	Down	0.043474979	0.663327404
3012	HIST1H2AE	Histone cluster 1, h2ae	6.363305	5.953554	6.160007	5.093555	5.0866	6.07748	-1.669801565	-0.739676667	1.669801565	Down	0.041791543	0.663327404
678	ZFP36L2	ZFP36 ring finger protein-like 2	7.238852	6.98236	6.67396	8.53387	8.62934	7.84762	2.588285329	1.371996667	2.588285329	Up	0.001199281	0.663327404
7165	TPD52L2	Tumor protein D52-like 2	4.2164	4.1465	4.5305	5.2657	4.5894	4.8060	1.5044644	0.58925	1.50446	Up	0.02733	0.66332

			4	2	7	8	1	9	33		4433		3509	7404
1521	CTSW	Cathepsin W	5.221114	6.097743	6.033341	5.067773	5.013396	5.013396	-1.68425432	-0.75211	1.684254432	Down	0.0202844	0.663327404
53831	GPR84	G protein-coupled receptor 84	3.548886	4.590038	4.1382	3.241788	3.371889	3.617553	-1.6044513	-0.68208	1.6044513	Down	0.035416381	0.663327404
3109	HLA-DMB	Major histocompatibility complex, class II, DM β	4.005777	4.981104	5.2855	5.991111	5.042224	6.256844	2.008511423	1.006126667	2.008511423	Up	0.049353086	0.663327404
1734	DIO2	Deiodinase, iodothyronine, type II	2.730907	3.725008	3.011133	6.141444	4.5727	3.796144	3.206427233	1.680966667	3.206427233	Up	0.022467493	0.663327404
259	AMBP	A-1-microglobulin/bikunin precursor	5.566766	5.700014	6.155933	4.505554	4.335579	5.434408	-2.069295959	-1.04914	2.069295959	Down	0.013380675	0.663327404
5481	AFTPH	Aftiphilin	8.55	8.05	8.25	7.52	7.63	7.81	-1.547	-0.629	1.547	Do	0.012	0.663

2			888	29	134	284	507	573	379072	826667	379072	wn	144459	327404
7852	CXCR4	Chemokine (C-X-C motif) receptor 4	5.39631	5.12832	5.79268	7.6501	7.72016	6.57814	3.67318103	1.87703	3.67318103	Up	0.000946728	0.663327404
3831	KLC1	Kinesin light chain 1	5.59016	6.47143	5.83684	8.03062	6.95235	6.25332	2.16237989	1.11262	2.16237989	Up	0.045911576	0.663327404
3234	HOXD8	Homeobox D8	3.83129	3.6696	3.95943	5.0391	5.49942	4.02855	2.049942344	1.035583333	2.049942344	Up	0.021891478	0.663327404
3925	STMN1	Stathmin 1	4.9529	5.54778	5.52869	6.79188	5.96518	5.69002	1.748240097	0.805903333	1.748240097	Up	0.040243472	0.663327404
10458	BAIAP2	BAI1-associated protein 2	8.23334	7.8526	7.4316	7.18358	7.17649	7.16563	-1.584411048	-0.663946667	1.584411048	Down	0.020427586	0.663327404
56	EMS	EMSY,	6.	5.	5.	5.	5.	5.	-1.	-0.	1.5	D	0.0	0.6

946	Y	BRCA2-interacting transcriptional repressor	12181	98545	84519	0435	03743	89173	580005959	65993	80005959	own	3921463	63327404
7102	TSPAN7	Tetraspanin 7	6.34346	7.01453	6.58683	7.85098	7.95057	6.88554	1.884380098	0.91409	1.884380098	Up	0.026647551	0.663327404
3669	ISG20	Interferon stimulated exonuclease gene 20kda	11.24232	10.97551	11.13612	8.34843	10.00512	10.70595	-2.697238944	-1.431483333	2.697238944	Down	0.034480144	0.663327404
57125	PLXDC1	Plexin domain containing 1	3.96049	4.85002	4.28452	5.36474	4.87682	5.14925	1.699676283	0.76526	1.699676283	Up	0.019886176	0.663327404
114327	EFHC1	EF-hand domain (C-terminal) containing 1	5.39867	5.51291	5.61878	4.53057	4.99179	5.11154	-1.549876578	-0.632153333	1.549876578	Down	0.013606575	0.663327404
50813	COPS7A	COP9 signalosome subunit 7A	5.58434	5.01221	5.569	6.65064	5.65439	6.3054	1.759249374	0.81496	1.759249374	Up	0.028342475	0.663327404

85480	TSLP	Thymic stromal lymphopoietin	2.457716	3.6942	2.889976	5.909952	4.166422	5.302766	4.324480004	2.112526667	4.324480004	Up	0.003325822	0.663327404
338773	TMEM119	Transmembrane protein 119	6.067708	6.662256	6.275155	7.737748	6.851192	6.6964	1.693885863	0.760336667	1.693885863	Up	0.044323277	0.663327404
57475	PLEKHH1	Pleckstrin homology, myth4 and FERM domain containing H1	7.306656	7.266222	6.939133	5.986233	6.651156	6.755583	-1.631384293	-0.706096667	1.631384293	Down	0.023639973	0.663327404
80823	BHLHB9	Basic helix-loop-helix domain containing, class B, 9	4.262271	4.542249	4.659974	4.017999	3.7156	3.973449	-1.501030543	-0.585953333	1.501030543	Down	0.007773765	0.663327404
84331	FAM195A	Family with sequence similarity 195 member A	9.580466	9.316776	8.651044	8.140555	8.002844	8.974811	-1.753235747	-0.81002	1.753235747	Down	0.047800075	0.663327404
441168	FAM26F	Family with sequence similarity 26 member F	5.023222	5.889298	5.537522	6.861066	6.274999	5.841866	1.793316338	0.84263	1.7933163	Up	0.0352047	0.6633274

											38		43	04
3778	KCNMA1	Potassium channel, calcium activated large conductance subfamily M α, member 1	3.14731	4.1298	3.38648	6.90327	3.61168	5.60034	3.52404741	1.817233333	3.52404741	Up	0.049268696	0.663327404
79026	AHNAK	AHNAK nucleoprotein	4.70311	5.04637	5.39788	5.88311	6.33849	5.24172	1.707619647	0.771986667	1.707619647	Up	0.043517454	0.663327404
10171	RCL1	RNA terminal phosphate cyclase-like 1	4.17409	3.85242	4.33341	4.7381	5.08876	4.44079	1.553917596	0.63591	1.553917596	Up	0.019941057	0.663327404
55304	SPTLC3	Serine palmitoyltransferase, long chain base subunit 3	6.20565	6.02061	5.61984	5.06884	4.5908	5.38562	-1.910053877	-0.933613333	1.910053877	Down	0.008196958	0.663327404
10507	SEMA4D	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	6.22576	6.09822	6.16261	5.10286	5.23499	5.86659	-1.694332084	-0.760716667	1.694332084	Down	0.012027372	0.663327404

196383	RILPL2	Rab interacting lysosomal protein-like 2	4.18052	4.2931	4.49269	5.20884	5.05915	4.6507	1.570031314	0.650793333	1.570031314	Up	0.010437164	0.663327404
6926	TBX3	T-box 3	3.51768	4.20118	4.09168	5.749	5.48793	4.76565	2.634166735	1.397346667	2.634166735	Up	0.002277254	0.663327404
256051	ZNF549	Zinc finger protein 549	6.32536	6.07441	6.18926	5.59469	5.48167	5.72892	-1.510036407	-0.594583333	1.510036407	Down	0.006950951	0.663327404
55344	PLCXD1	Phosphatidylinositol-specific phospholipase C, X domain containing 1	8.52236	8.15805	7.37954	6.52111	6.59913	7.45699	-2.235979043	-1.160906667	2.235979043	Down	0.015924914	0.663327404
220965	FAM13C	Family with sequence similarity 13 member C	3.51159	3.9935	4.7419	6.64732	6.94171	4.77997	4.11436561	2.04067	4.11436561	Up	0.010755275	0.663327404
56142	PCDHA6	Protocadherin α 6	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.55752564	Down	0.0318164	0.6633274

											54		86	04
1290	COL5A2	Collagen, type V, α 2	3.57454	4.48232	4.41902	7.71595	5.53734	5.13952	3.923959089	1.97231	3.923959089	Up	0.019835231	0.663327404
7432	VIP	Vasoactive intestinal peptide	3.35044	3.88802	3.52236	4.33642	5.95543	5.47831	3.181660719	1.66978	3.181660719	Up	0.00410927	0.663327404
64778	FNDC3B	Fibronectin type III domain containing 3B	4.58361	4.24924	4.51229	5.78392	4.74551	4.92085	1.626435188	0.701713333	1.626435188	Up	0.042136561	0.663327404
2006	ELN	Elastin	6.60121	8.50173	7.42384	11.42704	9.05823	8.16158	4.11252182	2.040023333	4.11252182	Up	0.048542576	0.663327404
6909	TBX2	T-box 2	5.20302	5.76454	4.68127	7.31221	6.65714	5.96312	2.690510617	1.42788	2.690510617	Up	0.009254795	0.663327404
84281	C2orf88	Chromosome 2 open reading frame 88	5.1906	3.9298	3.6293	5.9370	6.3449	5.3331	3.0776233	1.6218166	3.07762	Up	0.00804	0.66332

				4	5	9	8	7	2	67	332		4284	7404
51162	EGFL7	EGF-like-domain, multiple 7	5.55898	5.31459	5.60701	6.88132	6.80846	5.89696	2.049662917	1.035386667	2.049662917	Up	0.008275177	0.663327404
387763	C11orf96	Chromosome 11 open reading frame 96	7.207855	9.332877	7.012355	10.42424	10.37141	9.48371	4.750556961	2.248096667	4.750556961	Up	0.008570629	0.663327404
406991	MIR21	Microrna 21	9.814633	8.778211	9.398233	10.20991	10.84161	9.97723	2.017487871	1.01256	2.017487871	Up	0.017465532	0.663327404
1958	EGR1	Early growth response 1	8.313387	6.261162	7.866077	9.508841	10.84637	10.06745	6.321308976	2.660223333	6.321308976	Up	0.002295508	0.663327404
200197	TMEM51-AS1	TMEM51 antisense RNA 1	7.115571	6.316244	5.989905	5.127781	5.695594	6.037555	-1.806545177	-0.853233333	1.806545177	Down	0.045268712	0.663327404
3494	IGHA2	Immunoglobulin heavy constant α 2	8.49	9.04	8.21	9.41	11.8	11.5	5.1298	2.3589	5.129	Up	0.006	0.663

		(A2m marker)	736	954	787	809	5983	6357	14533	06667	814533		856694	327404
553144	TMEM144	Transmembrane protein 144	7.96178	7.65441	7.56005	6.70881	7.05135	7.56896	-1.532308375	-0.615706667	1.532308375	Down	0.043954049	0.663327404
4327	MMP19	Matrix metallopeptidase 19	3.04942	3.45921	3.29343	4.57056	4.05603	3.43552	1.685702563	0.75335	1.685702563	Up	0.031539123	0.663327404
284076	TTLL6	Tubulin tyrosine ligase like 6	6.34335	6.39339	6.76387	5.25625	5.41996	5.99711	-1.92176243	-0.94243	1.92176243	Down	0.005763245	0.663327404
1545	CYP1B1	Cytochrome P450, family 1, subfamily B, polypeptide 1	11.2251	9.28622	9.7676	7.38695	7.87654	9.36032	-3.693623117	-1.885036667	3.693623117	Down	0.021827058	0.663327404
9649	RALGPS1	Ral GEF with PH domain and SH3 binding motif 1	8.24496	7.69045	8.09089	7.21728	7.19057	7.84217	-1.507432428	-0.592093333	1.507432428	Down	0.046653949	0.663327404
53	PLC	Phospholipase C, γ	9.	9.	8.	7.	7.	8.	-2.	-1.	2.1	D	0.0	0.6

36	G2	2 (phosphatidylinositol-specific)	21992	03102	90066	33676	51484	9668	160052933	111066667	60052933	own	32724853	63327404
2355	FOSL2	FOS-like antigen 2	6.9265	6.44523	6.97759	7.56701	8.20488	7.32245	1.885577785	0.915006667	1.885577785	Up	0.012363586	0.663327404
286527	TMSB15B	Thymosin β 15B	3.39122	4.44227	3.8827	5.83005	4.77534	4.26126	2.070749921	1.050153333	2.070749921	Up	0.045774245	0.663327404
147685	C19orf18	Chromosome 19 open reading frame 18	4.75412	5.57312	4.57319	3.8475	4.07246	4.58991	-1.737307744	-0.796853333	1.737307744	Down	0.036686163	0.663327404
2596	GAP43	Growth associated protein 43	4.10621	4.69176	4.5784	8.57732	7.55332	4.58693	5.453062408	2.447066667	5.453062408	Up	0.032952859	0.663327404
51477	ISYNA1	Inositol-3-phosphate synthase 1	5.74153	5.99807	6.04128	6.8435	6.95176	6.2189	1.675308362	0.744426667	1.675308362	Up	0.014983903	0.663327404

285382	C3orf70	Chromosome 3 open reading frame 70	4.0747	6.16316	4.92439	8.08699	6.21029	6.08201	3.338067975	1.739013333	3.338067975	Up	0.038527204	0.663327404
196446	MYRFL	Myelin regulatory factor-like	6.20027	6.43945	6.44494	4.13513	4.7635	4.69487	-3.556323752	-1.830386667	3.556323752	Down	5.26686E-05	0.228663782
4222	MEOX1	Mesenchyme homeobox 1	2.84776	3.10938	3.99945	5.47415	5.64387	3.47172	2.916793665	1.544383333	2.916793665	Up	0.036461869	0.663327404
57669	EPB41L5	Erythrocyte membrane protein band 4.1 like 5	7.38407	6.6897	6.73175	4.55145	5.4905	6.36416	-2.763449024	-1.46647	2.763449024	Down	0.014135234	0.663327404
7696	ZNF137P	Zinc finger protein 137, pseudogene	6.90519	6.55569	6.23013	5.58502	5.69808	6.25981	-1.642659355	-0.716033333	1.642659355	Down	0.026769607	0.663327404
7075	TIE1	Tyrosine kinase with immunoglobulin-like and EGF-like	4.08405	4.87737	4.61386	6.68208	7.08919	4.78876	3.163635379	1.661583333	3.1636353	Up	0.0239615	0.6633274

		domains 1									79		57	04
1728	NQO1	NAD(P)H dehydrogenase, quinone 1	11.866623	12.074778	11.813393	10.072776	11.355529	11.5059	-1.91896713	-0.94033	1.91896713	Down	0.038922564	0.663327404
399948	COLCA1	Colorectal cancer associated 1	7.715559	7.3062	7.38777	6.40901	6.80283	7.26317	-1.563576709	-0.64485	1.563576709	Down	0.036820911	0.663327404
9791	PTDSS1	Phosphatidylserine synthase 1	5.103833	5.084744	5.735211	6.469133	5.556399	6.053899	1.64551974	0.718543333	1.64551974	Up	0.042470612	0.663327404
85458	DIXDC1	DIX domain containing 1	5.818711	6.700933	6.442577	8.587877	7.679066	6.910811	2.648502126	1.405176667	2.648502126	Up	0.014943833	0.663327404
53335	BCL11A	B-cell CLL/lymphoma 11A (zinc finger protein)	6.397355	6.404446	6.7235	5.400302	5.841811	6.287966	-1.585648871	-0.665073333	1.585648871	Down	0.033186498	0.663327404
9111	NMI	N-myc and STAT interactor	5.0736	4.4333	5.1851	6.0167	5.1556	5.6059	1.6193595	0.6954233	1.61935	Up	0.04733	0.66332

				2	6	4	9	2	36	33	9536		4302	7404
8425	LTBP4	Latent transforming growth factor β binding protein 4	6.73317	7.50896	7.50662	8.87366	8.60442	8.02925	2.383133877	1.25286	2.383133877	Up	0.004409132	0.663327404
641700	ECSCR	Endothelial cell surface expressed chemotaxis and apoptosis regulator	4.61157	4.8991	5.00507	6.19599	6.96865	5.23188	2.451378628	1.293593333	2.451378628	Up	0.016386286	0.663327404
8407	TAGLN2	Transgelin 2	7.98116	7.87097	8.6828	9.483	9.1224	8.72214	1.906425297	0.93087	1.906425297	Up	0.014293084	0.663327404
3764	KCNJ8	Potassium channel, inwardly rectifying subfamily J, member 8	3.25749	4.29344	3.40878	4.84775	4.81826	4.4263	2.062222503	1.0442	2.062222503	Up	0.008250536	0.663327404
90952	ESAM	Endothelial cell adhesion molecule	5.85254	6.59797	6.56526	7.65708	8.10472	6.60025	2.1665907 5	1.115426667	2.166590755	Up	0.029126661	0.663327404
1020	INADL	Inad-like (Drosophila)	7.26	7.06	7.39	6.01	6.47	7.08	-1.641	-0.715	1.641	Do	0.038	0.663

7			808	278	636	803	875	542	490803	006667	490803	wn	519166	327404
56000	NXF3	Nuclear RNA export factor 3	8.252201	8.4984	8.248339	6.061777	7.986388	7.3573	-2.293869525	-1.197783333	2.293869525	Down	0.033382409	0.663327404
3563	IL3RA	Interleukin 3 receptor, α (low affinity)	4.524545	5.150398	4.3902	5.886111	6.095564	4.818889	1.881439198	0.911836667	1.881439198	Up	0.043397654	0.663327404
9242	MSC	Musculin	4.2179	4.67012	4.00475	5.56594	4.94197	4.8712	1.776182717	0.82878	1.776182717	Up	0.013866858	0.663327404
22836	RHOBTB3	Rho-related BTB domain containing 3	4.953668	5.464544	5.449993	7.681665	7.128877	5.862236	3.034677765	1.601543333	3.034677765	Up	0.009004156	0.663327404
3507	IGHM	Immunoglobulin heavy constant mu	6.672664	6.660992	7.5002	7.340336	9.844443	10.35563	4.709432865	2.235553333	4.709432865	Up	0.020091967	0.663327404
97	FAM	Family with	3.	3.	3.	4.	4.	4.	1.9	0.9	1.9	U	0.0	0.6

50	65B	sequence similarity 65 member B	52066	35947	89872	87452	70234	153	77489453	8367	77489453	p	03726241	63327404
10351	ABCA8	ATP binding cassette subfamily A member 8	6.59446	6.97302	7.82844	8.7869	8.31052	7.8151	2.253550844	1.1722	2.253550844	Up	0.016444948	0.663327404
312	ANXA13	Annexin A13	12.24038	12.0546	12.19428	10.52711	11.61355	11.80949	-1.79797131	-0.84637	1.79797131	Down	0.036894754	0.663327404
6383	SDC2	Syndecan 2	3.69496	4.0016	4.30385	6.63073	4.71466	5.47776	3.047402366	1.60758	3.047402366	Up	0.009853252	0.663327404
6236	RRAD	Ras-related associated with diabetes	5.77707	5.49404	5.23419	6.90339	6.44799	5.8352	1.858012233	0.89376	1.858012233	Up	0.019380907	0.663327404
8654	PDE5A	Phosphodiesterase 5A	7.80421	7.57652	8.162	8.99756	8.84615	8.05301	1.722690266	0.784663333	1.722690266	Up	0.030320496	0.663327404

256949	KANK3	KN motif and ankyrin repeat domains 3	4.47253	5.14753	4.79069	5.4319	5.65783	5.23505	1.55618114	0.63801	1.556181114	Up	0.021624522	0.663327404
54538	ROBO4	Roundabout guidance receptor 4	6.314333	7.852155	7.508857	8.719244	8.8538	7.848133	2.376283008	1.248706667	2.376283008	Up	0.026603216	0.663327404
2113	ETS1	V-ets avian erythroblastosis virus E26 oncogene homolog 1	6.719888	7.591855	7.71519	9.1659	9.09983	7.86257	2.579562973	1.367126667	2.579562973	Up	0.014059799	0.663327404
10979	FERMT2	Fermitin family member 2	4.444491	4.534447	4.87062	6.129985	5.04277	5.35704	1.85731691	0.89322	1.85731691	Up	0.018508095	0.663327404
4883	NPR3	Natriuretic peptide receptor 3	5.693336	5.9292	5.4126	6.623329	8.270993	7.28108	3.279282066	1.71338	3.279282066	Up	0.003797239	0.663327404
58475	MS4A7	Membrane-spanning 4-domains, subfamily A, member 7	5.967199	6.749912	6.467144	8.060055	7.470155	7.142055	2.239122305	1.162933333	2.2391223	Up	0.0060922	0.66332 74

											05		76	04
5663	PSEN1	Presenilin 1	9.918955	9.767559	9.438885	8.836	9.105562	9.204666	-1.579757739	-0.659703333	1.579757739	Down	0.010400318	0.663327404
3113	HLA-DPA1	Major histocompatibility complex, class II, DP α 1	8.499901	9.090006	9.1742	10.18008	9.606	9.76022	1.902210186	0.927676667	1.902210186	Up	0.006895931	0.663327404
2327	FMO2	Flavin containing monooxygenase 2	4.052922	4.530177	4.8533	5.729611	5.284611	4.98812	1.809155815	0.855316667	1.809155815	Up	0.015871307	0.663327404
3680	ITGA9	Integrin α 9	2.678889	5.163441	3.728559	7.161618	4.980755	5.10362	3.710773645	1.89172	3.710773645	Up	0.044104072	0.663327404
4664	NAB1	NGFI-A binding protein 1	6.331555	5.785549	6.164988	7.785099	7.014555	6.368666	1.948134565	0.962093333	1.948134565	Up	0.031948438	0.663327404
57474	ZNF490	Zinc finger protein 490	5.4630	5.7211	5.5110	4.9807	4.3923	5.1655	-1.645934	-0.718906	1.64593	Dow	0.01589	0.66332

			6	4	7		5		205	667	4205	n	0344	7404
221395	ADGRF5	Adhesion G protein-coupled receptor F5	4.465355	5.30975	6.14612	7.87532	8.4279	6.47401	4.874778498	2.285336667	4.874778498	Up	0.0060135584	0.6632327404
57187	THOC2	THO complex 2	7.361690	7.2918	6.98961	6.42534	6.85536	6.53879	-1.524007497	-0.60787	1.524007497	Down	0.0150784668	0.6632327404
11223	MST1L	Macrophage stimulating 1-like	7.83797	5.90329	6.1364	4.57056	4.20383	6.19995	-3.10467015	-1.63444	3.10467015	Down	0.0441369992	0.6632327404
644538	SMIM10	Small integral membrane protein 10	3.769	4.53057	4.30577	6.87578	6.83832	5.31888	4.415407732	2.142546667	4.415407732	Up	0.0018841446	0.6632327404
7122	CLDN5	Claudin 5	5.82492	6.36097	6.41737	8.13404	8.14972	6.52154	2.640259989	1.40068	2.640259989	Up	0.0176251186	0.6632327404
2273	FHL1	Four and a half LIM domains 1	4.16	6.00	5.74	8.36	6.70	6.98	4.1365	2.0484	4.136	Up	0.011	0.663

			665	216	942	886	839	627	55675	3	555675		042368	327404
114905	C1QTNF7	C1q and tumor necrosis factor related protein 7	3.073955	4.569355	3.760999	7.525778	4.842655	4.8248	3.809618857	1.929646667	3.809618857	Up	0.039097471	0.663327404
57493	HEG1	Heart development protein with EGF-like domains 1	5.911113	7.366288	6.783332	9.885155	8.335711	7.377885	3.595003894	1.845993333	3.595003894	Up	0.025334346	0.663327404
135138	PACRG	PARK2 co-regulated	5.873111	5.707171	5.778277	4.530577	4.933899	5.145122	-1.887268908	-0.9163	1.887268908	Down	0.02113064	0.663327404
4969	OGN	Osteoglycin	3.979556	5.745199	5.570007	7.874055	5.988044	6.130266	2.960505088	1.565843333	2.960505088	Up	0.044065483	0.663327404
375775	PNPLA7	Patatin like phospholipase domain containing 7	7.956677	8.305155	7.687774	7.226944	7.395255	7.325555	-1.588105402	-0.667306667	1.588105402	Down	0.011397544	0.663327404
27	DKK	Dickkopf WNT	5.	7.	6.	10	8.	7.	4.9	2.3	4.9	U	0.0	0.6

122	3	signaling pathway inhibitor 3	59997	48474	33925	.27853	1369	94163	62383845	11033333	62383845	p	14295897	63327404
2354	FOSB	FBJ murine osteosarcoma viral oncogene homolog B	5.997768	5.462222	6.046166	7.946625	10.19302	8.724499	8.690263969	3.1194	8.690263969	Up	0.000640689	0.663327404
813	CALU	Calumenin	5.434244	4.574099	5.570558	7.195159	5.943144	5.866199	2.20666863	1.14187	2.20666863	Up	0.030992147	0.663327404
9630	GNA14	Guanine nucleotide binding protein (G protein), α 14	2.6952522	3.562248	3.323348	5.0451	3.89652	3.96495	2.156158647	1.108463333	2.156158647	Up	0.017075669	0.663327404
28935	IGKV1-27	Immunoglobulin κ variable 1-27	5.429999	4.898863	5.480021	6.015664	9.115585	8.903337	6.690017571	2.74201	6.690017571	Up	0.009795434	0.663327404
122786	FRMD6	FERM domain containing 6	4.26861	5.69125	4.77527	7.47371	6.30375	6.37243	3.494097824	1.80492	3.494097824	Up	0.004916868	0.663327404

78989	COLEC11	Collectin subfamily member 11	6.64166	8.44166	6.83248	9.44237	9.01811	9.19532	3.76678407	1.913333333	3.76678407	Up	0.004305979	0.663327404
3428	IFI16	Interferon, γ-inducible protein 16	6.64068	6.74517	7.40786	7.85487	8.16677	7.26541	1.779057738	0.831113333	1.779057738	Up	0.028754732	0.663327404
5270	SERPINE2	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2	6.41046	7.11518	6.47406	5.6669	5.70427	6.46409	-1.648872676	-0.72148	1.648872676	Down	0.044002542	0.663327404
79956	ERMP1	Endoplasmic reticulum metallopeptidase 1	10.46009	10.29357	10.09272	8.82839	9.99548	9.76079	-1.68635312	-0.753906667	1.686353312	Down	0.045388586	0.663327404
56136	PCDHA13	Protocadherin α 13	7.44209	7.73452	6.91299	6.5369	6.83182	6.80311	-1.557526454	-0.639256667	1.557526454	Down	0.031816486	0.663327404
56144	PCDHA4	Protocadherin α 4	7.4420	7.7345	6.9129	6.5369	6.8318	6.8031	-1.557526	-0.639256	1.55752	Dow	0.03181	0.66332

			9	2	9		2	1	454	667	6454	n	6486	7404
55727	BTBD7	BTB (POZ) domain containing 7	6.50748	5.3902	5.95988	4.47985	5.17459	5.08411	-2.055757369	-1.03967	2.055757369	Down	0.014668011	0.663327404

Table SVI. DEGs in comparison VI.

Entry	Gene symbol	Gene name	A11132	A11135	A11138	A11139	A11142	A11143	Fold-change	logFC	absoluteFC	Regulation	P-value	FDR
388566	ZNF470	Zinc finger protein 470	4.7301	5.226166	5.555882	3.623755	3.9389	4.8212	-2.060141359	-1.042743333	2.060141359	Down	0.024719324	0.383131863
50506	DUOX2	Dual oxidase 2	11.0397	7.17741	9.99739	4.21461	8.20129	5.34118	-11.20294918	-3.485806667	11.20294918	Down	0.029080923	0.394496382
6947	TCN1	Transcobalamin I	8.66443	9.48782	10.1546	3.86639	6.30299	7.11771	-12.75731958	-3.673253333	12.75731958	Down	0.00317573	0.234239382
58476	TP53INP2	Tumor protein p53 inducible nuclear protein 2	8.5757	7.74263	7.85127	6.70562	7.6735	6.58792	-2.095827531	-1.06752	2.095827531	Down	0.025645811	0.38482703
55084	SOBP	Sine oculis binding protein homolog	5.93993	6.19871	6.41619	3.52779	4.81483	3.79602	-4.403742156	-2.13873	4.403742156	Down	0.000583043	0.165320152
65987	KCTD14	Potassium channel tetramerization domain containing 14	6.56549	8.62037	8.64645	3.64405	3.83583	5.48018	-12.32984991	-3.624083333	12.32984991	Down	0.001429944	0.187107818
10346	TRIM22	Tripartite motif containing 22	9.644	9.0884	9.44963	5.39485	8.7809	7.49456	-4.502022707	-2.170573333	4.502022707	Down	0.027777645	0.391458068
1005	HNRNPUL2-	HNRNPUL2-BSCL2 readthrough	7.44	7.92	7.69	6.65	6.34	6.86	-2.094	-1.066	2.094	Do	0.003	0.234

34595	BSCL2	(NMD candidate)	391	172	997	626	631	25	844756	843333	844756	wn	167119	239382
203427	SLC25A43	Solute carrier family 25, member 43	4.53711	4.9685	4.82806	5.51252	6.08771	7.01529	2.689398112	1.427283333	2.689398112	Up	0.008062251	0.299139554
5360	PLTP	Phospholipid transfer protein	8.95809	8.80825	7.57009	5.81929	7.7755	6.76388	-3.158530127	-1.659253333	3.158530127	Down	0.023665356	0.381100972
1048	CEACAM5	Carcinoembryonic antigen-related cell adhesion molecule 5	2.90915	4.78495	5.38018	10.67756	11.48978	12.39911	143.4154524	7.164056667	143.4154524	Up	2.06062E-05	0.089451548
3371	TNC	Tenascin C	5.27009	5.15773	5.4008	5.8793	8.06194	6.3714	2.818003363	1.494673333	2.818003363	Up	0.027362341	0.389833707
29920	PYCR2	Pyrroline-5-carboxylate reductase family member 2	5.16629	5.7903	5.54063	7.39807	6.81916	5.9973	2.360517753	1.239103333	2.360517753	Up	0.014723913	0.347511024
130574	LYPD6	LY6/PLAUR domain containing 6	8.25352	6.85388	7.86962	6.9019	6.54544	6.3405	-2.089358418	-1.06306	2.089358418	Down	0.029178377	0.394496382
51110	LACTB2	Lactamase β 2	6.10003	5.0601	5.34225	6.92298	6.82725	6.04353	2.139281994	1.097126667	2.139281994	Up	0.020090793	0.370248667
283219	KCTD21	Potassium channel tetramerization domain containing 21	7.29812	6.64216	6.59631	5.46814	6.10458	5.37889	-2.289437742	-1.194993333	2.289437742	Down	0.005914733	0.279422873
10	GTF2I	General	7.	8.	8.	7.	6.	7.	-2.	-1.	2.1	D	0.0	0.2

0093631	P4	transcription factor iii, pseudogene 4	83213	52857	56697	3868	9157	25453	178819474	123546667	78819474	own	05285487	6846247
1373	CPS1	Carbamoyl-phosphate synthase 1	4.33046	4.58116	4.55213	4.66769	10.46137	9.80141	14.14519343	3.82224	14.14519343	Up	0.02998467	0.39794578
55799	CACNA2D3	Calcium channel, voltage-dependent, α 2/Δ subunit 3	7.08439	5.68674	4.17955	3.04571	3.24361	4.39213	-4.256723358	-2.089743333	4.256723358	Down	0.024539909	0.383089258
275	AMT	Aminomethyltransferase	6.09108	6.71322	6.63612	5.98253	4.4771	5.67572	-2.146059387	-1.10169	2.146059387	Down	0.034629935	0.408423981
9235	IL32	Interleukin 32	8.05169	5.92376	6.08448	8.54678	8.60601	7.89194	3.163671927	1.6616	3.163671927	Up	0.024190892	0.38258708
59084	ENPP5	Ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative)	7.17305	6.67075	6.2358	5.16498	5.16886	6.32537	-2.204008824	-1.14013	2.204008824	Down	0.025445383	0.384426011
6286	S100P	S100 calcium binding protein P	5.84806	6.12302	6.91097	9.84056	7.98171	9.02831	6.303602955	2.656176667	6.303602955	Up	0.001281333	0.187107818
216	ALDH1A1	Aldehyde dehydrogenase 1 family member A1	10.22939	9.04638	8.71905	5.4857	7.74199	8.09062	-4.67674035	-2.225503333	4.67674035	Down	0.019440091	0.367664157
5284	PIGR	Polymeric immunoglobulin receptor	10.44617	11.85376	12.16181	5.66903	9.83159	10.25119	-7.481408982	-2.90331	7.481408982	Down	0.045856621	0.439135361

30845	EHD3	EH domain containing 3	5.15098	6.73643	6.5402	4.90725	5.15788	5.08253	-2.133639837	-1.093316667	2.133639837	Down	0.036327118	0.413679796
3998	LMAN1	Lectin, mannose-binding, 1	5.03728	6.24196	5.97041	4.84172	5.03016	4.1147	-2.125334617	-1.08769	2.125334617	Down	0.026914929	0.388451923
8775	NAPA	N-ethylmaleimide-sensitive factor attachment protein, α	9.0987	9.6488	9.53026	9.03338	8.24314	7.02222	-2.507656951	-1.32634	2.507656951	Down	0.032647343	0.40471379
27284	SULT1B1	Sulfotransferase family 1B member 1	3.26116	4.83997	4.26102	9.31732	5.35887	5.44914	6.011506863	2.587726667	6.011506863	Up	0.045879752	0.439135361
7025	NR2F1	Nuclear receptor subfamily 2 group F member 1	9.3264	9.53671	9.60357	6.7542	7.5265	7.00391	-5.256211519	-2.394023333	5.256211519	Down	4.0823E-05	0.096052942
55225	RAVER2	Ribonucleoprotein, PTB-binding 2	6.92105	7.76596	8.62219	5.96252	7.13793	6.095	-2.586946109	-1.37125	2.586946109	Down	0.029834356	0.397501786
284406	ZFP82	ZFP82 zinc finger protein	6.87237	6.5217	6.51101	4.30382	6.12591	5.38835	-2.571006635	-1.362333333	2.571006635	Down	0.019420126	0.367664157
57139	RGL3	Ral guanine nucleotide dissociation stimulator-like 3	6.78346	7.712	7.41747	6.26834	5.06849	6.44091	-2.599792835	-1.378396667	2.599792835	Down	0.015131133	0.348679547
58499	ZNF462	Zinc finger protein 462	5.16372	5.5403	5.86519	3.62844	4.04675	4.73894	-2.611767849	-1.385026667	2.6117678	Down	0.0043839	0.2504695

