

**Table S1.** List of DEGs in melatonin treatment (FC = 0, adjusted *p*-value ≤ 0.05).

<i>Symbol</i>	<i>Entrez Gene Name</i>	<i>ENSEMBL</i>	<i>Expr Log Ratio</i>	<i>Expr p-Value</i>
<i>AMOTL2</i>	angiomin like 2	ENSG00000114019	0.277	1.00E-02
<i>AP4S1</i>	adaptor related protein complex 4 subunit sigma 1	ENSG00000100478	-0.711	1.00E-02
<i>HELQ</i>	helicase, POLQ like	ENSG00000163312	0.739	1.00E-02
<i>ORC2</i>	origin recognition complex subunit 2	ENSG00000115942	-0.427	1.00E-02
<i>PREX1</i>	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	ENSG00000124126	-0.636	1.00E-02
<i>TIMM13</i>	translocase of inner mitochondrial membrane 13	ENSG00000099800	-0.284	1.00E-02
<i>TOMM40L</i>	translocase of outer mitochondrial membrane 40 like	ENSG00000158882	0.626	1.00E-02
<i>TRMT112</i>	tRNA methyltransferase subunit 11-2	ENSG00000173113	-0.244	1.00E-02
<i>ZNF707</i>	zinc finger protein 707	ENSG00000181135	-0.590	1.00E-02
<i>OXLD1</i>	oxidoreductase like domain containing 1	ENSG00000204237	0.597	1.00E-03
<i>THOC1</i>	THO complex 1	ENSG00000079134	-0.633	1.00E-03
<i>AE00065822</i>		ENSG00000257096	-1.515	1.10E-02
<i>C4orf36</i>	chromosome 4 open reading frame 36	ENSG00000163633	-1.918	1.10E-02
<i>COL8A2</i>	collagen type VIII alpha 2 chain	ENSG00000171812	-1.918	1.10E-02
<i>COLQ</i>	collagen like tail subunit of asymmetric acetylcholinesterase	ENSG00000206561	-1.189	1.10E-02
<i>FHL3</i>	four and a half LIM domains 3	ENSG00000183386	0.459	1.10E-02
<i>GAS1</i>	growth arrest specific 1	ENSG00000180447	-1.276	1.10E-02
<i>KMT5C</i>	lysine methyltransferase 5C	ENSG00000133247	0.581	1.10E-02
<i>LINC00894</i>	long intergenic non-protein coding RNA 894	ENSG00000235703	1.837	1.10E-02
<i>LOC101928069</i>	uncharacterized LOC101928069	ENSG00000255517	0.906	1.10E-02
<i>NEK11</i>	NIMA related kinase 11	ENSG00000114670	-0.730	1.10E-02
<i>PCCA-DT</i>	PCCA divergent transcript	ENSG00000274605	1.625	1.10E-02
<i>PLAUR</i>	plasminogen activator, urokinase receptor	ENSG00000011422	-0.332	1.10E-02
<i>RIPOR1</i>	RHO family interacting cell polarization regulator 1	ENSG00000039523	0.541	1.10E-02
<i>RP9P</i>	RP9 pseudogene	ENSG00000205763	-0.646	1.10E-02
<i>SEC23B</i>	SEC23 homolog B, coat complex II component	ENSG00000101310	0.325	1.10E-02
<i>SLC27A3</i>	solute carrier family 27 member 3	ENSG00000143554	-1.189	1.10E-02
<i>SLFN12L</i>	schlafen family member 12 like	ENSG00000205045	1.837	1.10E-02
<i>TDRD7</i>	tudor domain containing 7	ENSG00000196116	-0.505	1.10E-02
<i>ZNF674</i>	zinc finger protein 674	ENSG00000251192	1.311	1.10E-02
<i>AC0059436</i>		ENSG00000279009	0.428	1.20E-02
<i>CHCHD10</i>	coiled-coil-helix-coiled-coil-helix domain containing 10	ENSG00000250479	-2.612	1.20E-02
<i>CSF1</i>	colony stimulating factor 1	ENSG00000184371	-0.417	1.20E-02
<i>CTSL</i>	cathepsin L	ENSG00000135047	-0.222	1.20E-02
<i>DCTN3</i>	dynactin subunit 3	ENSG00000137100	-0.315	1.20E-02
<i>ELMO3</i>	engulfment and cell motility 3	ENSG00000102890	1.025	1.20E-02
<i>ELP2</i>	elongator acetyltransferase complex subunit 2	ENSG00000134759	-0.319	1.20E-02
<i>FAM111A-DT</i>	FAM111A divergent transcript	ENSG00000245571	-0.915	1.20E-02

<i>ITGA10</i>	integrin subunit alpha 10	ENSG00000143127	1.414	1.20E-02
<i>JAK2</i>	Janus kinase 2	ENSG00000096968	0.438	1.20E-02
<i>KANK1</i>	KN motif and ankyrin repeat domains 1	ENSG00000107104	-0.391	1.20E-02
<i>LIMD1-AS1</i>	LIMD1 antisense RNA 1	ENSG00000230530	0.810	1.20E-02
<i>LOC101926943</i>	uncharacterized LOC101926943	ENSG00000232729	0.428	1.20E-02
<i>NANOS3</i>	nanos C2HC-type zinc finger 3	ENSG00000187556	-2.612	1.20E-02
<i>NPY1R</i>	neuropeptide Y receptor Y1	ENSG00000164128	-0.437	1.20E-02
<i>PALM2AKAP2</i>	PALM2 and AKAP2 fusion	ENSG00000157654	-0.766	1.20E-02
<i>PCLAF</i>	PCNA clamp associated factor	ENSG00000166803	0.523	1.20E-02
<i>RP11_2B62</i>		ENSG00000269929	-2.612	1.20E-02
<i>RP11_315D164</i>		ENSG00000260657	0.934	1.20E-02
<i>RP11_399B171</i>		ENSG00000278962	-1.983	1.20E-02
<i>RP11_603J245</i>		ENSG00000258317	0.432	1.20E-02
<i>RP11_63M222</i>		ENSG00000260465	0.392	1.20E-02
<i>RPS26</i>	ribosomal protein S26	ENSG00000197728	-0.227	1.20E-02
<i>SLC37A4</i>	solute carrier family 37 member 4	ENSG00000137700	0.458	1.20E-02
<i>SSSCA1-AS1</i>	SSSCA1 antisense RNA 1 (head to head)	ENSG00000260233	2.097	1.20E-02
<i>TMEM80</i>	transmembrane protein 80	ENSG00000177042	-0.478	1.20E-02
<i>ZFP3</i>	ZFP3 zinc finger protein	ENSG00000180787	-0.766	1.20E-02
<i>ZFPM1</i>	zinc finger protein, FOG family member 1	ENSG00000179588	0.381	1.20E-02
<i>COX4I1</i>	cytochrome c oxidase subunit 4I1	ENSG00000131143	-0.290	1.20E-03
<i>TPST2</i>	tyrosylprotein sulfotransferase 2	ENSG00000128294	-0.478	1.20E-03
<i>ZC3H8</i>	zinc finger CCCH-type containing 8	ENSG00000144161	-1.069	1.20E-03