											49		3	
555578	SUPT20H	SPT20 homolog, SAGA complex component	5.445546	5.3884	5.31401	5.46768	6.87707	7.94062	2.601180776	1.379166667	2.601180776	Up	0.047743769	0.443319056
357	SHROOM2	Shroom family member 2	4.76622	5.33379	5.61258	2.50387	2.98547	4.91596	-3.40840475	-1.769096667	3.40840475	Down	0.023366925	0.380853985
5950	RBP4	Retinol binding protein 4	3.71943	4.34725	4.10461	4.59218	6.35175	5.10282	2.448367292	1.29182	2.448367292	Up	0.024392278	0.382664012
63935	PCIF1	PDX1 C-terminal inhibiting factor 1	4.68847	3.35198	4.31608	5.77345	6.42831	5.29565	3.279842794	1.713626667	3.279842794	Up	0.005168814	0.266239084
8445	DYRK2	Dual specificity tyrosine-(Y)-phosphorylation regulated kinase 2	4.67696	3.82946	3.90399	7.94566	5.72532	4.70542	3.968691259	1.988663333	3.968691259	Up	0.037396507	0.416538803
8635	RNASET2	Ribonuclease T2	9.55245	10.42961	10.64892	7.2696	9.09712	9.58823	-2.945835084	-1.558676667	2.945835084	Down	0.040838272	0.426343707
710	SERPING1	Serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	10.47336	8.52865	9.29723	6.3165	8.73957	7.27501	-3.970681566	-1.989386667	3.970681566	Down	0.026880407	0.388384104
1033	CDKN3	Cyclin-dependent kinase inhibitor 3	5.21876	4.09231	4.80749	6.67187	7.96284	6.52925	5.092826845	2.348466667	5.092826845	Up	0.001500414	0.187107818
219854	TMEM218	Transmembrane protein 218	5.5452	5.2241	5.4012	3.8959	4.1962	4.7396	-2.162869	-1.112946	2.16286	Dow	0.00369	0.23859

			6	2	8	5	5	2	569	667	9569	n	2883	853
3398	ID2	Inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	8.23711	8.84918	8.86974	7.35655	7.06276	7.0772	-2.80209655	-1.486506667	2.80209655	Down	0.000658715	0.172631847
79875	THSD4	Thrombospondin type 1 domain containing 4	8.52752	7.18644	7.33974	4.53711	6.78696	6.76309	-3.150352651	-1.655513333	3.150352651	Down	0.044859111	0.435527714
26580	BSCL2	Berardinelli-Seip congenital lipodystrophy 2 (seipin)	7.44391	7.92172	7.69997	6.65626	6.34631	6.8625	-2.094844756	-1.066843333	2.094844756	Down	0.003167119	0.234239382
55786	ZNF415	Zinc finger protein 415	5.25114	5.45495	5.28652	3.20697	4.18467	4.39236	-2.644270927	-1.40287	2.644270927	Down	0.003533123	0.237146666
102723872	LOC102723872	Putative protein FAM157B	8.27782	8.11345	7.66239	5.84476	5.87111	6.62628	-3.742070312	-1.903836667	3.742070312	Down	0.000426253	0.163378734
3480	IGF1R	Insulin like growth factor 1 receptor	5.65891	6.49335	6.25641	5.4463	5.01632	4.80537	-2.066076013	-1.046893333	2.066076013	Down	0.009680498	0.313660293
23150	FRMD4B	FERM domain containing 4B	8.1092	7.78426	8.08516	7.75006	5.81557	7.01529	-2.192484535	-1.132566667	2.192484535	Down	0.048384549	0.444483505
80328	ULBP2	UL16 binding protein 2	5.41502	5.18697	4.64681	6.32896	5.96492	7.31171	2.736370028	1.452263333	2.736370028	Up	0.007987247	0.299139554
4853	NOTCH2	Notch 2	7.77	7.35	7.50	9.02	8.39	8.23	2.0108	1.0078	2.010	Up	0.008	0.304

			63	32	599	152	945	798	70256	2	870256		353307	720215
653316	FAM153C	Family with sequence similarity 153, member C	6.87689	6.80655	6.70389	3.93424	3.95251	5.88338	-4.613089661	-2.205733333	4.613089661	Down	0.004083177	0.24425172
229	ALDOB	Aldolase, fructose-bisphosphate B	7.33287	5.39735	7.47341	7.3783	9.89335	9.30694	4.361990617	2.124986667	4.361990617	Up	0.031625332	0.401565284
6819	SULT1C2	Sulfotransferase family 1C member 2	3.46175	3.7158	6.0372	10.04452	7.41156	7.63649	15.55464251	3.959273333	15.55464251	Up	0.003462402	0.23714666
29097	CNIH4	Cornichon family AMPA receptor auxiliary protein 4	7.202	6.72151	6.78161	8.29399	8.23297	7.50315	2.155959385	1.10833	2.155959385	Up	0.006809599	0.288459719
1063	CENPF	Centromere protein F	5.79045	5.04348	5.47208	8.14081	7.69428	6.58584	4.107631229	2.038306667	4.107631229	Up	0.002140071	0.207755905
9055	PRC1	Protein regulator of cytokinesis 1	5.48778	5.05148	4.65571	6.54327	6.71237	6.04427	2.581685626	1.368313333	2.581685626	Up	0.00256234	0.221485665
1045	CDX2	Caudal type homeobox 2	5.36337	5.31469	5.34093	5.97649	6.99509	6.11623	2.032055773	1.02294	2.032055773	Up	0.011832722	0.329737949
24137	KIF4A	Kinesin family member 4A	4.58756	4.68405	4.79655	5.61718	6.31343	5.20895	2.033267456	1.0238	2.033267456	Up	0.011875509	0.330286388
88	VNN1	Vanin 1	6.	3.	3.	9.	7.	6.	11.	3.5	11.	U	0.0	0.3

76			43189	27648	02712	3489	40488	66572	80508616	61336667	80508616	p	11572647	27659866
4681	NBL1	Neuroblastoma 1, DAN family BMP antagonist	8.820007	7.4003	8.58861	9.66775	10.32291	9.08301	2.678756292	1.421563333	2.678756292	Up	0.019345708	0.367664157
5318	PKP2	Plakophilin 2	8.564475	8.9163	8.4144	10.69759	11.27934	9.89595	3.979195184	1.992476667	3.979195184	Up	0.001123433	0.18614792
80012	PHC3	Polyhomeotic homolog 3 (Drosophila)	3.636619	4.758896	3.721134	4.475535	4.999329	5.985515	2.162100123	1.112433333	2.162100123	Up	0.04745423	0.442162965
23474	ETHE1	Ethylmalonic encephalopathy 1	6.896613	6.677552	7.683662	8.669992	8.200904	8.27782	2.45740674	1.297136667	2.45740674	Up	0.004731819	0.258194748
1066	CES1	Carboxylesterase 1	12.58602	7.965526	9.6443	5.60041	7.40133	5.87527	-13.66919774	-3.772856667	13.66919774	Down	0.012424169	0.334466731
7153	TOP2A	Topoisomerase (DNA) II α	6.822733	5.261266	6.180766	8.5357	8.698222	7.696678	4.665343583	2.221983333	4.665343583	Up	0.001872044	0.195558568
81034	SLC25A32	Solute carrier family 25 (mitochondrial folate carrier), member 32	4.319665	4.258868	4.134288	5.4685	5.627774	4.915561	2.143170557	1.099746667	2.143170557	Up	0.002344302	0.213495385
957	ENTPD5	Ectonucleoside triphosphate diphosphohydrolase 5	9.751661	8.675548	9.703326	9.0259	7.987033	7.566533	-2.271475902	-1.18363	2.271475902	Down	0.037997113	0.417700962

28982	FLVCR1	Feline leukemia virus subgroup C cellular receptor 1	5.79047	5.37609	5.53812	7.27834	6.81106	6.0789	2.226133326	1.15454	2.226133326	Up	0.010854919	0.323878416
7164	TPD52L1	Tumor protein D52-like 1	7.52889	6.76754	7.01685	5.13742	3.67855	4.5324	-6.298332841	-2.65497	6.298332841	Down	0.000334115	0.160901541
55825	PECR	Peroxisomal trans-2-enoyl-coa reductase	6.08049	5.59748	6.18713	5.62763	4.66691	4.3857	-2.087274003	-1.06162	2.087274003	Down	0.022260519	0.378457886
6427	SRSF2	Serine/arginine-rich splicing factor 2	7.63762	7.72757	7.63853	8.36553	8.71822	9.17887	2.123287897	1.0863	2.123287897	Up	0.004163134	0.245180458
1719	DHFR	Dihydrofolate reductase	5.8826	5.25539	5.3977	7.84155	7.4969	6.98361	3.807357391	1.92879	3.807357391	Up	0.00037824	0.160901541
1397	CRIP2	Cysteine-rich protein 2	6.46209	8.01191	8.24607	5.57065	6.36508	6.6683	-2.58831523	-1.372013333	2.58831523	Down	0.035332786	0.409984414
2152	F3	Coagulation factor III (thromboplastin, tissue factor)	5.96802	6.45656	5.86937	7.23343	8.4296	8.45294	3.838847723	1.940673333	3.838847723	Up	0.001501536	0.187107818
8671	SLC4A4	Solute carrier family 4 (sodium bicarbonate cotransporter), member 4	9.09868	7.83984	9.27774	8.00038	6.4725	5.99497	-3.774110509	-1.916136667	3.774110509	Down	0.015764238	0.350936189
28969	BZW2	Basic leucine zipper and W2 domains 2	5.0674	4.70223	4.89375	6.24504	6.72151	5.52405	2.421229779	1.27574	2.4212297	Up	0.0060867	0.2794817

											79		16	42
653820	FAM72B	Family with sequence similarity 72 member B	4.81144	3.76743	4.33532	7.00888	6.35936	5.57412	4.026119517	2.00939	4.026119517	Up	0.002238485	0.211694553
6867	TACC1	Transforming, acidic coiled-coil containing protein 1	6.34631	7.13096	7.15344	3.8711	6.27168	5.46053	-3.194964719	-1.6758	3.194964719	Down	0.027142345	0.389575413
51523	CXXC5	CXXC finger protein 5	7.911	8.11929	7.95057	6.51569	7.00089	7.18126	-2.135153809	-1.09434	2.135153809	Down	0.002931753	0.231335369
7366	UGT2B15	UDP glucuronosyltransferase 2 family, polypeptide B15	10.91011	8.01517	8.28278	8.06831	6.67746	6.25524	-4.196005784	-2.069016667	4.196005784	Down	0.042984093	0.432207881
89927	C16orf45	Chromosome 16 open reading frame 45	7.15514	7.20444	8.18352	5.54778	6.51201	5.37926	-3.252051265	-1.70135	3.252051265	Down	0.004560674	0.254416312
11130	ZWINT	ZW10 interacting kinetochore protein	5.66664	5.26782	5.72027	6.88527	6.87287	6.26279	2.176585461	1.122066667	2.176585461	Up	0.003823731	0.238907274
554282	FAM72C	Family with sequence similarity 72 member C	4.81144	3.76743	4.33532	7.00888	6.35936	5.57412	4.026119517	2.00939	4.026119517	Up	0.002238485	0.211694553
83938	C10orf11	Chromosome 10 open reading frame 11	7.17641	8.43513	8.03222	5.76641	5.66673	6.74732	-3.533505121	-1.8211	3.533505121	Down	0.003809574	0.238907274
9762	LZTS3	Leucine zipper, putative tumor suppressor family	7.5770	8.3333	8.0942	6.8305	6.7936	7.1001	-2.133787	-1.093416	2.13378	Dow	0.00425	0.24647

		member 3	4			6	2	1	735	667	7735	n	8349	3218
10961	ERP29	Endoplasmic reticulum protein 29	7.391115	6.998829	7.055	5.825595	6.073319	5.898821	-2.32252909	-1.215696667	2.32252909	Down	0.000771253	0.177732945
554313	HIST2H4B	Histone cluster 2, h4b	8.735568	8.014419	8.248889	9.862207	9.680771	8.5579	2.047655952	1.033973333	2.047655952	Up	0.035068407	0.408557826
3709	ITPR2	Inositol 1,4,5-trisphosphate receptor, type 2	5.631115	7.186698	7.177774	4.513312	5.858188	4.734415	-3.095430355	-1.63014	3.095430355	Down	0.018978262	0.367348071
214	ALCAM	Activated leukocyte cell adhesion molecule	8.622221	8.958111	8.354711	6.972544	7.9918	6.351099	-2.907676296	-1.539866667	2.907676296	Down	0.009028051	0.309796138
26255	PTTG3P	Pituitary tumor-transforming 3, pseudogene	4.444311	4.076681	4.483835	6.195544	6.8131	5.632999	3.677826272	1.878853333	3.677826272	Up	0.000720042	0.172631847
5225	PGC	Progastricsin (pepsinogen C)	4.457769	14.17586	13.91686	4.841311	4.2168	4.878892	-73.74431857	-6.20446	73.74431857	Down	0.038900393	0.420997079
7414	VCL	Vinculin	6.795584	6.3103	5.979908	7.326699	8.538851	7.308868	2.572171195	1.362986667	2.572171195	Up	0.01188849	0.330286388
25759	SHC2	SHC (Src homology 2 domain containing) transforming protein 2	6.793343	7.286657	6.865548	6.3728	5.230028	6.05616	-2.136742907	-1.095413333	2.136742907	Down	0.014463341	0.346827031
64	SRSF1	Serine/arginine-ric	6.	6.	6.	7.	7.	7.	2.1	1.0	2.1	U	0.0	0.3

26		h splicing factor 1	05432	9721	68233	93542	32614	71553	27924061	89446667	27924061	p	09690024	13660293
228841	RAB11FIP2	RAB11 family interacting protein 2 (class I)	7.854452	7.681149	7.916	6.466622	6.917739	6.614427	-2.22125753	-1.151376667	2.22125753	Down	0.001174903	0.18614792
1054	CEBPG	CCAAT/enhancer binding protein (C/EBP), γ	5.601733	5.0533	5.623333	6.301114	6.837746	7.058884	2.473339015	1.30646	2.473339015	Up	0.002701117	0.226767112
1871	E2F3	E2F transcription factor 3	4.212224	3.910889	3.7759	5.137738	4.689666	5.150098	2.036836249	1.02633	2.036836249	Up	0.002258133	0.211694553
55652	SLC48A1	Solute carrier family 48 (heme transporter), member 1	7.228807	6.959997	6.940777	5.033359	5.478801	5.526223	-3.242245497	-1.696993333	3.242245497	Down	0.0001563	0.128621894
374286	CDRT1	CMT1A duplicated region transcript 1	4.169914	5.4548	5.298833	4.149976	3.247738	3.824996	-2.351188162	-1.23339	2.351188162	Down	0.017653754	0.361123337
3216	HOXB6	Homeobox B6	5.214	3.844474	4.47723	7.358999	6.476647	8.337706	7.355635549	2.87885	7.355635549	Up	0.001101194	0.18614792
254896	LOC254896	Uncharacterized LOC254896	7.3489	7.40311	7.61385	7.17953	5.24007	5.70632	-2.663481635	-1.413313333	2.663481635	Down	0.022738122	0.379556651
4008	LMO7	LIM domain 7	4.95748	5.12421	5.41742	5.87341	7.28843	6.1435	2.40951592	1.268743333	2.40951592	Up	0.014024392	0.345571186

64756	ATPAF1	ATP synthase mitochondrial F1 complex assembly factor 1	7.51166	7.19418	7.19179	5.80506	6.8254	5.87005	-2.192190744	-1.132373333	2.192190744	Down	0.009858547	0.315707858
25945	PVRL3	Poliovirus receptor-related 3	7.6581	8.07388	7.86163	6.19899	7.58307	6.39505	-2.202028793	-1.138833333	2.202028793	Down	0.022137616	0.378357221
116255	MOGAT1	Monoacylglycerol O-acyltransferase 1	9.7281	9.17825	9.6655	8.9975	5.7548	2.89758	-12.47230896	-3.640656667	12.47230896	Down	0.03177904	0.40273838
10610	ST6GALNAC2	ST6 (α-N-acetyl-neuraminyl-2,3-β-galactosyl-1,3)-N-acetyl galactosaminide α-2,6-sialyltransferase 2	4.09849	3.77274	3.39786	5.45307	4.54442	5.6419	2.744924878	1.456766667	2.744924878	Up	0.003640406	0.23859853
1509	CTSD	Cathepsin D	10.80711	9.99217	9.90148	8.185	9.3703	8.52461	-2.908516187	-1.540283333	2.908516187	Down	0.005807264	0.276078898
26047	CNTNAP2	Contactin associated protein-like 2	4.23592	4.52352	4.42705	7.32036	5.89157	4.59877	2.910775017	1.541403333	2.910775017	Up	0.043252023	0.432330901
157695	TDRP	Testis development related protein	5.5244	5.48579	5.27679	4.08952	4.61335	4.23061	-2.170208017	-1.117833333	2.170208017	Down	0.001192605	0.18614792
100128252	ZNF667-AS1	ZNF667 antisense RNA 1 (head to head)	6.74061	6.61253	7.61356	3.73473	5.78631	4.5671	-4.900243136	-2.292853333	4.900243136	Down	0.003994897	0.242710682
4057	LTF	Lactotransferrin	5.21	12.5	12.2	4.99	5.74	5.91	-21.51	-4.427	21.51	Do	0.046	0.441

			437	1932	0524	387	677	628	598028	336667	598028	wn	797998	192125
80781	COL18A1	Collagen, type XVIII, α 1	8.94471	9.27906	9.08642	8.44831	7.54591	7.34507	-2.5029567	-1.323633333	2.50295667	Down	0.004929466	0.262383257
117153	MIA2	Melanoma inhibitory activity 2	4.4985	4.45246	4.60628	2.64048	3.04386	4.31696	-2.274127802	-1.185313333	2.274127802	Down	0.023959349	0.381896949
203068	TUBB	Tubulin, β class I	8.77149	8.399	8.31698	9.49149	10.21469	8.85209	2.032985605	1.0236	2.032985605	Up	0.027409784	0.389833707
203228	C9orf72	Chromosome 9 open reading frame 72	6.47455	6.15062	6.39929	7.07556	8.1677	6.90247	2.056831105	1.040423333	2.056831105	Up	0.023803674	0.381268997
8741	TNFSF13	Tumor necrosis factor superfamily member 13	8.30848	8.37082	9.27544	7.44214	7.87419	6.30389	-2.722326301	-1.44484	2.722326301	Down	0.017591411	0.361123337
114907	FBXO32	F-box protein 32	6.35397	6.49916	6.46615	6.91633	8.76325	7.90571	2.679573396	1.422003333	2.679573396	Up	0.015666091	0.350843938
50515	CHST11	Carbohydrate (chondroitin 4) sulfotransferase 11	7.88182	7.15343	6.95651	5.41084	7.11321	5.59731	-2.445506558	-1.290133333	2.445506558	Down	0.036069675	0.412473332
1838	DTNB	Dystrobrevin β	7.70587	8.08231	8.03359	5.83698	6.05742	6.30129	-3.668931578	-1.87536	3.668931578	Down	8.41904E-05	0.126508975
26	GJA1	Gap junction	11	9.	10	9.	9.	8.	-3.	-1.	3.1	D	0.0	0.3

97		protein α 1	.59341	84507	.9774	70877	25395	46397	166882484	663063333	66882484	own	14219281	46797053
644844	PHGR1	Proline/histidine/glycine-rich 1	4.21457	4.8842	5.02977	6.79196	9.11859	5.24205	5.067778023	2.341353333	5.067778023	Up	0.034935997	0.408428141
153090	DAB2IP	DAB2 interacting protein	8.2247	8.29759	8.24631	7.40641	7.0411	7.1573	-2.077137421	-1.054596667	2.077137421	Down	0.001328393	0.187107818
8343	HIST1H2BF	Histone cluster 1, h2bf	7.34513	6.40799	6.40994	8.42027	9.50468	8.17316	3.940421608	1.97835	3.940421608	Up	0.002634682	0.224747595
26031	OSBPL3	Oxysterol binding protein like 3	6.34279	5.785	6.39647	7.93168	7.53253	7.28683	2.655395337	1.408926667	2.655395337	Up	0.00145802	0.187107818
1291	COL6A1	Collagen, type VI, α 1	8.72347	7.78592	7.59687	8.43799	9.24998	9.84659	2.208040549	1.142766667	2.208040549	Up	0.03839736	0.419344395
79694	MANEA	Mannosidase, endo-α	7.99403	9.29439	8.53104	6.79998	7.77656	6.60863	-2.917562038	-1.544763333	2.917562038	Down	0.009839049	0.31560084
23670	TMEM2	Transmembrane protein 2	7.13976	8.39292	8.40219	6.42982	7.17084	7.0412	-2.14008782	-1.09767	2.14008782	Down	0.031208288	0.400466753
147947	ZNF542P	Zinc finger protein 542, pseudogene	5.04498	4.94683	5.09359	3.22848	4.23892	3.61828	-2.519679087	-1.33324	2.519679087	Down	0.001868371	0.195558568

7474	WNT5A	Wingless-type MMTV integration site family member 5A	7.79373	7.41508	6.68614	5.42353	6.68856	6.14338	-2.318449014	-1.21316	2.318449014	Down	0.022548408	0.378900537
6717	SRI	Sorcin	5.611159	6.19102	5.83718	6.93232	7.79692	8.3671	3.527998628	1.81885	3.527998628	Up	0.002231614	0.212915914
137872	ADHFE1	Alcohol dehydrogenase, iron containing 1	6.153334	7.08034	6.62798	4.66522	5.54195	5.62164	-2.53904037	-1.344283333	2.53904037	Down	0.007269255	0.292186683
284716	RIMKLA	Ribosomal modification protein rimk-like family member A	5.55817	6.78522	6.85004	4.73645	5.16009	5.71497	-2.287819658	-1.193973333	2.287819658	Down	0.026417481	0.387358841
51659	GINS2	GINS complex subunit 2 (Psf2 homolog)	4.97712	5.05674	4.96104	6.69215	7.14497	6.04278	3.091556417	1.628333333	3.091556417	Up	0.001074131	0.186147992
25924	MYRIP	Myosin VIIA and Rab interacting protein	5.78299	7.12403	6.14288	4.85721	5.4541	5.69201	-2.021640773	-1.015526667	2.021640773	Down	0.039368871	0.422579715
51747	LUC7L3	LUC7-like 3 pre-mrna splicing factor	5.98804	6.39684	6.28196	7.06422	7.04774	8.1581	2.299106559	1.201073333	2.299106559	Up	0.010733635	0.323878416
23129	PLXND1	Plexin D1	7.18164	7.34012	7.32871	5.60498	6.5596	5.61898	-2.559100254	-1.355636667	2.559100254	Down	0.003067217	0.234049049
571	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor	4.81472	3.57046	3.81185	4.65388	6.10956	5.6422	2.644270927	1.40287	2.6442709	Up	0.0197955	0.3681068

		1									27		56	92
158219	TTC39B	Tetratricopeptide repeat domain 39B	6.97057	7.30862	8.44597	5.1619	7.13152	5.99692	-2.786150776	-1.478273333	2.786150776	Down	0.038636958	0.41956129
261726	TIPRL	TOR signaling pathway regulator	6.15553	6.69208	6.57503	8.13928	7.44396	7.20476	2.176163067	1.121786667	2.176163067	Up	0.008420182	0.305830366
533	ATP6V0B	Atpase, H+ transporting, lysosomal 21kda, V0 subunit b	7.55607	7.28677	7.36234	5.94942	6.36684	5.18971	-2.961654468	-1.566403333	2.961654468	Down	0.002005975	0.202250929
23127	COLGALT2	Collagen β(1-O)galactosyltransferase 2	4.28745	9.90769	9.50455	3.90415	4.35137	5.24789	-10.54699422	-3.39876	10.54699422	Down	0.048168589	0.444299939
10742	RAI2	Retinoic acid induced 2	8.4207	8.54271	8.61076	6.48556	7.53502	7.94948	-2.299579381	-1.20137	2.299579381	Down	0.016473886	0.355136217
727897	MUC5B	Mucin 5B, oligomeric mucus/gel-forming	10.08652	10.81783	10.99771	9.78955	7.50969	8.06896	-4.525111476	-2.177953333	4.525111476	Down	0.008018331	0.299139554
6926	TBX3	T-box 3	5.76931	7.37927	7.70593	4.92144	6.19242	5.41442	-2.717116956	-1.442076667	2.717116956	Down	0.038284978	0.419019374
6941	TCF19	Transcription factor 19	5.90361	4.94788	4.96629	6.07746	6.77825	6.0418	2.03718453	1.026576667	2.03718453	Up	0.022324508	0.378660533
5004	ORM1	Orosomucoid 1	3.8083	4.6354	5.5452	6.9744	8.0724	5.4783	4.5276946	2.1787766	4.52769	Up	0.01827	0.36408

			1	1	6	8	4	9	54	67	4654		6955	7805
285671	RNF180	Ring finger protein 180	5.6419	6.5101	6.03617	3.14281	5.44105	5.15065	-2.798305226	-1.484553333	2.798305226	Down	0.044575751	0.435294139
1164	CKS2	CDC28 protein kinase regulatory subunit 2	5.35426	4.33286	5.19969	7.73001	6.95544	5.80284	3.648137231	1.86716	3.648137231	Up	0.009111485	0.310474429
400581	GRAPL	GRB2-related adaptor protein-like	5.31815	7.64792	6.615	4.71043	4.87504	5.41042	-2.884644099	-1.528393333	2.884644099	Down	0.030863593	0.399309008
11065	UBE2C	Ubiquitin conjugating enzyme E2C	6.1793	5.17869	5.40581	7.77279	8.76221	7.19619	5.001855339	2.322463333	5.001855339	Up	0.00144852	0.187107818
4680	CEACAM6	Carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)	6.96745	7.10356	7.66467	10.70656	10.0363	11.21336	10.60627876	3.406846667	10.60627876	Up	3.13011E-05	0.096052942
399844	LINC01002	Long intergenic non-protein coding RNA 1002	8.03359	8.30848	7.49201	5.71049	6.09297	7.81824	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
405753	DUOXA2	Dual oxidase maturation factor 2	9.43212	6.93978	8.33202	6.51114	7.12037	6.51971	-2.863077388	-1.517566667	2.863077388	Down	0.039203222	0.422828916
55332	DRAM1	DNA damage regulated autophagy modulator 1	6.51589	6.56418	5.46836	3.76189	5.67287	4.91325	-2.639271926	-1.40014	2.639271926	Down	0.034075273	0.408273555
11	PRAP1	Proline-rich acidic	7.	6.	6.	8.	9.	6.	3.3	1.7	3.3	U	0.0	0.4

8471		protein 1	06452	77757	21076	90881	57538	77727	31572602	36203333	31572602	p	41233147	26961048
224	ALDH3A2	Aldehyde dehydrogenase 3 family member A2	10.09878	8.99958	9.37991	7.77591	8.4712	6.67781	-3.607793254	-1.851116667	3.607793254	Down	0.007905105	0.299139554
92086	GGTLC1	Γ-glutamyltransferase light chain 1	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.23859853
8970	HIST1H2BJ	Histone cluster 1, h2bj	5.29899	4.46462	4.76981	5.23291	6.95674	5.79476	2.219646605	1.15033	2.219646605	Up	0.041995127	0.430074346
9141	PDCD5	Programmed cell death 5	5.46347	5.03579	5.27087	6.20475	6.5847	6.04471	2.02980809	1.021343333	2.02980809	Up	0.00354837	0.23714666
147111	NOTUM	Notum pectinacetylesterase homolog (Drosophila)	5.3259	11.6508	10.5107	5.42995	4.94976	5.35473	-15.11232086	-3.917653333	15.11232086	Down	0.034637956	0.408423981
7163	TPD52	Tumor protein D52	6.39738	6.57032	7.37051	9.25863	9.52074	7.81226	4.2412024	2.084473333	4.2412024	Up	0.004255485	0.246473218
50650	ARHGEF3	Rho guanine nucleotide exchange factor 3	6.51879	7.49644	7.67408	4.78945	5.11331	5.58392	-4.191722856	-2.067543333	4.191722856	Down	0.000884869	0.181040924
23710	GABARAPL1	GABA(A) receptor-associated protein like 1	10.11869	9.03817	8.6699	7.84585	8.03149	7.53356	-2.773972207	-1.471953333	2.773972207	Down	0.007505738	0.294419361

388753	COA6	Cytochrome c oxidase assembly factor 6	5.9891	5.04463	5.51403	7.50752	7.00247	5.93931	2.463165103	1.300513333	2.463165103	Up	0.02285291	0.379932065
57523	NYNRIN	NYN domain and retroviral integrase containing	7.13847	7.14679	8.35784	5.82821	7.0183	6.09462	-2.352166197	-1.23399	2.352166197	Down	0.029519656	0.396728924
89822	KCNK17	Potassium channel, two pore domain subfamily K, member 17	5.40836	7.17696	7.68199	4.83455	4.30161	4.90517	-4.214398294	-2.075326667	4.214398294	Down	0.008560464	0.307296395
116238	TLCD1	TLC domain containing 1	5.31096	5.06584	5.51107	6.67514	6.4681	6.07382	2.158052556	1.10973	2.158052556	Up	0.002766259	0.228795443
51716	CES1P1	Carboxylesterase 1 pseudogene 1	12.58602	7.96526	9.6443	5.60041	7.40133	5.87527	-13.66919774	-3.772856667	13.66919774	Down	0.012424169	0.334466731
4013	VWA5A	Von Willebrand factor A domain containing 5A	7.49181	6.81631	7.37132	4.57113	6.2358	6.78612	-2.570644303	-1.36213	2.570644303	Down	0.045893212	0.439135361
64418	TMEM168	Transmembrane protein 168	4.18696	4.90986	4.79187	5.09991	5.60576	6.34638	2.076931066	1.054453333	2.076931066	Up	0.023786979	0.381268997
6451	SH3BGRL	SH3 domain binding glutamate-rich protein like	7.14652	6.87048	6.59625	7.07797	8.51285	8.04768	2.011702079	1.008416667	2.011702079	Up	0.036485561	0.414090013
6565	SLC15A2	Solute carrier family 15 (oligopeptide transporter),	7.39513	7.20265	7.01715	4.88828	5.03043	6.12991	-3.618612605	-1.855436667	3.6186126	Down	0.0013481	0.1871078

		member 2									05		67	18
84527	ZNF559	Zinc finger protein 559	5.41431	5.6037	5.57956	2.78445	3.78111	4.36037	-3.707756926	-1.890546667	3.707756926	Down	0.001833641	0.193617674
1933	EEF1B2	Eukaryotic translation elongation factor 1 β 2	8.527744	8.655525	8.963328	10.7197	10.27042	8.78658	2.313766588	1.210243333	2.313766588	Up	0.0043426313	0.432330901
54432	YIPF1	Yip1 domain family member 1	7.229111	7.972688	7.658823	5.9494	6.620005	6.300005	-2.514328816	-1.330173333	2.514328816	Down	0.002472106	0.217696767
667	DST	Dystonin	4.422622	3.31777	3.439222	6.83011	6.19303	5.64218	5.638207864	2.495236667	5.638207864	Up	0.000504225	0.164248294
2273	FHL1	Four and a half LIM domains 1	5.858588	5.25901	5.03281	5.42991	8.27256	7.3669	3.115916703	1.639656667	3.115916703	Up	0.0049132569	0.4461748
253982	ASPHD1	Aspartate β-hydroxylase domain containing 1	7.93887	7.61143	7.61697	7.19741	5.24266	6.8623	-2.442400856	-1.2883	2.442400856	Down	0.0037319516	0.416343848
5213	PFKM	Phosphofructokinase, muscle	5.738669	7.8831	7.28904	4.56139	4.86094	5.16578	-4.309657841	-2.107573333	4.309657841	Down	0.005711438	0.274127994
3914	LAMB3	Laminin subunit β 3	5.102822	5.71965	5.68243	7.33994	6.8968	7.82733	3.612647937	1.853056667	3.612647937	Up	0.00061836	0.168942005
9071	CLDN10	Claudin 10	7.8728	7.8682	7.7979	5.409	5.5808	6.3563	-4.182252	-2.06428	4.18225	Dow	0.00019	0.13527

				7	7		6	4	019		2019	n	5161	9577
64798	DEPTOR	DEP domain containing MTOR-interacting protein	2.72283	4.34885	4.58437	5.86249	5.57839	4.45703	2.664663455	1.413953333	2.664663455	Up	0.043568968	0.432330901
3248	HPGD	Hydroxyprostaglandin dehydrogenase 15-(NAD)	4.6873	3.35372	4.25979	7.36085	7.45479	5.03221	5.718671363	2.51568	5.718671363	Up	0.008608065	0.307296395
333932	HIST2H3A	Histone cluster 2, h3a	6.19181	5.50187	5.70538	7.08312	7.49997	6.87608	2.555082722	1.35337	2.555082722	Up	0.001879027	0.195764558
54847	SIDT1	SID1 transmembrane family member 1	6.44816	6.41308	7.41394	6.14158	5.38625	5.36757	-2.183425541	-1.126593333	2.183425541	Down	0.017793114	0.361502321
1015	CDH17	Cadherin 17, LI cadherin (liver-intestine)	4.75864	6.01148	7.41618	10.33551	11.00237	8.88832	16.14818371	4.0133	16.14818371	Up	0.00131492	0.187107818
57447	NDRG2	NDRG family member 2	8.53641	9.49662	10.12839	8.65486	7.67072	7.70181	-2.59909614	-1.37801	2.59909614	Down	0.021687604	0.376416263
7273	TTN	Titin	7.85244	4.83604	5.83126	4.62214	4.06439	3.64993	-4.173024334	-2.061093333	4.173024334	Down	0.025564337	0.384735387
55304	SPTLC3	Serine palmitoyltransferase, long chain base subunit 3	7.98134	6.43737	7.51967	5.98558	6.43578	5.97983	-2.264297203	-1.179063333	2.264297203	Down	0.024039104	0.381896949
8070	SLC19A3	Solute carrier family 19	4.47	7.26	7.36	2.87	3.35	4.31	-7.214	-2.850	7.214	Do	0.009	0.313

4		(thiamine transporter), member 3	415	28	177	54	098	969	419594	883333	419594	wn	641271	660293
7298	TYMS	Thymidylate synthetase	6.186654	5.671184	6.125526	7.038886	7.813233	7.901033	3.010131819	1.589826667	3.010131819	Up	0.001259619	0.187107818
26249	KLHL3	Kelch like family member 3	7.406662	5.765884	6.428999	5.489833	4.398433	5.647977	-2.55810119	-1.355073333	2.558101119	Down	0.031100384	0.399917784
56704	JPH1	Junctophilin 1	3.728877	4.547443	4.670881	6.318668	5.271722	5.064555	2.355412926	1.23598	2.355412926	Up	0.01904196	0.367480231
57224	NHSL1	NHS like 1	4.9935	5.455583	5.834331	7.10116	7.100332	5.818802	2.37065655	1.245286667	2.370656655	Up	0.020268092	0.371132699
100133941	CD24	CD24 molecule	12.07691	10.36366	11.26196	10.06308	7.934322	8.641522	-5.114299562	-2.354536667	5.114299562	Down	0.007622139	0.296602956
100508226	LOC100508226	HHSL751	6.012999	6.151911	6.197544	5.443944	4.421088	4.562388	-2.482304329	-1.31168	2.482304329	Down	0.003518393	0.237146666
79866	BORA	Bora, aurora kinase A activator	5.188744	4.696673	4.687966	5.850442	6.9553	6.258891	2.822682119	1.497066667	2.822682119	Up	0.0026453	0.225161696
996	CDC27	Cell division cycle 27	6.484551	6.097749	6.376011	7.136645	7.800277	7.249377	2.108221814	1.076026667	2.108221814	Up	0.004202393	0.245362985
30	HELL	Helicase,	3.	3.	3.	6.	7.	5.	5.7	2.5	5.7	U	0.0	0.1