<i>ADSS1</i>	adenylosuccinate synthase 1	ENSG00000185100	3.153	1.30E-02
<i>GLYR1</i>	glyoxylate reductase 1 homolog	ENSG00000140632	0.267	1.30E-02
<i>KIAA0930</i>	KIAA0930	ENSG00000100364	0.328	1.30E-02
<i>METTL25</i>	methyltransferase like 25	ENSG00000127720	1.252	1.30E-02
<i>MIR181A1HG</i>	MIR181A1 host gene	ENSG00000229989	-2.073	1.30E-02
<i>MPV17</i>	mitochondrial inner membrane protein MPV17	ENSG00000115204	-0.326	1.30E-02
<i>PRPF40B</i>	pre-mRNA processing factor 40 homolog B	ENSG00000110844	0.312	1.30E-02
<i>RNF208</i>	ring finger protein 208	ENSG00000212864	-1.513	1.30E-02
<i>RP11-753C18.12</i>		ENSG00000282772	1.023	1.30E-02
<i>RP11_120K92</i>		ENSG00000259684	3.153	1.30E-02
<i>RP11_27M241</i>		ENSG00000256013	-0.753	1.30E-02
<i>RP11_459E51</i>		ENSG00000253125	-0.904	1.30E-02
<i>TUBE1</i>	tubulin epsilon 1	ENSG00000074935	0.782	1.30E-02
<i>USP12</i>	ubiquitin specific peptidase 12	ENSG00000152484	0.398	1.30E-02
<i>ZBED1</i>	zinc finger BED-type containing 1	ENSG00000214717	-0.277	1.30E-02
<i>LIME1</i>	Lck interacting transmembrane adaptor 1	ENSG00000203896	1.408	1.30E-03
<i>AC0936735</i>		ENSG00000232533	-0.655	1.40E-02
<i>ARL4A</i>	ADP ribosylation factor like GTPase 4A	ENSG00000122644	-0.324	1.40E-02
<i>BRCA2</i>	BRCA2 DNA repair associated	ENSG00000139618	0.554	1.40E-02
<i>GLI4</i>	GLI family zinc finger 4	ENSG00000250571	0.547	1.40E-02
<i>LINC00511</i>	long intergenic non-protein coding RNA 511	ENSG00000227036	-1.325	1.40E-02
<i>MARCHF7</i>	membrane associated ring-CH-type finger 7	ENSG00000136536	0.258	1.40E-02
<i>NKILA</i>		ENSG00000278709	-1.449	1.40E-02
<i>OAS3</i>	2'-5'-oligoadenylate synthetase 3	ENSG00000111331	0.351	1.40E-02
<i>RLF</i>	rearranged L-myc fusion	ENSG00000117000	0.431	1.40E-02
<i>SLC9A3-AS1</i>	SLC9A3 antisense RNA 1	ENSG00000225138	0.286	1.40E-02
<i>SMYD5</i>	SMYD family member 5	ENSG00000135632	0.427	1.40E-02
<i>SUGT1</i>	SGT1 homolog, MIS12 kinetochore complex	ENSG00000165416	-0.296	1.40E-02

	assembly cochaperone			
ZFP69B	ZFP69 zinc finger protein B	ENSG00000187801	0.892	1.40E-02
RNF215	ring finger protein 215	ENSG00000099999	-0.641	1.40E-03
ZBTB11	zinc finger and BTB domain containing 11	ENSG00000066422	0.492	1.40E-03
B3GNT7	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7	ENSG00000156966	-1.511	1.50E-02
CIRBP-AS1	CIRBP antisense RNA 1	ENSG00000267493	-1.221	1.50E-02
DIS3L2	DIS3 like 3'-5' exoribonuclease 2	ENSG00000144535	0.426	1.50E-02
EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1	ENSG00000122547	1.270	1.50E-02
GALM	galactose mutarotase	ENSG00000143891	-0.543	1.50E-02
MAPT	microtubule associated protein tau	ENSG00000186868	-1.221	1.50E-02
NAA20	N(alpha)-acetyltransferase 20, NatB catalytic subunit	ENSG00000173418	-0.318	1.50E-02
PIGP	phosphatidylinositol glycan anchor biosynthesis class P	ENSG00000185808	0.791	1.50E-02
PPP4R3B	protein phosphatase 4 regulatory subunit 3B	ENSG00000275052	0.289	1.50E-02
PSMF1	proteasome inhibitor subunit 1	ENSG00000125818	0.274	1.50E-02
RADX	RPA1 related single stranded DNA binding protein, X-linked	ENSG00000147231	1.165	1.50E-02
RP11_1055B84		ENSG00000262877	-0.833	1.50E-02
STX4	syntaxin 4	ENSG00000103496	-0.297	1.50E-02
SYDE1	synapse defective Rho GTPase homolog 1	ENSG00000105137	0.260	1.50E-02
TMEM116	transmembrane protein 116	ENSG00000198270	0.927	1.50E-02
UTP15	UTP15 small subunit processome component	ENSG00000164338	-0.493	1.50E-02
SUSD6	sushi domain containing 6	ENSG00000100647	-0.497	1.50E-03
SLX4IP	SLX4 interacting protein	ENSG00000149346	1.258	1.50E-04
ALDH3B1	aldehyde dehydrogenase 3 family member B1	ENSG00000006534	0.336	1.60E-02
APBA1	amyloid beta precursor protein binding family A member 1	ENSG00000107282	0.812	1.60E-02
APOBEC3G	apolipoprotein B mRNA editing enzyme catalytic subunit 3G	ENSG00000239713	-0.883	1.60E-02
APOL1	apolipoprotein L1	ENSG00000100342	-0.417	1.60E-02
B4GAT1	beta-1,4-glucuronyltransferase 1	ENSG00000174684	0.318	1.60E-02
JCAD	junctional cadherin 5 associated	ENSG00000165757	0.231	1.60E-02
KLHDC8B	kelch domain containing 8B	ENSG00000185909	0.496	1.60E-02
RRP1	ribosomal RNA processing 1	ENSG00000160214	-0.344	1.60E-02
TMEM79	transmembrane protein 79	ENSG00000163472	0.424	1.60E-02
TPK1	thiamin pyrophosphokinase 1	ENSG00000196511	-0.773	1.60E-02
TTI2	TELO2 interacting protein 2	ENSG00000129696	-0.432	1.60E-02
ZNF691	zinc finger protein 691	ENSG00000164011	-0.789	1.60E-02
ST7L	suppression of tumorigenicity 7 like	ENSG00000007341	-0.649	1.60E-03
MT-ATP6	ATP synthase F0 subunit 6	ENSG00000198899	-0.292	1.60E-04
ACAD8	acyl-CoA dehydrogenase family member 8	ENSG00000151498	0.415	1.70E-02
AP00306812		ENSG00000255173	-0.561	1.70E-02
ARMC1	armadillo repeat containing 1	ENSG00000104442	-0.330	1.70E-02
BAIAP2-DT	BAIAP2 divergent transcript	ENSG00000226137	-0.330	1.70E-02
CHL1	cell adhesion molecule L1 like	ENSG00000134121	0.415	1.70E-02
COG2	component of oligomeric golgi complex 2	ENSG00000135775	-0.543	1.70E-02
CTB_12A173		ENSG00000269292	-0.308	1.70E-02

<i>FARSA</i>	phenylalanyl-tRNA synthetase subunit alpha	ENSG00000179115	-0.254	1.70E-02
<i>FLCN</i>	folliculin	ENSG00000154803	-0.361	1.70E-02
<i>GIT1</i>	GIT ArfGAP 1	ENSG00000108262	-0.272	1.70E-02
<i>LINC01852</i>		ENSG00000236914	-1.441	1.70E-02
<i>MANEA</i>	mannosidase endo-alpha	ENSG00000172469	0.580	1.70E-02
<i>PLA2G4A</i>	phospholipase A2 group IVA	ENSG00000116711	0.540	1.70E-02
<i>RP11_264B174</i>		ENSG00000260367	0.540	1.70E-02
<i>RPS27</i>	ribosomal protein S27	ENSG00000177954	-0.204	1.70E-02
<i>SNX18</i>	sorting nexin 18	ENSG00000178996	0.218	1.70E-02
<i>SYNPO2</i>	synaptopodin 2	ENSG00000172403	0.231	1.70E-02
<i>TCTN2</i>	tectonic family member 2	ENSG00000168778	-0.503	1.70E-02
<i>ITPKB</i>	inositol-trisphosphate 3-kinase B	ENSG00000143772	0.591	1.70E-03
<i>ZNF843</i>	zinc finger protein 843	ENSG00000176723	-2.005	1.70E-03
<i>ACSS1</i>	acyl-CoA synthetase short chain family member 1	ENSG00000154930	1.318	1.80E-02
<i>ALG1L9P</i>	ALG1 like 9, pseudogene	ENSG00000248671	-1.608	1.80E-02
<i>BHLHE40</i>	basic helix-loop-helix family member e40	ENSG00000134107	-0.245	1.80E-02
<i>FAM222A</i>	family with sequence similarity 222 member A	ENSG00000139438	1.214	1.80E-02
<i>FANCB</i>	FA complementation group B	ENSG00000181544	0.948	1.80E-02
<i>FNBP1</i>	formin binding protein 1	ENSG00000187239	-0.286	1.80E-02
<i>GPN2</i>	GPN-loop GTPase 2	ENSG00000142751	-0.383	1.80E-02
<i>KCNAB3</i>	potassium voltage-gated channel subfamily A regulatory beta subunit 3	ENSG00000170049	1.318	1.80E-02
<i>KCNIP2</i>	potassium voltage-gated channel interacting protein 2	ENSG00000120049	1.318	1.80E-02
<i>KCNK3</i>	potassium two pore domain channel subfamily K member 3	ENSG00000171303	0.410	1.80E-02
<i>KIF15</i>	kinesin family member 15	ENSG00000163808	0.428	1.80E-02
<i>NEIL3</i>	nei like DNA glycosylase 3	ENSG00000109674	0.716	1.80E-02
<i>OTUB1</i>	OTU deubiquitinase, ubiquitin aldehyde binding 1	ENSG00000167770	0.244	1.80E-02
<i>RP11_229E134</i>		ENSG00000274630	0.428	1.80E-02
<i>RP11_490E152</i>		ENSG00000233021	1.214	1.80E-02
<i>SPEF2</i>	sperm flagellar 2	ENSG00000152582	1.768	1.80E-02
<i>STAG3L5P-PVRIG2P-PILRB</i>		ENSG00000272752	-1.608	1.80E-02
<i>TBRG1</i>	transforming growth factor beta regulator 1	ENSG00000154144	-0.331	1.80E-02
<i>TRIM66</i>	tripartite motif containing 66	ENSG00000166436	-0.561	1.80E-02
<i>GLYCK</i>	glycerate kinase	ENSG00000168237	-1.028	1.80E-03
<i>CPS1</i>	carbamoyl-phosphate synthase 1	ENSG00000021826	0.382	1.90E-02
<i>IFITM1</i>	interferon induced transmembrane protein 1	ENSG00000185885	-0.645	1.90E-02
<i>MAPK11</i>	mitogen-activated protein kinase 11	ENSG00000185386	0.823	1.90E-02
<i>MIR1915HG</i>	MIR1915 host gene	ENSG00000204682	-0.731	1.90E-02
<i>NDUFC1</i>	NADH:ubiquinone oxidoreductase subunit C1	ENSG00000109390	-0.416	1.90E-02
<i>PIGBOS1</i>	PIGB opposite strand 1	ENSG00000225973	-0.731	1.90E-02
<i>PLA2G15</i>	phospholipase A2 group XV	ENSG00000103066	0.401	1.90E-02
<i>PPP4R3A</i>	protein phosphatase 4 regulatory subunit 3A	ENSG00000100796	0.278	1.90E-02
<i>SLC35F5</i>	solute carrier family 35 member F5	ENSG00000115084	0.333	1.90E-02

TEAD2	TEA domain transcription factor 2	ENSG00000074219	-0.645	1.90E-02
TMEM60	transmembrane protein 60	ENSG00000135211	-0.731	1.90E-02
VGLL4	vestigial like family member 4	ENSG00000144560	-0.225	1.90E-02
ZNFX1	zinc finger NFX1-type containing 1	ENSG00000124201	0.258	1.90E-02
PSMD12	proteasome 26S subunit, non-ATPase 12	ENSG00000197170	0.404	1.90E-03
SLC25A32	solute carrier family 25 member 32	ENSG00000164933	0.569	1.90E-03
AP0016105		ENSG00000228318	2.020	2.00E-02
C3	complement C3	ENSG00000125730	-1.431	2.00E-02
COA8	cytochrome c oxidase assembly factor 8	ENSG00000256053	0.471	2.00E-02
DLX5	distal-less homeobox 5	ENSG00000105880	-1.030	2.00E-02
DSTNP2	DSTN pseudogene 2	ENSG00000248593	1.653	2.00E-02
DUSP4	dual specificity phosphatase 4	ENSG00000120875	-0.219	2.00E-02
EZH1	enhancer of zeste 1 polycomb repressive complex 2 subunit	ENSG00000108799	0.414	2.00E-02
G3BP1	G3BP stress granule assembly factor 1	ENSG00000145907	0.218	2.00E-02
INE1	inactivation escape 1	ENSG00000224975	1.653	2.00E-02
KAT8	lysine acetyltransferase 8	ENSG00000103510	-0.339	2.00E-02
MBTD1	mbt domain containing 1	ENSG00000011258	-0.456	2.00E-02
ORC6	origin recognition complex subunit 6	ENSG00000091651	-0.417	2.00E-02
PTPN4	protein tyrosine phosphatase non-receptor type 4	ENSG00000088179	0.471	2.00E-02
RP11_860B131		ENSG00000256747	0.588	2.00E-02
RP11_867G234		ENSG00000254452	-0.280	2.00E-02
SELENOM	selenoprotein M	ENSG00000198832	0.399	2.00E-02
SIVA1	SIVA1 apoptosis inducing factor	ENSG00000184990	0.318	2.00E-02