70	S	lymphoid-specific	92469	58102	96739	2151	02327	7795	15672813	14923333	15672813	p	00150514	28621894
7784	ZP3	Zona pellucida glycoprotein 3 (sperm receptor)	4.1445	3.65739	4.18017	5.97107	5.17653	4.76187	2.477932119	1.309136667	2.477932119	Up	0.006319557	0.283732496
4233	MET	MET proto-oncogene, receptor tyrosine kinase	7.90992	6.64853	7.33127	8.43919	8.7702	9.03831	2.737122492	1.45266	2.737122492	Up	0.004970023	0.263834107
55351	STK32B	Serine/threonine kinase 32B	6.19906	8.98877	7.89407	3.9797	4.77519	4.69205	-9.264116098	-3.211653333	9.264116098	Down	0.002049322	0.204154168
84418	CYSTM1	Cysteine-rich transmembrane module containing 1	9.32089	10.22523	10.31498	8.76663	8.41365	9.02512	-2.327153971	-1.218566667	2.327153971	Down	0.008171913	0.301196652
493	ATP2B4	Atpase, Ca++ transporting, plasma membrane 4	5.72023	4.91192	5.22754	5.80929	6.66647	6.60098	2.102855912	1.07235	2.102855912	Up	0.014028409	0.345571186
153830	RNF145	Ring finger protein 145	5.9771	5.77101	6.42737	6.82312	7.1358	7.89803	2.341051491	1.227156667	2.341051491	Up	0.008582688	0.307296395
158471	PRUNE2	Prune homolog 2 (Drosophila)	5.66357	3.18297	3.2017	4.7355	7.15474	7.79244	5.83532631	2.544813333	5.83532631	Up	0.033216497	0.406852216
146880	LOC146880	Rho gtpase activating protein 27 pseudogene	6.28763	5.64955	6.57032	7.70071	6.81672	8.66058	2.942080388	1.556836667	2.942080388	Up	0.015832602	0.351167461

388336	SHISA6	Shisa family member 6	5.24625	8.98877	7.73358	4.73894	4.13477	5.07391	-6.380458058	-2.67366	6.380458058	Down	0.019121881	0.367653922
1670	DEFA5	Defensin α 5	5.1919	11.43967	11.56641	4.89232	3.97918	4.5225	-30.58304181	-4.93466	30.58304181	Down	0.018993228	0.367348071
22822	PHLDA1	Pleckstrin homology-like domain, family A, member 1	6.6702	8.38209	8.32901	5.3385	7.22727	5.73902	-3.231423863	-1.69217	3.231423863	Down	0.033127462	0.406360072
9455	HOMER2	Homer scaffolding protein 2	9.37216	9.30082	9.00026	7.3047	6.15622	8.80038	-3.491821957	-1.80398	3.491821957	Down	0.022417726	0.378660533
441951	ZFAS1	ZNFX1 antisense RNA 1	8.82862	8.1649	8.5928	10.17264	9.32982	9.15031	2.030943352	1.02215	2.030943352	Up	0.019258578	0.367664157
55215	FANCI	Fanconi anemia complementation group I	4.59167	4.36909	4.42917	5.97788	6.14358	6.10661	3.058264811	1.612713333	3.058264811	Up	5.36662E-05	0.10483429
1365	CLDN3	Claudin 3	8.66375	7.46377	7.87072	8.72879	9.72966	10.0815	2.855816601	1.513903333	2.855816601	Up	0.011979964	0.331439001
72	ACTG2	Actin, γ 2, smooth muscle, enteric	5.45346	4.78784	4.9265	5.4073	8.25865	7.33551	3.849185858	1.944553333	3.849185858	Up	0.024773682	0.383131863
3084	NRG1	Neuregulin 1	7.05381	7.16151	6.84546	4.98194	5.74225	6.18483	-2.609765175	-1.38392	2.6097651	Down	0.0042459	0.2464732

											75		89	18
51196	PLCE1	Phospholipase C epsilon 1	5.05073	6.07447	4.3857	7.59645	7.51489	7.48406	5.139043984	2.3615	5.139043984	Up	0.000786202	0.177732945
6790	AURKA	Aurora kinase A	4.22843	4.39756	4.30843	5.26475	5.97383	5.00888	2.150014913	1.104346667	2.150014913	Up	0.005395236	0.269321526
3013	HIST1H2AD	Histone cluster 1, h2ad	9.22005	8.79403	8.36354	9.99628	10.56551	9.57937	2.385866522	1.254513333	2.385866522	Up	0.008083968	0.299139554
3174	HNF4G	Hepatocyte nuclear factor 4, γ	3.91703	2.64126	3.36867	4.97699	4.76236	4.2561	2.560034643	1.356163333	2.560034643	Up	0.006740464	0.288459719
100379661	GRIK1-AS2	GRIK1 antisense RNA 2	4.81472	3.57046	3.81185	4.65388	6.10956	5.6422	2.644270927	1.40287	2.644270927	Up	0.019795556	0.368106892
2969	GTF2I	General transcription factor iii	7.83213	8.52857	8.56697	7.3868	6.9157	7.25453	-2.178819474	-1.123546667	2.178819474	Down	0.005285487	0.268462247
6550	SLC9A3	Solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3	10.07739	9.90144	11.0103	6.06482	7.4151	6.553	-12.36968337	-3.628736667	12.36968337	Down	8.31447E-05	0.126508975
90589	ZNF625	Zinc finger protein 625	7.08671	7.47192	7.41442	4.66413	6.17387	5.85553	-3.386605642	-1.75984	3.386605642	Down	0.003448471	0.23714666
1037	IRF9	Interferon regulatory factor 9	8.59	7.51	8.16	6.14	7.58	7.06	-2.227	-1.155	2.227	Do	0.034	0.408

9			495	355	237	881	622	942	573961	473333	573961	wn	365509	336287
3486	IGFBP3	Insulin like growth factor binding protein 3	5.66981	6.30737	6.38429	7.27144	10.18059	8.02624	5.177539542	2.372266667	5.177539542	Up	0.012485187	0.334466731
151648	SGOL1	Shugoshin-like 1 (S. Pombe)	4.10592	3.96517	3.83018	4.76992	5.26211	4.94383	2.034766621	1.024863333	2.034766621	Up	0.001443472	0.187107818
56000	NXF3	Nuclear RNA export factor 3	6.8972	8.63076	8.91597	3.80124	4.19942	4.55985	-15.5747813	-3.96114	15.5747813	Down	0.000163986	0.128621894
51280	GOLM1	Golgi membrane protein 1	10.22066	10.89167	11.87806	7.20313	9.29357	9.13878	-5.470363367	-2.451636667	5.470363367	Down	0.007357209	0.292409769
11163	NUDT4	Nudix hydrolase 4	5.906887	4.508841	5.1277	3.521556	4.355536	3.476682	-2.632463145	-1.396413333	2.632463145	Down	0.011247144	0.324854465
80150	ASRGL1	Asparaginase like 1	6.491127	7.815525	7.9319	6.473732	5.973376	6.417774	-2.178295986	-1.1232	2.178295986	Down	0.030530286	0.399309008
51028	VPS36	Vacuolar protein sorting 36 homolog (S. Cerevisiae)	4.422	5.30281	4.84813	5.72025	6.02717	5.89973	2.034587979	1.024736667	2.034587979	Up	0.006741853	0.288459719
100526831	SLX1B-SULT1A4	SLX1B-SULT1A4 readthrough (NMD candidate)	6.47722	6.93547	6.66106	7.80233	8.02899	7.66662	2.205944764	1.141396667	2.205944764	Up	0.001523801	0.187107818
76	RELL1	RELT-like 1	7.	8.	8.	6.	7.	6.	-2.	-1.	2.6	D	0.0	0.3

8211			91076	80596	24443	24386	53011	92693	676009677	420083333	76009677	own	08612699	07296395
3703	STT3A	STT3A, subunit of the oligosaccharyltransferase complex (catalytic)	8.789	9.53677	8.95067	8.08461	7.99308	7.96404	-2.11145378	-1.078236667	2.11145378	Down	0.00400076	0.242710682
552889	ATXN7L3B	Ataxin 7-like 3B	8.01916	8.77156	8.51253	7.14877	7.35948	7.63368	-2.075952356	-1.053773333	2.075952356	Down	0.006235434	0.281632255
143872	ARHGAP42	Rho gtpase activating protein 42	5.36268	4.5882	4.98352	5.65273	6.82856	5.69201	2.113498859	1.079633333	2.113498859	Up	0.025759394	0.385334454
65982	ZSCAN18	Zinc finger and SCAN domain containing 18	7.10393	7.06838	7.59126	3.59992	6.12455	4.73894	-5.401599466	-2.433386667	5.401599466	Down	0.004831431	0.260375517
84747	UNC119B	Unc-119 lipid binding chaperone B	5.90021	6.39299	7.10061	5.02221	5.34093	5.21156	-2.416697107	-1.273036667	2.416697107	Down	0.006132753	0.279599764
51203	NUSAP1	Nucleolar and spindle associated protein 1	4.16222	3.26892	3.49957	5.90603	6.66577	5.4705	5.171310748	2.37053	5.171310748	Up	0.000396869	0.160901541
10324	KLHL41	Kelch like family member 41	6.88807	4.96231	5.02339	4.41698	4.31608	3.46178	-2.94780958	-1.559643333	2.94780958	Down	0.026867527	0.388384104
83539	CHST9	Carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9	4.91653	4.94788	4.70227	3.98224	3.5315	3.86367	-2.089401865	-1.06309	2.089401865	Down	0.00095769	0.186147792

219790	RTKN2	Rhotekin 2	3.07512	4.11546	4.03557	5.0435	4.94309	5.59108	2.733040174	1.450506667	2.733040174	Up	0.003545931	0.237146666
51012	PRELID3B	PRELI domain containing 3B	5.29926	5.42888	5.40484	7.04235	7.02037	5.76059	2.345848754	1.23011	2.345848754	Up	0.012973133	0.336174155
81557	MAGED4B	Melanoma antigen family D4B	6.73661	7.78267	7.88613	5.5504	5.72103	6.69709	-2.787483631	-1.478963333	2.787483631	Down	0.011096959	0.324511309
93664	CADPS2	Ca++-dependent secretion activator 2	6.2392	7.03664	7.05971	5.29267	4.73585	4.61463	-3.725584194	-1.897466667	3.725584194	Down	0.000555431	0.164818725
8935	SKAP2	Src kinase associated phosphoprotein 2	5.64619	4.28296	4.86038	5.33181	7.29697	6.69565	2.851326667	1.511633333	2.851326667	Up	0.031609885	0.401565284
9735	KNTC1	Kinetochore associated 1	5.07484	5.17497	5.35889	5.81666	7.05656	6.63385	2.461361679	1.299456667	2.461361679	Up	0.006272422	0.282649674
653513	LOC653513	Phosphodiesterase 4D interacting protein-like	4.99219	4.38487	4.28019	5.74228	5.5632	5.69201	2.163569303	1.113413333	2.163569303	Up	0.002593502	0.222693433
79607	FAM118B	Family with sequence similarity 118 member B	6.96965	7.28937	7.53539	5.6693	6.15482	6.74183	-2.108406922	-1.076153333	2.108406922	Down	0.012942367	0.336174155
54733	SLC35F2	Solute carrier family 35 member F2	7.40097	7.63895	7.44685	5.90291	7.31988	6.2428	-2.009811225	-1.00706	2.0098112	Down	0.0324400	0.4047137

											25		79	9
54472	TOLLIP	Toll interacting protein	6.61295	6.45694	6.87287	5.56051	5.67555	5.02982	-2.338570086	-1.225626667	2.338570086	Down	0.00194765	0.198675598
2543	GAGE1	G antigen 1	4.52158	4.21772	4.33547	4.46908	6.30035	5.69143	2.186611121	1.128696667	2.186611121	Up	0.039742851	0.423820735
5827	PXMP2	Peroxisomal membrane protein 2	6.75133	5.71999	6.10635	5.39775	5.36606	4.75002	-2.029718985	-1.02128	2.029718985	Down	0.017964532	0.362487638
4939	OAS2	2‘-5‘-oligoadenylate synthetase 2	7.42313	7.12185	7.33597	5.12392	6.79444	6.64235	-2.153594554	-1.106746667	2.153594554	Down	0.043968769	0.433732305
5222	PGA5	Pepsinogen 5, group I (pepsinogen A)	7.40629	7.50497	7.27612	6.42325	5.58086	6.58089	-2.298660388	-1.200793333	2.298660388	Down	0.005621345	0.272481795
728833	FAM72D	Family with sequence similarity 72 member D	4.81144	3.76743	4.33532	7.00888	6.35936	5.57412	4.026119517	2.00939	4.026119517	Up	0.002238485	0.211694553
55603	FAM46A	Family with sequence similarity 46 member A	8.82213	8.10999	8.16293	7.69486	7.1342	7.04451	-2.105009387	-1.073826667	2.105009387	Down	0.008836756	0.308521975
139886	SPIN4	Spindlin family member 4	4.58686	4.67774	4.81394	5.6122	6.55181	6.04835	2.598970035	1.37794	2.598970035	Up	0.001585213	0.187107818
118663	BTBD16	BTB (POZ) domain containing 16	3.8003	4.1350	4.4849	5.0108	4.5049	5.9116	2.0032697	1.0023566	2.00326	Up	0.03457	0.40842

			6	1	2		4	2	04	67	9704		2703	3981
2788	GNG7	Guanine nucleotide binding protein (G protein), γ 7	4.41284	4.90527	5.25769	3.98864	3.69186	3.55994	-2.161131211	-1.111786667	2.161131211	Down	0.003738639	0.238598853
283848	CES4A	Carboxylesterase 4A	5.78111	6.94668	5.59121	3.68093	4.40493	5.81129	-2.777813998	-1.47395	2.777813998	Down	0.043959949	0.433732305
28526	TRDC	T cell receptor Δ constant	4.4263	6.75331	6.17855	3.08817	4.14957	3.82033	-4.287182999	-2.10003	4.287182999	Down	0.010546372	0.322432832
729737	LOC729737	Uncharacterized LOC729737	8.03359	8.30848	7.49201	5.71049	6.09297	7.81824	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
5236	PGM1	Phosphoglucomutase 1	7.0429	7.33283	7.18712	5.18152	6.94968	5.67531	-2.381900806	-1.252113333	2.381900806	Down	0.026290579	0.387358841
130	ADH6	Alcohol dehydrogenase 6 (class V)	5.78562	7.0429	7.66583	6.00123	4.82238	5.45192	-2.650516154	-1.406273333	2.650516154	Down	0.032121835	0.403822449
781	CACNA2D1	Calcium channel, voltage-dependent, α 2/Δ subunit 1	5.46459	4.53931	4.35603	5.95447	6.25203	5.50581	2.169646494	1.11746	2.169646494	Up	0.01621732	0.353805065
79814	AGMAT	Agmatinase	4.86416	4.88425	5.34797	7.53826	7.54528	5.36752	3.445929852	1.784893333	3.445929852	Up	0.019730685	0.367760084
8032	WNT10A	Wingless-type MMTV	3.43	4.10	3.60	4.03	5.49	6.06	2.7986	1.4847	2.798	Up	0.022	0.379

6		integration site family member 10A	405	787	498	459	832	819	54382	33333	654382		835191	921168
59	ACTA2	Actin, α 2, smooth muscle, aorta	8.42962	7.81673	7.87393	8.24653	11.1635	9.77584	3.223281077	1.68853	3.223281077	Up	0.042957879	0.43207881
3925	STMN1	Stathmin 1	5.88371	4.97202	5.13698	6.68945	6.84619	6.46845	2.526476335	1.337126667	2.526476335	Up	0.002610524	0.223663521
27121	DKK4	Dickkopf WNT signaling pathway inhibitor 4	5.2134	12.76059	12.72289	5.34093	4.70011	5.18097	-35.71083592	-5.15829	35.71083592	Down	0.031592924	0.401565284
105376333	LOC105376333	Formin-like protein 6	8.03359	8.30848	7.49201	5.71049	6.09297	7.81824	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
7103	TSPAN8	Tetraspanin 8	9.83568	9.23665	8.97737	12.41315	11.70958	11.33728	5.540834722	2.470103333	5.540834722	Up	0.000242306	0.147961236
85363	TRIM5	Tripartite motif containing 5	5.88033	6.1483	5.99273	4.75922	5.0809	5.13911	-2.019563255	-1.014043333	2.019563255	Down	0.001776414	0.192292584
284422	SMIM24	Small integral membrane protein 24	9.9047	8.39142	10.63665	7.65758	8.57335	7.60478	-3.246803334	-1.69902	3.246803334	Down	0.023318295	0.380853985
22821	RASA3	RAS p21 protein activator 3	6.01182	4.40622	4.59121	5.87202	6.65315	6.30988	2.420435529	1.275266667	2.420435529	Up	0.02736507	0.389833707
37	KCNS	Potassium	8.	5.	6.	4.	4.	4.	-5.	-2.	5.0	D	0.0	0.3

87	1	voltage-gated channel, modifier subfamily S, member 1	46959	2831	37404	30055	2737	57445	014166837	32601	14166837	own	16090218	52385371
134285	TMEM171	Transmembrane protein 171	4.6313	4.91598	5.38224	6.4014	8.60343	7.185	5.35209355	2.420103333	5.35209355	Up	0.003180448	0.234239382
2305	FOXM1	Forkhead box M1	5.49901	4.81952	5.36481	7.09182	7.80029	6.14246	3.44318413	1.783743333	3.44318413	Up	0.004795551	0.260263927
10517	FBXW10	F-box and WD repeat domain containing 10	4.16914	5.4548	5.29833	4.14976	3.24738	3.82496	-2.351188162	-1.23339	2.351188162	Down	0.017653754	0.361123337
643752	RAP1BL	RAP1B, member of RAS oncogene family pseudogene	6.87926	6.45431	6.4404	9.29924	7.87831	7.19915	2.896364821	1.534243333	2.896364821	Up	0.021127739	0.372540654
55966	AJAP1	Adherens junctions associated protein 1	4.66522	6.53278	6.30433	4.26292	4.17423	4.52337	-2.855882585	-1.513936667	2.855882585	Down	0.016935456	0.358424346
4782	NFIC	Nuclear factor I/C (CCAAT-binding transcription factor)	7.62041	7.0614	7.10072	6.33194	6.16048	5.06867	-2.652121126	-1.407146667	2.652121126	Down	0.007575616	0.295829027
29899	GPSM2	G-protein signaling modulator 2	3.91558	4.69379	4.52522	6.05471	6.71237	5.12498	3.001790585	1.585823333	3.001790585	Up	0.007809961	0.299139554
728441	GGT2	Γ-glutamyltransferase 2	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.23859853

219902	TMEM136	Transmembrane protein 136	6.41197	5.76339	5.35414	4.08074	5.15736	5.10282	-2.089068791	-1.06286	2.089068791	Down	0.031161111	0.400339819
57464	STRIP2	Striatin interacting protein 2	6.8528	6.38219	5.25826	5.23615	5.23615	4.76132	-2.123646054	-1.086543333	2.123646054	Down	0.035943562	0.412473332
57604	KIAA1456	KIAA1456	7.92697	6.48541	6.16856	6.14762	5.38256	5.58893	-2.225212837	-1.153943333	2.225212837	Down	0.048348741	0.444455753
678	ZFP36L2	ZFP36 ring finger protein-like 2	8.21199	7.62164	7.79481	8.91886	9.41289	9.38952	2.574472156	1.364276667	2.574472156	Up	0.001209617	0.186147792
6734	SRPRA	SRP receptor α subunit	9.54969	10.59367	9.87539	7.97419	8.38233	8.48141	-3.310249592	-1.72694	3.310249592	Down	0.001069746	0.186147792
285440	CYP4V2	Cytochrome P450, family 4, subfamily V, polypeptide 2	9.22768	9.03516	9.15246	8.87377	7.4972	7.9009	-2.067389184	-1.04781	2.067389184	Down	0.024036669	0.381896949
407977	TNFSF12-TNFSF13	TNFSF12-TNFSF13 readthrough	8.30848	8.37082	9.27544	7.44214	7.87419	6.30389	-2.722326301	-1.44484	2.722326301	Down	0.017591411	0.361123337
51704	GPRC5B	G protein-coupled receptor, class C, group 5, member B	8.24991	8.11348	6.91822	5.96946	6.93405	6.83896	-2.265317602	-1.179713333	2.265317602	Down	0.031264231	0.400742201
38	ACAT1	Acetyl-coa acetyltransferase 1	7.2016	7.80037	7.3237	6.18713	6.91257	5.68653	-2.265474628	-1.179813333	2.2654746	Down	0.0130060	0.3361741

											28		82	55
9319	TRIP13	Thyroid hormone receptor interactor 13	4.16163	3.79932	3.86297	4.72389	5.80118	5.27148	2.503957369	1.32421	2.503957369	Up	0.003050202	0.234003889
6281	S100A10	S100 calcium binding protein A10	9.868814	9.538225	9.974419	10.875	11.2842	12.04867	3.050607703	1.609096667	3.050607703	Up	0.001988148	0.201230431
5208	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	4.210788	5.003345	4.988884	7.372777	6.399796	5.358299	3.122244101	1.642583333	3.122244101	Up	0.015607224	0.350843938
983	CDK1	Cyclin-dependent kinase 1	5.274155	4.164166	4.850552	6.763513	7.3747	5.955502	3.823251218	1.9348	3.823251218	Up	0.003084528	0.234239382
29089	UBE2T	Ubiquitin conjugating enzyme E2T	6.349946	6.379442	6.728833	8.822244	8.724438	7.587769	3.712437317	1.892366667	3.712437317	Up	0.001324819	0.187107818
101929530	FANCD2P2	Fanconi anemia complementation group D2 pseudogene 2	4.592774	3.961193	4.039952	5.1671	5.7196	5.33091	2.309862007	1.207806667	2.309862007	Up	0.002188452	0.210075308
259217	HSPA12A	Heat shock protein family A (Hsp70) member 12A	7.450223	5.902055	5.328255	4.572223	4.457455	3.646629	-4.004216556	-2.00152	4.004216556	Down	0.008973705	0.309261751
2122	MECOM	MDS1 and EVI1 complex locus	6.356639	7.240016	5.803358	8.677725	8.186155	8.791139	4.242417682	2.084886667	4.242417682	Up	0.001173661	0.18614792
7042	TGFB2	Transforming growth factor β 2	5.8201	7.5122	7.4266	5.7094	5.5133	5.8718	-2.331858	-1.22148	2.33185	Dow	0.03387	0.40823

			5	8	8	7	6	4	101		8101	n	1837	9828
26353	HSPB8	Heat shock protein family B (small) member 8	6.92993	7.44949	5.29762	4.18345	5.25748	5.05475	-3.310662626	-1.72712	3.310662626	Down	0.020909099	0.371993438
4121	MAN1A1	Mannosidase, α, class 1A, member 1	9.142218	8.45795	8.76062	6.46788	8.45134	7.1627	-2.68752219	-1.426276667	2.68752219	Down	0.025280019	0.383712762
8869	ST3GAL5	ST3 β-galactoside α-2,3-sialyltransferase 5	5.87519	5.24	5.48747	3.75544	4.46329	4.70694	-2.338629523	-1.225663333	2.338629523	Down	0.005372682	0.269321526
157313	CDCA2	Cell division cycle associated 2	5.08689	5.09782	5.09782	6.76416	6.34826	6.25228	2.568139077	1.360723333	2.568139077	Up	0.000415765	0.163378734
10733	PLK4	Polo-like kinase 4	4.36849	4.00581	3.82253	5.22162	5.68123	4.88483	2.292544917	1.19695	2.292544917	Up	0.002961408	0.232327835
55748	CNDP2	CNDP dipeptidase 2 (metallopeptidase M20 family)	8.78507	8.78247	9.17903	8.47809	7.63875	6.53131	-2.5777994	-1.36614	2.5777994	Down	0.024571415	0.383089258
2335	FN1	Fibronectin 1	8.38712	6.15369	6.42419	9.00123	11.37627	8.48352	6.198876092	2.632006667	6.198876092	Up	0.0206457	0.371592873
5337	PLD1	Phospholipase D1	10.92043	9.20562	10.81853	9.22306	8.16638	8.26539	-3.394619799	-1.76325	3.394619799	Down	0.012512877	0.334466731
4410	NR2F1-AS1	NR2F1 antisense RNA 1	7.66	8.62	8.21	6.20	7.09	6.64	-2.874	-1.523	2.874	Do	0.003	0.234

94			791	886	578	269	484	448	903106	513333	903106	wn	060636	003889
5507	PPP1R3C	Protein phosphatase 1 regulatory subunit 3C	6.17379	5.97356	5.367	3.5103	4.10793	4.9885	-3.107756206	-1.635873333	3.107756206	Down	0.005409332	0.269321526
105379252	LOC105379252	Coiled-coil domain-containing protein 29-like	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
64359	NXN	Nucleoredoxin	6.70784	7.57802	7.51874	5.5296	6.39786	6.17678	-2.351291379	-1.233453333	2.351291379	Down	0.009115739	0.31047429
6811	STX5	Syntaxin 5	7.88637	8.79866	8.56334	6.86498	7.59932	7.50845	-2.131506321	-1.091873333	2.131506321	Down	0.013061185	0.336174155
5801	PTPRR	Protein tyrosine phosphatase, receptor type, R	6.32248	3.432	3.56297	6.79835	5.87065	6.29565	3.686878823	1.824	3.686878823	Up	0.043659209	0.432557049
91860	CALML4	Calmodulin like 4	8.33478	7.80794	9.07819	9.68329	9.75633	9.17476	2.190342785	1.131156667	2.190342785	Up	0.017257658	0.360363148
55771	PRR11	Proline rich 11	5.70602	5.14965	5.1969	6.08097	6.77112	6.33059	2.061036422	1.04337	2.061036422	Up	0.006609893	0.28661991
5005	ORM2	Orosomucoid 2	3.80831	4.63541	5.54526	6.97448	8.07244	5.47839	4.527694654	2.178776667	4.527694654	Up	0.018276955	0.364087805
79	MLPH	Melanophilin	9.	10	10	8.	7.	8.	-2.	-1.	2.7	D	0.0	0.3

083			18863	.11743	.66213	83157	80862	91448	772472851	471173333	72472851	own	15714998	50843938
55195	C14orf105	Chromosome 14 open reading frame 105	10.51734	10.21082	10.12271	9.24846	6.50307	9.04272	-4.052671766	-2.018873333	4.052671766	Down	0.024009997	0.381896949
84187	TMEM164	Transmembrane protein 164	6.55505	6.58583	6.8936	8.1788	7.75028	7.50274	2.192302177	1.132446667	2.192302177	Up	0.002906187	0.231335369
643834	PGA3	Pepsinogen 3, group I (pepsinogen A)	7.40629	7.50497	7.27612	6.42325	5.58086	6.58089	-2.298660388	-1.200793333	2.298660388	Down	0.005621345	0.272481795
1191	CLU	Clusterin	12.84659	12.07113	12.25149	11.9513	9.6993	8.13463	-5.507229257	-2.461326667	5.507229257	Down	0.026799135	0.388384104
441425	ANKRD20A3	Ankyrin repeat domain 20 family member A3	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
2119	ETV5	Ets variant 5	5.49827	7.88402	7.53794	5.68508	4.68406	3.95554	-4.590071627	-2.198516667	4.590071627	Down	0.017116835	0.359729769
54716	SLC6A20	Solute carrier family 6 (proline IMINO transporter), member 20	7.28665	5.37609	5.26138	8.25402	7.38978	6.76607	2.819129986	1.49525	2.819129986	Up	0.048303558	0.444427855
4084	MXD1	MAX dimerization protein 1	6.02065	5.63526	5.95335	7.09804	7.93114	6.18926	2.30227473	1.20306	2.30227473	Up	0.027778505	0.391458068

79718	TBL1XR1	Transducin (β)-like 1 X-linked receptor 1	6.11488	5.85042	5.95102	7.45993	7.66813	7.47724	2.954662474	1.562993333	2.954662474	Up	0.000112238	0.127849829
102725104	LOC102725104	Coiled-coil domain-containing protein 29-like	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
7351	UCP2	Uncoupling protein 2 (mitochondrial, proton carrier)	7.59612	7.29768	8.34357	5.65938	6.65329	6.13282	-3.025751137	-1.597293333	3.025751137	Down	0.003623577	0.238598853
54908	SPDL1	Spindle apparatus coiled-coil protein 1	4.51583	4.03378	4.10411	5.21105	5.47869	5.59878	2.315943408	1.2116	2.315943408	Up	0.000891561	0.181040924
898	CCNE1	Cyclin E1	4.13997	3.83852	4.04453	5.47402	4.80777	5.11496	2.180375579	1.124576667	2.180375579	Up	0.001678026	0.189765067
8491	MAP4K3	Mitogen-activated protein kinase kinase kinase kinase 3	5.78679	5.54286	5.68015	7.18584	7.14481	5.72993	2.023603538	1.016926667	2.023603538	Up	0.042665911	0.43207881
63976	PRDM16	PR domain containing 16	4.56722	6.04982	6.13395	3.62404	4.12295	4.30582	-2.960949736	-1.56606	2.960949736	Down	0.010161128	0.318261304
9844	ELMO1	Engulfment and cell motility 1	7.47433	6.30737	7.14497	5.11804	6.4557	6.1284	-2.106493309	-1.074843333	2.106493309	Down	0.046296323	0.439777208
9188	DDX21	DEAD (Asp-Glu-Ala-Asp) box helicase 21	4.59751	4.83316	5.06054	6.21289	6.44068	5.02005	2.086092794	1.060803333	2.086092794	Up	0.0302616	0.3979445

											94		74	78
55366	LGR4	Leucine-rich repeat containing G protein-coupled receptor 4	4.23019	4.31635	4.28579	4.87359	5.56011	5.6392	2.114314514	1.08019	2.114314514	Up	0.003410873	0.237146666
30061	SLC40A1	Solute carrier family 40 (iron-regulated transporter), member 1	8.154668	8.27012	8.60115	7.25583	7.7842	5.96803	-2.530279342	-1.339296667	2.530279342	Down	0.023119952	0.380484164
84766	CRACR2A	Calcium release activated channel regulator 2A	6.33537	7.72809	7.37129	5.11011	5.47538	5.88402	-3.149406542	-1.65508	3.149406542	Down	0.004682063	0.256554706
643847	PGA4	Pepsinogen 4, group I (pepsinogen A)	7.40629	7.50497	7.27612	6.42325	5.58086	6.58089	-2.298660388	-1.200793333	2.298660388	Down	0.005621345	0.272481795
79962	DNAJC22	Dnaj heat shock protein family (Hsp40) member C22	7.90406	8.33111	8.21571	6.43427	6.70078	6.15712	-3.293382319	-1.71957	3.293382319	Down	0.000196099	0.135279577
7169	TPM2	Tropomyosin 2 (β)	7.0639	7.22424	7.11994	8.46266	8.96431	8.34556	2.741217242	1.454816667	2.741217242	Up	0.000504078	0.164248294
629	CFB	Complement factor B	6.80709	6.65957	7.17174	5.03398	4.79889	5.48695	-3.41730733	-1.77286	3.41730733	Down	0.000287057	0.152167732
83641	FAM107B	Family with sequence similarity 107 member B	7.78708	8.98854	8.90984	7.38522	6.53237	7.09644	-2.942705838	-1.557143333	2.942705838	Down	0.005850672	0.277402775
9479	MAPK8IP1	Mitogen-activated protein kinase 8 interacting protein	6.9884	7.2120	6.9195	5.5782	5.8753	6.4515	-2.101733	-1.07158	2.10173	Dow	0.00617	0.28038

		1	6	1	2	8	9	8	869		3869	n	1939	5468
9369	NRXN3	Neurexin 3	6.5787	5.053	5.80557	3.94316	4.31608	4.38687	-3.025247829	-1.597053333	3.025247829	Down	0.004628222	0.255035242
641	BLM	Bloom syndrome, recq helicase-like	4.67444	4.35085	4.46428	5.27203	5.91682	5.42527	2.058390447	1.041516667	2.058390447	Up	0.003128311	0.234239382
80705	TSGA10	Testis specific 10	5.9599	4.94827	5.48525	4.93384	3.61677	4.37587	-2.22784161	-1.155646667	2.22784161	Down	0.023853783	0.381506649
23508	TTC9	Tetratricopeptide repeat domain 9	8.20772	8.66996	8.74872	5.5504	6.27828	6.72945	-5.119809036	-2.35609	5.119809036	Down	0.000257321	0.150049039
2272	FHIT	Fragile histidine triad	7.63388	6.24262	7.71338	6.12456	5.42967	5.34026	-2.959041643	-1.56513	2.959041643	Down	0.010254172	0.318711425
79956	ERMP1	Endoplasmic reticulum metallopeptidase 1	9.11183	8.90906	9.2952	8.12899	7.94425	7.18004	-2.556677163	-1.35427	2.556677163	Down	0.002860074	0.231197539
101060226	NBPF19	Neuroblastoma breakpoint family member 19	7.7763	7.3532	7.50599	9.02152	8.39945	8.23798	2.010870256	1.00782	2.010870256	Up	0.008353307	0.304720215
767846	PFN1P2	Profilin 1 pseudogene 2	4.56472	4.54178	4.56265	5.50502	5.60168	5.75355	2.090285493	1.0637	2.090285493	Up	0.000583946	0.165320152
53	ACP2	Acid phosphatase 2, lysosomal	9.37	9.50	9.13	7.34	8.89	7.90	-2.448	-1.292	2.448	Do	0.014	0.346

			734	208	862	607	068	518	73502	036667	73502	wn	400328	827031
55888	ZKSCAN7	Zinc finger with KRAB and SCAN domains 7	5.34604	5.59976	5.10361	3.9555	4.3929	4.69927	-2.000804212	-1.00058	2.000804212	Down	0.006046388	0.279481742
55785	FGD6	FYVE, rhogef and PH domain containing 6	5.63024	5.34093	5.1544	6.64614	6.02136	6.58203	2.058109869	1.04132	2.058109869	Up	0.005030256	0.264760001
3249	HPN	Hepsin	8.17258	7.46268	7.06434	4.45781	4.26885	4.3857	-9.162534126	-3.195746667	9.162534126	Down	1.81694E-05	0.088732232
6879	TAF7	TATA-box binding protein associated factor 7	5.20804	5.08672	5.61422	6.09325	6.38554	6.61363	2.086589302	1.061146667	2.086589302	Up	0.003539689	0.237146666
5727	PTCH1	Patched 1	4.68537	4.22434	4.42827	4.93644	6.90964	5.29176	2.405972245	1.26662	2.405972245	Up	0.039884253	0.424079926
729533	FAM72A	Family with sequence similarity 72 member A	4.81144	3.76743	4.33532	7.00888	6.35936	5.57412	4.026119517	2.00939	4.026119517	Up	0.002238485	0.211694553
388677	NOTCH2NL	Notch 2 N-terminal like	7.7763	7.3532	7.50599	9.02152	8.39945	8.23798	2.010870256	1.00782	2.010870256	Up	0.008353307	0.304720215
84064	HDHD2	Haloacid dehalogenase like hydrolase domain containing 2	6.15503	6.38516	6.39824	6.06387	5.41583	4.20104	-2.122694374	-1.085896667	2.122694374	Down	0.049091438	0.4461748
34	DPY19	DPY19L2	4.	3.	3.	4.	5.	5.	2.8	1.5	2.8	U	0.0	0.2

9152	L2P2	pseudogene 2	65206	31092	19819	85363	39534	51771	98225801	3517	98225801	p	08070957	99139554
10051	SMC4	Structural maintenance of chromosomes 4	6.62079	6.61987	6.79175	7.60206	8.2457	8.15666	2.503598702	1.324003333	2.503598702	Up	0.001022174	0.186147792
8335	HIST1H2AB	Histone cluster 1, h2ab	5.31815	4.50411	4.83056	6.00355	6.56123	5.25296	2.077679803	1.054973333	2.077679803	Up	0.0282604	0.393025624
57402	S100A14	S100 calcium binding protein A14	5.23206	6.35647	7.30983	10.2097	8.22495	7.00836	4.536406674	2.18155	4.536406674	Up	0.039686659	0.423753865
84919	PPP1R15B	Protein phosphatase 1 regulatory subunit 15B	5.92442	5.95542	5.60805	7.37145	6.97014	6.34664	2.094752796	1.06678	2.094752796	Up	0.009943908	0.316366889
79828	METTL8	Methyltransferase like 8	4.91072	4.69899	4.60589	6.47904	5.77635	5.10802	2.069482243	1.04927	2.069482243	Up	0.021084677	0.372540654
2638	GC	Group-specific component (vitamin D binding protein)	10.52845	11.30736	12.10423	3.65825	8.17425	3.33646	-76.48085076	-6.257026667	76.48085076	Down	0.001598797	0.187194074
2013	EMP2	Epithelial membrane protein 2	6.24701	6.32749	7.09791	8.06449	8.18054	8.03625	2.900476664	1.53629	2.900476664	Up	0.000936766	0.184705865
2679	GGT3P	Γ-glutamyltransferase 3 pseudogene	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.23859853

808556	KIAA1715	KIAA1715	4.95598	4.7792	4.94246	5.51396	6.64214	5.54687	2.011739264	1.008443333	2.011739264	Up	0.019692496	0.367760084
7477	WNT7B	Wingless-type MMTV integration site family member 7B	5.41516	5.73459	6.02775	4.85882	4.03827	5.23576	-2.020739475	-1.014883333	2.020739475	Down	0.022174293	0.378357221
57082	CASC5	Cancer susceptibility candidate 5	4.70564	3.5658	4.80198	6.2326	6.54479	5.66163	3.454635103	1.788533333	3.454635103	Up	0.002932109	0.231335369
8470	SORBS2	Sorbin and SH3 domain containing 2	6.08782	6.24105	5.64473	5.45495	3.35335	5.19407	-2.503147548	-1.323743333	2.503147548	Down	0.046936112	0.441202914
124565	SLC38A10	Solute carrier family 38, member 10	6.56076	6.79054	6.51016	5.7062	5.01624	5.9932	-2.068531126	-1.048606667	2.068531126	Down	0.009169356	0.31047429
83461	CDCA3	Cell division cycle associated 3	5.3852	4.96027	5.18443	6.83959	7.10147	6.04692	2.801164418	1.486026667	2.801164418	Up	0.002232066	0.211694553
93594	TBC1D31	TBC1 domain family member 31	4.34413	4.09351	4.18486	5.76213	5.81471	4.30993	2.125923967	1.08809	2.125923967	Up	0.03376734	0.407807168
1628	DBP	D site of albumin promoter (albumin D-box) binding protein	7.95612	8.40733	9.35458	7.31768	7.59529	7.13881	-2.332833485	-1.222083333	2.332833485	Down	0.014564466	0.346827031
8331	HIST1H2AJ	Histone cluster 1, h2aj	6.58632	5.47897	5.92983	7.17941	8.36029	6.75663	2.701455031	1.433736667	2.7014550	Up	0.0198442	0.3682043

											31		04	05
4854	NOTCH3	Notch 3	4.52827	4.53141	4.64514	5.16282	6.02724	5.70436	2.08956118	1.0632	2.08956118	Up	0.0045206331	0.253691542
3175	ONECUT1	One cut homeobox 1	10.46552	9.57937	10.16365	10.22292	6.29988	5.30689	-6.930454656	-2.79295	6.930454656	Down	0.049003865	0.4461748
677800	SNORA12	Small nucleolar RNA, H/ACA box 12	7.63536	8.66001	7.86336	8.45776	9.0674	9.82368	2.089807418	1.06337	2.089807418	Up	0.041074002	0.426787282
9493	KIF23	Kinesin family member 23	5.28942	4.57846	4.92326	6.17627	6.52925	5.82867	2.374598059	1.247683333	2.374598059	Up	0.003109269	0.234239382
57573	ZNF471	Zinc finger protein 471	5.36436	5.81052	6.00828	2.11888	4.2433	2.50387	-6.832293731	-2.77237	6.832293731	Down	0.001383708	0.187107818
1163	CKS1B	CDC28 protein kinase regulatory subunit 1B	6.51895	6.06748	6.00636	7.84529	7.148	6.81412	2.101675597	1.07154	2.101675597	Up	0.012459441	0.334466731
23641	LDOC1	Leucine zipper, down-regulated in cancer 1	8.21361	7.80293	8.20208	3.92022	6.02967	4.82188	-8.870097729	-3.14895	8.870097729	Down	0.000473448	0.164248294
65266	WNK4	WNK lysine deficient protein kinase 4	3.9864	4.08988	4.60042	4.53711	6.27047	6.51091	2.922622171	1.547263333	2.922622171	Up	0.021159173	0.372540654
245973	ATP6V1C2	Atpase, H+ transporting, lysosomal 42kda,	4.0514	4.7888	4.9129	6.7073	7.2141	5.1398	3.4091057	1.7693933	3.40910	Up	0.01437	0.34679

		V1 subunit C2		6		6	3	5	05	33	5705		9975	7053
5563	PRKAA2	Protein kinase, AMP-activated, α 2 catalytic subunit	5.269972	5.6161	5.21602	3.70689	3.59242	4.84707	-2.494043566	-1.318486667	2.494043566	Down	0.007934098	0.299139554
9659	PDE4DIP	Phosphodiesterase 4D interacting protein	4.992219	4.38487	4.28019	5.74228	5.5632	5.69201	2.163569303	1.113413333	2.163569303	Up	0.002593502	0.222693433
8854	ALDH1A2	Aldehyde dehydrogenase 1 family member A2	9.752287	5.26813	7.74771	4.84016	5.75995	4.16978	-6.347873301	-2.666273333	6.347873301	Down	0.004062710 1	0.426254306
65985	AACS	Acetoacetyl-coa synthetase	5.940733	7.35716	6.43393	5.08013	4.94788	5.58967	-2.587179227	-1.37138	2.587179227	Down	0.010250412	0.318711425
100532726	NDUFC2-KCTD14	NDUFC2-KCTD14 readthrough	6.565549	8.62037	8.64645	3.64405	3.83583	5.48018	-12.32984991	-3.624083333	12.32984991	Down	0.001429944	0.187107818
386593	CHKB-CPT1B	CHKB-CPT1B readthrough (NMD candidate)	7.386855	7.57944	7.26707	6.2108	5.82943	7.15156	-2.019301965	-1.013856667	2.019301965	Down	0.025557356	0.384735387
375056	MIA3	Melanoma inhibitory activity family member 3	9.415562	10.71865	10.42368	9.31819	8.99918	8.99514	-2.116694898	-1.081813333	2.116694898	Down	0.020363318	0.371132699
222584	FAM83B	Family with sequence similarity 83 member B	6.169558	5.5011	5.6323	8.72545	7.97964	7.35139	4.760676728	2.251166667	4.760676728	Up	0.000670595	0.172631847
5572	ASF1B	Anti-silencing function 1B	4.83	3.98	4.74	6.56	6.47	5.27	2.9929	1.5815	2.992	Up	0.006	0.288

3		histone chaperone	823	414	778	475	914	09	05375	46667	905375		833448	459719
653604	HIST2H3D	Histone cluster 2, h3d	6.19181	5.50187	5.70538	7.08312	7.49997	6.87608	2.555082722	1.35337	2.555082722	Up	0.001879027	0.195764558
3658	IREB2	Iron responsive element binding protein 2	3.99405	3.92825	4.06246	5.08515	5.11356	5.15393	2.177430493	1.122626667	2.177430493	Up	0.000239158	0.147961236
22998	LIMCH1	LIM and calponin homology domains 1	8.23214	7.4435	8.07236	6.55142	5.65824	5.47453	-4.059409833	-2.02127	4.059409833	Down	0.000867278	0.181040924
153579	BTNL9	Butyrophilin-like 9	3.35099	4.53687	3.76825	5.93388	4.64607	4.85278	2.393087807	1.258873333	2.393087807	Up	0.022778694	0.379667757
7053	TGM3	Transglutaminase 3	6.79977	6.36547	5.46048	4.90383	4.28748	5.08109	-2.73417705	-1.451106667	2.734177705	Down	0.007834818	0.299139554
55233	MOB1A	MOB kinase activator 1A	7.83489	6.84006	6.97996	8.06659	8.6927	8.35809	2.225541906	1.154156667	2.225541906	Up	0.010264887	0.318790309
5139	PDE3A	Phosphodiesterase 3A	4.37256	4.63454	4.31608	4.59047	6.31311	5.50681	2.040708332	1.02907	2.040708332	Up	0.044428489	0.435140799
80237	ELL3	Elongation factor RNA polymerase II-like 3	3.80561	4.50554	4.87254	6.10401	6.24717	4.70208	2.445037626	1.289856667	2.445037626	Up	0.030134199	0.397944578
46	MYB	V-myb avian	4.	5.	6.	6.	8.	7.	4.7	2.2	4.7	U	0.0	0.3

02		myeloblastosis viral oncogene homolog	00623	88131	13527	2941	55967	87451	08138192	35156667	08138192	p	20063366	70153807
6405	SEMA3F	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F	5.755551	7.222228	6.9235	5.726601	5.694737	5.358248	-2.057325403	-1.04077	2.057325403	Down	0.03428804	0.408273555
91	ACVR1B	Activin A receptor type IB	8.281169	8.309939	8.468111	6.557765	7.235044	7.832246	-2.210970843	-1.14468	2.210970843	Down	0.011955339	0.331439001
20	ABCA2	ATP binding cassette subfamily A member 2	8.194453	7.726442	7.790669	7.177179	6.455907	6.975333	-2.048663922	-1.034683333	2.048663922	Down	0.006706053	0.287910742
5608	MAP2K6	Mitogen-activated protein kinase kinase 6	5.617552	7.084424	7.490772	5.682668	5.186388	5.293667	-2.537222428	-1.34325	2.537222428	Down	0.027454047	0.389833707
595101	SMG1P5	SMG1 pseudogene 5	5.956624	6.509233	6.394388	8.013357	7.612665	7.362558	2.596047295	1.376316667	2.596047295	Up	0.001362471	0.187107818
5646	PRSS3	Protease, serine 3	6.859997	6.474332	8.366687	8.792663	8.631169	7.963884	2.344044567	1.229	2.344044567	Up	0.004842412	0.444625603
200316	APOBEC3F	Apolipoprotein B mrna editing enzyme, catalytic polypeptide-like 3F	5.1962	5.086888	5.66227	3.33278	4.29896	4.78316	-2.260773824	-1.176816667	2.260773824	Down	0.018919352	0.367348071
7802	DNALI1	Dynein, axonemal, light intermediate chain 1	6.804666	6.946628	7.31635	3.677724	4.711667	6.103977	-4.567706065	-2.19147	4.567706066	Down	0.00678909	0.28845597

											5		62	19
7027	TFDP1	Transcription factor Dp-1	4.60517	4.60748	4.8842	6.04605	6.30783	5.685	2.486316572	1.31401	2.486316572	Up	0.000801739	0.178594975
7263	TST	Thiosulfate sulfurtransferase (rhodanese)	8.28636	9.07331	9.30486	7.9241	7.55385	7.50552	-2.340829734	-1.22702	2.340829734	Down	0.00609797	0.279481742
400451	FAM174B	Family with sequence similarity 174 member B	5.43443	8.05656	7.26081	5.34441	4.84784	5.85399	-2.966002883	-1.56852	2.966002883	Down	0.04830084	0.444427855
79058	ASPSCR1	Alveolar soft part sarcoma chromosome region, candidate 1	7.40807	9.73155	9.01967	7.39737	6.81198	7.38481	-2.871311793	-1.52171	2.871311793	Down	0.033042523	0.406210932
6638	SNRPN	Small nuclear ribonucleoprotein polypeptide N	9.90523	8.46536	9.54754	7.89773	8.28397	7.41102	-2.71660222	-1.441803333	2.71660222	Down	0.011569593	0.327659866
2001	ELF5	E74-like factor 5 (ets domain transcription factor)	4.31004	8.63932	7.60042	4.01623	4.02418	4.71128	-6.060191291	-2.599363333	6.060191291	Down	0.038794688	0.420318817
51514	DTL	Denticleless E3 ubiquitin protein ligase homolog (Drosophila)	3.9656	3.69649	3.61447	5.31656	5.15139	4.38567	2.285252111	1.192353333	2.285252111	Up	0.003770442	0.23859853
84897	TBRG1	Transforming growth factor β regulator 1	7.64652	7.75774	8.16359	6.15174	6.55505	6.8371	-2.533830467	-1.34132	2.533830467	Down	0.001578804	0.187107818
2744	GLS	Glutaminase	5.6923	4.5171	4.3558	5.3793	7.9198	6.2407	3.1561373	1.65816	3.15613	Up	0.04397	0.43373

			2	8	6	2		2	71		7371		3809	2305
5365	PLXNB3	Plexin B3	6.0725	6.9618	6.77519	5.98507	5.25266	5.44689	-2.058542641	-1.041623333	2.058542641	Down	0.014379449	0.346797053
8495	PPFIBP2	PTPRF interacting protein, binding protein 2 (liprin β 2)	10.019924	9.6979	9.71041	7.9812	8.69564	8.47924	-2.682955886	-1.423823333	2.682955886	Down	0.000922179	0.182886395
9260	PDLIM7	PDZ and LIM domain 7	7.22599	6.2731	6.6172	7.15381	8.04957	9.46888	2.865241348	1.518656667	2.865241348	Up	0.035781507	0.412270535
3760	KCNJ3	Potassium channel, inwardly rectifying subfamily J, member 3	4.92746	4.83674	4.79561	6.01693	7.41719	5.83861	2.971050924	1.570973333	2.971050924	Up	0.007384417	0.292725141
23286	WWC1	WW and C2 domain containing 1	7.90615	7.90933	7.9982	5.75591	6.69338	7.46793	-2.46027571	-1.29882	2.46027571	Down	0.017710008	0.361123337
100132403	FAM157B	Family with sequence similarity 157 member B	8.27782	8.11345	7.66239	5.84476	5.87111	6.62628	-3.742070312	-1.903836667	3.742070312	Down	0.000426253	0.163378734
7336	UBE2V2	Ubiquitin conjugating enzyme E2 variant 2	5.90659	5.80493	5.62527	7.14002	7.512	5.97026	2.13637267	1.095163333	2.13637267	Up	0.030021455	0.397944578
10283	CWC27	CWC27 spliceosome-associated protein homolog	5.70808	7.65852	9.22246	5.67278	5.2884	5.5886	-4.036467661	-2.013093333	4.036467661	Down	0.04012694	0.424741108
1123	SEC63	SEC63 homolog, protein	6.01	6.28	5.88	4.81	5.63	4.74	-2.004	-1.003	2.004	Do	0.011	0.327

1		translocation regulator	479	903	827	042	024	232	214147	036667	214147	wn	423056	659866
6646	SOAT1	Sterol O-acyltransferase 1	7.462722	7.170233	7.309889	6.139044	6.376544	6.177772	-2.118700996	-1.08318	2.118700996	Down	0.001126949	0.186147992
57162	PELI1	Pellino E3 ubiquitin protein ligase 1	6.385526	6.571669	6.577977	7.564644	8.258622	7.293337	2.287708655	1.193903333	2.287708655	Up	0.004601705	0.254416312
84456	L3MBTL3	L(3)mbt-like 3 (Drosophila)	4.365166	3.675443	3.956886	5.1105	5.340933	4.719888	2.081975849	1.057953333	2.081975849	Up	0.004778953	0.260263927
8863	PER3	Period circadian clock 3	7.115779	8.059066	9.304439	4.814667	7.620006	5.445779	-4.593434744	-2.199573333	4.593434744	Down	0.032672231	0.404713379
7171	TPM4	Tropomyosin 4	8.124477	8.273376	8.215771	9.354666	9.6141	9.633358	2.512923351	1.329366667	2.512923351	Up	0.000310471	0.157718351
3017	HIST1H2BD	Histone cluster 1, h2bd	7.7383	7.932447	7.742254	9.912444	8.750663	8.557441	2.41003929	1.269056667	2.41003929	Up	0.0118074	0.329502379
9658	ZNF516	Zinc finger protein 516	9.021877	7.854577	8.164405	7.651662	7.048838	6.741344	-2.296945565	-1.199716667	2.296945565	Down	0.016638223	0.356681747
2628	GATM	Glycine amidinotransferase (L-arginine:glycine amidinotransferase)	8.393337	9.888989	9.6698	4.199951	6.988874	8.721522	-6.413432348	-2.681096667	6.413432348	Down	0.042063154	0.430124854

6482	ST3GAL1	ST3 β-galactoside α-2,3-sialyltransferase 1	9.04547	6.21984	7.83128	4.7761	6.08997	4.97058	-5.351636029	-2.41998	5.351636029	Down	0.012173941	0.333395391
11041	B4GAT1	B-1,4-glucuronyltransferase 1	5.73035	6.48385	6.58668	4.72287	5.27788	4.99282	-2.410117249	-1.269103333	2.410117249	Down	0.003807408	0.238907274
253827	MSRB3	Methionine sulfoxide reductase B3	4.34286	4.1437	3.63734	5.0177	6.99154	5.8252	3.741231743	1.903513333	3.741231743	Up	0.006322413	0.283732496
148	ADRA1A	Adrenoceptor α 1A	7.77718	8.27517	7.29986	5.97789	6.42554	7.13918	-2.411392785	-1.269866667	2.411392785	Down	0.012907916	0.336174155
5923	RASGRF1	Ras protein specific guanine nucleotide releasing factor 1	4.37973	8.87277	8.67845	4.60238	4.06567	4.6249	-7.358100255	-2.879333333	7.358100255	Down	0.039413354	0.422684691
11228	RASSF8	Ras association (ralgds/AF-6) domain family (N-terminal) member 8	8.63311	7.78592	8.60611	6.90517	7.79325	6.57266	-2.38064637	-1.251353333	2.38064637	Down	0.015899919	0.351310812
415117	STX19	Syntaxin 19	5.2529	5.36126	4.67566	6.70977	5.97394	6.14542	2.265406582	1.17977	2.265406582	Up	0.005225035	0.266845614
10612	TRIM3	Tripartite motif containing 3	5.65486	7.23416	7.0561	4.01993	5.45061	4.88339	-3.639474106	-1.86373	3.639474106	Down	0.009510619	0.313033169
85477	SCIN	Scinderin	4.98649	4.58106	4.8842	5.32828	7.4871	6.40991	3.012956826	1.59118	3.0129568	Up	0.0176560	0.3611233

											26		1	37
8407	TAGLN2	Transgelin 2	7.19628	6.72168	7.60385	8.97213	8.04179	7.6597	2.071395922	1.050603333	2.071395922	Up	0.034268876	0.408273555
79772	MCTP1	Multiple C2 domains, transmembrane 1	5.63526	6.39284	6.49295	3.55161	5.62798	4.78138	-2.867963507	-1.520026667	2.867963507	Down	0.024624906	0.383131863
79932	KIAA0319L	KIAA0319-like	8.2817	9.05918	8.81005	7.91391	7.13645	7.82143	-2.133240564	-1.093046667	2.133240564	Down	0.010671519	0.323699974
81888	HYI	Hydroxypyruvate isomerase (putative)	7.47974	8.25033	6.80774	5.43829	6.5622	6.45862	-2.566080922	-1.359566667	2.566080922	Down	0.020851486	0.371993438
7851	MALL	Mal, T-cell differentiation protein-like	7.63572	7.33661	7.26304	8.49804	9.69815	8.63862	2.894163982	1.533146667	2.894163982	Up	0.003484967	0.237146666
84133	ZNRF3	Zinc and ring finger 3	4.72308	7.40184	7.0318	4.65606	5.11249	4.01758	-3.458620369	-1.790196667	3.458620369	Down	0.038663821	0.419705436
3192	HNRNPU	Heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A)	6.65399	7.69935	7.51709	9.05407	8.41203	8.60653	2.640357595	1.400733333	2.640357595	Up	0.004540703	0.253792157
4925	NUCB2	Nucleobindin 2	4.56504	7.37471	6.14178	3.4091	4.32733	3.6224	-4.726918531	-2.2409	4.726918531	Down	0.012821107	0.336174155
2378	APOL2	Apolipoprotein L, 2	7.01	7.34	7.78	6.30	6.45	6.03	-2.168	-1.116	2.168	Do	0.004	0.248

0			473	057	991	969	183	438	108065	436667	108065	wn	324324	584805
114897	C1QTNF1	C1q and tumor necrosis factor related protein 1	6.27208	6.94917	7.7553	5.46099	6.38642	5.97611	-2.071979889	-1.05101	2.071979889	Down	0.043243706	0.432330901
55761	TTC17	Tetratricopeptide repeat domain 17	4.9624	5.50068	5.53374	3.84794	4.80005	4.28302	-2.030643056	-1.021936667	2.030643056	Down	0.011677691	0.328470247
891	CCNB1	Cyclin B1	4.603325	3.970667	4.077278	5.968884	6.645477	5.293233	3.368516424	1.752113333	3.368516424	Up	0.002260076	0.211694553
1044	CDX1	Caudal type homeobox 1	5.102822	5.380755	5.763277	5.531922	8.2457	7.286069	3.043272104	1.605623333	3.043272104	Up	0.042486652	0.431731952
2952	GSTT1	Glutathione S-transferase theta 1	6.420666	6.866188	6.893499	3.842644	5.563633	5.917855	-3.071059931	-1.618736667	3.071059931	Down	0.019041498	0.367480231
100132062	LOC100132062	Uncharacterized LOC100132062	8.033599	8.308488	7.492011	5.710499	6.092977	7.818244	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
2334	AFF2	AF4/FMR2 family member 2	7.186144	5.536661	7.122269	5.245244	4.326332	4.726615	-3.60311159	-1.849243333	3.60311159	Down	0.007122531	0.289316501
890	CCNA2	Cyclin A2	6.114447	5.729926	6.212832	8.347776	8.410622	6.889144	3.639280705	1.863653333	3.639280705	Up	0.003726798	0.238598853
23	CADM	Cell adhesion	8.	9.	8.	6.	7.	6.	-3.	-1.	3.9	D	0.0	0.1

705	1	molecule 1	4534	13854	68472	3707	05018	92275	938582967	977676667	38582967	own	00250013	47996059
374354	NHLRC2	NHL repeat containing 2	4.241109	5.14117	4.131581	5.7535	5.62358	5.4508	2.14841098	1.10327	2.14841098	Up	0.008404219	0.305721078
10525	HYOU1	Hypoxia up-regulated 1	8.59975	9.28002	8.30731	7.43681	7.82674	7.17559	-2.377282467	-1.249313333	2.377282467	Down	0.006097775	0.279481742
170688	NUDT4P2	Nudix hydrolase 4 pseudogene 2	5.906887	4.508841	5.1277	3.521156	4.355366	3.476882	-2.632463145	-1.396413333	2.632463145	Down	0.011247144	0.324854465
126961	HIST2H3C	Histone cluster 2, h3c	6.191181	5.501877	5.705388	7.083122	7.499977	6.876088	2.555082722	1.35337	2.555082722	Up	0.001879027	0.195764558
10484	SEC23A	Sec23 homolog A, COPII coat complex component	5.127736	4.547443	4.737995	5.392733	6.4922	5.7312	2.096229488	1.067796667	2.096229488	Up	0.014276578	0.346797053
57674	RNF213	Ring finger protein 213	7.782222	5.949774	6.872799	5.621966	5.760991	5.8466	-2.181156568	-1.125093333	2.181156568	Down	0.039475539	0.422887264
5558	PRIM2	Primase, DNA, polypeptide 2 (58kda)	4.41415	4.31947	4.47679	5.37279	5.9126	5.29057	2.176258601	1.12185	2.176258601	Up	0.001685663	0.189790116
332	BIRC5	Baculoviral IAP repeat containing 5	4.10131	3.69622	3.72512	4.91081	5.13264	4.72601	2.117365017	1.08227	2.117365017	Up	0.001174954	0.186147992

3964	LGALS8	Lectin, galactoside-binding, soluble, 8	7.98937	7.25593	7.43256	8.90597	8.43869	8.88181	2.270279622	1.18287	2.270279622	Up	0.003705862	0.23859853
11004	KIF2C	Kinesin family member 2C	5.61136	5.34198	5.21711	6.62022	7.49076	6.00835	2.490254746	1.316293333	2.490254746	Up	0.011214973	0.324751286
91768	CABLES1	Cdk5 and Abl enzyme substrate 1	6.205955	7.56374	7.60851	5.54872	6.1229	4.88733	-3.04494605	-1.606416667	3.04494605	Down	0.012362771	0.334466731
23647	ARFIP2	ADP ribosylation factor interacting protein 2	7.37998	9.03093	8.65217	6.63415	7.07536	7.17969	-2.623137319	-1.391293333	2.623137319	Down	0.016265789	0.353909069
100008586	GAGE12F	G antigen 12F	4.52158	4.21772	4.33547	4.46908	6.30035	5.69143	2.186611121	1.128696667	2.186611121	Up	0.039742851	0.423820735
390927	ZNF793	Zinc finger protein 793	5.71375	6.03887	6.14506	3.19676	4.08854	4.83455	-3.799852277	-1.925943333	3.799852277	Down	0.002244757	0.211694553
29103	DNAJC15	Dnaj heat shock protein family (Hsp40) member C15	6.50566	6.92547	7.22439	8.33578	8.09319	7.28986	2.029470449	1.021103333	2.029470449	Up	0.020670344	0.371592873
8398	PLA2G6	Phospholipase A2 group VI	7.69866	8.00673	7.88237	6.78612	6.12873	6.95079	-2.363142563	-1.240706667	2.363142563	Down	0.002806824	0.229422197
406991	MIR21	Microrna 21	10.35736	8.72939	8.29673	9.88904	11.27332	11.74719	3.585124782	1.842023333	3.5851247	Up	0.0277397	0.3914486

											82		72	74
5947	RBP1	Retinol binding protein 1	5.78793	5.71539	6.10585	4.72337	4.29629	4.30407	-2.691629802	-1.42848	2.691629802	Down	0.000363043	0.160901541
102725070	LOC102725070	Coiled-coil domain-containing protein 29-like	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
91392	ZNF502	Zinc finger protein 502	4.38984	4.70666	4.91559	2.6519	4.33494	3.85346	-2.080980337	-1.057263333	2.080980337	Down	0.042013198	0.430074346
145226	RDH12	Retinol dehydrogenase 12 (all-trans/9-cis/11-cis)	9.62382	6.82069	7.3695	5.06806	3.43822	3.12924	-16.67363399	-4.059496667	16.67363399	Down	0.001657917	0.188843044
389549	FEZF1	FEZ family zinc finger 1	4.2847	5.04371	4.51595	4.91135	6.48551	5.54176	2.044035142	1.03142	2.044035142	Up	0.045185348	0.436318927
51316	PLAC8	Placenta specific 8	6.65626	6.81462	6.73318	10.75282	8.8716	8.41428	6.111585358	2.611546667	6.111585358	Up	0.002744948	0.228175285
5522	PPP2R2C	Protein phosphatase 2 regulatory subunit B, γ	7.20975	7.13161	7.38805	5.16333	4.71167	5.4747	-4.366780456	-2.12657	4.366780456	Down	7.36756E-05	0.126508975
81611	ANP32E	Acidic nuclear phosphoprotein 32 family member E	3.99432	3.7696	3.72192	5.79803	5.80182	4.96056	3.22997575	1.691523333	3.22997575	Up	0.000479828	0.164248294
10207	INADL	Inad-like (Drosophila)	9.1030	9.2704	9.2102	7.5699	8.4361	8.3145	-2.125354	-1.087703	2.12535	Dow	0.00610	0.27948

			1	9	1	3	4	3	259	333	4259	n	7328	1742
80000	GREB1L	Growth regulation by estrogen in breast cancer-like	3.88982	4.35786	3.74856	5.29267	5.37609	4.39307	2.030539839	1.021863333	2.030539839	Up	0.015170329	0.348679547
5641	LGMN	Legumain	9.56945	8.36808	8.45817	7.64993	8.02681	7.54063	-2.084127202	-1.059443333	2.084127202	Down	0.023165477	0.380753901
23258	DENND5A	DENN/MADD domain containing 5A	7.64196	7.85285	7.68905	6.15586	7.12656	6.67614	-2.106868104	-1.0751	2.106868104	Down	0.007282568	0.292186683
9414	TJP2	Tight junction protein 2	5.86359	6.32315	6.67934	7.69486	7.16826	7.47177	2.228804383	1.15627	2.228804383	Up	0.004709885	0.257357322
57713	SFMBT2	Scm-like with four mbt domains 2	5.371	5.93145	6.32842	4.41827	5.06401	4.25361	-2.459434557	-1.298326667	2.459434557	Down	0.005824157	0.276481132
25840	METTL7A	Methyltransferase like 7A	8.45009	6.64329	7.38071	5.88887	6.79481	5.77059	-2.531407907	-1.33994	2.531407907	Down	0.032653217	0.40471379
301	ANXA1	Annexin A1	6.61871	4.46937	3.0406	7.70733	6.74465	6.66218	5.022805233	2.328493333	5.022805233	Up	0.029148484	0.394496382
83481	EPPK1	Epiplakin 1	5.68675	4.54679	5.1423	7.06081	6.58291	5.55289	2.417624189	1.27359	2.417624189	Up	0.027329661	0.389833707
8836	GGH	Γ-glutamyl hydrolase	3.56	5.09	4.56	5.23	6.01	5.37	2.1898	1.1308	2.189	Up	0.031	0.401

		(conjugase, folylpolyγglutamyl hydrolase)	765	448	472	196	672	072	77244	5	877244		610318	565284
22849	CPEB3	Cytoplasmic polyadenylation element binding protein 3	5.88189	6.46853	6.11095	5.60423	4.28619	5.15098	-2.203794956	-1.13999	2.203794956	Down	0.017343355	0.360389823
1375	CPT1B	Carnitine palmitoyltransferase 1B	7.38685	7.57944	7.26707	6.2108	5.82943	7.15156	-2.019301965	-1.013856667	2.019301965	Down	0.025557356	0.384735387
1005069965	PWAR6	Prader Willi/Angelman region RNA 6	6.75906	5.4554	5.96899	5.67825	4.57901	4.49245	-2.210817596	-1.14458	2.210817596	Down	0.037208231	0.415716329
3838	KPNA2	Karyopherin α 2 (RAG cohort 1, importin α 1)	6.28763	5.64955	6.57032	7.70071	6.81672	8.66058	2.942080388	1.556836667	2.942080388	Up	0.015832602	0.351167461
26586	CKAP2	Cytoskeleton associated protein 2	5.71835	5.25089	5.51438	6.90235	7.67216	6.47907	2.874517871	1.52332	2.874517871	Up	0.002858248	0.231197539
26576	SRPK3	SRSF protein kinase 3	6.0725	6.9618	6.77519	5.98507	5.25266	5.44689	-2.058542641	-1.041623333	2.058542641	Down	0.014379449	0.346797053
80036	TRPM3	Transient receptor potential cation channel, subfamily M, member 3	8.73675	6.88994	6.71803	4.74518	4.78316	5.06995	-5.98828686	-2.582143333	5.98828686	Down	0.001850942	0.194393687
1742	DLG4	Discs, large homolog 4 (Drosophila)	5.53136	6.43924	6.53294	4.61913	5.14137	5.03114	-2.357569007	-1.2373	2.357569007	Down	0.006638502	0.286902262
32	HOXB	Homeobox B5	4.	4.	3.	6.	5.	7.	4.9	2.3	4.9	U	0.0	0.2

15	5		11507	43207	73599	65626	11674	43188	49387504	0725	49387504	p	04804792	60263927
399948	COLCA1	Colorectal cancer associated 1	7.356661	8.517736	8.068858	6.579299	6.354777	7.388611	-2.307973512	-1.206626667	2.307973512	Down	0.018999734	0.367348071
166336	PRICKLE2	Prickle homolog 2	5.797769	5.836555	5.6417	4.082644	5.464888	4.442099	-2.13678734	-1.095443333	2.136787734	Down	0.019276124	0.367664157
63951	DMRTA1	DMRT-like family A1	6.3678	6.077763	5.920031	4.210019	3.135542	3.941138	-5.132221133	-2.359583333	5.132221133	Down	0.000139548	0.127849829
5565	PRKAB2	Protein kinase, AMP-activated, β 2 non-catalytic subunit	5.189448	5.586696	5.665188	7.199447	6.963766	5.565771	2.137276161	1.095773333	2.137276161	Up	0.042663042	0.432078881
284611	FAM102B	Family with sequence similarity 102 member B	4.002011	3.866632	4.288832	5.079928	5.626694	4.456774	2.002917966	1.002103333	2.002917966	Up	0.015983764	0.351417934
100288637	LOC100288637	OTU deubiquitinase 7A pseudogene	5.869996	5.539557	6.229912	7.634448	7.959777	7.542886	3.562327116	1.83282	3.562327116	Up	0.000199165	0.135279577
57571	CARNS1	Carnosine synthase 1	6.135556	5.295598	5.437764	4.421664	4.051108	5.127115	-2.12840102	-1.08977	2.12840102	Down	0.017994069	0.362487638
347252	IGFBPL1	Insulin like growth factor binding protein-like 1	5.992666	6.381222	6.549931	3.450664	3.988644	4.028755	-5.598550425	-2.485053333	5.598550425	Down	2.61453E-05	0.096052942