SLC35A5	solute carrier family 35 member A5	ENSG00000138459	0.308	2.00E-02
ST3GAL4	ST3 beta-galactoside alpha-2,3-sialyltransferase 4	ENSG00000110080	-0.293	2.00E-02
TOR2A	torsin family 2 member A	ENSG00000160404	0.709	2.00E-02
AC0056143		ENSG00000269296	6.362	2.00E-03
PIGH	phosphatidylinositol glycan anchor biosynthesis class H	ENSG00000100564	0.840	2.00E-03
RP11_400K93		ENSG00000254204	6.238	2.00E-03
RP11_507J182		ENSG00000259773	-1.090	2.00E-04
ARFGEF3	ARFGEF family member 3	ENSG00000112379	-0.925	2.10E-02
ATP6V0E1	ATPase H <sup>+</sup> transporting V0 subunit e1	ENSG00000113732	-0.234	2.10E-02
CBX8	chromobox 8	ENSG00000141570	-0.641	2.10E-02
CORO2A	coronin 2A	ENSG00000106789	0.990	2.10E-02
DHFR2	dihydrofolate reductase 2	ENSG00000178700	-0.782	2.10E-02
HLX-AS1	HLX antisense RNA 1	ENSG00000257551	-1.255	2.10E-02
IGFBP1	insulin like growth factor binding protein 1	ENSG00000146678	-0.782	2.10E-02
ILVBL	ilvB acetolactate synthase like	ENSG00000105135	-0.317	2.10E-02
KCTD7	potassium channel tetramerization domain containing 7	ENSG00000243335	-0.612	2.10E-02
KRT81	keratin 81	ENSG00000205426	-0.848	2.10E-02
LOC440434	aminopeptidase puromycin sensitive pseudogene	ENSG00000274487	-1.379	2.10E-02
NDUFA6	NADH:ubiquinone oxidoreductase subunit A6	ENSG00000184983	-0.359	2.10E-02
PIGW	phosphatidylinositol glycan anchor biosynthesis class W	ENSG00000277161	0.568	2.10E-02
POLR1E	RNA polymerase I subunit E	ENSG00000137054	-0.414	2.10E-02
PRPF38A	pre-mRNA processing factor 38A	ENSG00000134748	-0.330	2.10E-02

<i>RCN1P2</i>	reticulocalbin 1 pseudogene 2	ENSG00000214455	-0.513	2.10E-02
<i>RP11_527N222</i>		ENSG00000253746	0.857	2.10E-02
<i>S100A6</i>	S100 calcium binding protein A6	ENSG00000197956	-0.181	2.10E-02
<i>SACM1L</i>	SAC1 like phosphatidylinositide phosphatase	ENSG00000211456	-0.332	2.10E-02
<i>THOC3</i>	THO complex 3	ENSG00000051596	-0.403	2.10E-02
<i>UBASH3B</i>	ubiquitin associated and SH3 domain containing B	ENSG00000154127	0.405	2.10E-02
<i>XRCC1</i>	X-ray repair cross complementing 1	ENSG00000073050	-0.296	2.10E-02
<i>ZNF506</i>	zinc finger protein 506	ENSG00000081665	-0.697	2.10E-02
<i>APOOL</i>	apolipoprotein O like	ENSG00000155008	0.480	2.20E-02
<i>C3orf52</i>	chromosome 3 open reading frame 52	ENSG00000114529	1.199	2.20E-02
<i>C8G</i>	complement C8 gamma chain	ENSG00000176919	-2.444	2.20E-02
<i>CDKN1C</i>	cyclin dependent kinase inhibitor 1C	ENSG00000129757	-2.444	2.20E-02
<i>CTD_2026D202</i>		ENSG00000253347	-2.444	2.20E-02
<i>GMPR</i>	guanosine monophosphate reductase	ENSG00000137198	-0.513	2.20E-02
<i>GRTP1</i>	growth hormone regulated TBC protein 1	ENSG00000139835	-1.949	2.20E-02
<i>GS1_293C51</i>		ENSG00000273138	-0.586	2.20E-02
<i>HASPIN</i>	histone H3 associated protein kinase	ENSG00000177602	0.554	2.20E-02
<i>ITGB7</i>	integrin subunit beta 7	ENSG00000139626	2.674	2.20E-02
<i>KCNB1</i>	potassium voltage-gated channel subfamily B member 1	ENSG00000158445	2.674	2.20E-02
<i>LINC02298</i>	long intergenic non-protein coding RNA 2298	ENSG00000257556	2.674	2.20E-02
<i>LOC105375787</i>	uncharacterized LOC105375787	ENSG00000254019	2.674	2.20E-02
<i>NIPAL1</i>	NIPA like domain containing 1	ENSG00000163293	-1.018	2.20E-02
<i>PCF11</i>	PCF11 cleavage and polyadenylation factor subunit	ENSG00000165494	-0.340	2.20E-02
<i>RIN1</i>	Ras and Rab interactor 1	ENSG00000174791	-0.376	2.20E-02
<i>RNF227</i>	ring finger protein 227	ENSG00000179859	-1.172	2.20E-02
<i>RP11_263K196</i>		ENSG00000236263	-2.444	2.20E-02
<i>RP11_344N105</i>		ENSG00000272630	2.674	2.20E-02
<i>RP11_432J222</i>		ENSG00000238058	2.674	2.20E-02
<i>RP11_467L137</i>		ENSG00000276900	-2.444	2.20E-02
<i>RP11_531A245</i>		ENSG00000253636	-2.444	2.20E-02
<i>RP11_689P113</i>		ENSG00000251186	2.674	2.20E-02
<i>RPL10AP6</i>	ribosomal protein L10a pseudogene 6	ENSG00000226360	-1.949	2.20E-02
<i>SEPTIN9-DT</i>		ENSG00000263718	2.674	2.20E-02
<i>SLC22A20P</i>	solute carrier family 22 member 20, pseudogene	ENSG00000197847	2.674	2.20E-02
<i>SSBP3-AS1</i>	SSBP3 antisense RNA 1	ENSG00000198711	-2.444	2.20E-02
<i>TIGD3</i>	tigger transposable element derived 3	ENSG00000173825	2.674	2.20E-02
<i>WI2-87327B8.2</i>		ENSG00000273812	-2.444	2.20E-02
<i>ZWINT</i>	ZW10 interacting kinetochore protein	ENSG00000122952	-0.252	2.20E-02
<i>C22orf46</i>	CTA-216E10.6	ENSG00000184208	-0.556	2.20E-03
<i>CDC14A</i>	cell division cycle 14A	ENSG00000079335	1.433	2.20E-03
<i>GPAT3</i>	glycerol-3-phosphate acyltransferase 3	ENSG00000138678	-1.519	2.20E-03
<i>TRIM52-AS1</i>	TRIM52 antisense RNA 1 (head to head)	ENSG00000248275	-1.080	2.20E-03
<i>USP36</i>	ubiquitin specific peptidase 36	ENSG00000055483	-0.395	2.20E-03
<i>ZFYVE27</i>	zinc finger FYVE-type containing 27	ENSG00000155256	-0.441	2.20E-03