55752	SEPT11	Septin 11	6.52049	5.85042	6.48175	7.72147	8.33104	6.48307	2.341835924	1.22764	2.341835924	Up	0.03848837	0.419344395
6764	ST5	Suppression of tumorigenicity 5	8.94694	9.34065	9.20514	7.64768	8.39358	7.83727	-2.30494661	-1.204733333	2.30494661	Down	0.002817687	0.229820933
403313	PLPP6	Phospholipid phosphatase 6	5.98745	7.058	6.38995	5.52728	5.59169	4.95567	-2.173851414	-1.120253333	2.173851414	Down	0.012606963	0.335595501
5268	SERPINB5	Serpin peptidase inhibitor, clade B (ovalbumin), member 5	4.29793	5.5666	6.41117	10.85553	9.09369	6.73342	11.07304422	3.46898	11.07304422	Up	0.012500212	0.334466731
6635	SNRPE	Small nuclear ribonucleoprotein polypeptide E	7.92024	7.74224	7.57656	9.70376	8.67879	7.96675	2.051605485	1.036753333	2.051605485	Up	0.047974321	0.443396377
7031	TFF1	Trefoil factor 1	5.7832	7.39743	9.40701	11.8894	9.89773	9.77889	7.9601374	2.992793333	7.9601374	Up	0.017823277	0.361627134
170506	DHX36	DEAH (Asp-Glu-Ala-His) box polypeptide 36	5.87075	5.86446	5.53057	6.47977	6.70958	7.70776	2.314087367	1.210443333	2.314087367	Up	0.010825246	0.323878416
83856	FSD1L	Fibronectin type III and SPRY domain containing 1-like	5.41042	4.80791	3.91685	6.14358	5.88001	6.05675	2.488115285	1.315053333	2.488115285	Up	0.010374154	0.319585428
7710	ZNF154	Zinc finger protein 154	5.59838	6.99412	6.54883	3.89703	4.77481	4.19129	-4.265554609	-2.092733333	4.26555546	Down	0.0013942	0.1871078

											09		74	18
388886	LRRC75B	Leucine rich repeat containing 75B	6.44239	6.92818	6.52055	5.34317	5.64964	5.47463	-2.205684841	-1.141226667	2.205684841	Down	0.001494678	0.187107818
65244	SPATS2	Spermatogenesis associated, serine rich 2	9.0731	9.01921	8.61739	7.22054	8.26886	7.61616	-2.29959532	-1.20138	2.299595532	Down	0.00692485	0.288737424
1604	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	4.822	4.93545	4.93889	9.25454	8.22132	8.71994	14.25260113	3.833153333	14.25260113	Up	3.93845E-06	0.051290457
55835	CENPJ	Centromere protein J	4.6876	4.3993	4.3857	5.15243	6.27647	6.31347	2.681902272	1.423256667	2.681902272	Up	0.004505214	0.253494423
441027	TMEM150C	Transmembrane protein 150C	5.90839	6.22333	6.26117	4.75786	5.29594	4.46437	-2.447948715	-1.291573333	2.447948715	Down	0.002021947	0.202552393
140738	TMEM37	Transmembrane protein 37	9.17506	8.24151	8.1214	6.46838	7.26171	7.35007	-2.800989678	-1.485936667	2.800989678	Down	0.005886256	0.278751666
8165	AKAP1	A-kinase anchoring protein 1	4.66522	5.01651	5.69264	6.6335	6.7311	7.0118	3.176291529	1.667343333	3.176291529	Up	0.000960651	0.18614792
10611	PDLIM5	PDZ and LIM domain 5	8.75531	8.06128	8.32655	10.02729	9.74213	9.99085	2.906017384	1.539043333	2.906017384	Up	0.000486715	0.164248294
2646	PTPN18	Protein tyrosine phosphatase,	9.45	9.50	10.0	8.17	8.29	8.52	-2.517	-1.331	2.517	Do	0.000	0.186

9		non-receptor type 18 (brain-derived)	813	711	2055	086	067	829	496897	99	496897	wn	978005	14792
3115	HLA-DPB1	Major histocompatibility complex, class II, DP β 1	10.1109	7.69562	9.11387	5.68136	8.25704	7.25735	-3.753439771	-1.908213333	3.753439771	Down	0.049167926	0.4461748
388743	CAPN8	Calpain 8	5.0674	5.61075	7.55927	9.65427	7.59895	8.74339	6.005967494	2.586396667	6.005967494	Up	0.011161787	0.324611979
283450	HECTD4	HECT domain containing E3 ubiquitin protein ligase 4	7.92658	9.69079	9.18617	6.81933	7.98304	8.07092	-2.479558621	-1.310083333	2.479558621	Down	0.044829111	0.435527714
388125	C2CD4B	C2 calcium-dependent domain containing 4B	7.40704	8.68745	8.17997	4.31955	5.53337	4.41855	-10.086334	-3.33433	10.086334	Down	0.000152342	0.128621894
213	ALB	Albumin	3.36922	4.03672	3.68137	10.22319	6.87745	4.33043	10.91257754	3.44792	10.91257754	Up	0.034730042	0.408423981
100526830	SLX1A-SULT1A3	SLX1A-SULT1A3 readthrough (NMD candidate)	6.47722	6.93547	6.66106	7.80233	8.02899	7.66662	2.205944764	1.141396667	2.205944764	Up	0.001523801	0.187107818
56892	C8orf4	Chromosome 8 open reading frame 4	5.13931	5.31691	5.82031	8.26158	5.89229	7.34723	3.343880598	1.741523333	3.343880598	Up	0.019577746	0.367760084
25833	POU2F3	POU class 2 homeobox 3	5.47128	6.16327	6.42732	4.22622	4.79247	5.64671	-2.191861541	-1.132156667	2.191861541	Down	0.031019619	0.399785461
97	ATG13	Autophagy related	7.	7.	7.	5.	6.	6.	-2.	-1.	2.2	D	0.0	0.2

76		13	20147	73647	7412	97783	60531	66169	211108775	14477	11108775	own	05067565	65395028
84245	MRI1	Methylthioribose-1-phosphate isomerase 1	7.79775	7.67334	7.69538	6.49937	6.44961	6.2146	-2.52152524	-1.334296667	2.521525524	Down	0.000288219	0.152167732
1181	CLCN2	Chloride channel, voltage-sensitive 2	6.61132	6.34926	6.81613	5.55779	5.49517	5.56571	-2.07437971	-1.05268	2.074379971	Down	0.001570167	0.187107818
64856	VWA1	Von Willebrand factor A domain containing 1	7.80438	9.7407	9.33439	7.2946	7.51184	7.77861	-2.697220248	-1.431473333	2.697220248	Down	0.023794395	0.381268997
3712	IVD	Isovaleryl-coa dehydrogenase	7.28016	7.57574	7.57902	4.85127	4.94348	6.3996	-4.228629027	-2.08019	4.228629027	Down	0.001925736	0.198675021
8370	HIST2H4A	Histone cluster 2, h4a	8.73568	8.01419	8.24889	9.86207	9.68071	8.5579	2.047655952	1.033973333	2.047655952	Up	0.035068407	0.408557826
56852	RAD18	RAD18, E3 ubiquitin protein ligase	3.92579	4.02946	4.64516	5.27708	5.43028	5.62366	2.367782669	1.243536667	2.367782669	Up	0.001618666	0.187654734
140612	ZFP28	ZFP28 zinc finger protein	6.45859	6.5947	6.7915	3.29284	5.26383	4.48882	-4.811321925	-2.266433333	4.811321925	Down	0.002098359	0.206943289
2970	GTF2IP1	General transcription factor iii pseudogene 1	7.83213	8.52857	8.56697	7.3868	6.9157	7.25453	-2.178819474	-1.123546667	2.178819474	Down	0.005285487	0.268462247

5909	RAP1GAP	RAP1 gtpase activating protein	8.41827	8.12033	8.5429	6.83377	5.65783	6.08476	-4.495183469	-2.16838	4.495183469	Down	0.000351748	0.160901541
10923	SUB1	SUB1 homolog, transcriptional regulator	5.20958	5.30463	5.4644	6.44314	6.12227	6.43966	2.012264568	1.00882	2.012264568	Up	0.001773726	0.192292584
51435	SCARA3	Scavenger receptor class A, member 3	7.05334	8.61304	8.90748	6.21004	6.51688	6.29302	-3.608268424	-1.851306667	3.608268424	Down	0.006345558	0.283732496
3635	INPP5D	Inositol polyphosphate-5-phosphatase D	9.04125	8.68604	9.52402	7.20585	8.16247	7.04275	-3.059749051	-1.613413333	3.059749051	Down	0.003531664	0.237146666
154091	SLC2A12	Solute carrier family 2 (facilitated glucose transporter), member 12	5.60692	5.96824	5.79852	4.443	4.27936	5.06711	-2.289030469	-1.194736667	2.289030469	Down	0.002701666	0.226767112
8431	NR0B2	Nuclear receptor subfamily 0 group B member 2	8.01791	4.89776	5.67328	4.28561	4.91401	3.95522	-3.509754207	-1.81137	3.509754207	Down	0.049824191	0.446565527
155066	ATP6V0E2	Atpase, H+ transporting V0 subunit e2	6.40035	6.78612	6.44279	5.57732	5.28652	5.60081	-2.077530994	-1.05487	2.077530994	Down	0.001927016	0.198675021
51029	DESI2	Desumoylating isopeptidase 2	5.33901	5.9055	5.60081	7.00865	6.7338	6.22306	2.056317922	1.040063333	2.056317922	Up	0.007856135	0.299139554
3399	ID3	Inhibitor of DNA binding 3, dominant negative helix-loop-helix	6.92755	8.81204	7.81298	6.05594	7.17855	6.36685	-2.491607235	-1.317076667	2.4916072	Down	0.0392810	0.4225797

		protein								35		31	15
1364	CLDN4	Claudin 4	9.0968	6.97927	8.62161	9.16474	10.57536	10.55879	3.647909655	1.86707	3.647909655	Up	0.021363165	0.373026178
4001	LMNB1	Lamin B1	4.68847	3.35198	4.31608	5.77345	6.42831	5.29565	3.279842794	1.713626667	3.279842794	Up	0.005168814	0.266239084
90639	COX19	COX19 cytochrome c oxidase assembly factor	6.80015	6.56225	6.52059	8.3389	7.67921	7.88181	2.52971817	1.338976667	2.52971817	Up	0.001007066	0.18614792
56654	NPDC1	Neural proliferation, differentiation and control, 1	9.13455	10.84197	10.6004	8.97649	7.27127	8.22494	-4.097488783	-2.03474	4.097488783	Down	0.010235512	0.318638427
387496	RASL11A	RAS-like, family 11, member A	5.57583	5.33307	5.57647	5.48086	7.50824	7.9319	2.786672252	1.478543333	2.786672252	Up	0.045139914	0.436203637
4739	NEDD9	Neural precursor cell expressed, developmentally down-regulated 9	4.9945	6.4802	6.51831	7.48908	7.50746	8.08532	3.240650269	1.696283333	3.240650269	Up	0.007033638	0.288964472
4133	MAP2	Microtubule associated protein 2	6.30737	5.20015	4.5655	3.96575	4.56913	4.02668	-2.250876133	-1.170486667	2.250876133	Down	0.034011788	0.408273555
4189	DNAJB9	Dnaj heat shock protein family (Hsp40) member B9	6.05104	7.84366	6.77145	5.12635	5.73491	3.84387	-3.964136571	-1.987006667	3.964136571	Down	0.013796593	0.344493894
101060	LOC101060026	Coiled-coil domain-containing protein 29-like	7.4614	7.4223	7.3289	7.1584	5.3081	5.4193	-2.717474	-1.442266	2.71747	Dow	0.02222	0.37835

026			8	2	1	3	1	7	819	667	4819	n	5545	7221
10808	HSPH1	Heat shock protein family H (Hsp110) member 1	6.134	5.80126	5.83427	7.86529	6.49289	6.5381	2.059437009	1.04225	2.059437009	Up	0.034267626	0.408273555
151230	KLHL23	Kelch like family member 23	5.0674	4.81491	4.41111	6.28071	6.65035	5.28463	2.474991093	1.307423333	2.474991093	Up	0.011589372	0.327659866
398	ARHGDIG	Rho GDP dissociation inhibitor (GDI) γ	5.32485	6.87893	7.31877	5.05021	5.17297	5.54782	-2.379266155	-1.250516667	2.379266155	Down	0.043252279	0.432330901
3181	HNRNPA2B1	Heterogeneous nuclear ribonucleoprotein A2/B1	8.09576	7.91295	7.77169	8.72309	9.38455	8.68115	2.003880763	1.002796667	2.003880763	Up	0.006838252	0.288459719
63928	CHP2	Calcineurin-like EF-hand protein 2	3.82701	3.53221	4.06835	4.42903	8.39709	7.59482	7.987754539	2.99779	7.987754539	Up	0.015774911	0.350947357
9394	HS6ST1	Heparan sulfate 6-O-sulfotransferase 1	7.13065	6.88597	7.5306	4.71045	5.07127	4.43075	-5.444941945	-2.444916667	5.444941945	Down	4.3768E-05	0.096052942
1796	DOK1	Docking protein 1	6.25481	6.69652	6.05326	4.31614	5.48486	5.89172	-2.149433784	-1.103956667	2.149433784	Down	0.036285569	0.413668192
284040	CDRT4	CMT1A duplicated region transcript 4	6.2623	7.6214	7.62444	5.80811	5.56614	6.2424	-2.457452163	-1.297163333	2.457452163	Down	0.017558715	0.361123337
1005	MINOS1-NB	MINOS1-NBL1 readthrough	8.82	7.40	8.58	9.66	10.3	9.08	2.6787	1.4215	2.678	Up	0.019	0.367

32736	L1		007	03	861	775	2291	301	56292	63333	756292		345708	664157
7276	TTR	Transthyretin	11.166629	7.20888	7.87963	6.55206	6.49455	4.89997	-6.818274424	-2.769406667	6.818274424	Down	0.031751988	0.40273838
55732	C1orf112	Chromosome 1 open reading frame 112	3.88661	3.96372	3.81903	4.82034	4.68057	5.21984	2.023888765	1.01713	2.023888765	Up	0.001494007	0.187107818
22823	MTF2	Metal response element binding transcription factor 2	6.36908	7.29475	7.25295	5.76899	5.98497	6.16259	-2.000106285	-1.000076667	2.000106285	Down	0.013978187	0.34520468
51738	GHRL	Ghrelin/obestatin prepropeptide	5.11567	5.95447	7.4921	4.73746	4.54661	4.80916	-2.808247324	-1.48967	2.808247324	Down	0.032785467	0.405090266
4929	NR4A2	Nuclear receptor subfamily 4 group A member 2	4.34513	3.68763	3.19931	4.7439	4.23401	5.48748	2.110775778	1.077773333	2.110775778	Up	0.032491168	0.40471379
9026	HIP1R	Huntingtin interacting protein 1 related	5.91139	5.78216	5.71931	4.38516	4.24331	5.38428	-2.193705713	-1.13337	2.193705713	Down	0.010388633	0.319585428
11074	TRIM31	Tripartite motif containing 31	5.08675	4.797	5.28275	6.61213	8.68249	8.64396	7.589614806	2.924026667	7.589614806	Up	0.001280721	0.187107818
105373326	LOC105373326	Uncharacterized LOC105373326	9.08628	9.13301	8.68979	7.67036	7.67413	6.85007	-2.972149461	-1.571506667	2.972149461	Down	0.001214971	0.186214792
12	IQGAP	IQ motif	4.	3.	3.	4.	5.	4.	2.0	1.0	2.0	U	0.0	0.2

8239	3	containing gtpase activating protein 3	15063	79019	52994	98813	22565	45649	94351122	66503333	94351122	p	055553	71431426
5347	PLK1	Polo-like kinase 1	6.43642	6.03167	6.09996	7.55488	7.52357	6.92467	2.211497074	1.145023333	2.211497074	Up	0.003192537	0.234239382
10562	OLFM4	Olfactomedin 4	3.63806	4.4629	4.68117	9.61519	12.38743	10.26578	90.22299879	6.495423333	90.22299879	Up	3.89271E-05	0.096052942
5209	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	10.33449	9.53666	10.06424	7.40558	9.14617	8.54637	-3.057650123	-1.612423333	3.057650123	Down	0.010634079	0.323317376
5104	SERPINA5	Serpin peptidase inhibitor, clade A (α-1 antiproteinase, antitrypsin), member 5	9.0119	7.26036	7.23187	2.63778	4.41354	3.84689	-18.40433011	-4.201973333	18.40433011	Down	0.000282956	0.152167732
10257	ABCC4	ATP binding cassette subfamily C member 4	8.03799	7.58884	7.54891	5.36855	6.35183	6.2554	-3.324920856	-1.73332	3.324920856	Down	0.001096195	0.18614792
4093	SMAD9	SMAD family member 9	8.03763	8.11538	7.72415	6.13516	6.3684	6.2488	-3.267679904	-1.708266667	3.267679904	Down	9.34353E-05	0.127849829
55277	FGGY	FGGY carbohydrate kinase domain containing	5.4325	7.12872	6.78833	5.14915	5.07718	5.39023	-2.369085063	-1.24433	2.369085063	Down	0.025441883	0.384426011
10192909	LOC101929097	Uncharacterized LOC101929097	4.41284	4.90527	5.25769	3.98864	3.69186	3.55994	-2.161131211	-1.111786667	2.1611312	Down	0.0037386	0.2385985

7											11		39	3
8794	TNFRSF10C	Tumor necrosis factor receptor superfamily member 10c, decoy without an intracellular domain	7.07907	7.62836	7.5673	7.18187	5.76071	5.60293	-2.367022358	-1.243073333	2.367022358	Down	0.026782865	0.388384104
56649	TMPRSS4	Transmembrane protease, serine 4	5.2572	5.37444	5.55744	6.4072	6.77543	7.05922	2.550753229	1.350923333	2.550753229	Up	0.000839208	0.181040924
3730	ANOS1	Anosmin 1	7.58253	7.52021	7.36879	4.74238	6.77201	5.33662	-3.664221374	-1.873506667	3.664221374	Down	0.007022255	0.288964472
79370	BCL2L14	BCL2-like 14 (apoptosis facilitator)	4.80855	4.52245	5.34208	6.47784	6.56668	5.54844	2.473624762	1.306626667	2.473624762	Up	0.007948883	0.299139554
100499484	LOC100499484	SUGT1-1300002K09Rik pseudogene	5.2056	5.44104	5.73664	4.11491	4.38103	4.78425	-2.048209564	-1.034363333	2.048209564	Down	0.004610478	0.254416312
80777	CYB5B	Cytochrome b5 type B (outer mitochondrial membrane)	4.48193	5.17982	5.03773	6.07127	6.25797	5.72852	2.17260615	1.119426667	2.17260615	Up	0.004104381	0.24425172
3920	LAMP2	Lysosomal-associated membrane protein 2	9.08628	9.13301	8.68979	7.67036	7.67413	6.85007	-2.972149461	-1.571506667	2.972149461	Down	0.001214971	0.186147792
56912	IFT46	Intraflagellar transport 46	6.07708	5.99063	6.19065	5.04365	4.37323	5.17017	-2.335562415	-1.22377	2.335562415	Down	0.002300602	0.212162949
48	ATP2A	Atpase, Ca++	8.	9.	10	8.	7.	8.	-2.	-1.	2.1	D	0.0	0.4

9	3	transporting, ubiquitous	64325	27552	.25322	63763	69744	5262	148862741	103573333	48862741	own	47977553	43396377
81539	SLC38A1	Solute carrier family 38, member 1	6.10907	4.24493	5.12487	6.71521	7.29628	6.81474	3.440106749	1.782453333	3.440106749	Up	0.006756621	0.288459719
9965	FGF19	Fibroblast growth factor 19	11.82882	8.68119	9.32965	4.06761	5.93235	3.97936	-39.03726299	-5.28678	39.03726299	Down	0.000614857	0.168942005
274	BIN1	Bridging integrator 1	8.314462	7.419999	7.1859	5.559945	6.789099	6.34533	-2.655309445	-1.40888	2.655309445	Down	0.012464372	0.334466731
3832	KIF11	Kinesin family member 11	4.061309	3.211599	4.161622	5.545451	5.714322	4.8093	2.917656414	1.54481	2.917656414	Up	0.003174649	0.234239382
84515	MCM8	Minichromosome maintenance 8 homologous recombination repair factor	4.6927	4.32059	4.49538	4.83455	6.28288	5.67281	2.134438607	1.093856667	2.134438607	Up	0.021460469	0.373802525
440686	HIST2H3PS2	Histone cluster 2, H3, pseudogene 2	6.19181	5.50187	5.70538	7.08312	7.49997	6.87608	2.555082722	1.35337	2.555082722	Up	0.001879027	0.195764558
11153	FICD	FIC domain containing	5.10692	6.94448	5.82603	4.28282	4.20278	4.82475	-2.872605742	-1.52236	2.872605742	Down	0.013817133	0.344493894
6514	SLC2A2	Solute carrier family 2 (facilitated glucose transporter), member 2	3.98762	4.61705	5.05153	4.10199	3.06688	2.46163	-2.534849336	-1.3419	2.534849336	Down	0.021930657	0.377760881

79188	TMEM43	Transmembrane protein 43	6.20954	5.54068	5.94308	6.85892	7.37736	6.54273	2.040001199	1.02857	2.040001199	Up	0.011093066	0.324511309
147686	ZNF418	Zinc finger protein 418	4.4419	5.39896	5.27572	2.73743	3.9219	3.842	-2.904755365	-1.538416667	2.904755365	Down	0.006423658	0.284778782
10486	CAP2	CAP, adenylate cyclase-associated protein, 2 (yeast)	5.56105	5.30392	4.46329	6.49627	5.6827	6.64189	2.241089088	1.1642	2.241089088	Up	0.019090894	0.367524359
51303	FKBP11	FK506 binding protein 11	5.49621	6.83612	6.51618	5.61562	4.91004	4.7332	-2.291909376	-1.19655	2.291909376	Down	0.022612724	0.379328695
5983	RFC3	Replication factor C subunit 3	5.82657	5.93256	5.60171	6.78039	7.68794	6.9193	2.535487801	1.342263333	2.535487801	Up	0.002558018	0.221485665
10164	CHST4	Carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 4	10.68123	6.95288	7.78747	4.58934	7.33181	5.51654	-6.32601364	-2.661296667	6.32601364	Down	0.042114028	0.430362378
10873	ME3	Malic enzyme 3, NADP(+)-dependent, mitochondrial	7.45558	7.87514	7.38149	6.53491	6.4305	6.45305	-2.140453756	-1.097916667	2.140453756	Down	0.001637107	0.188118017
7321	UBE2D1	Ubiquitin conjugating enzyme E2D 1	5.1441	4.80512	4.40796	5.62283	6.82651	5.82233	2.47054614	1.30483	2.47054614	Up	0.00980302	0.314703537
1362	CPD	Carboxypeptidase D	7.6664	8.84358	8.99338	7.98308	7.31746	6.42244	-2.395167692	-1.260126667	2.3951676	Down	0.0413485	0.4271411

											92		84	54
644249	LOC644249	Coiled-coil domain-containing protein 29-like	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.0222225545	0.3783572221
158399	ZNF483	Zinc finger protein 483	4.962533	4.792577	5.467772	2.464877	4.547331	4.2538	-2.494838913	-1.318946667	2.494838913	Down	0.045162815	0.436317019
57476	GRAMD1B	GRAM domain containing 1B	8.30761	8.472268	8.9595	6.98641	5.16364	5.7137	-6.170325797	-2.625346667	6.170325797	Down	0.000899858	0.181040924
6788	STK3	Serine/threonine kinase 3	6.341887	6.468836	6.304099	7.766677	7.670633	6.6866	2.004431803	1.003193333	2.004431803	Up	0.017405329	0.360389823
51181	DCXR	Dicarbonyl/L-xylulose reductase	7.145088	8.743211	8.007055	7.131544	6.843033	5.904889	-2.529104531	-1.338626667	2.529104531	Down	0.028706222	0.393405585
2491	CENPI	Centromere protein I	4.166933	3.644011	4.042188	4.738889	5.554332	4.766666	2.097857475	1.068916667	2.097857475	Up	0.007108782	0.289316501
51301	GCNT4	Glucosaminyl (N-acetyl) transferase 4, core 2	8.855133	8.381566	8.316877	3.966221	5.036244	3.787705	-19.08922552	-4.254686667	19.08922552	Down	9.38272E-06	0.069645519
3669	ISG20	Interferon stimulated exonuclease gene 20kda	9.121118	7.705277	7.372422	6.676388	6.315188	6.97715	-2.657469867	-1.410053333	2.657469867	Down	0.020280855	0.371132699
5028	P2RY1	Purinergic receptor P2Y, G-protein coupled,	6.6273	6.0703	6.5292	4.0563	5.6302	5.6920	-2.433079	-1.282783	2.43307	Dow	0.02798	0.39200

		1	7	2	5	4	4	1	285	333	9285	n	633	2337
84915	FAM222A	Family with sequence similarity 222 member A	6.69966	5.91243	6.83826	5.66015	5.02183	5.50209	-2.126911493	-1.08876	2.126911493	Down	0.011469642	0.327659866
831	CAST	Calpastatin	6.445552	5.957732	6.065564	7.130007	7.841477	6.998805	2.245499914	1.167036667	2.245499914	Up	0.005486554	0.269835764
100101467	ZSCAN30	Zinc finger and SCAN domain containing 30	4.312264	4.628566	4.831112	4.324443	3.737888	2.598388	-2.052254997	-1.03721	2.052254997	Down	0.046270036	0.439777208
23213	SULF1	Sulfatase 1	5.382444	5.792188	5.060776	5.979915	10.64493	8.335502	7.505284011	2.907906667	7.505284011	Up	0.028219398	0.392909352
389337	ARHGEF37	Rho guanine nucleotide exchange factor 37	6.616609	7.922235	6.9609	6.189945	5.315584	6.370007	-2.310160894	-1.207993333	2.310160894	Down	0.025962973	0.385810778
57532	NUFIP2	Nuclear fragile X mental retardation protein interacting protein 2	5.285503	5.8684	5.850442	6.473522	6.9857	6.8163	2.129561902	1.090556667	2.129561902	Up	0.004166982	0.245180458
123606	NIPA1	Non imprinted in Prader-Willi/Angelman syndrome 1	7.643555	7.3335	7.340557	6.3737	6.328447	6.0811	-2.262811905	-1.178116667	2.262811905	Down	0.000884224	0.181040924
582	BBS1	Bardet-Biedl syndrome 1	8.033552	7.945516	8.127728	6.786627	6.529222	7.031511	-2.383343122	-1.252986667	2.383343122	Down	0.000755823	0.175769357
5355	PLP2	Proteolipid protein 2 (colonic	7.57	7.32	7.17	8.04	9.14	8.07	2.0870	1.0614	2.087	Up	0.017	0.362

		epithelium-enriched)	766	313	722	045	693	499	32886	53333	032886		990067	487638
10891	PPARGC1A	Peroxisome proliferator-activated receptor γ, coactivator 1 α	6.56868	6.37334	6.5076	5.71049	5.42837	3.64886	-2.93623343	-1.553966667	2.936233343	Down	0.021123888	0.372540654
6035	RNASE1	Ribonuclease, rnase A family, 1 (pancreatic)	11.86701	12.0681	11.58814	7.33756	9.45881	9.02832	-9.401254832	-3.232853333	9.401254832	Down	0.000543257	0.164531093
3146	HMGB1	High mobility group box 1	6.46867	6.11683	6.36068	7.24126	8.27316	7.48406	2.55047625	1.350766667	2.55047625	Up	0.003441408	0.237146666
3172	HNF4A	Hepatocyte nuclear factor 4, α	6.38044	6.80427	7.85574	8.51785	8.7933	7.55607	2.420978052	1.27559	2.420978052	Up	0.031873362	0.403012098
728226	GGTLC3	Γ-glutamyltransferase light chain 3	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.23859853
23654	PLXNB2	Plexin B2	10.92635	10.05873	9.85906	8.99293	8.92649	9.47106	-2.22101633	-1.15122	2.22101633	Down	0.011250047	0.324854465
8329	HIST1H2AI	Histone cluster 1, h2ai	4.40129	3.07578	4.00122	7.16327	6.98146	5.71565	6.935644729	2.79403	6.935644729	Up	0.000741761	0.173732248
285513	GPRIN3	GPRIN family member 3	4.18034	3.59416	3.31549	5.80145	5.02294	4.23061	2.499552796	1.32167	2.499552796	Up	0.017190554	0.360012938
42	CIITA	Class II, major	5.	4.	5.	3.	4.	4.	-2.	-1.	2.3	D	0.0	0.3

61		histocompatibility complex, transactivator	84291	92401	72211	51534	84774	36567	384070116	253426667	84070116	own	17402627	60389823
84818	IL17RC	Interleukin 17 receptor C	8.16985	8.46092	8.53021	6.99092	7.05018	7.91126	-2.098764074	-1.06954	2.098764074	Down	0.009970699	0.316695318
283375	SLC39A5	Solute carrier family 39 (zinc transporter), member 5	6.73982	6.25316	6.32724	8.27773	7.60155	6.70109	2.123901215	1.086716667	2.123901215	Up	0.033113393	0.406315059
23428	SLC7A8	Solute carrier family 7 (amino acid transporter light chain, L system), member 8	6.73749	9.30585	8.54974	6.46171	7.08793	5.15437	-3.89878158	-1.963023333	3.89878158	Down	0.034170554	0.408273555
4312	MMP1	Matrix metallopeptidase 1	5.54526	6.62785	8.97191	2.78101	5.9215	3.22258	-8.417022652	-3.07331	8.417022652	Down	0.025582037	0.38482703
29760	BLNK	B-cell linker	6.36268	5.17316	5.7131	7.42832	7.20657	6.4563	2.429652521	1.28075	2.429652521	Up	0.013556609	0.342678485
135112	NCOA7	Nuclear receptor coactivator 7	5.31096	4.4848	5.25519	5.2653	7.64925	7.72546	3.637683436	1.86302	3.637683436	Up	0.027710834	0.391408015
728841	NBPF8	Neuroblastoma breakpoint family member 8	6.53963	6.63459	6.4174	7.40056	7.69658	7.70662	2.100471678	1.070713333	2.100471678	Up	0.001292319	0.187107818
353091	RAET1G	Retinoic acid early transcript 1G	5.41502	5.18697	4.64681	6.32896	5.96492	7.31171	2.736370028	1.452263333	2.736370028	Up	0.007987247	0.299139554

1282	COL4A1	Collagen, type IV, α 1	7.83442	7.11517	7.43233	8.95892	10.09358	8.16044	3.05323789	1.61034	3.05323789	Up	0.013690736	0.343500698
171177	RHOV	Ras homolog family member V	3.87304	4.06875	4.13732	5.23804	4.22597	5.6922	2.035946992	1.0257	2.035946992	Up	0.027987458	0.392002337
11098	PRSS23	Protease, serine 23	8.47042	9.42572	8.20948	6.33418	8.24251	6.77771	-2.997458958	-1.58374	2.997458958	Down	0.02438126	0.382664012
664	BNIP3	BCL2/adenovirus E1B 19kda interacting protein 3	7.3651	7.47063	7.07189	3.84333	5.6193	5.37383	-5.123228837	-2.357053333	5.123228837	Down	0.001558672	0.187107818
3872	KRT17	Keratin 17, type I	5.27672	5.76972	5.0041	10.08662	5.67799	10.74934	11.21846461	3.487803333	11.21846461	Up	0.025881794	0.385401082
23281	MTUS2	Microtubule associated tumor suppressor candidate 2	5.33393	4.65271	4.51909	3.20961	3.27082	4.25753	-2.388199459	-1.255923333	2.388199459	Down	0.00968387	0.313660293
81671	VMP1	Vacuole membrane protein 1	10.35736	8.72939	8.29673	9.88904	11.27332	11.74719	3.585124782	1.842023333	3.585124782	Up	0.027739772	0.391448674
445329	SULT1A4	Sulfotransferase family 1A member 4	6.47722	6.93547	6.66106	7.80233	8.02899	7.66662	2.205944764	1.141396667	2.205944764	Up	0.001523801	0.187107818
387103	CENPW	Centromere protein W	5.84319	5.21329	5.65403	6.3871	7.08305	6.90926	2.3342627	1.22966667	2.3342622	Up	0.0033937	0.2371466

											7		44	6
6477	SIAH1	Siah E3 ubiquitin protein ligase 1	4.58418	4.7388	4.56139	6.24701	6.04651	5.10085	2.250116969	1.17	2.250116969	Up	0.008444201	0.306035714
54492	NEURL1B	Neuralized E3 ubiquitin protein ligase 1B	4.08591	4.12419	4.25589	4.75397	6.61576	5.26503	2.620042111	1.38959	2.620042111	Up	0.018655857	0.365231869
5634	PRPS2	Phosphoribosyl pyrophosphate synthetase 2	6.97498	7.36954	7.20952	8.14989	8.86573	7.79048	2.119934955	1.08402	2.119934955	Up	0.011127243	0.324611979
57187	THOC2	THO complex 2	3.36867	4.04504	4.04453	5.06202	5.73657	4.28403	2.310374408	1.208126667	2.310374408	Up	0.018408028	0.364586001
10054	UBA2	Ubiquitin-like modifier activating enzyme 2	3.82365	4.03124	3.76623	4.41661	5.41383	5.20237	2.199582937	1.13723	2.199582937	Up	0.005382993	0.269321526
64225	ATL2	Atlastin gtpase 2	4.20706	5.35591	4.78693	5.6473	5.87698	5.99056	2.077689404	1.05498	2.077689404	Up	0.012505006	0.334466731
4258	MGST2	Microsomal glutathione S-transferase 2	10.54746	9.37474	10.01392	9.50782	8.3177	8.49265	-2.306944559	-1.205983333	2.306944559	Down	0.002523967	0.383712762
57167	SALL4	Spalt-like transcription factor 4	4.92408	4.8079	4.93756	5.87173	5.31663	7.64018	2.614134431	1.386333333	2.614134431	Up	0.043323315	0.432330901
254958	REXO1L1P	REX1, RNA exonuclease 1 homolog-like 1,	5.5570	5.0013	5.1174	5.5153	7.1376	6.2746	2.1197929	1.0839233	2.11979	Up	0.03637	0.41381

		pseudogene	2	9	2		5	5	15	33	2915		982	6934
64151	NCAPG	Non-SMC condensin I complex subunit G	6.51032	5.92159	6.32711	7.96765	8.37555	7.20813	3.026051764	1.597436667	3.026051764	Up	0.002474017	0.217696767
79905	TMC7	Transmembrane channel like 7	5.55381	5.00453	5.82992	8.9745	7.19117	8.06748	6.12607629	2.614963333	6.12607629	Up	0.000878344	0.181040924
2331	FMOD	Fibromodulin	8.35253	11.36462	9.74534	4.93624	7.8604	8.06871	-7.288961769	-2.865713333	7.288961769	Down	0.027534639	0.390330489
22996	TTC39A	Tetratricopeptide repeat domain 39A	6.74091	6.56018	6.979	5.65856	5.9568	4.94766	-2.360386862	-1.239023333	2.360386862	Down	0.004954364	0.263349733
2146	EZH2	Enhancer of zeste 2 polycomb repressive complex 2 subunit	5.29688	4.59287	5.2227	6.67305	7.05619	5.61795	2.660283503	1.41158	2.660283503	Up	0.010888109	0.323878416
6252	RTN1	Reticulon 1	8.12126	6.68127	7.5186	3.92709	5.19633	5.3702	-6.101525544	-2.60917	6.101525544	Down	0.00131391	0.187107818
9837	GINS1	GINS complex subunit 1 (Psf1 homolog)	5.083	4.63825	4.86215	6.47352	7.24346	6.12991	3.374085814	1.754496667	3.374085814	Up	0.001002114	0.186147992
254428	SLC41A1	Solute carrier family 41 (magnesium transporter), member 1	6.33129	7.57048	7.13817	5.76953	5.29713	5.85042	-2.592396995	-1.374286667	2.592396995	Down	0.006347288	0.283732496
1577	FAM91A1	Family with sequence	4.23	4.21	4.29	5.33	6.13	4.76	2.2338	1.1595	2.233	Up	0.012	0.334