<i>ZNF185</i>	zinc finger protein 185 with LIM domain	ENSG00000147394	-1.080	2.20E-03
<i>PDHA1</i>	pyruvate dehydrogenase E1 alpha 1 subunit	ENSG00000131828	-0.461	2.20E-04

<i>AC0107619</i>		ENSG00000265474	-0.839	2.30E-02
<i>ADPRHL2</i>	ADP-ribosylhydrolase like 2	ENSG00000116863	-0.324	2.30E-02
<i>APOA1</i>	apolipoprotein A1	ENSG00000118137	-2.211	2.30E-02
<i>ATP5CKMT</i>	ATP synthase c subunit lysine N-methyltransferase	ENSG00000150756	0.590	2.30E-02
<i>FAM118A</i>	family with sequence similarity 118 member A	ENSG00000100376	0.538	2.30E-02
<i>FOXRED1</i>	FAD dependent oxidoreductase domain containing 1	ENSG00000110074	-0.378	2.30E-02
<i>LARP6</i>	La ribonucleoprotein domain family member 6	ENSG00000166173	-0.270	2.30E-02
<i>LIPT2</i>	lipoyl(octanoyl) transferase 2	ENSG00000175536	-0.912	2.30E-02
<i>LOC102724684</i>	uncharacterized LOC102724684	ENSG00000267026	-2.211	2.30E-02
<i>MT-ND1</i>	NADH dehydrogenase, subunit 1 (complex I)	ENSG00000198888	-0.187	2.30E-02
<i>MTHFR</i>	methylenetetrahydrofolate reductase	ENSG00000177000	0.397	2.30E-02
<i>NCEH1</i>	neutral cholesterol ester hydrolase 1	ENSG00000144959	-0.357	2.30E-02
<i>OBI1</i>	ORC ubiquitin ligase 1	ENSG00000152193	0.538	2.30E-02
<i>POPDC3</i>	popeye domain containing 3	ENSG00000132429	-1.009	2.30E-02
<i>RPGR</i>	retinitis pigmentosa GTPase regulator	ENSG00000156313	-0.397	2.30E-02
<i>TMEM68</i>	transmembrane protein 68	ENSG00000167904	-0.564	2.30E-02
<i>WASHC5-AS1</i>		ENSG00000253167	-0.776	2.30E-02
<i>SLC44A3-AS1</i>	SLC44A3 antisense RNA 1	ENSG00000224081	1.237	2.30E-03
<i>ZNF528-AS1</i>	ZNF528 antisense RNA 1	ENSG00000269834	1.212	2.30E-03
<i>ABHD10</i>	abhydrolase domain containing 10	ENSG00000144827	-0.410	2.40E-02
<i>B4GALT7</i>	beta-1,4-galactosyltransferase 7	ENSG00000027847	0.367	2.40E-02
<i>CINP</i>	cyclin dependent kinase 2 interacting protein	ENSG00000100865	0.374	2.40E-02
<i>DANCR</i>	differentiation antagonizing non-protein coding RNA	ENSG00000226950	-0.352	2.40E-02
<i>DYNC1LI2</i>	dynein cytoplasmic 1 light intermediate chain 2	ENSG00000135720	-0.216	2.40E-02
<i>LINC00863</i>	long intergenic non-protein coding RNA 863	ENSG00000224914	-0.564	2.40E-02
<i>PDLIM4</i>	PDZ and LIM domain 4	ENSG00000131435	-0.406	2.40E-02
<i>RCBTB2</i>	RCC1 and BTB domain containing protein 2	ENSG00000136161	0.575	2.40E-02
<i>RING1</i>	ring finger protein 1	ENSG00000204227	-0.261	2.40E-02
<i>TACC2</i>	transforming acidic coiled-coil containing protein 2	ENSG00000138162	-0.382	2.40E-02
<i>ZNF180</i>	zinc finger protein 180	ENSG00000167384	-0.588	2.40E-02
<i>AC0926875</i>		ENSG00000234818	0.999	2.40E-03
<i>L340794</i>		ENSG00000269583	1.053	2.40E-03
<i>ANKS3</i>	ankyrin repeat and sterile alpha motif domain containing 3	ENSG00000168096	0.401	2.50E-02
<i>ATG16L1</i>	autophagy related 16 like 1	ENSG00000085978	-0.395	2.50E-02
<i>BDKRB2</i>	bradykinin receptor B2	ENSG00000168398	-1.364	2.50E-02
<i>CAMK2D</i>	calcium/calmodulin dependent protein kinase II delta	ENSG00000145349	0.378	2.50E-02
<i>CARNS1</i>	carosine synthase 1	ENSG00000172508	0.874	2.50E-02
<i>CEP295NL</i>	CEP295 N-terminal like	ENSG00000178404	1.514	2.50E-02
<i>COQ5</i>	coenzyme Q5, methyltransferase	ENSG00000110871	-0.343	2.50E-02
<i>EIF5B</i>	eukaryotic translation initiation factor 5B	ENSG00000158417	-0.231	2.50E-02
<i>FIS1</i>	fission, mitochondrial 1	ENSG00000214253	-0.305	2.50E-02

<i>GABBR2</i>	gamma-aminobutyric acid type B receptor subunit 2	ENSG00000136928	-0.819	2.50E-02
<i>GFER</i>	growth factor, augments liver regeneration	ENSG00000127554	-0.329	2.50E-02
<i>LOC101929240</i>	U5 small nuclear ribonucleoprotein 200 kDa helicase pseudogene	ENSG00000265298	1.019	2.50E-02
<i>LOC339803</i>	uncharacterized LOC339803	ENSG00000212978	0.640	2.50E-02
<i>MLST8</i>	MTOR associated protein, LST8 homolog	ENSG00000167965	-0.302	2.50E-02
<i>MRPS31</i>	mitochondrial ribosomal protein S31	ENSG00000102738	-0.512	2.50E-02
<i>NAGLU</i>	N-acetyl-alpha-glucosaminidase	ENSG00000108784	0.248	2.50E-02
<i>PHLDB2</i>	pleckstrin homology like domain family B member 2	ENSG00000144824	0.362	2.50E-02
<i>RP11_338I211</i>		ENSG00000271933	-0.395	2.50E-02
<i>C8orf44-SGK3/SGK3</i>	serum/glucocorticoid regulated kinase family member 3	ENSG00000104205	1.588	2.50E-03
<i>EMILIN2</i>	elastin microfibril interfacer 2	ENSG00000132205	-0.828	2.50E-03
<i>NOL3</i>	nucleolar protein 3	ENSG00000140939	-0.582	2.50E-03
<i>ZNF23</i>	zinc finger protein 23	ENSG00000167377	1.588	2.50E-03
<i>ZSWIM5</i>	zinc finger SWIM-type containing 5	ENSG00000162415	0.379	2.50E-03
<i>PSMC3IP</i>	PSMC3 interacting protein	ENSG00000131470	0.685	2.50E-04
<i>AC0073087</i>		ENSG00000272600	1.268	2.60E-02
<i>AC0374451</i>		ENSG00000233635	1.268	2.60E-02
<i>ACVR1C</i>	activin A receptor type 1C	ENSG00000123612	0.686	2.60E-02
<i>APOE</i>	apolipoprotein E	ENSG00000130203	-0.592	2.60E-02
<i>CALM1 (includes others)</i>	calmodulin 1	ENSG00000160014	-0.193	2.60E-02
<i>DIPK1A</i>	divergent protein kinase domain 1A	ENSG00000154511	0.471	2.60E-02
<i>FBXO31</i>	F-box protein 31	ENSG00000103264	0.349	2.60E-02
<i>H3-3A/H3-3B</i>	H3.3 histone A	ENSG00000163041	0.253	2.60E-02
<i>LENG9</i>	leukocyte receptor cluster member 9	ENSG00000275183	0.620	2.60E-02
<i>PKD2L2</i>	polycystin 2 like 2, transient receptor potential cation channel	ENSG00000078795	0.686	2.60E-02
<i>RBM6</i>	RNA binding motif protein 6	ENSG00000004534	-0.250	2.60E-02
<i>RBX1</i>	ring-box 1	ENSG00000100387	-0.322	2.60E-02
<i>RHBDL1</i>	rhomboid like 1	ENSG00000103269	-0.687	2.60E-02
<i>RNA5SP216</i>	RNA, 5S ribosomal pseudogene 216	ENSG00000251920	-1.211	2.60E-02
<i>RP2</i>	RP2 activator of ARL3 GTPase	ENSG00000102218	0.433	2.60E-02
<i>RPS29</i>	ribosomal protein S29	ENSG00000213741	-0.215	2.60E-02
<i>RPS8</i>	ribosomal protein S8	ENSG00000142937	-0.173	2.60E-02
<i>TSNARE1</i>	t-SNARE domain containing 1	ENSG00000171045	-0.619	2.60E-02
<i>ZNF81</i>	zinc finger protein 81	ENSG00000197779	0.686	2.60E-02
<i>ZSCAN30</i>	zinc finger and SCAN domain containing 30	ENSG00000186814	0.447	2.60E-02
<i>MT-RNR1</i>	s-rRNA	ENSG00000211459	-0.285	2.60E-04
<i>CASTOR2</i>	cytosolic arginine sensor for mTORC1 subunit 2	ENSG00000274070	-0.881	2.70E-02
<i>CCDC71L</i>	coiled-coil domain containing 71 like	ENSG00000253276	0.387	2.70E-02
<i>EBAG9</i>	estrogen receptor binding site associated antigen 9	ENSG00000147654	0.652	2.70E-02
<i>GTF2IRD1</i>	GTF2I repeat domain containing 1	ENSG00000006704	-0.375	2.70E-02
<i>HIP1</i>	huntingtin interacting protein 1	ENSG00000127946	-0.251	2.70E-02
<i>INSIG2</i>	insulin induced gene 2	ENSG00000125629	0.471	2.70E-02
<i>MSRB2</i>	methionine sulfoxide reductase B2	ENSG00000148450	-0.397	2.70E-02
<i>MZT2B</i>	mitotic spindle organizing protein 2B	ENSG00000152082	-0.204	2.70E-02



<i>PATZ1</i>	POZ/BTB and AT hook containing zinc finger 1	ENSG00000100105	0.389	2.70E-02
<i>RAPGEFL1</i>	Rap guanine nucleotide exchange factor like 1	ENSG00000108352	-0.764	2.70E-02
<i>RP11-352M15.2</i>		ENSG00000273015	-0.591	2.70E-02
<i>RP11_56G102</i>		ENSG00000257386	-0.425	2.70E-02
<i>RP13_131K191</i>		ENSG00000235236	-0.591	2.70E-02
<i>SLC25A17</i>	solute carrier family 25 member 17	ENSG00000100372	0.586	2.70E-02
<i>TAB3</i>	TGF-beta activated kinase 1 (MAP3K7) binding protein 3	ENSG00000157625	0.387	2.70E-02
<i>TTC26</i>	tetratricopeptide repeat domain 26	ENSG00000105948	-0.591	2.70E-02
<i>ASB3/GPR75-ASB3</i>	ankyrin repeat and SOCS box containing 3	ENSG00000115239	1.259	2.70E-03
<i>EFNB3</i>	ephrin B3	ENSG00000108947	-0.678	2.70E-03
<i>KANK3</i>	KN motif and ankyrin repeat domains 3	ENSG00000186994	-2.393	2.70E-03
<i>RP11_1277A32</i>		ENSG00000246596	2.029	2.70E-03
<i>ST20-MTHFS</i>	ST20-MTHFS readthrough	ENSG00000259332	2.087	2.70E-03
<i>THAP5</i>	THAP domain containing 5	ENSG00000177683	0.703	2.70E-03
<i>ZNF780A</i>	zinc finger protein 780A	ENSG00000197782	0.774	2.70E-03
<i>AAGAB</i>	alpha and gamma adaptin binding protein	ENSG00000103591	0.310	2.80E-02
<i>CCN1</i>	cellular communication network factor 1	ENSG00000142871	0.181	2.80E-02
<i>CTD_2263F211</i>		ENSG00000251257	1.694	2.80E-02
<i>CTPS1</i>	CTP synthase 1	ENSG00000171793	-0.292	2.80E-02
<i>DDX54</i>	DEAD-box helicase 54	ENSG00000123064	0.232	2.80E-02
<i>DUSP1</i>	dual specificity phosphatase 1	ENSG00000120129	0.223	2.80E-02
<i>ELP1</i>	elongator complex protein 1	ENSG00000070061	0.275	2.80E-02
<i>ERBB2</i>	erb-b2 receptor tyrosine kinase 2	ENSG00000141736	0.229	2.80E-02
<i>ERICH3</i>	glutamate rich 3	ENSG00000178965	-1.509	2.80E-02
<i>GAR1</i>	GAR1 ribonucleoprotein	ENSG00000109534	-0.439	2.80E-02
<i>HS2ST1</i>	heparan sulfate 2-O-sulfotransferase 1	ENSG00000153936	0.269	2.80E-02
<i>MBNL3</i>	muscleblind like splicing regulator 3	ENSG00000076770	0.558	2.80E-02
<i>MME</i>	membrane metalloendopeptidase	ENSG00000196549	-0.308	2.80E-02
<i>NNMT</i>	nicotinamide N-methyltransferase	ENSG00000166741	-0.402	2.80E-02
<i>NTAN1</i>	N-terminal asparagine amidase	ENSG00000157045	-0.294	2.80E-02
<i>PARL</i>	presenilin associated rhomboid like	ENSG00000175193	-0.337	2.80E-02
<i>PIGQ</i>	phosphatidylinositol glycan anchor biosynthesis class Q	ENSG00000007541	0.279	2.80E-02
<i>PNPLA7</i>	patatin like phospholipase domain containing 7	ENSG00000130653	1.050	2.80E-02
<i>PRMT3</i>	protein arginine methyltransferase 3	ENSG00000185238	0.412	2.80E-02
<i>RP11_344N102</i>		ENSG00000237768	0.718	2.80E-02
<i>RP11_958N242</i>		ENSG00000227827	0.941	2.80E-02
<i>RP5_1021I205</i>		ENSG00000258891	0.718	2.80E-02
<i>RPSAP47</i>	ribosomal protein SA pseudogene 47	ENSG00000188856	1.089	2.80E-02
<i>SF3A2</i>	splicing factor 3a subunit 2	ENSG00000104897	0.238	2.80E-02