69		similarity 91 member A1	835	774	613	018	941	124	5674	36667	85674		407029	466731
11051	NUDT21	Nudix hydrolase 21	4.40789	4.00981	4.54899	5.52776	6.02019	4.77426	2.171221131	1.118506667	2.171221131	Up	0.014197569	0.346797053
90701	SEC11C	SEC11 homolog C, signal peptidase complex subunit	8.48908	10.14391	9.24759	8.63441	7.83449	6.66256	-2.996004935	-1.58304	2.996004935	Down	0.033053333	0.406215967
66035	SLC2A11	Solute carrier family 2 (facilitated glucose transporter), member 11	5.25093	5.71965	5.31928	5.14198	4.19577	3.78545	-2.07851525	-1.055553333	2.07851525	Down	0.023432309	0.380861411
4354	MPP1	Membrane protein, palmitoylated 1	5.58629	4.7104	4.99777	2.49541	5.06593	2.94564	-3.022676674	-1.595826667	3.022676674	Down	0.044461586	0.435289864
9061	PAPSS1	3’-phosphoadenosine 5’-phosphosulfate synthase 1	8.40649	10.07597	9.12874	7.76652	8.30762	8.1753	-2.174353738	-1.120586667	2.174353738	Down	0.035362165	0.410045787
5480	PPIC	Peptidylprolyl isomerase C (cyclophilin C)	5.5573	5.34467	5.16579	6.01503	6.6632	6.9177	2.25958318	1.176056667	2.25958318	Up	0.004605551	0.254416312
155465	AGR3	Anterior gradient 3, protein disulphide isomerase family member	5.64487	5.34294	5.33845	8.80797	8.65038	6.51934	5.85827804	2.550476667	5.85827804	Up	0.003718217	0.23859853
8542	APOL1	Apolipoprotein L1	8.41367	8.66279	8.83772	7.99896	7.6575	6.78612	-2.230241593	-1.1572	2.230241593	Down	0.012257729	0.333395391
79	BEND	BEN domain	6.	5.	6.	5.	5.	5.	-2.	-1.	2.0	D	0.0	0.2

656	5	containing 5	59788	82755	10217	04876	01301	42644	018285125	01313	18285125	own	06875319	88459719
114609	TIRAP	Toll-interleukin 1 receptor (TIR) domain containing adaptor protein	6.175592	6.3985	6.58142	5.48848	4.8831	5.36792	-2.20194739	-1.13878	2.20194739	Down	0.002411644	0.21553168
102723462	LOC102723462	Uncharacterized LOC102723462	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
4897	NRCAM	Neuronal cell adhesion molecule	7.0354	6.86818	7.59536	4.31608	4.94788	4.04449	-6.635307534	-2.730163333	6.635307534	Down	6.21298E-05	0.115587966
554236	DPY19L2P1	DPY19L2 pseudogene 1	4.65206	3.31092	3.19819	4.85363	5.39534	5.51771	2.898225801	1.53517	2.898225801	Up	0.008070957	0.299139554
84419	C15orf48	Chromosome 15 open reading frame 48	4.745546	4.74792	5.03685	5.6455	10.3094	7.15939	7.266966891	2.861353333	7.266966891	Up	0.031186816	0.400466753
11132	CAPN10	Calpain 10	3.600012	3.9712	4.20731	5.34201	5.22357	4.66522	2.220251847	1.150723333	2.220251847	Up	0.00319056	0.234239382
54665	RSBN1	Round spermatid basic protein 1	4.88629	5.24612	5.18443	6.49861	6.27479	5.61296	2.032384453	1.023173333	2.032384453	Up	0.008559607	0.307296395
5962	RDX	Radixin	7.020066	6.5212	6.12281	4.90587	6.29778	5.13585	-2.15604905	-1.10839	2.156049055	Down	0.03470713	0.408423981

100113393	SNORD12B	Small nucleolar RNA, C/D box 12B	4.14084	3.6744	3.91184	4.76666	4.38766	6.61438	2.544190444	1.347206667	2.544190444	Up	0.046178699	0.439638311
11001	SLC27A2	Solute carrier family 27 (fatty acid transporter), member 2	5.90361	4.54743	4.60748	6.70221	7.45584	5.33622	2.786749516	1.478583333	2.786749516	Up	0.045090639	0.436078937
56667	MUC13	Mucin 13, cell surface associated	7.8298	7.27881	7.05255	7.89636	8.38773	8.98213	2.049142053	1.03502	2.049142053	Up	0.021323445	0.373026178
6715	SRD5A1	Steroid-5-α-reductase, α polypeptide 1 (3-oxo-5 α-steroid Δ 4-dehydrogenase α 1)	3.89286	3.72647	3.74285	5.024	5.57044	4.02861	2.124254567	1.086956667	2.124254567	Up	0.024071193	0.381896949
2286	FKBP2	FK506 binding protein 2	8.22249	8.9038	8.20027	7.28882	7.32087	7.50877	-2.098511933	-1.069366667	2.098511933	Down	0.004679701	0.256554706
10468	FST	Follistatin	6.41395	6.94683	7.38565	5.74398	5.37272	5.92861	-2.351704296	-1.233706667	2.351704296	Down	0.005213631	0.266845614
7448	VTN	Vitronectin	11.85274	8.86273	9.45855	5.41674	7.65989	5.92183	-13.22491612	-3.725186667	13.22491612	Down	0.004072456	0.24425172
10497	UNC13B	Unc-13 homolog B (C. Elegans)	6.83918	7.56269	7.62566	5.58896	5.70128	5.02091	-3.746283293	-1.90546	3.746283293	Down	0.000486797	0.164248294
5034	P4HB	Prolyl 4-hydroxylase, β polypeptide	10.756	11.831	11.480	10.742	10.405	9.7037	-2.102996	-1.072446	2.10299	Dow	0.02623	0.38731

			39	49	94	61	09	8	817	667	6817	n	125	2442
24146	CLDN15	Claudin 15	5.23321	5.56035	5.6816	7.2733	7.85422	5.48185	2.599204236	1.37807	2.599204236	Up	0.049893289	0.446672981
723790	HIST2H2AA4	Histone cluster 2, h2aa4	10.47523	9.12074	9.52914	11.07825	11.23459	10.41847	2.300690099	1.202066667	2.300690099	Up	0.020749162	0.371737766
1471	CST3	Cystatin C	11.71456	11.33627	11.7597	10.9147	10.1843	10.43449	-2.13220576	-1.092346667	2.13220576	Down	0.004505076	0.253494423
29127	RACGAP1	Rac gtpase activating protein 1	6.09867	5.56049	5.95767	6.48789	7.87875	6.55694	2.146892569	1.10225	2.146892569	Up	0.031025281	0.399785461
259	AMBP	A-1-microglobulin /bikunin precursor	11.46192	6.97832	7.30059	6.59223	5.66655	5.24908	-6.700753489	-2.744323333	6.700753489	Down	0.049147914	0.44617148
4179	CD46	CD46 molecule, complement regulatory protein	6.88708	6.84825	7.03413	8.48444	8.84663	8.04756	2.900677692	1.53639	2.900677692	Up	0.000605528	0.167782685
100533496	TVP23C-CDRT4	TVP23C-CDRT4 readthrough	6.2623	7.6214	7.62444	5.80811	5.56614	6.2424	-2.457452163	-1.297163333	2.457452163	Down	0.017558715	0.361123337
160335	TMTC2	Transmembrane and tetratricopeptide repeat containing 2	6.2796	6.73309	6.24076	5.26093	5.34149	5.58751	-2.029568922	-1.021173333	2.029568922	Down	0.003041671	0.234003889
6526	SLC5A3	Solute carrier family 5	3.90	3.81	3.81	6.14	5.11	4.30	2.5296	1.3389	2.529	Up	0.018	0.363

		(sodium/myo-inositol cotransporter), member 3	805	96	161	2	189	223	77256	53333	677256		062636	058266
79853	TM4SF20	Transmembrane 4 L six family member 20	3.95205	3.73725	3.65284	5.9351	7.81276	5.29199	5.921256429	2.565903333	5.921256429	Up	0.003843685	0.238907274
55701	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40	6.8562	6.95002	7.53392	6.84006	5.5889	5.69664	-2.10163675	-1.071513333	2.10163675	Down	0.028984691	0.394072962
3157	HMGCS1	3-hydroxy-3-methylglutaryl-coa synthase 1	5.16111	3.90118	4.12982	4.79237	5.68318	5.90358	2.08831595	1.06234	2.08831595	Up	0.041503901	0.427916625
3918	LAMC2	Laminin subunit γ 2	5.9852	5.13681	5.57942	6.74871	7.25207	9.14518	4.432672166	2.148176667	4.432672166	Up	0.010095634	0.318009244
57678	GPAM	Glycerol-3-phosphate acyltransferase, mitochondrial	6.67115	7.33119	5.99032	5.18538	5.37361	5.29063	-2.60451245	-1.381013333	2.60451245	Down	0.005504597	0.269835764
353497	POLN	Polymerase (DNA directed) nu	5.0535	5.88572	5.27035	3.81935	4.31728	4.11241	-2.496966848	-1.320176667	2.496966848	Down	0.001933288	0.198675021
1968	EIF2S3	Eukaryotic translation initiation factor 2 subunit γ	7.79363	7.48226	7.7268	8.91889	9.27964	8.10425	2.143591499	1.10003	2.143591499	Up	0.012882033	0.336174155
100133161	LINC01001	Long intergenic non-protein coding RNA 1001	8.03359	8.30848	7.49201	5.71049	6.09297	7.81824	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
11	MID2	Midline 2	7.	5.	6.	4.	5.	5.	-2.	-1.	2.9	D	0.0	0.3

043			46266	42168	9436	57696	33965	28652	911178564	541603333	11178564	own	23440079	80861411
5265	SERPINA1	Serpin peptidase inhibitor, clade A (α-1 antiproteinase, antitrypsin), member 1	9.41071	12.34836	12.57929	7.21681	8.82586	10.20057	-6.490696657	-2.698373333	6.490696657	Down	0.034867297	0.408428141
1017	CDK2	Cyclin-dependent kinase 2	6.8766	6.86566	7.20007	9.10696	8.15328	7.44403	2.384984682	1.25398	2.384984682	Up	0.020349021	0.371132699
3073	HEXA	Hexosaminidase A (α polypeptide)	9.12544	8.85064	8.71036	7.20119	7.62367	8.79708	-2.030028526	-1.0215	2.030028526	Down	0.044840923	0.435527714
729171	ANKRD20A8P	Ankyrin repeat domain 20 family member A8, pseudogene	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
53905	DUOX1	Dual oxidase 1	5.52091	5.93145	7.72875	4.52114	4.42029	5.543	-2.959923727	-1.56556	2.959923727	Down	0.037312476	0.416343848
1058	CENPA	Centromere protein A	4.39715	4.29433	4.46276	5.76899	5.90676	4.73894	2.124048438	1.086816667	2.124048438	Up	0.013040728	0.336174155
165545	DQX1	DEAQ box RNA-dependent atpase 1	4.61226	5.0957	5.79315	8.05274	6.6973	5.43892	2.953891155	1.562616667	2.953891155	Up	0.048876704	0.44617448
10161	LPAR6	Lysophosphatidic acid receptor 6	7.61877	7.84508	6.97166	6.91238	6.05101	6.0172	-2.22166301	-1.15164	2.22166301	Down	0.013666694	0.34350506

											1		47	98
84304	NUDT22	Nudix hydrolase 22	6.36053	6.12302	6.19424	4.37776	5.23262	5.05661	-2.526137789	-1.336933333	2.526137789	Down	0.001733074	0.191049866
161	AP2A2	Adaptor-related protein complex 2, α 2 subunit	8.27253	7.94292	8.10318	6.60297	6.9495	6.59368	-2.622288953	-1.390826667	2.622288953	Down	0.000391888	0.160901541
81618	ITM2C	Integral membrane protein 2C	6.58731	8.18084	7.53752	9.69112	9.65812	9.63491	4.678869531	2.22616	4.678869531	Up	0.000849804	0.181040924
23500	DAAM2	Dishevelled associated activator of morphogenesis 2	4.52815	7.56553	7.35205	4.10065	5.15415	4.08053	-4.103343698	-2.0368	4.103343698	Down	0.040479183	0.425930838
10507	SEMA4D	Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	6.62737	6.45357	6.37256	5.9149	5.01462	5.41042	-2.053170352	-1.037853333	2.053170352	Down	0.006990823	0.288964472
7172	TPMT	Thiopurine S-methyltransferase	5.09758	5.34075	5.29125	6.34483	7.41791	5.6486	2.341208357	1.227253333	2.341208357	Up	0.025793494	0.385334454
101059935	LOC101059935	Coiled-coil domain-containing protein 29-like	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
5067	CNTN3	Contactin 3 (plasmacytoma associated)	6.75509	6.98584	7.19012	5.59101	4.12204	5.41042	-3.826061331	-1.93586	3.826061331	Down	0.002119703	0.20703367

585516	FAM60A	Family with sequence similarity 60 member A	6.06866	5.61907	5.91704	7.74069	7.44744	6.11092	2.347990655	1.231426667	2.347990655	Up	0.025601637	0.384827703
100288114	LOC100288114	Uncharacterized LOC100288114	7.52503	7.83967	8.09468	4.39715	6.59936	5.51952	-4.974149952	-2.31445	4.974149952	Down	0.003429735	0.237146666
8763	CD164	CD164 molecule, sialomucin	9.90493	9.50123	9.63286	8.17174	8.8069	8.44164	-2.307365681	-1.206246667	2.307365681	Down	0.001934261	0.198675021
54798	DCHS2	Dachsous cadherin-related 2	5.62715	6.32232	6.95127	4.06258	4.50298	4.0757	-4.24714491	-2.086493333	4.24714491	Down	0.000639336	0.172631847
129642	MBOAT2	Membrane bound O-acyltransferase domain containing 2	4.603166	4.21945	5.05238	5.77654	6.77842	6.98338	3.700661898	1.877833333	3.700661898	Up	0.001691295	0.189877031
100528019	HSPB2-c11orf52	HSPB2-c11orf52 readthrough (NMD candidate)	6.60859	6.14756	6.22978	4.51208	4.94788	5.35582	-2.620877639	-1.39005	2.620877639	Down	0.001626558	0.188011853
2764	GMFB	Glia maturation factor, β	4.60858	4.33574	4.74421	5.08497	6.30654	6.15214	2.436888091	1.28504	2.436888091	Up	0.008154039	0.301105984
56938	ARNTL2	Aryl hydrocarbon receptor nuclear translocator like 2	4.4231	4.10668	4.48492	5.57393	6.27047	5.15098	2.508618926	1.326893333	2.508618926	Up	0.003894146	0.239969073
375298	CERKL	Ceramide kinase like	5.16529	3.88901	4.48319	6.51701	5.53899	4.97293	2.240488518	1.163813333	2.24048885	Up	0.00440893	0.4340231

											18		42	21
2160	F11	Coagulation factor XI	5.81693	5.37114	6.38658	4.15446	4.05985	2.74349	-4.612716629	-2.205616667	4.612716629	Down	0.00164724	0.188175466
9788	MTSS1	Metastasis suppressor 1	7.146678	8.28189	8.59484	7.1619	6.45405	6.69878	-2.355870112	-1.23626	2.355870112	Down	0.0020473902	0.371132699
949	SCARB1	Scavenger receptor class B, member 1	8.05312	7.3541	7.50575	6.29114	6.57032	6.43603	-2.305628382	-1.20516	2.305628382	Down	0.002110487	0.206943289
10299	MARCH6	Membrane associated ring-CH-type finger 6	5.13257	5.31309	5.27277	6.25654	6.55422	5.98024	2.033817179	1.02419	2.033817179	Up	0.002568098	0.221485665
8451	CUL4A	Cullin 4A	4.19892	4.60748	4.3857	5.24725	6.20891	5.16595	2.208913105	1.143336667	2.208913105	Up	0.008874351	0.308521975
150696	PROM2	Prominin 2	9.21658	8.84412	9.33839	9.1636	7.11172	6.9472	-2.624768163	-1.39219	2.624768163	Down	0.048864654	0.4461748
132671	SPATA18	Spermatogenesis associated 18	7.3008	8.01213	8.26803	7.48219	5.93222	5.49044	-2.945889535	-1.558703333	2.945889535	Down	0.023937834	0.381896949
196	AHR	Aryl hydrocarbon receptor	4.90872	3.91851	4.819	6.64946	6.26407	5.46295	2.982971099	1.57675	2.982971099	Up	0.005557991	0.271431426
10482	NXF1	Nuclear RNA export factor 1	9.2274	9.3722	9.0993	8.1184	8.3160	8.0969	-2.079014	-1.0559	2.07901	Dow	0.00126	0.18710

			2	9	8	3	3	3	759		4759	n	7801	7818
1490	CTGF	Connective tissue growth factor	4.7067	5.07122	3.66296	6.29129	8.97437	7.28203	8.199883049	3.035603333	8.199883049	Up	0.003486591	0.23714666
4288	MKI67	Marker of proliferation Ki-67	4.42682	3.40215	3.59575	6.14347	7.0301	4.85744	4.601475881	2.202096667	4.601475881	Up	0.005799558	0.2760788898
57211	ADGRG6	Adhesion G protein-coupled receptor G6	4.89635	4.59838	4.70007	4.85984	6.98713	6.77018	2.778134922	1.474116667	2.778134922	Up	0.031096784	0.399917784
761	CA3	Carbonic anhydrase III	3.96079	4.30877	4.1057	2.26147	4.08679	2.75159	-2.131402902	-1.091803333	2.131402902	Down	0.043610932	0.432445564
64764	CREB3L2	Camp responsive element binding protein 3-like 2	8.10777	8.15116	8.03564	6.71509	7.61061	6.27044	-2.350243114	-1.23281	2.350243114	Down	0.010290304	0.318688822
5053	PAH	Phenylalanine hydroxylase	10.69149	9.23449	10.09593	3.25013	6.07039	4.13425	-45.96232904	-5.52238	45.96232904	Down	0.000140714	0.127849829
116028	RMI2	Recq mediated genome instability 2	4.48931	4.64766	4.77543	5.9335	5.90967	5.66113	2.293101159	1.1973	2.293101159	Up	0.000489097	0.164248294
79625	NDNF	Neuron-derived neurotrophic factor	7.18976	7.65204	7.44473	4.11993	7.11746	5.09031	-3.962131236	-1.986276667	3.962131236	Down	0.025827938	0.385359731
2288	KIAA0907	KIAA0907	6.01	6.74	6.40	8.31	6.89	7.72	2.3862	1.2547	2.386	Up	0.016	0.353

9			751	828	279	563	223	503	91024	7	291024		291294	909069
55151	TMEM38B	Transmembrane protein 38B	4.64192	3.50263	3.45325	4.80277	5.39603	4.66837	2.128430526	1.08979	2.128430526	Up	0.022867988	0.380021022
5885	RAD21	RAD21 cohesin complex component	5.244456	4.498869	4.913442	5.931922	6.873887	5.162955	2.149533111	1.104023333	2.149533111	Up	0.042809411	0.43207881
4005	LMO2	LIM domain only 2	6.8876	6.00659	7.04715	5.06918	6.10599	5.41367	-2.16970665	-1.1175	2.16970665	Down	0.022824126	0.379921168
81502	HM13	Histocompatibility (minor) 13	5.177735	6.498881	5.913777	4.655592	4.840177	4.483877	-2.302694999	-1.203323333	2.302694999	Down	0.010569373	0.322736969
200030	NBPF11	Neuroblastoma breakpoint family member 11	6.539963	6.634559	6.4174	7.40056	7.69658	7.70662	2.100471678	1.070713333	2.100471678	Up	0.001292319	0.187107818
3400	ID4	Inhibitor of DNA binding 4, dominant negative helix-loop-helix protein	5.42182	7.08997	5.58998	3.14336	4.93606	2.50638	-5.677765769	-2.505323333	5.677765769	Down	0.009332272	0.311852138
4175	MCM6	Minichromosome maintenance complex component 6	5.55499	5.09642	5.19416	6.69839	7.51594	5.8986	2.680409329	1.422453333	2.680409329	Up	0.010848452	0.323878416
6095	RORA	RAR-related orphan receptor A	6.87612	6.83116	6.77519	4.78316	6.4308	5.74561	-2.256833521	-1.1743	2.256833521	Down	0.02375798	0.381268997
11	OSBP	Oxysterol binding	5.	8.	7.	4.	5.	4.	-4.	-2.	4.3	D	0.0	0.2

4880	L6	protein like 6	84054	04772	3712	98507	05561	89835	307378194	10681	07378194	own	05430718	69321526
3775	KCNK1	Potassium channel, two pore domain subfamily K, member 1	4.36708	4.00354	4.61401	5.9203	5.46195	5.3451	2.374417012	1.247573333	2.374417012	Up	0.001727623	0.191049866
10631	POSTN	Periostin, osteoblast specific factor	5.2848	4.46678	3.84988	5.45413	11.18064	6.85901	9.831693903	3.29744	9.831693903	Up	0.045984381	0.439253047
5314	PKHD1	Polycystic kidney and hepatic disease 1 (autosomal recessive)	6.73918	6.47693	6.06524	4.67314	4.72623	5.32662	-2.864837549	-1.518453333	2.864837549	Down	0.001052427	0.18614792
3696	ITGB8	Integrin β 8	5.11798	3.68903	3.59937	6.75505	5.13749	5.15051	2.919166837	1.545556667	2.919166837	Up	0.032043087	0.403671192
5795	PTPRJ	Protein tyrosine phosphatase, receptor type, J	6.26725	5.88775	5.92668	4.3783	5.32954	5.22133	-2.071730965	-1.050836667	2.071730965	Down	0.010547215	0.322432832
56605	ERO1B	Endoplasmic reticulum oxidoreductase β	5.89718	5.80532	5.49895	3.79418	4.47307	4.76373	-2.621071422	-1.390156667	2.621071422	Down	0.002058838	0.204154168
873	CBR1	Carbonyl reductase 1	4.54729	5.29076	6.03457	4.0837	4.01949	3.53415	-2.660615438	-1.41176	2.660615438	Down	0.008268411	0.303322599
100303453	TSNAX-DISC1	TSNAX-DISC1 readthrough (NMD candidate)	6.23028	6.25337	6.36517	4.51181	5.372	5.70057	-2.126007471	-1.088146667	2.126007471	Down	0.012450484	0.334466731

23600	AMACR	A-methylacyl-coa racemase	6.62888	7.90192	8.15961	7.05714	6.28869	5.00313	-2.726688699	-1.44715	2.726688699	Down	0.049423973	0.44617148
10059	DNM1L	Dynamin 1-like	6.10446	6.05543	5.95484	7.42232	7.16608	6.62493	2.046085832	1.032866667	2.046085832	Up	0.005344405	0.269321526
8968	HIST1H3F	Histone cluster 1, h3f	7.51267	6.70604	7.00589	7.80547	8.82491	7.94361	2.16814814	1.116463333	2.16814814	Up	0.016284617	0.353909069
3672	ITGA1	Integrin α 1	4.60435	5.03875	4.4053	5.39165	6.74465	5.15242	2.11419239	1.080106667	2.11419239	Up	0.043304662	0.432330901
54602	NDFIP2	Nedd4 family interacting protein 2	4.80342	4.90819	4.74532	5.66132	6.92723	5.52985	2.330258492	1.2049	2.330258492	Up	0.015521094	0.350533052
360	AQP3	Aquaporin 3 (Gill blood group)	9.04403	10.95664	10.3903	9.00108	7.28715	8.33491	-3.791082888	-1.92261	3.791082888	Down	0.015523492	0.350533052
7068	THRB	Thyroid hormone receptor, β	6.07488	6.0933	6.0933	7.85574	7.17674	6.94151	2.357901306	1.237503333	2.357901306	Up	0.003055096	0.234003889
100288413	ERVMER34-1	Endogenous retrovirus group MER34, member 1	4.03881	7.53479	7.19506	3.28364	3.76005	4.12522	-5.788742569	-2.53325	5.788742569	Down	0.024138669	0.382496957
9603	NFE2L3	Nuclear factor, erythroid 2 like 3	4.94817	5.1098	5.07456	6.84563	7.47539	6.75083	3.944311065	1.979773333	3.9443110	Up	0.0001117	0.1278498

											65		56	29
7204	TRIO	Trio Rho guanine nucleotide exchange factor	3.98574	3.80589	3.52127	4.47389	5.56431	5.03009	2.381378044	1.251796667	2.381378044	Up	0.00450752	0.2534944423
100507387	LOC100507387	Uncharacterized LOC100507387	6.87689	6.80655	6.70389	3.93424	3.95251	5.88338	-4.613089661	-2.205733333	4.613089661	Down	0.004083177	0.24425172
105369243	LOC105369243	Sulfotransferase 1A3-like	6.47722	6.93547	6.66106	7.80233	8.02899	7.66662	2.205944764	1.141396667	2.205944764	Up	0.001523801	0.187107818
126661	CCDC163P	Coiled-coil domain containing 163, pseudogene	4.46286	5.29603	4.97171	4.00726	3.91357	3.75183	-2.026953979	-1.019313333	2.026953979	Down	0.004584442	0.254416312
3397	ID1	Inhibitor of DNA binding 1, dominant negative helix-loop-helix protein	9.99662	11.14364	10.82225	8.36135	7.32272	9.49756	-4.790888818	-2.260293333	4.790888818	Down	0.005720208	0.274205509
79646	PANK3	Pantothenate kinase 3	5.88686	5.50905	5.70967	7.4072	6.3663	6.5972	2.126341521	1.088373333	2.126341521	Up	0.010433606	0.320716398
340542	BEX5	Brain expressed X-linked 5	5.29114	5.26879	5.66041	4.73908	3.79365	3.90473	-2.396551595	-1.26096	2.396551595	Down	0.003811557	0.238907274
23022	PALLD	Palladin, cytoskeletal associated protein	7.53703	7.34202	6.72836	8.17361	10.58919	8.44523	3.647412441	1.866873333	3.647412441	Up	0.00222394	0.378428199
10826	FAXDC2	Fatty acid hydroxylase domain containing	7.3644	7.9015	8.0161	5.7255	6.8043	7.4201	-2.159469	-1.110676	2.15946	Dow	0.04201	0.43007

		2	2	2	5	4	4	8	09	667	909	n	7809	4346
7259	TSPYL1	TSPY-like 1	9.77981	9.99347	9.83189	8.36068	8.53129	9.11365	-2.297157857	-1.19985	2.297157857	Down	0.002420269	0.21553168
2192	FBLN1	Fibulin 1	5.37951	5.68268	4.54362	5.58677	9.2606	7.62183	4.883097779	2.287796667	4.883097779	Up	0.033828526	0.408239828
104326056	ZNF511-PRAP1	ZNF511-PRAP1 readthrough	7.06452	6.77757	6.21076	8.90881	9.57538	6.77727	3.331572602	1.736203333	3.331572602	Up	0.041233147	0.426961048
333	APLP1	Amyloid β (A4) precursor-like protein 1	6.67212	6.62688	5.55263	3.94937	3.28878	5.02807	-4.579330422	-2.195136667	4.579330422	Down	0.003442753	0.23714666
54464	XRN1	5’-3’ exoribonuclease 1	4.61685	3.88983	4.12126	4.98519	5.80045	5.17986	2.16223001	1.11252	2.16223001	Up	0.007315602	0.292186683
80303	EFHD1	EF-hand domain family member D1	4.26726	5.00527	4.53631	2.79605	4.15887	3.02144	-2.424174132	-1.277493333	2.424174132	Down	0.013498208	0.342220292
11012	KLK11	Kallikrein related peptidase 11	9.46671	8.57418	8.78603	8.52419	5.02236	4.67824	-7.297370313	-2.867376667	7.297370313	Down	0.021781914	0.377156614
25782	RAB3GAP2	RAB3 gtpase activating non-catalytic protein subunit 2	4.22843	4.39756	4.30843	5.26475	5.97383	5.00888	2.150014913	1.104346667	2.150014913	Up	0.005395236	0.269321526
9156	EXO1	Exonuclease 1	4.49	4.60	4.83	6.04	5.68	5.49	2.1333	1.0931	2.133	Up	0.001	0.192

			856	766	457	057	412	543	34214	1	334214		806469	633939
5592	PRKG1	Protein kinase, cgmp-dependent, type I	6.109991	5.77596	6.14336	8.01995	8.63975	8.35309	5.020577539	2.327853333	5.020577539	Up	3.32583E-05	0.096052942
64078	SLC28A3	Solute carrier family 28 (concentrative nucleoside transporter), member 3	4.704855	8.035559	9.541677	4.034557	5.29519	4.4071	-7.202095185	-2.848416667	7.202095185	Down	0.040967051	0.426767827
4774	NFIA	Nuclear factor I/A	9.06018	9.28942	9.50796	8.1185	8.30848	7.92097	-2.249914222	-1.16987	2.249914222	Down	0.00135223	0.187107818
3081	HGD	Homogentisate 1,2-dioxygenase	8.62348	7.05742	7.68337	6.0322	5.61979	6.05943	-3.691694918	-1.884283333	3.691694918	Down	0.002450076	0.217255334
54443	ANLN	Anillin actin binding protein	4.592	3.92535	4.44042	5.56733	7.23304	5.5489	3.475370208	1.797166667	3.475370208	Up	0.007554103	0.295713358
100288152	LOC100288152	Uncharacterized LOC100288152	6.7783	8.04182	6.5075	6.37457	5.33811	5.21663	-2.762746772	-1.466103333	2.762746772	Down	0.020494979	0.371132699
5427	POLE2	Polymerase (DNA directed), epsilon 2, accessory subunit	4.3281	4.46329	4.74792	5.44665	6.90412	5.17783	2.51361437	1.329763333	2.51361437	Up	0.021855162	0.377606446
147968	CAPN12	Calpain 12	6.98671	8.82288	9.64789	4.98191	5.36924	6.6523	-7.051890143	-2.81801	7.051890143	Down	0.006489299	0.285186095

6196	RPS6KA2	Ribosomal protein S6 kinase, 90kda, polypeptide 2	7.51576	7.0429	7.25295	5.51724	6.53138	6.42957	-2.160162733	-1.11114	2.160162733	Down	0.011133784	0.324611979
89839	ARHGAP11B	Rho gtpase activating protein 11B	5.86996	5.53957	6.22912	7.63448	7.95977	7.54286	3.562327116	1.83282	3.562327116	Up	0.000199165	0.135279577
28231	SLCO4A1	Solute carrier organic anion transporter family member 4A1	4.54655	4.73438	5.29573	5.63188	7.32698	6.563	3.134857794	1.6484	3.134857794	Up	0.007910422	0.299139554
9761	MLEC	Malectin	9.69499	10.21576	10.15019	8.2565	9.83635	8.63266	-2.161166164	-1.11181	2.161166164	Down	0.034967374	0.408437333
105376575	LOC105376575	Uncharacterized LOC105376575	4.56504	7.37471	6.14178	3.4091	4.32733	3.6224	-4.726918531	-2.2409	4.726918531	Down	0.012821007	0.336174155
8604	SLC25A12	Solute carrier family 25 (aspartate/glutamate carrier), member 12	4.74157	6.09012	4.7062	6.49502	6.27768	5.9507	2.087587497	1.061836667	2.087587497	Up	0.035482931	0.411115846
4192	MDK	Midkine (neurite growth-promoting factor 2)	9.24634	8.62244	8.74861	10.39414	10.24388	9.98272	2.521793249	1.33445	2.521793249	Up	0.001165945	0.186147792
1894	ECT2	Epithelial cell transforming 2	4.96551	6.19473	5.67328	6.53326	6.61177	7.92652	2.66230649	1.412676667	2.66230649	Up	0.020743695	0.371737766
9232	PTTG1	Pituitary tumor-transforming 1	4.44431	4.07681	4.48385	6.19544	6.8131	5.63299	3.677826272	1.878853333	3.677826272	Up	0.0007200	0.1726318