<i>SNRPGP10</i>	small nuclear ribonucleoprotein polypeptide G pseudogene 10	ENSG00000235363	-1.509	2.80E-02
<i>SOCS5</i>	suppressor of cytokine signaling 5	ENSG00000171150	0.319	2.80E-02
<i>TMEM161A</i>	transmembrane protein 161A	ENSG00000064545	-0.406	2.80E-02
<i>WDR12</i>	WD repeat domain 12	ENSG00000138442	0.395	2.80E-02
<i>ZNF48</i>	zinc finger protein 48	ENSG00000180035	-0.487	2.80E-02
<i>ZNF503-AS2</i>	ZNF503 antisense RNA 2	ENSG00000237149	0.481	2.80E-02
<i>ZNF696</i>	zinc finger protein 696	ENSG00000185730	0.441	2.80E-02
<i>GPHN</i>	gephyrin	ENSG00000171723	-0.786	2.80E-03

<i>PRICKLE2-AS3</i>	PRICKLE2 antisense RNA 3	ENSG00000226017	-1.420	2.80E-03
<i>RIOX2</i>	ribosomal oxygenase 2	ENSG00000170854	0.467	2.80E-03
<i>CISD3</i>	CDGSH iron sulfur domain 3	ENSG00000277972	0.296	2.90E-02
<i>EGLN2</i>	egl-9 family hypoxia inducible factor 2	ENSG00000269858	-0.512	2.90E-02
<i>GRIN3B</i>	glutamate ionotropic receptor NMDA type subunit 3B	ENSG00000116032	-0.566	2.90E-02
<i>LARP4</i>	La ribonucleoprotein domain family member 4	ENSG00000161813	0.306	2.90E-02
<i>MAN2B2</i>	mannosidase alpha class 2B member 2	ENSG00000013288	0.252	2.90E-02
<i>MRPS28</i>	mitochondrial ribosomal protein S28	ENSG00000147586	-0.483	2.90E-02
<i>MTRR</i>	5-methyltetrahydrofolate-homocysteine methyltransferase reductase	ENSG00000124275	-0.417	2.90E-02
<i>OXCT1</i>	3-oxoacid CoA-transferase 1	ENSG00000083720	-0.392	2.90E-02
<i>PRKCD</i>	protein kinase C delta	ENSG00000163932	-0.377	2.90E-02
<i>RAMAC</i>	RNA guanine-7 methyltransferase activating subunit	ENSG00000169612	-0.547	2.90E-02
<i>STARD3NL</i>	STARD3 N-terminal like	ENSG00000010270	-0.270	2.90E-02
<i>TGFB2</i>	transforming growth factor beta 2	ENSG00000092969	0.791	2.90E-02
<i>TMEM19</i>	transmembrane protein 19	ENSG00000139291	0.365	2.90E-02
<i>TMEM250</i>	transmembrane protein 250	ENSG00000238227	0.247	2.90E-02
<i>VIRMA</i>	vir like m6A methyltransferase associated	ENSG00000164944	0.259	2.90E-02
<i>XXbac-BPG283O16.9</i>		ENSG00000280128	0.737	2.90E-02
<i>ZNF407</i>	zinc finger protein 407	ENSG00000215421	0.433	2.90E-02
<i>POMT1</i>	protein O-mannosyltransferase 1	ENSG00000130714	-0.445	2.90E-03
<i>TRAF3IP3</i>	TRAF3 interacting protein 3	ENSG00000009790	1.694	2.90E-03
<i>CARD11</i>	caspase recruitment domain family member 11	ENSG00000198286	-0.540	2.90E-04
<i>APOBEC3F</i>	apolipoprotein B mRNA editing enzyme catalytic subunit 3F	ENSG00000128394	0.892	3.00E-02
<i>BICC1</i>	BicC family RNA binding protein 1	ENSG00000122870	0.241	3.00E-02
<i>CRABP2</i>	cellular retinoic acid binding protein 2	ENSG00000143320	-1.344	3.00E-02
<i>CTD_3193O138</i>		ENSG00000269139	0.375	3.00E-02
<i>FAM86C1</i>	family with sequence similarity 86 member C1	ENSG00000158483	-0.828	3.00E-02
<i>MSS51</i>	MSS51 mitochondrial translational activator	ENSG00000166343	1.589	3.00E-02
<i>MTFR1L</i>	mitochondrial fission regulator 1 like	ENSG00000117640	-0.293	3.00E-02
<i>MZF1-AS1</i>	MZF1 antisense RNA 1	ENSG00000267858	0.514	3.00E-02
<i>PMM1</i>	phosphomannomutase 1	ENSG00000100417	-0.367	3.00E-02
<i>PUS10</i>	pseudouridine synthase 10	ENSG00000162927	-0.803	3.00E-02
<i>RP11_283G65</i>		ENSG00000255750	-1.106	3.00E-02
<i>RP11_408P141</i>		ENSG00000243199	-1.344	3.00E-02
<i>RP11_746M11</i>		ENSG00000263986	-0.266	3.00E-02
<i>RP4_530I159</i>		ENSG00000232043	0.692	3.00E-02
<i>TIA1</i>	TIA1 cytotoxic granule associated RNA binding protein	ENSG00000116001	-0.238	3.00E-02
<i>UBAP2</i>	ubiquitin associated protein 2	ENSG00000137073	-0.310	3.00E-02
<i>YTHDF3</i>	YTH N6-methyladenosine RNA binding protein 3	ENSG00000185728	0.239	3.00E-02
<i>ASB16-AS1</i>	ASB16 antisense RNA 1	ENSG00000267080	-0.838	3.00E-03
<i>SPRED1</i>	sprouty related EVH1 domain containing 1	ENSG00000166068	0.281	3.00E-03
<i>STRBP</i>	spermatid perinuclear RNA binding protein	ENSG00000165209	-0.711	3.00E-03
<i>UBQLN4</i>	ubiquilin 4	ENSG00000160803	0.365	3.00E-03
<i>AC0738343</i>		ENSG00000237655	1.151	3.10E-02

CPM	carboxypeptidase M	ENSG00000135678	0.588	3.10E-02
CUL7	cullin 7	ENSG00000044090	0.250	3.10E-02
FAM189B	family with sequence similarity 189 member B	ENSG00000160767	0.307	3.10E-02
HSD17B10	hydroxysteroid 17-beta dehydrogenase 10	ENSG00000072506	-0.300	3.10E-02
HTR1D	5-hydroxytryptamine receptor 1D	ENSG00000179546	-0.497	3.10E-02
KCP	kielin cysteine rich BMP regulator	ENSG00000135253	-0.286	3.10E-02
KLHDC1	kelch domain containing 1	ENSG00000197776	1.352	3.10E-02
MIPEP	mitochondrial intermediate peptidase	ENSG00000027001	0.480	3.10E-02
MSRB3	methionine sulfoxide reductase B3	ENSG00000174099	0.245	3.10E-02
MTMR4	myotubularin related protein 4	ENSG00000108389	0.310	3.10E-02
NPIPA8 (includes others)	nuclear pore complex interacting protein family member A3	ENSG00000183426	0.535	3.10E-02