											72		42	47
102724197	LOC102724197	Inactive γ-glutamyltranspeptidase 2-like	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.238598533
64714	PDIA2	Protein disulfide isomerase family A member 2	5.01632	8.88413	9.40839	4.68507	4.62078	5.27751	-7.508336628	-2.908493333	7.508336628	Down	0.031203736	0.400466753
23105	FSTL4	Follistatin-like 4	4.74057	5.63356	5.65524	4.3552	3.7077	4.01499	-2.49175116	-1.31716	2.491751116	Down	0.004166645	0.245180458
10204	NUTF2	Nuclear transport factor 2	4.44745	4.47239	4.31489	6.07845	4.85685	5.43886	2.065479393	1.046476667	2.065479393	Up	0.013438995	0.341839628
368	ABCC6	ATP binding cassette subfamily C member 6	5.3415	6.2323	6.47212	5.36393	4.50681	4.96884	-2.097658754	-1.06878	2.097658754	Down	0.022821648	0.379921168
23650	TRIM29	Tripartite motif containing 29	7.01343	7.46877	7.42485	9.62089	8.08108	8.70864	2.830754561	1.501186667	2.830754561	Up	0.007502402	0.294419361
200879	LIPH	Lipase, member H	7.21846	7.04704	7.68839	8.50535	8.17011	8.47379	2.092343909	1.06512	2.092343909	Up	0.003812053	0.238907274
2052	EPHX1	Epoxide hydrolase 1, microsomal (xenobiotic)	9.63027	9.15542	9.24104	8.38766	7.77333	7.11856	-2.994662321	-1.582393333	2.994662321	Down	0.00291467	0.231335369
728262	FAM157A	Family with sequence similarity 157	8.2778	8.1134	7.6623	5.8447	5.8711	6.6262	-3.742070	-1.903836	3.74207	Dow	0.00042	0.16337

		member A	2	5	9	6	1	8	312	667	0312	n	6253	8734
27350	APOBEC3C	Apolipoprotein B mrna editing enzyme, catalytic polypeptide-like 3C	8.03817	8.24081	8.36503	6.48983	6.96044	7.65119	-2.267103098	-1.18085	2.267103098	Down	0.008463155	0.306051494
2983	GUCY1B3	Guanylate cyclase 1, soluble, β 3	4.42592	2.62364	3.13329	6.75529	6.02256	4.24574	4.857610003	2.280246667	4.857610003	Up	0.015518302	0.350533052
3772	KCNJ15	Potassium channel, inwardly rectifying subfamily J, member 15	7.75699	7.13556	7.98707	7.18204	6.40352	5.42675	-2.443761232	-1.289103333	2.443761232	Down	0.028948969	0.393976015
7316	UBC	Ubiquitin C	10.78508	9.71068	9.72289	8.42859	9.50862	9.24329	-2.017706968	-1.012716667	2.017706968	Down	0.043279676	0.432330901
124220	ZG16B	Zymogen granule protein 16B	7.91319	8.62933	9.76053	7.83943	6.48223	5.90123	-4.074773873	-2.02672	4.074773873	Down	0.014489191	0.346827031
9749	PHACTR2	Phosphatase and actin regulator 2	7.73732	8.52013	8.08891	6.50614	7.57514	7.14028	-2.058509348	-1.0416	2.058509348	Down	0.01987619	0.368204305
79641	ROGDI	Rogdi homolog	7.45739	7.58651	8.22388	6.93465	6.09992	6.97837	-2.121297061	-1.084946667	2.121297061	Down	0.014965428	0.348110543
3930	LBR	Lamin B receptor	7.59354	6.59173	6.92592	8.62667	9.13902	7.74272	2.762051079	1.46574	2.762051079	Up	0.01087136	0.323878416
334	APLP2	Amyloid β (A4) precursor-like	11.0	10.0	10.3	9.64	9.57	9.19	-2.005	-1.003	2.005	Do	0.013	0.345

		protein 2	3638	4512	5244	901	358	969	395328	886667	395328	wn	997923	25558
53616	ADAM22	ADAM metallopeptidase domain 22	3.99265	4.53659	4.47291	6.30108	7.71788	6.42375	5.579696562	2.480186667	5.579696562	Up	0.000525535	0.164531093
2706	GJB2	Gap junction protein β 2	3.54674	3.49461	3.99471	4.77263	5.63579	4.64518	2.530074734	1.33918	2.530074734	Up	0.003386337	0.23714666
23544	SEZ6L	Seizure related 6 homolog (mouse)-like	5.85558	8.24407	8.18999	6.07597	5.5596	5.92796	-2.980119123	-1.57537	2.980119123	Down	0.042883772	0.432078881
85236	HIST1H2BK	Histone cluster 1, h2bk	7.11945	7.94882	7.7363	10.66486	9.33918	9.04156	4.229078481	2.080343333	4.229078481	Up	0.002876449	0.231335369
348249	CCL15-CCL14	CCL15-CCL14 readthrough (NMD candidate)	6.91419	4.95206	5.09481	6.65264	7.33968	7.94896	3.160325885	1.660073333	3.160325885	Up	0.025801401	0.385334454
3012	HIST1H2AE	Histone cluster 1, h2ae	7.10371	6.93503	6.46351	7.31521	8.92168	7.92767	2.330710796	1.22077	2.330710796	Up	0.024572466	0.383089258
8382	NME5	NME/NM23 family member 5	6.35423	6.28187	6.49281	5.29111	3.68709	4.78895	-3.451571412	-1.787253333	3.451571412	Down	0.003114253	0.234239382
965	CD58	CD58 molecule	6.95922	5.97078	6.08227	8.00614	7.89562	7.03553	2.476564165	1.30834	2.476564165	Up	0.011057895	0.324277654
62	RRM2	Ribonucleotide	6.	5.	6.	8.	10	7.	5.5	2.4	5.5	U	0.0	0.2

41		reductase M2	31921	97913	23098	30062	.10624	53406	42486432	70533333	42486432	p	05103955	65672816
10451	VAV3	Vav guanine nucleotide exchange factor 3	5.726866	3.586667	3.652999	9.713622	9.359433	5.917011	16.0872594	4.007846667	16.0872594	Up	0.007651281	0.297440681
11226	GALNT6	Polypeptide N-acetylgalactosaminyltransferase 6	5.590666	7.056244	6.407777	4.804416	4.372144	6.0406	-2.427138889	-1.279256667	2.427138889	Down	0.046594339	0.440056562
284417	TMEM150B	Transmembrane protein 150B	4.747522	4.765663	4.636566	5.5729	6.673386	5.129996	2.107700679	1.07567	2.107700679	Up	0.028512666	0.393405585
219333	USP12	Ubiquitin specific peptidase 12	5.482111	5.246648	5.599222	5.985211	6.693774	6.918555	2.128587899	1.089896667	2.128587899	Up	0.007356681	0.292409769
56997	ADCK3	Aarf domain containing kinase 3	9.178199	9.664733	9.826887	9.100244	8.642229	7.762866	-2.077430194	-1.0548	2.077430194	Down	0.028067695	0.392002337
5879	RAC1	Ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	6.969946	7.033385	7.461558	8.4516	8.036671	8.131888	2.073066889	1.051766667	2.073066889	Up	0.003272262	0.236310513
283417	DPY19L2	Dpy-19-like 2 (C. Elegans)	4.652066	3.310992	3.198189	4.853663	5.395354	5.517771	2.898225801	1.53517	2.898225801	Up	0.008070957	0.299139554
23446	SLC44A1	Solute carrier family 44 (choline transporter), member 1	6.638857	5.886667	6.725533	8.578088	7.629122	7.2273	2.62911394	1.394576667	2.6291139	Up	0.0115470	0.3276598

									4		08	66
100526832	PHOSPHO2-KLHL23	PHOSPHO2-KLHL23 readthrough	5.0674	4.81491	4.41111	6.28071	6.65035	5.28463	2.474991093	1.307423333	2.474991093	Up	0.011589372	0.327659866
672	BRCA1	Breast cancer 1	4.5717	4.37396	4.43215	6.05033	5.71965	5.52451	2.471796547	1.30556	2.471796547	Up	0.000467792	0.164248294
30001	ERO1A	Endoplasmic reticulum oxidoreductase α	5.40636	5.6006	5.4914	5.93145	7.09484	6.51112	2.018126582	1.013016667	2.018126582	Up	0.015147592	0.348679547
10635	RAD51AP1	RAD51 associated protein 1	4.62325	4.46329	3.99979	5.76899	5.88114	4.98984	2.272919622	1.184546667	2.272919622	Up	0.006207768	0.281252273
23584	VSIG2	V-set and immunoglobulin domain containing 2	7.85415	10.5291	9.95813	6.45096	5.75329	8.09214	-6.415951932	-2.681663333	6.415951932	Down	0.014860673	0.347511024
65055	REEP1	Receptor accessory protein 1	6.79742	7.21935	7.72616	5.58689	4.71414	4.79094	-4.649213462	-2.216986667	4.649213462	Down	0.000380546	0.160901541
2296	FOXC1	Forkhead box C1	7.93226	5.87521	7.50168	5.64757	5.53492	4.96334	-3.296892089	-1.721106667	3.296892089	Down	0.014863214	0.347511024
2150	F2RL1	Coagulation factor II (thrombin) receptor-like 1	5.40431	4.10665	4.39197	5.18211	5.84342	5.92683	2.022972442	1.016476667	2.022972442	Up	0.034739541	0.408423981
725	C4BPB	Complement component 4 binding protein, β	4.1331	5.5871	5.3109	7.2890	6.3192	6.6298	3.3302488	1.73563	3.33024	Up	0.00574	0.27475

			1	7	6	7		6	84		8884		5558	3011
8318	CDC45	Cell division cycle 45	5.04629	4.4028	4.73714	5.77226	6.35818	5.44272	2.187035543	1.128976667	2.187035543	Up	0.007421279	0.293166802
90362	FAM110B	Family with sequence similarity 110 member B	5.583308	5.746677	5.638766	4.537111	4.228117	3.717771	-2.819045311	-1.495206667	2.819045311	Down	0.000557717	0.164818725
27077	B9D1	B9 protein domain 1	6.877611	7.5652	7.147344	6.364435	5.7853	6.151776	-2.137977495	-1.096246667	2.137977495	Down	0.005031001	0.264760001
221692	PHACTR1	Phosphatase and actin regulator 1	5.811114	6.871344	6.135888	4.576446	5.451788	5.636008	-2.072463462	-1.051346667	2.072463462	Down	0.030495577	0.399275889
8829	NRP1	Neuropilin 1	6.669833	5.549788	6.309755	4.778655	5.161776	4.475788	-2.586599459	-1.371056667	2.586599459	Down	0.005200458	0.266636057
23157	SEPT6	Septin 6	6.799133	7.235744	7.381667	5.035443	6.242225	6.713555	-2.206515681	-1.14177	2.206515681	Down	0.036734601	0.414095577
5025	P2RX4	Purinergic receptor P2X, ligand gated ion channel, 4	7.611194	7.08383	7.00783	5.06647	6.87907	6.12715	-2.313862817	-1.210303333	2.313862817	Down	0.035008679	0.40848582
2537	IFI6	Interferon, α-inducible protein 6	9.670448	8.80322	8.77067	7.2377	7.87499	7.86659	-2.679003873	-1.421696667	2.679003873	Down	0.003746921	0.238598583
2539	G6PD	Glucose-6-phosphate dehydrogenase	9.07	7.06	7.24	6.60	6.57	6.44	-2.388	-1.255	2.388	Do	0.047	0.442

			546	972	566	309	579	442	07255	846667	07255	wn	580972	914771
51582	AZIN1	Antizyme inhibitor 1	5.82528	5.9181	5.83947	7.38788	7.95354	5.87335	2.314402842	1.21064	2.314402842	Up	0.048595362	0.445569631
37	ACADVL	Acyl-coa dehydrogenase, very long chain	9.63763	9.6411	9.34278	9.00667	8.25046	8.12739	-2.11256637	-1.078996667	2.11256637	Down	0.007502487	0.294419361
8340	HIST1H2BL	Histone cluster 1, h2bl	6.54893	5.51123	6.19173	6.88605	8.14721	6.63548	2.202206872	1.13895	2.202206872	Up	0.043577237	0.432330901
6791	AURKAPS1	Aurora kinase A pseudogene 1	4.22843	4.39756	4.30843	5.26475	5.97383	5.00888	2.150014913	1.104346667	2.150014913	Up	0.005395236	0.269321526
3127	HLA-DRB5	Major histocompatibility complex, class II, DR β 5	10.73083	8.51187	10.20446	4.14845	4.9948	8.45972	-15.43424849	-3.948063333	15.43424849	Down	0.010616779	0.323125557
3148	HMGB2	High mobility group box 2	5.19585	3.8344	3.9644	6.45484	8.35047	5.92075	5.967541386	2.577136667	5.967541386	Up	0.006618106	0.286654971
966	CD59	CD59 molecule, complement regulatory protein	9.3696	8.76235	8.71309	7.88093	7.79696	7.50274	-2.331841938	-1.22147	2.331841938	Down	0.002302518	0.212162949
8459	TPST2	Tyrosylprotein sulfotransferase 2	6.22291	7.63968	7.09255	5.37366	5.73142	4.11902	-3.758994141	-1.910346667	3.758994141	Down	0.007972717	0.299139554
90	N4BP2	NEDD4 binding	4.	4.	4.	4.	6.	5.	2.3	1.2	2.3	U	0.0	0.3

634	L1	protein 2-like 1	59838	35428	07363	60425	29388	83366	54085413	35166667	54085413	p	24996645	83712762
650599	RAPH1	Ras association (ralgds/AF-6) and pleckstrin homology domains 1	4.71388	4.74095	4.71167	6.64906	6.22592	5.87404	2.882871769	1.527506667	2.882871769	Up	0.000447497	0.164248294
317772	HIST2H2AB	Histone cluster 2, h2ab	7.23941	6.65269	6.69378	8.57459	8.86545	7.47835	2.721062322	1.44417	2.721062322	Up	0.008517424	0.307296395
8612	PLPP2	Phospholipid phosphatase 2	9.52884	9.37939	9.69943	8.40962	7.55791	8.04541	-2.891009467	-1.531573333	2.891009467	Down	0.000838239	0.181040924
10627	MYL12A	Myosin light chain 12A	10.01383	9.35564	9.7843	10.91836	10.60427	11.03665	2.19644443	1.13517	2.19644443	Up	0.003014591	0.234003889
3213	HOXB3	Homeobox B3	5.14787	3.90794	4.11991	7.10245	6.17447	7.84021	6.264227753	2.647136667	6.264227753	Up	0.001175128	0.186147792
2678	GGT1	Γ-glutamyltransferase 1	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.23859853
440354	SMG1P2	SMG1 pseudogene 2	5.95624	6.50923	6.39438	8.01357	7.61265	7.36258	2.596047295	1.376316667	2.596047295	Up	0.001362471	0.187107818
22894	DIS3	DIS3 homolog, exosome endoribonuclease and 3’-5’ exoribonuclease	3.9973	4.50929	4.41708	5.45984	5.89725	5.29129	2.364557131	1.24157	2.364557131	Up	0.001556815	0.187107818

26508	HEYL	Hes-related family bhlh transcription factor with YRPW motif-like	5.8612	5.80123	5.6337	5.87369	7.91672	6.98968	2.236619745	1.16132	2.236619745	Up	0.049061203	0.4461748
196441	ZFC3H1	Zinc finger, C3H1-type containing	4.74583	5.019	4.56714	7.00222	5.59477	5.63561	2.462647266	1.30021	2.462647266	Up	0.015066408	0.348315984
5069	PAPPA	Pregnancy-associated plasma protein A, pappalysin 1	6.47726	6.1815	5.60647	4.53371	5.75066	4.61619	-2.175816163	-1.121556667	2.175816163	Down	0.025938612	0.385761564
3490	IGFBP7	Insulin like growth factor binding protein 7	6.080885	6.32195	6.00443	6.72949	10.50231	8.04535	4.890470715	2.289973333	4.890470715	Up	0.033101316	0.406315059
337873	HIST2H2BC	Histone cluster 2, h2bc (pseudogene)	5.966648	6.5548	6.16662	9.62841	7.40088	7.74481	4.080464337	2.028733333	4.080464337	Up	0.009611285	0.313660293
9768	KIAA0101	KIAA0101	4.22318	3.68417	3.76063	6.22546	5.053	5.10282	2.97131179	1.5711	2.97131179	Up	0.003199637	0.234239382
6809	STX3	Syntaxin 3	7.67597	6.4876	6.95842	5.39487	6.74649	5.12721	-2.43593111	-1.284473333	2.43593111	Down	0.036696901	0.414090013
4090	SMAD5	SMAD family member 5	3.36867	4.06744	4.28742	5.52383	4.9645	5.01444	2.394536898	1.259746667	2.394536898	Up	0.003878125	0.239969073
3161	HMMR	Hyaluronan-mediated motility receptor (RHAMM)	4.30324	3.73565	4.12655	5.3542	5.28141	4.93648	2.197023041	1.13555	2.1970230	Up	0.0016076	0.1871940

											41		96	74
3833	KIFC1	Kinesin family member C1	6.20335	5.75907	5.87767	7.14478	7.06133	6.80356	2.079918021	1.056526667	2.079918021	Up	0.002214213	0.211694553
55635	DEPDC1	DEP domain containing 1	3.92367	3.60802	3.84908	4.68052	5.79284	4.66817	2.384334533	1.253586667	2.384334533	Up	0.006993525	0.288964472
5468	PPARG	Peroxisome proliferator-activated receptor γ	6.05594	4.93721	5.91009	7.98514	7.19123	6.33525	2.900148284	1.536126667	2.900148284	Up	0.016069598	0.352313752
3131	HLF	Hepatic leukemia factor	6.08722	6.3909	6.82765	5.93001	5.46467	4.60748	-2.145335576	-1.101203333	2.145335576	Down	0.023779315	0.381268997
100507420	LINC01605	Long intergenic non-protein coding RNA 1605	4.19352	4.1728	4.3857	6.67968	5.43076	4.47511	2.424762311	1.277843333	2.424762311	Up	0.042474749	0.431731952
63874	ABHD4	Abhydrolase domain containing 4	7.67186	7.12492	7.24072	6.659	6.2257	5.95844	-2.09186053	-1.064786667	2.09186053	Down	0.005939363	0.279481742
10217	CTDSPL	CTD small phosphatase like	7.80733	7.70209	8.30779	6.82378	6.68742	6.22457	-2.567705956	-1.36048	2.567705956	Down	0.001580542	0.187107818
154796	AMOT	Angiomotin	4.86277	5.19885	5.60081	4.37187	4.12248	3.66991	-2.243975099	-1.166056667	2.243975099	Down	0.004038954	0.243515238
9099	USP2	Ubiquitin specific peptidase 2	5.7871	5.6322	5.4527	4.0581	4.3670	4.6274	-2.416898	-1.273156	2.41689	Dow	0.00072	0.17263

			8	4	5	5	8	7	131	667	8131	n	9076	1847
9076	CLDN1	Claudin 1	7.2142	5.52719	5.46187	9.61062	6.7445	8.2016	4.34037592	2.11782	4.340437592	Up	0.031320356	0.401103972
57212	TP73-AS1	TP73 antisense RNA 1	6.94161	7.14032	6.86246	5.49049	5.84171	6.33113	-2.13418711	-1.093686667	2.13418711	Down	0.004814683	0.260263927
8458	TTF2	Transcription termination factor, RNA polymerase II	5.31365	4.83455	5.56861	7.03042	6.68707	6.51091	2.836011403	1.503863333	2.836011403	Up	0.000876387	0.181040924
7166	TPH1	Tryptophan hydroxylase 1	5.25019	7.47192	7.0066	4.88364	4.70982	5.37321	-3.004961832	-1.587346667	3.004961832	Down	0.026416764	0.38735841
151258	SLC38A11	Solute carrier family 38, member 11	6.06854	9.22417	8.66992	3.77141	6.13547	3.79786	-10.69820365	-3.419296667	10.69820365	Down	0.009650291	0.313660293
84668	FAM126A	Family with sequence similarity 126 member A	5.34189	4.39065	4.13867	5.81635	6.06931	5.4485	2.225788741	1.154316667	2.225788741	Up	0.014127899	0.346275347
3026	HABP2	Hyaluronan binding protein 2	10.74064	9.92832	10.22409	8.55854	7.48272	6.32548	-7.170647177	-2.842103333	7.170647177	Down	0.001395464	0.187107818
10272	FSTL3	Follistatin-like 3 (secreted glycoprotein)	5.89826	5.97115	5.91049	6.82937	7.05387	6.96146	2.030169241	1.0216	2.030169241	Up	0.001103778	0.18614792
1168	LRG1	Leucine-rich α-2-glycoprotein 1	6.51	6.70	6.75	5.76	5.45	5.67	-2.038	-1.027	2.038	Do	0.001	0.187

44			205	778	994	41	495	859	314498	376667	314498	wn	532152	107818
100996763	LOC100996763	Notch homolog 2 N-terminal-like protein	7.7763	7.3532	7.50599	9.02152	8.39945	8.23798	2.010870256	1.0782	2.010870256	Up	0.008353307	0.304720215
729438	GATSL2	GATS protein-like 2	7.97024	9.17103	8.95577	6.38304	6.40339	7.40577	-3.913013262	-1.96828	3.913013262	Down	0.002403809	0.21553168
79966	SCD5	Stearoyl-coa desaturase 5	5.58981	4.63458	4.78142	4.03945	3.62742	3.7807	-2.275336624	-1.18608	2.275336624	Down	0.004646252	0.255308617
79770	TXNDC15	Thioredoxin domain containing 15	5.27415	5.68268	5.57245	4.14025	4.92852	4.42421	-2.016844702	-1.0121	2.016844702	Down	0.006047185	0.279481742
1633	DCK	Deoxycytidine kinase	6.372	5.80814	5.69777	7.05719	7.87943	6.1547	2.101088115	1.071136667	2.101088115	Up	0.049068058	0.4461748
8492	PRSS12	Protease, serine 12	6.73738	5.33661	5.71593	8.0906	7.0166	7.06258	2.750994649	1.459953333	2.750994649	Up	0.014909523	0.348110543
85407	NKD1	Naked cuticle homolog 1 (Drosophila)	4.89126	11.46659	10.51827	3.79953	5.05581	4.66508	-21.88544783	-4.4519	21.88544783	Down	0.027129635	0.389536092
127700	OSCP1	Organic solute carrier partner 1	7.02223	7.64063	7.06689	6.95843	5.33267	6.02007	-2.203087303	-1.139526667	2.203087303	Down	0.033281977	0.406852216
63	ZNF66	Zinc finger protein	5.	5.	5.	3.	4.	3.	-3.	-1.	3.0	D	0.0	0.1

934	7	667	33531	54991	89724	99058	41537	55571	046036719	606933333	46036719	own	00717261	72631847
232235	SIK2	Salt inducible kinase 2	6.50828	7.33998	7.48124	5.54541	5.96244	5.65908	-2.616291577	-1.387523333	2.616291577	Down	0.002931973	0.231335369
10750	GRAP	GRB2-related adaptor protein	5.31815	7.64792	6.615	4.71043	4.87504	5.41042	-2.884644099	-1.528393333	2.884644099	Down	0.030863593	0.399309008
57178	ZMIZ1	Zinc finger, MIZ-type containing 1	9.72634	9.58267	9.22641	7.89069	8.92614	8.0338	-2.342847961	-1.228263333	2.342847961	Down	0.007388522	0.292725141
8351	HIST1H3D	Histone cluster 1, h3d	9.22005	8.79403	8.36354	9.99628	10.56551	9.57937	2.385866522	1.254513333	2.385866522	Up	0.008083968	0.299139554
6713	SQLE	Squalene epoxidase	4.97416	3.8798	3.97748	4.46678	6.83511	6.26083	2.983681073	1.577093333	2.983681073	Up	0.040341982	0.425399913
100861540	CYP3A7-CYP3A51P	CYP3A7-CYP3A51P readthrough	7.71903	5.12613	6.91826	4.31608	5.09119	4.2622	-4.087777486	-2.031316667	4.087777486	Down	0.016021561	0.351799596
105369239	LOC105369239	Multidrug resistance-associated protein 6	5.3415	6.2323	6.47212	5.36393	4.50681	4.96884	-2.097658754	-1.06878	2.097658754	Down	0.022821648	0.379921168
27101	CACYBP	Calcyclin binding protein	4.79634	4.56144	4.55199	6.28904	5.55717	5.14704	2.038950381	1.027826667	2.038950381	Up	0.013371081	0.340991946

4664	NAB1	NGFI-A binding protein 1	4.87248	5.06991	4.66897	6.85309	6.24502	6.6959	3.311649527	1.72755	3.311649527	Up	0.000200352	0.135279577
140576	S100A16	S100 calcium binding protein A16	6.96775	7.73201	8.22864	10.31065	8.34795	8.81696	2.85941496	1.51572	2.85941496	Up	0.0030767835	0.399309008
8360	HIST1H4D	Histone cluster 1, h4d	7.65378	7.98614	7.65173	5.99022	6.61451	7.46241	-2.106483575	-1.074836667	2.106483575	Down	0.0026499972	0.38770253
147495	APCDD1	Adenomatosis polyposis coli down-regulated 1	8.85567	11.63766	11.49824	9.53851	6.6787	6.6634	-8.207749307	-3.036986667	8.207749307	Down	0.0020573706	0.371592873
9824	ARHGAP11A	Rho gtpase activating protein 11A	5.86996	5.53957	6.22912	7.63448	7.95977	7.54286	3.562327116	1.83282	3.562327116	Up	0.000199165	0.135279577
8425	LTBP4	Latent transforming growth factor β binding protein 4	7.66525	8.67901	7.86268	8.85586	9.35212	11.06752	3.225493702	1.68952	3.225493702	Up	0.0024620516	0.383131863
2669	GEM	GTP binding protein overexpressed in skeletal muscle	4.95819	3.96836	4.20874	5.63005	8.21783	6.41597	5.191626756	2.376186667	5.191626756	Up	0.0008198793	0.301902594
9771	RAPGEF5	Rap guanine nucleotide exchange factor 5	4.96094	3.80846	5.05812	6.25004	6.41009	5.01314	2.431618107	1.281916667	2.431618107	Up	0.0033544312	0.407707499
54434	SSH1	Slingshot protein phosphatase 1	8.766	7.50142	7.58159	6.03648	7.50936	6.482	-2.417847635	-1.273723333	2.4178476	Down	0.0359116	0.4124733

											35		34	32
84706	GPT2	Glutamic pyruvate transaminase (alanine aminotransferase) 2	6.51052	9.87221	9.02476	6.11573	4.83455	5.19759	-8.494564588	-3.08654	8.494564588	Down	0.0080707	0.299139554
50619	DEF6	DEF6, guanine nucleotide exchange factor	6.27096	6.50707	6.15073	4.40531	4.93586	5.84717	-2.373155551	-1.246806667	2.373155551	Down	0.012840959	0.336174155
605	BCL7A	B-cell CLL/lymphoma 7A	5.97667	6.0111	6.53411	4.97099	5.08955	5.29212	-2.079745026	-1.056406667	2.079745026	Down	0.002931358	0.231335369
220988	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3	4.83455	5.94422	5.36279	6.76657	6.8422	6.02837	2.242632668	1.165193333	2.242632668	Up	0.014861233	0.347511024
1718	DHCR24	24-dehydrocholesterol reductase	9.81522	9.26906	8.231	6.06177	7.65652	7.89388	-3.7348147	-1.901036667	3.7348147	Down	0.015004688	0.348110543
6397	SEC14L1	SEC14-like lipid binding 1	8.0308	8.27448	8.52925	6.81475	7.32865	7.54713	-2.067661472	-1.048	2.067661472	Down	0.006330706	0.283732496
27185	DISC1	Disrupted in schizophrenia 1	6.23028	6.25337	6.36517	4.51181	5.372	5.70057	-2.126007471	-1.088146667	2.126007471	Down	0.012450484	0.334466731
1674	DES	Desmin	5.44546	5.3884	5.31401	5.46768	6.87707	7.94062	2.601180776	1.379166667	2.601180776	Up	0.047743769	0.443319056
8357	HIST1H3H	Histone cluster 1, h3h	4.2532	4.0444	3.9906	5.6979	4.6295	5.2044	2.1158196	1.0812166	2.11581	Up	0.00760	0.29636

			3	3	2	8	5		61	67	9661		0953	8909
29842	TFCP2L1	Transcription factor CP2-like 1	4.42864	5.01916	5.76845	7.50127	5.94811	6.57357	3.036129513	1.602233333	3.036129513	Up	0.013439445	0.341839628
377677	CA13	Carbonic anhydrase XIII	5.5777	6.02467	5.7338	3.55161	5.31096	3.72252	-2.997362001	-1.583693333	2.997362001	Down	0.011880686	0.330286388
4072	EPCAM	Epithelial cell adhesion molecule	8.43974	8.74802	9.25054	9.14145	10.98456	9.76716	2.221637344	1.151623333	2.221637344	Up	0.049739963	0.446171748
10149	ADGRG2	Adhesion G protein-coupled receptor G2	4.11287	7.69347	7.75231	4.09035	4.07121	4.34556	-5.100045082	-2.35051	5.100045082	Down	0.040182497	0.425039542
2773	GNAI3	Guanine nucleotide binding protein (G protein), α inhibiting activity polypeptide 3	4.13841	4.55371	3.95435	6.14072	5.27973	4.88156	2.327067943	1.218513333	2.327067943	Up	0.010888845	0.323878416
8358	HIST1H3B	Histone cluster 1, h3b	8.86408	6.97944	7.71117	9.55915	10.53174	9.20259	3.765731139	1.91293	3.765731139	Up	0.010194903	0.318261304
55268	ECHDC2	Enoyl-coa hydratase domain containing 2	8.04906	8.01144	7.9593	6.34476	6.86284	7.27993	-2.2617247	-1.177423333	2.2617247	Down	0.003922809	0.240204761
4773	NFATC2	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	6.86489	6.23223	7.11967	3.62033	5.87148	5.67458	-3.211988364	-1.683466667	3.211988364	Down	0.028338384	0.393272669
41	MCM4	Minichromosome	6.	6.	6.	9.	9.	7.	3.6	1.8	3.6	U	0.0	0.3

73		maintenance complex component 4	86219	40187	95209	29348	41683	12209	60608111	72083333	60608111	p	18284069	64087805
9843	HEPH	Hephaestin	8.03817	4.40596	4.46669	8.76927	9.77401	8.77341	11.07030706	3.468623333	11.07030706	Up	0.008947495	0.309080185
57644	MYH7B	Myosin, heavy chain 7B, cardiac muscle, β	5.56167	8.75732	8.4893	5.31565	5.27716	6.10059	-4.107602757	-2.038296667	4.107602757	Down	0.0043051658	0.43207881
51512	GTSE1	G-2 and S-phase expressed 1	5.14107	4.32677	4.89511	6.82905	7.42011	5.6767	3.61577106	1.854303333	3.61577106	Up	0.005413457	0.269321526
4640	MYO1A	Myosin IA	5.13637	5.3416	6.48049	7.35503	8.16947	7.10541	3.707594162	1.890483333	3.707594162	Up	0.003703763	0.23859853
3158	HMGCS2	3-hydroxy-3-methylglutaryl-coa synthase 2 (mitochondrial)	4.38254	5.13275	7.18021	10.42589	8.91727	7.62715	10.74010853	3.424936667	10.74010853	Up	0.006900844	0.288459719
113235	SLC46A1	Solute carrier family 46 (folate transporter), member 1	8.47519	8.01131	7.42248	6.38534	6.69899	6.71015	-2.587394431	-1.3715	2.587394431	Down	0.00300289	0.233705009
100529855	ZNF625-ZNF20	ZNF625-ZNF20 readthrough (NMD candidate)	7.08671	7.47192	7.41442	4.66413	6.17387	5.85553	-3.386605642	-1.75984	3.386605642	Down	0.003448471	0.237146666
440672	NUDT4P1	Nudix hydrolase 4 pseudogene 1	5.90687	4.50841	5.1277	3.52156	4.35536	3.47682	-2.632463145	-1.396413333	2.632463145	Down	0.011247144	0.324854465

51046	ST8SIA3	ST8 α-N-acetyl-neuraminide α-2,8-sialyltransferase 3	7.23551	5.33886	7.21911	5.17114	5.43409	5.22933	-2.496038176	-1.31964	2.496038176	Down	0.037703801	0.417314237
2719	GPC3	Glypican 3	3.99902	3.67917	3.78372	4.4198	5.84268	5.53423	2.722502424	1.444933333	2.722502424	Up	0.006103788	0.279481742
84288	EFCAB2	EF-hand calcium binding domain 2	4.42154	5.00315	4.79081	4.23521	2.98803	3.83506	-2.073977151	-1.0524	2.073977151	Down	0.018325856	0.364362279
2982	GUCY1A3	Guanylate cyclase 1, soluble, α 3	6.76764	3.42446	3.83269	8.43635	7.61808	6.41792	7.041356237	2.815853333	7.041356237	Up	0.019708261	0.367760084
64283	ARHGEF28	Rho guanine nucleotide exchange factor 28	5.94805	7.19213	7.31718	3.86088	4.8752	6.49054	-3.348650943	-1.74358	3.348650943	Down	0.040537425	0.426136158
28960	DCPS	Decapping enzyme, scavenger	7.62673	7.28491	7.53924	6.29981	6.56755	6.39408	-2.089483935	-1.063146667	2.089483935	Down	0.001478975	0.187107818
6277	S100A6	S100 calcium binding protein A6	9.88458	8.66151	9.52002	11.23662	9.99548	10.65351	2.416914884	1.273166667	2.416914884	Up	0.021103333	0.372540654
653590	GGTLC5P	Γ-glutamyltransferase light chain 5 pseudogene	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.238598853
728239	MAGED4	Melanoma antigen family D4	6.73661	7.78267	7.88613	5.5504	5.72103	6.69709	-2.787483631	-1.478963333	2.7874836	Down	0.0110969	0.3245113

											31		59	09
57650	KIAA1524	KIAA1524	4.46562	4.21074	4.2461	5.08847	5.14642	5.7072	2.009091588	1.006543333	2.009091588	Up	0.003363283	0.237146666
27352	SGSM3	Small G protein signaling modulator 3	7.06514	7.78101	7.73432	6.56212	6.16916	6.78359	-2.030544531	-1.021866667	2.030544531	Down	0.009742719	0.314090213
5742	PTGS1	Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	6.85583	5.51655	5.07615	3.34627	5.28652	4.20435	-2.902165916	-1.53713	2.902165916	Down	0.040840181	0.426343707
5908	RAP1B	RAP1B, member of RAS oncogene family	4.52267	4.56514	4.54136	7.70079	5.53317	5.26493	3.080661139	1.62324	3.080661139	Up	0.032964174	0.405799071
10948	STARD3	Star related lipid transfer domain containing 3	7.55989	9.30243	9.21661	7.03888	6.58622	7.49605	-3.143982818	-1.652593333	3.143982818	Down	0.014427905	0.346827031
9223	MAGI1	Membrane associated guanylate kinase, WW and PDZ domain containing 1	4.98324	4.63754	5.14654	4.43567	3.11881	3.61426	-2.296643082	-1.199526667	2.296643082	Down	0.01104559	0.324277654
1001	CDH3	Cadherin 3, type 1, P-cadherin (placental)	3.86919	5.95877	5.82141	6.74952	7.15344	7.68204	3.940949693	1.978543333	3.940949693	Up	0.011585763	0.327659866
10613	ERLIN1	ER lipid raft associated 1	4.21447	4.06185	4.45563	5.61758	5.86329	4.61549	2.175685459	1.12147	2.175685459	Up	0.01412119	0.346275347
10	LOC10	Inactive	9.	9.	8.	7.	7.	5.	-4.	-2.	4.0	D	0.0	0.2

2724823	2724823	γ-glutamyltranspeptidase 2	16157	31314	59698	48881	56931	95581	053739364	019253333	53739364	own	03671527	3859853
1102	RCBTB2	Regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2	7.96846	8.48041	7.75524	6.81092	7.10879	6.63194	-2.325412518	-1.217486667	2.325412518	Down	0.00278169	0.228795443
2355	FOSL2	FOS-like antigen 2	7.62452	6.64055	7.01256	8.68403	8.76949	8.55555	2.983791375	1.577146667	2.983791375	Up	0.001007351	0.18614792
29128	UHRF1	Ubiquitin-like with PHD and ring finger domains 1	4.00702	3.76157	3.95705	5.69812	6.28965	3.94248	2.64182823	1.401536667	2.64182823	Up	0.041618714	0.428458905
23648	SSBP3	Single stranded DNA binding protein 3	9.69823	9.73004	10.62504	8.59636	9.71314	8.67387	-2.032581687	-1.023313333	2.032581687	Down	0.038989001	0.421228287
159	ADSS	Adenylosuccinate synthase	4.95503	4.25387	4.92613	6.52657	5.78614	5.49488	2.336237049	1.241866667	2.336237049	Up	0.008743547	0.308521975
55266	TMEM19	Transmembrane protein 19	5.79598	4.93411	5.26716	7.49143	6.43146	5.72043	2.321981804	1.153566667	2.321981804	Up	0.036776772	0.414095577
11033	ADAP1	Arfgap with dual PH domains 1	7.49282	7.00767	7.13736	8.88428	8.01536	8.15685	2.203117844	1.139546667	2.203117844	Up	0.006580013	0.28661991
2752	GLUL	Glutamate-ammonia ligase	11.146	12.629	12.270	8.5872	10.925	10.465	-4.063998	-2.0229	4.06399	Dow	0.01913	0.36766

			54	74	65	2	26	75	867		8867	n	8451	4157
765	CA6	Carbonic anhydrase VI	4.37888	6.77691	6.64757	4.26079	3.98548	4.65397	-3.104526687	-1.634373333	3.104526687	Down	0.036661392	0.414090013
8825	LIN7A	Lin-7 homolog A (C. Elegans)	7.30101	6.25213	5.76903	5.12114	5.28461	4.23386	-2.950282968	-1.560853333	2.950282968	Down	0.011682494	0.328470247
10443	N4BP2L2	NEDD4 binding protein 2-like 2	7.289	7.14744	6.797	6.52615	5.25673	6.06137	-2.188177847	-1.12973	2.188177847	Down	0.015518466	0.350533052
26053	AUTS2	Autism susceptibility candidate 2	6.22324	6.96843	6.29985	4.63263	5.66184	5.88338	-2.150327894	-1.104556667	2.150327894	Down	0.025145401	0.383712762
3159	HMGA1	High mobility group AT-hook 1	8.37932	8.54922	8.47145	9.4543	10.23134	8.92852	2.101457093	1.07139	2.101457093	Up	0.017245583	0.360303568
8736	MYOM1	Myomesin 1	9.12786	8.02416	8.85932	8.11391	6.2316	5.92964	-3.76346964	-1.912063333	3.76346964	Down	0.016296358	0.353909069
8926	SNURF	SNRPN upstream reading frame	9.90523	8.46536	9.54754	7.89773	8.28397	7.41102	-2.71660222	-1.441803333	2.71660222	Down	0.011569593	0.327659866
655	BMP7	Bone morphogenetic protein 7	5.44982	6.78327	6.76044	4.86827	5.11995	5.52412	-2.235188753	-1.160396667	2.235188753	Down	0.024800749	0.383131863
6285	S100B	S100 calcium binding protein B	5.93	4.59	4.13	3.60	3.98	3.89	-2.086	-1.060	2.086	Do	0.049	0.446

			388	636	881	614	17	893	030136	76	030136	wn	299382	1748
11215	AKAP11	A-kinase anchoring protein 11	3.951774	3.347768	3.303777	4.291677	5.331133	4.5495	2.281163731	1.18977	2.281163731	Up	0.007901262	0.299139554
23353	SUN1	Sad1 and UNC84 domain containing 1	5.556627	5.995155	6.192055	6.882262	7.3343	7.0263	2.244794428	1.166583333	2.244794428	Up	0.002565649	0.221485665
10112	KIF20A	Kinesin family member 20A	4.784438	4.3311	4.42197	6.87498	5.79339	5.84867	3.159865899	1.659863333	3.159865899	Up	0.001714641	0.190752113
1307	COL16A1	Collagen, type XVI, α 1	5.891522	5.4151	6.253277	7.13432	7.42967	7.72449	2.981827225	1.576196667	2.981827225	Up	0.001026189	0.186147922
399512	SLC25A35	Solute carrier family 25, member 35	6.452433	6.850115	7.00713	6.27444	5.43283	5.26731	-2.161016369	-1.11171	2.161016369	Down	0.011203771	0.324718192
6916	TBXAS1	Thromboxane A synthase 1	6.038552	4.845599	5.34156	3.57728	4.60748	4.08816	-2.492482427	-1.317583333	2.492482427	Down	0.011006178	0.324277654
2177	FANCD2	Fanconi anemia complementation group D2	4.592274	3.961935	4.03952	5.1671	5.7196	5.33091	2.309862007	1.207806667	2.309862007	Up	0.002188452	0.210075308
6840	SVIL	Supervillin	5.949935	5.610555	6.191737	6.814644	7.266199	6.918895	2.118020667	1.082716667	2.118020667	Up	0.003289424	0.236576218
11	OSBP	Oxysterol binding	5.	4.	5.	6.	6.	7.	2.9	1.5	2.9	U	0.0	0.2

4884	L10	protein like 10	38006	80478	31751	87627	02511	24079	21292194	46606667	21292194	p	03461723	3714666
6584	SLC22A5	Solute carrier family 22 (organic cation/carnitine transporter), member 5	8.527778	7.659924	7.693311	7.118876	6.647736	7.053329	-2.028256343	-1.02024	2.028256343	Down	0.012686579	0.336174155
1551	CYP3A7	Cytochrome P450, family 3, subfamily A, polypeptide 7	7.719903	5.126133	6.918266	4.316608	5.091119	4.262622	-4.087777486	-2.031316667	4.087777486	Down	0.016021561	0.351799596
86	ACTL6A	Actin like 6A	4.848801	4.873044	4.888881	5.824044	6.102624	6.537556	2.4368712	1.28503	2.4368712	Up	0.001012706	0.18614792
64859	NABP1	Nucleic acid binding protein 1	5.578558	5.416659	4.831951	6.713444	7.710636	5.786566	2.753315621	1.46117	2.753315621	Up	0.020809912	0.371752382
4171	MCM2	Minichromosome maintenance complex component 2	4.924432	4.369947	4.622199	5.850422	6.540443	5.008888	2.236511226	1.16125	2.236511226	Up	0.022416821	0.378660533
55143	CDCA8	Cell division cycle associated 8	4.963349	4.876683	5.25671	6.755529	7.16823	6.2312	3.217403028	1.685896667	3.217403028	Up	0.000643716	0.172631847
51053	GMNN	Geminin, DNA replication inhibitor	6.460226	5.172844	5.2167	8.05898	7.470057	7.308883	3.989459591	1.996193333	3.989459591	Up	0.001826818	0.193419968
7006	TEC	Tec protein tyrosine kinase	6.44016	6.87351	6.67125	6.15229	5.27174	5.43485	-2.059099197	-1.042013333	2.059099197	Down	0.009076606	0.310474429

6818	SULT1A3	Sulfotransferase family 1A member 3	6.47722	6.93547	6.66106	7.80233	8.02899	7.66662	2.205944764	1.141396667	2.205944764	Up	0.001523801	0.187107818
100534612	C1QTNF3-AMACR	C1QTNF3-AMACR readthrough (NMD candidate)	6.62888	7.90192	8.15961	7.05714	6.28869	5.00313	-2.726688699	-1.44715	2.726688699	Down	0.049423973	0.4461748
80344	DCAF11	DDB1 and CUL4 associated factor 11	9.07586	9.18302	9.33397	8.23395	8.15639	7.87533	-2.157050571	-1.10906	2.157050571	Down	0.001226488	0.186576841
4092	SMAD7	SMAD family member 7	6.14172	7.57056	6.87428	4.86766	6.47478	4.85496	-2.756912221	-1.463053333	2.756912221	Down	0.03190615	0.403020162
100130933	SMIM6	Small integral membrane protein 6	7.5343	6.50366	6.85339	5.08244	4.84133	6.58785	-2.75091202	-1.45991	2.75091202	Down	0.024223172	0.38258708
133308	SLC9B2	Solute carrier family 9, subfamily B (NHA2, cation proton antiporter 2), member 2	6.76921	5.8573	7.36345	5.66992	5.84931	4.48741	-2.510149574	-1.327773333	2.510149574	Down	0.032713562	0.40471379
2920	CXCL2	Chemokine (C-X-C motif) ligand 2	6.12234	6.75555	6.52925	8.62194	7.13114	7.73942	2.570032613	1.361786667	2.570032613	Up	0.011920791	0.33077656
1284	COL4A2	Collagen, type IV, α 2	8.56944	7.73158	7.88743	8.94567	10.32601	8.75884	2.429551476	1.28069	2.429551476	Up	0.027957217	0.392002337
80017	C14orf159	Chromosome 14 open reading frame 159	8.6236	8.5850	8.6954	6.4128	7.1468	8.2148	-2.596407	-1.376516	2.59640	Dow	0.01677	0.35744

			5	8	7	8	9	8	208	667	7208	n	5646	2546
513363	CHST15	Carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15	6.43637	6.80345	7.38176	3.23796	6.18242	5.78312	-3.496779115	-1.806026667	3.496779115	Down	0.047963688	0.443396377
2919	CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, α)	6.01563	6.831	6.6225	9.22284	7.32505	7.90471	3.162699895	1.661156667	3.162699895	Up	0.013013662	0.336174155
9052	GPRC5A	G protein-coupled receptor, class C, group 5, member A	4.53711	7.68271	7.50824	8.95452	9.01761	9.69499	6.260827418	2.646353333	6.260827418	Up	0.014503928	0.346827031
80115	BAIAP2L2	BAI1-associated protein 2-like 2	9.01035	9.09341	9.24175	8.52559	7.95997	7.48417	-2.18140856	-1.12526	2.18140856	Down	0.007196402	0.291193641
285596	FAM153A	Family with sequence similarity 153 member A	6.87689	6.80655	6.70389	3.93424	3.95251	5.88338	-4.613089661	-2.205733333	4.613089661	Down	0.004083177	0.24425172
441430	ANKRD20A2	Ankyrin repeat domain 20 family member A2	7.46148	7.42232	7.32891	7.15843	5.30811	5.41937	-2.717474819	-1.442266667	2.717474819	Down	0.022225545	0.378357221
7913	DEK	DEK proto-oncogene	6.60952	6.09516	6.46635	6.63416	8.4162	7.39015	2.128484622	1.089826667	2.128484622	Up	0.045974033	0.439253047
92304	SCGB3A1	Secretoglobin, family 3A, member 1	6.11849	11.93723	11.57222	6.30999	5.93145	6.36908	-12.75042414	-3.672473333	12.75042414	Down	0.038925737	0.421038105
57	PDSS2	Prenyl	6.	6.	6.	4.	5.	5.	-2.	-1.	2.0	D	0.0	0.1

107		(decaprenyl) diphosphate synthase, subunit 2	00495	25285	0158	96515	02898	10515	082197138	058106667	82197138	own	00870132	81040924
552900	BOLA2	Bola family member 2	5.95624	6.50923	6.39438	8.01357	7.61265	7.36258	2.596047295	1.376316667	2.596047295	Up	0.001362471	0.187107818
81563	C1orf21	Chromosome 1 open reading frame 21	5.25422	4.61825	6.27454	8.57683	7.2181	6.30278	3.95469564	1.983566667	3.95469564	Up	0.018514388	0.364586001
64710	NUCKS1	Nuclear casein kinase and cyclin-dependent kinase substrate 1	7.75286	7.7977	7.71216	9.7568	8.52031	8.83208	2.432022653	1.282156667	2.432022653	Up	0.006939076	0.288892706
4869	NPM1	Nucleophosmin (nucleolar phosphoprotein B23, numatrin)	9.36755	9.59531	10.21948	10.73509	10.67459	11.24587	2.231071373	1.157736667	2.231071373	Up	0.006357066	0.28384482
285220	EPHA6	EPH receptor A6	6.10287	6.54138	7.63206	3.1894	3.53826	4.51907	-8.054862714	-3.00986	8.054862714	Down	0.000491776	0.164248294
112495	GTF3C6	General transcription factor IIIC subunit 6	7.74902	6.31843	6.78562	6.10562	5.79173	5.30593	-2.323978411	-1.216596667	2.323978411	Down	0.020902203	0.371993438
51195	RAPGEFL1	Rap guanine nucleotide exchange factor like 1	8.95569	7.27804	8.59529	10.26721	8.91463	9.40047	2.380222872	1.251096667	2.380222872	Up	0.048772146	0.446143522
8399	PLA2G10	Phospholipase A2 group X	5.90862	5.88874	6.28563	8.01339	6.56253	8.50266	3.171568862	1.665196667	3.171568862	Up	0.011590415	0.327659866

22974	TPX2	TPX2, microtubule-associated	5.30849	4.40736	4.95362	7.30593	8.17031	6.66314	5.617662686	2.48997	5.617662686	Up	0.000672799	0.172631847
352954	GATS	GATS, stromal antigen 3 opposite strand	6.35481	7.7348	7.66735	5.17997	4.94788	6.20353	-3.502843825	-1.808526667	3.502843825	Down	0.007558529	0.295713358
6359	CCL15	Chemokine (C-C motif) ligand 15	6.91419	4.95206	5.09481	6.65264	7.33968	7.94896	3.160325885	1.660073333	3.160325885	Up	0.025801401	0.385334454
26783	SNORA65	Small nucleolar RNA, H/ACA box 65	7.82568	8.57458	8.49768	9.69121	8.57824	9.73379	2.049255685	1.0351	2.049255685	Up	0.03207724	0.403671192
770	CA11	Carbonic anhydrase XI	7.7042	7.42661	7.41739	6.17371	5.53159	5.01115	-3.847487573	-1.943916667	3.847487573	Down	0.000551731	0.164818725
29028	ATAD2	Atpase family, AAA domain containing 2	4.47415	4.22609	4.25674	6.61939	7.2939	5.5598	4.506591449	2.172036667	4.506591449	Up	0.001435643	0.187107818
5074	PAWR	PRKC, apoptosis, WT1, regulator	4.47103	4.68381	4.02002	4.90296	6.41554	5.47195	2.305686981	1.205196667	2.305686981	Up	0.020486358	0.371132699
4330	MN1	Meningioma (disrupted in balanced translocation) 1	4.29588	4.24132	4.07857	5.50989	5.74227	4.41518	2.023972938	1.01719	2.023972938	Up	0.024172233	0.382496957
1308	COL17A1	Collagen, type XVII, α 1	3.84205	4.34575	3.96496	7.77446	7.34741	5.33485	6.811566709	2.767986667	6.81156667	Up	0.0027118	0.2267671

											09		72	12
643866	CBLN3	Cerebellin 3 precursor	5.82857	4.91236	6.22332	4.80438	4.49856	4.62843	-2.015251645	-1.01096	2.015251645	Down	0.022906668	0.380340259
100124696	TEC	Transient erythroblastopenia of childhood	6.44016	6.87351	6.67125	6.15229	5.27174	5.43485	-2.059099197	-1.042013333	2.059099197	Down	0.009076606	0.310474429
346389	MACC1	Metastasis associated in colon cancer 1	5.94532	6.76557	6.82316	6.9311	8.12514	8.03355	2.274022717	1.185246667	2.274022717	Up	0.022842531	0.379921168
23095	KIF1B	Kinesin family member 1B	6.15783	6.71252	6.75306	5.36439	5.75192	4.67101	-2.426196948	-1.278696667	2.426196948	Down	0.00660101	0.28661991
154064	RAET1L	Retinoic acid early transcript 1L	5.41502	5.18697	4.64681	6.32896	5.96492	7.31171	2.736370028	1.452263333	2.736370028	Up	0.007987247	0.299139554
91227	GGTLC2	Γ-glutamyltransferase light chain 2	9.16157	9.31314	8.59698	7.48881	7.56931	5.95581	-4.053739364	-2.019253333	4.053739364	Down	0.003671527	0.238598853
11332	ACOT7	Acyl-coa thioesterase 7	5.41992	5.31841	5.62666	6.51068	7.97268	6.07746	2.636474421	1.39861	2.636474421	Up	0.022249607	0.378437047
10778	ZNF271P	Zinc finger protein 271, pseudogene	4.17265	4.32986	4.09634	3.98063	3.32469	2.12204	-2.0808361	-1.057163333	2.0808361	Down	0.047426424	0.442162965
7168	TPM1	Tropomyosin 1 (α)	9.9552	8.2708	8.9465	10.808	10.193	9.7385	2.2804206	1.1893	2.28042	Up	0.04185	0.43006

			8	3		86	09	6	96		0696		5763	1029
107794	ZNF460	Zinc finger protein 460	4.4974	5.17904	4.80468	6.26405	6.02304	6.47506	2.688888626	1.42701	2.688888626	Up	0.000791562	0.177732945
80310	PDGFD	Platelet derived growth factor D	7.953359	7.641844	7.3505	5.881222	7.400755	6.153358	-2.250314535	-1.170126667	2.250314535	Down	0.027854543	0.391486937
113146	AHNAK2	AHNAK nucleoprotein 2	5.396644	4.860922	4.812214	7.063933	6.700755	7.652228	4.33436305	2.11582	4.33436305	Up	0.000272108	0.150275849
378925	RNF148	Ring finger protein 148	4.482088	5.6526	5.375564	4.482661	3.309998	3.637734	-2.567083102	-1.36013	2.567083102	Down	0.012845893	0.336174155
25890	ABI3BP	ABI family member 3 binding protein	4.2126	3.646696	3.754433	6.9172	6.518755	5.568099	5.515085811	2.463383333	5.515085811	Up	0.000312895	0.157718351
22977	AKR7A3	Aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)	8.729992	7.843341	9.013188	8.201033	6.9916	5.831522	-2.869474725	-1.520786667	2.869474725	Down	0.042586057	0.431964595
286077	FAM83H	Family with sequence similarity 83 member H	4.819244	4.594833	4.937233	7.206663	6.070069	5.192227	2.589661142	1.372763333	2.589661142	Up	0.025152386	0.383712762
5327	PLAT	Plasminogen activator, tissue	5.068722	5.563338	4.581688	6.038882	7.948888	5.956005	2.982778126	1.576656667	2.982778126	Up	0.027866727	0.391486937
31	HLA-	Major	9.	8.	9.	5.	8.	7.	-3.	-1.	3.3	D	0.0	0.4

08	DMA	histocompatibility complex, class II, DM α	31765	03151	00995	62252	05271	50779	306633922	725363333	06633922	own	34790627	08423981
124989	EFCAB13	EF-hand calcium binding domain 13	4.97442	4.62979	4.51478	6.78188	4.81548	6.3431	2.418015233	1.273823333	2.418015233	Up	0.037476938	0.416790916
2626	GATA4	GATA binding protein 4	5.56243	4.61354	4.37891	5.8977	7.197	6.66344	3.327456948	1.73442	3.327456948	Up	0.005410075	0.269321526
6711	SPTBN1	Spectrin, β, non-erythrocytic 1	6.75853	5.8116	6.27049	7.924	7.96019	8.15667	3.325135964	1.733413333	3.325135964	Up	0.000505574	0.164248294
125931	CEACAM20	Carcinoembryonic antigen-related cell adhesion molecule 20	5.76236	7.62836	6.67858	5.09337	4.97562	5.13826	-3.075206591	-1.620683333	3.075206591	Down	0.00875534	0.308521975
5799	PTPRN2	Protein tyrosine phosphatase, receptor type, N polypeptide 2	6.42611	8.8714	9.21768	5.35097	6.28345	6.09697	-4.794122145	-2.261266667	4.794122145	Down	0.017146285	0.360012938
6609	SMPD1	Sphingomyelin phosphodiesterase 1, acid lysosomal	6.23402	6.17563	5.93123	4.91221	4.93472	4.70063	-2.40233942	-1.26444	2.40233942	Down	0.000385783	0.160901541
4684	NCAM1	Neural cell adhesion molecule 1	5.80384	7.44181	5.18443	4.52408	4.90748	4.90353	-2.575757308	-1.364996667	2.575757308	Down	0.042273255	0.431206222
3251	HPRT1	Hypoxanthine phosphoribosyltransferase 1	5.33479	5.07252	4.82881	6.385	7.13454	5.6369	2.473876248	1.306773333	2.473876248	Up	0.012446419	0.334466731

4124	MAN2A1	Mannosidase, α, class 2A, member 1	6.99523	6.05271	6.28596	5.19721	6.00546	5.0792	-2.024188062	-1.017343333	2.024188062	Down	0.025178797	0.383712762
1128	CHRM1	Cholinergic receptor, muscarinic 1	4.09494	7.10624	6.35304	4.2952	3.74198	4.23629	-3.387568219	-1.76025	3.387568219	Down	0.04474896	0.435527714
222643	UNC5CL	Unc-5 family C-terminal like	7.31771	7.13235	7.43071	5.75303	6.4559	5.56571	-2.582395554	-1.36871	2.582395554	Down	0.001979963	0.201230431
688	KLF5	Kruppel-like factor 5 (intestinal)	8.23129	7.36602	8.27646	9.30321	8.87617	8.93499	2.114329169	1.0802	2.114329169	Up	0.010227379	0.318638427
10926	DBF4	DBF4 zinc finger	4.62981	5.0894	4.94854	5.43024	6.77325	5.83408	2.178406713	1.123273333	2.178406713	Up	0.017982252	0.362487638
4253	CTAGE5	CTAGE family member 5	9.81785	9.66573	10.14795	8.52847	8.28962	9.11925	-2.347941831	-1.231396667	2.347941831	Down	0.003550918	0.237146666
8345	HIST1H2BH	Histone cluster 1, h2bh	10.09221	8.93745	9.01679	10.55016	11.69154	10.4295	2.911138207	1.541583333	2.911138207	Up	0.011829348	0.329737949
83593	RASSF5	Ras association (ralgds/AF-6) domain family member 5	8.66905	8.74654	8.95401	6.21665	7.24465	7.33371	-3.625541949	-1.858196667	3.625541949	Down	0.00090824	0.181040924
57653	LOC100499484-C9ORF174	LOC100499484-c9orf174 readthrough	5.2056	5.44104	5.73664	4.11491	4.38103	4.78425	-2.048209564	-1.034363333	2.048209564	Down	0.0046104	0.2544163

											64		78	12
2012	EMP1	Epithelial membrane protein 1	4.56871	3.41381	3.51102	4.8985	7.44825	6.13804	5.029505867	2.330416667	5.029505867	Up	0.008928753	0.309008878
4751	NEK2	NIMA-related kinase 2	4.72617	4.28425	4.69948	7.53782	7.7247	5.94394	5.652359918	2.498853333	5.652359918	Up	0.001252959	0.187107818
105377751	LOC105377751	Uncharacterized LOC105377751	6.87689	6.80655	6.70389	3.93424	3.95251	5.88338	-4.613089661	-2.205733333	4.613089661	Down	0.004083177	0.244251712
9075	CLDN2	Claudin 2	6.65581	12.05315	11.97238	5.06986	7.38102	4.28527	-25.07880441	-4.648396667	25.07880441	Down	0.019690448	0.367760084
8337	HIST2H2AA3	Histone cluster 2, h2aa3	10.47523	9.12074	9.52914	11.07825	11.23459	10.41847	2.300690099	1.202066667	2.300690099	Up	0.020749162	0.37173766
202134	FAM153B	Family with sequence similarity 153 member B	6.87689	6.80655	6.70389	3.93424	3.95251	5.88338	-4.613089661	-2.205733333	4.613089661	Down	0.004083177	0.244251712
5267	SERPINA4	Serpin peptidase inhibitor, clade A (α-1 antiproteinase, antitrypsin), member 4	9.52232	9.92659	9.84962	7.5251	6.2358	9.33408	-4.192613965	-2.06785	4.192613965	Down	0.023328364	0.380853985
10092	ARPC5	Actin related protein 2/3 complex subunit 5	7.97386	7.16961	7.47457	8.48567	8.87241	8.35409	2.043973748	1.031376667	2.043973748	Up	0.008430707	0.305830366
6948	TCN2	Transcobalamin II	9.05	8.68	9.01	6.83	7.30	6.44	-4.149	-2.052	4.149	Do	0.000	0.128

			174	541	156	959	49	576	162038	82	162038	wn	163191	621894
246734	NPCDR1	Nasopharyngeal carcinoma, down-regulated 1	5.72723	4.13972	5.78095	4.49946	3.80259	3.83583	-2.252655451	-1.171626667	2.252655451	Down	0.042244776	0.431154995
2246	FGF1	Fibroblast growth factor 1 (acidic)	5.0621	5.76176	5.75274	4.16593	4.93309	4.32878	-2.069955854	-1.0496	2.069955854	Down	0.010340935	0.319375494
745	MYRF	Myelin regulatory factor	8.17492	8.01056	8.15524	6.70384	5.78122	6.76081	-3.245145879	-1.698283333	3.245145879	Down	0.000902787	0.181040924
57175	CORO1B	Coronin, actin binding protein, 1B	6.9408	7.49776	7.06541	6.03008	6.18748	6.10959	-2.08340021	-1.05894	2.08340021	Down	0.002374549	0.214499243
390	RND3	Rho family gtpase 3	6.84746	5.64488	5.31932	7.51629	8.05559	7.30535	3.223266182	1.688523333	3.223266182	Up	0.006022442	0.279481742
2260	FGFR1	Fibroblast growth factor receptor 1	6.06597	5.67623	6.34101	4.84059	5.18485	4.77562	-2.134724659	-1.09405	2.134724659	Down	0.003220148	0.234716379
972	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain	13.45187	12.41313	13.0121	9.67689	12.25017	11.99046	-3.145290636	-1.653193333	3.145290636	Down	0.047073425	0.441457431
8346	HIST1H2BI	Histone cluster 1, h2bi	7.37247	6.42515	6.32847	7.46377	8.92266	7.3238	2.288993448	1.194713333	2.288993448	Up	0.048305789	0.444427855
52	PI3	Peptidase inhibitor	5.	6.	6.	9.	8.	8.	5.3	2.4	5.3	U	0.0	0.1

66		3, skin-derived	80384	19162	50426	15384	23064	33358	00444437	06113333	00444437	p	00164609	28621894
284391	ZNF844	Zinc finger protein 844	6.045322	6.077726	5.975555	2.910644	5.585859	4.610072	-3.166143548	-1.662726667	3.166143548	Down	0.031559703	0.401565284
2121	EVC	Ellis van Creveld protein	7.294418	6.715565	7.274855	4.760007	6.004431	5.659908	-3.074616913	-1.620406667	3.074616913	Down	0.003111439	0.234239382
199777	ZNF626	Zinc finger protein 626	6.690557	6.617055	6.367388	4.291889	5.345541	4.888665	-3.286039905	-1.71635	3.286039905	Down	0.000773495	0.177732945
100133331	LOC100133331	Uncharacterized LOC100133331	8.033359	8.308488	7.492011	5.710499	6.092297	7.818244	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
7020	TFAP2A	Transcription factor AP-2 α (activating enhancer binding protein 2 α)	4.3661	2.729855	3.454889	9.067776	6.846777	7.205777	18.24994233	4.18982	18.24994233	Up	0.000398829	0.160901541
3762	KCNJ5	Potassium channel, inwardly rectifying subfamily J, member 5	5.190447	7.074399	6.073999	4.9766	4.852899	5.077099	-2.210066836	-1.14409	2.210066836	Down	0.039585378	0.423367407
83998	REG4	Regenerating family member 4	4.213887	4.450003	4.935563	6.958442	5.750999	5.161443	2.682856704	1.42377	2.682856704	Up	0.018673257	0.365320718
5802	PTPRS	Protein tyrosine phosphatase, receptor type, S	8.061117	7.813314	8.340558	6.830005	6.178099	5.506077	-3.73271838	-1.900226667	3.73271838	Down	0.001251401	0.187107818

6334	SCN8A	Sodium channel, voltage gated, type VIII α subunit	7.57537	5.69514	6.58486	4.92381	5.5381	5.64576	-2.377150646	-1.249233333	2.377150646	Down	0.036144969	0.412667389
2528	FUT6	Fucosyltransferase 6	7.77	8.4189	8.3897	7.63816	6.60044	5.36771	-3.154540777	-1.65743	3.154540777	Down	0.020677985	0.371592873
9882	TBC1D4	TBC1 domain family member 4	6.4899	6.84369	6.98178	6.19197	5.99881	4.74366	-2.184005768	-1.126976667	2.184005768	Down	0.027707371	0.391408015
1948	EFNB2	Ephrin-B2	2.68314	5.63236	5.64367	7.30563	7.48707	6.42895	5.354777637	2.420826667	5.354777637	Up	0.020362863	0.371132699
8847	DLEU2	Deleted in lymphocytic leukemia 2 (non-protein coding)	4.00354	4.05014	4.50138	6.06232	5.5475	4.74218	2.404349572	1.265646667	2.404349572	Up	0.009433577	0.312074868
79983	POF1B	Premature ovarian failure, 1B	8.57895	7.6674	8.38131	8.80958	10.28272	9.54494	2.525425822	1.336526667	2.525425822	Up	0.016981299	0.358579886
653	BMP5	Bone morphogenetic protein 5	6.90934	5.81066	5.35897	4.5176	4.19996	3.93257	-3.505483231	-1.809613333	3.505483231	Down	0.003163963	0.234239382
9133	CCNB2	Cyclin B2	4.7279	4.17007	4.78808	5.69343	6.60633	5.03335	2.322512991	1.215686667	2.322512991	Up	0.022128507	0.378357221
91894	C11orf52	Chromosome 11 open reading frame 52	6.60859	6.14756	6.22978	4.51208	4.94788	5.35582	-2.620877639	-1.39005	2.6208776	Down	0.0016265	0.1880118

											39		58	53
892	CCNC	Cyclin C	8.00185	7.8557	7.79509	6.36732	6.94964	6.61386	-2.362978768	-1.240606667	2.362978768	Down	0.001054964	0.18614792
25805	BAMBI	BMP and activin membrane-bound inhibitor	6.52324	7.93976	8.42267	5.34235	4.95383	6.94956	-3.680691073	-1.879976667	3.680691073	Down	0.025154084	0.383712762
54749	EPDR1	Ependymin related 1	5.36762	5.07831	3.72192	6.37361	6.94305	5.42751	2.878745	1.52544	2.878745	Up	0.025970447	0.385810778
2057	EPOR	Erythropoietin receptor	6.69066	7.26752	7.21146	5.91256	4.57445	6.27061	-2.771512152	-1.470673333	2.771512152	Down	0.014573417	0.346827031
3295	HSD17B4	Hydroxysteroid (17-β) dehydrogenase 4	9.34346	9.26384	9.3132	8.67308	8.20108	8.02584	-2.009495481	-1.006833333	2.009495481	Down	0.003931218	0.240204761
6193	RPS5	Ribosomal protein S5	7.82352	8.97411	8.75431	9.87586	9.75974	9.64994	2.369418985	1.244533333	2.369418985	Up	0.007060638	0.289316501
105379556	LOC105379556	Nascent polypeptide-associated complex subunit α, muscle-specific form-like	8.03359	8.30848	7.49201	5.71049	6.09297	7.81824	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
55022	PID1	Phosphotyrosine interaction domain containing 1	6.46536	6.19371	6.03306	7.07357	7.68571	7.12046	2.088600647	1.062536667	2.088600647	Up	0.004400038	0.250698014
921	CD5	CD5 molecule	5.14	7.62	7.28	4.56	5.25	5.23	-3.180	-1.669	3.180	Do	0.035	0.409

			873	584	307	271	539	215	227558	13	227558	wn	189948	001913
51377	UCHL5	Ubiquitin C-terminal hydrolase L5	6.01563	6.59477	6.3686	7.98323	7.77423	6.56992	2.167642241	1.116126667	2.167642241	Up	0.028026135	0.392002337
79899	PRR5L	Proline rich 5 like	6.12157	6.06837	5.78522	4.23967	5.58601	4.95565	-2.091604385	-1.06461	2.091604385	Down	0.019674001	0.367760084
23306	NEMP1	Nuclear envelope integral membrane protein 1	4.87409	4.95777	4.55901	6.18516	5.95047	6.12645	2.445964276	1.290403333	2.445964276	Up	0.000426544	0.163378734
7694	ZNF135	Zinc finger protein 135	6.955552	6.9695	7.04655	4.14386	5.22356	4.479	-5.187538002	-2.37505	5.187538002	Down	0.000108293	0.127849829
1824	DSC2	Desmocollin 2	6.11592	5.12076	4.87428	6.99773	7.63205	5.78852	2.705283895	1.43578	2.705283895	Up	0.031404175	0.401565284
79891	ZNF671	Zinc finger protein 671	5.4398	5.90835	5.70985	3.93665	4.17055	4.94739	-2.521828208	-1.33447	2.521828208	Down	0.003312279	0.236576681
64116	SLC39A8	Solute carrier family 39 (zinc transporter), member 8	6.00621	6.92091	6.65338	5.05784	4.89694	4.00748	-3.662291601	-1.872746667	3.662291601	Down	0.00146488	0.187107818
54997	TESC	Tescalcin	8.44061	8.79175	8.8957	7.90533	6.16599	7.8859	-2.621295503	-1.39028	2.621295503	Down	0.024828199	0.383252834
57	SYT13	Synaptotagmin 13	8.	7.	8.	5.	4.	3.	-11	-3.	11.	D	0.0	0.1

586			557726	6308	9927	834494	68769	9398	.89906795	572776667	89906795	own	00349026	60901541
100132287	LOC100132287	Uncharacterized LOC100132287	8.03359	8.30848	7.49201	5.71049	6.09297	7.81824	-2.646575235	-1.404126667	2.646575235	Down	0.040058298	0.424359444
26118	WSB1	WD repeat and SOCS box containing 1	4.47415	4.14018	3.95299	5.17114	5.85911	4.8338	2.141928022	1.09891	2.141928022	Up	0.008720593	0.308521975
10308	ZNF267	Zinc finger protein 267	4.22246	3.26573	3.92713	4.83455	5.02548	5.84498	2.694274169	1.429896667	2.694274169	Up	0.005175757	0.266239084
9547	CXCL14	Chemokine (C-X-C motif) ligand 14	7.26205	9.54289	8.36475	5.64196	7.07728	6.76803	-3.717003338	-1.89414	3.717003338	Down	0.019739254	0.367760084
847	CAT	Catalase	9.77116	9.34462	9.33808	9.12551	8.69447	7.57287	-2.028392249	-1.020336667	2.028392249	Down	0.042833386	0.432078881
84765	ZNF577	Zinc finger protein 577	5.39528	6.1772	6.31809	3.64467	4.90587	4.11262	-3.346075504	-1.74247	3.346075504	Down	0.003108513	0.234239382
64783	RBM15	RNA binding motif protein 15	4.90392	5.57516	5.44567	7.22397	6.59372	5.8252	2.360970475	1.23938	2.360970475	Up	0.015609185	0.350843938
182	JAG1	Jagged 1	4.78316	5.22441	4.60748	7.15605	6.90926	6.18917	3.680265887	1.87981	3.680265887	Up	0.000600083	0.167782685