RCCD1	RCC1 domain containing 1	ENSG00000166965	-0.380	3.10E-02
REXO1	RNA exonuclease 1 homolog	ENSG00000079313	0.289	3.10E-02
RP1_39G227		ENSG00000259943	-1.105	3.10E-02
RPS10P7	ribosomal protein S10 pseudogene 7	ENSG00000223396	-1.306	3.10E-02
SLC25A11	solute carrier family 25 member 11	ENSG00000108528	-0.248	3.10E-02
TRIM73/TRIM74	tripartite motif containing 74	ENSG00000174353	-1.306	3.10E-02
TRIP11	thyroid hormone receptor interactor 11	ENSG00000100815	0.292	3.10E-02
URB1-AS1	URB1 antisense RNA 1 (head to head)	ENSG00000256073	-1.306	3.10E-02
ZBTB33	zinc finger and BTB domain containing 33	ENSG00000177485	0.350	3.10E-02
ZDHHC16	zinc finger DHHC-type containing 16	ENSG00000171307	0.301	3.10E-02
JAZF1-AS1	JAZF1 antisense RNA 1	ENSG00000234336	1.186	3.10E-03
NDUFB8	NADH:ubiquinone oxidoreductase subunit B8	ENSG00000166136	0.518	3.10E-03
ASAH2B	N-acylsphingosine amidohydrolase 2B	ENSG00000204147	1.013	3.20E-02
CAPN10-DT	CAPN10 divergent transcript	ENSG00000260942	-1.762	3.20E-02
CRYZL1	crystallin zeta like 1	ENSG00000205758	-0.382	3.20E-02
EBF1	EBF transcription factor 1	ENSG00000164330	-0.397	3.20E-02
EPHX4	epoxide hydrolase 4	ENSG00000172031	-1.762	3.20E-02
LCA5	lebercilin LCA5	ENSG00000135338	0.605	3.20E-02
LOC100287808	uncharacterized LOC100287808	ENSG00000277182	1.851	3.20E-02
LOC105375304	uncharacterized LOC105375304	ENSG00000225792	1.851	3.20E-02
LRMDA	leucine rich melanocyte differentiation associated	ENSG00000148655	0.756	3.20E-02
LUCAT1	lung cancer associated transcript 1	ENSG00000248323	-1.762	3.20E-02
MN1	MN1 proto-oncogene, transcriptional regulator	ENSG00000169184	0.410	3.20E-02
MTATP6P1	MT-ATP6 pseudogene 1	ENSG00000248527	-0.238	3.20E-02
RETREG1	reticulophagy regulator 1	ENSG00000154153	-0.662	3.20E-02
RP11_304L192		ENSG00000260447	1.851	3.20E-02
RP11_762I75		ENSG00000257390	0.506	3.20E-02
WDR91	WD repeat domain 91	ENSG00000105875	-0.357	3.20E-02
XRCC4	X-ray repair cross complementing 4	ENSG00000152422	-0.597	3.20E-02
ZNF517	zinc finger protein 517	ENSG00000197363	0.572	3.20E-02
ZSCAN21	zinc finger and SCAN domain containing 21	ENSG00000166529	0.756	3.20E-02
CKB	creatine kinase B	ENSG00000166165	-1.789	3.20E-04
MT-CO3	cytochrome c oxidase III	ENSG00000198938	-0.273	3.20E-04
MXI1	MAX interactor 1, dimerization protein	ENSG00000119950	-0.703	3.20E-04
ASRGL1	asparaginase and isoaspartyl peptidase 1	ENSG00000162174	-0.894	3.30E-02
CHMP1B	charged multivesicular body protein 1B	ENSG00000255112	0.267	3.30E-02

<i>CREG1</i>	cellular repressor of E1A stimulated genes 1	ENSG00000143162	0.314	3.30E-02
<i>DNAJC9-AS1</i>	DNAJC9 antisense RNA 1	ENSG00000236756	-0.474	3.30E-02
<i>LA16C_313D1112</i>		ENSG00000261659	-0.547	3.30E-02
<i>MYBL2</i>	MYB proto-oncogene like 2	ENSG00000101057	0.252	3.30E-02
<i>POU6F1</i>	POU class 6 homeobox 1	ENSG00000184271	-0.632	3.30E-02
<i>RP11_1055B88</i>		ENSG00000263271	0.986	3.30E-02
<i>ZNF624</i>	zinc finger protein 624	ENSG00000197566	0.986	3.30E-02
<i>DCAF10</i>	DDB1 and CUL4 associated factor 10	ENSG00000122741	-0.297	3.40E-02
<i>DLGAP4-AS1</i>	DLGAP4 antisense RNA 1	ENSG00000232907	0.334	3.40E-02
<i>GNAQ</i>	G protein subunit alpha q	ENSG00000156052	0.249	3.40E-02
<i>GYPC</i>	glycophorin C (Gerbich blood group)	ENSG00000136732	-0.278	3.40E-02
<i>LINC01605</i>	long intergenic non-protein coding RNA 1605	ENSG00000253414	1.092	3.40E-02
<i>LL22NC03_80A106</i>		ENSG00000272779	-0.997	3.40E-02
<i>NFKBID</i>	NFKB inhibitor delta	ENSG00000167604	1.092	3.40E-02
<i>NMT2</i>	N-myristoyltransferase 2	ENSG00000152465	0.263	3.40E-02
<i>P3H3</i>	prolyl 3-hydroxylase 3	ENSG00000110811	0.550	3.40E-02
<i>RABGGTA</i>	Rab geranylgeranyltransferase subunit alpha	ENSG00000100949	0.406	3.40E-02
<i>RP11_345P49</i>		ENSG00000272106	-0.733	3.40E-02
<i>RP11_436D103</i>		ENSG00000238280	0.576	3.40E-02
<i>RP11_843P142</i>		ENSG00000250909	-0.474	3.40E-02
<i>SEMA5A</i>	semaphorin 5A	ENSG00000112902	0.203	3.40E-02
<i>SHANK3</i>	SH3 and multiple ankyrin repeat domains 3	ENSG00000251322	0.461	3.40E-02
<i>SOX15</i>	SRY-box transcription factor 15	ENSG00000129194	-0.997	3.40E-02
<i>TMSB4XP4</i>	TMSB4X pseudogene 4	ENSG00000223551	0.533	3.40E-02
<i>TNFAIP2</i>	TNF alpha induced protein 2	ENSG00000185215	-0.733	3.40E-02
<i>UPP1</i>	uridine phosphorylase 1	ENSG00000183696	-0.230	3.40E-02
<i>WDR47</i>	WD repeat domain 47	ENSG00000085433	-0.344	3.40E-02
<i>WLS</i>	Wnt ligand secretion mediator	ENSG00000116729	-0.179	3.40E-02
<i>ZNF800</i>	zinc finger protein 800	ENSG00000048405	0.517	3.40E-02
<i>G0S2</i>	G0/G1 switch 2	ENSG00000123689	-0.993	3.40E-03
<i>AP0014695</i>		ENSG00000223901	0.640	3.50E-02
<i>ATG14</i>	autophagy related 14	ENSG00000126775	0.335	3.50E-02
<i>DTNBP1</i>	dystrobrevin binding protein 1	ENSG00000047579	0.611	3.50E-02
<i>EIF4B</i>	eukaryotic translation initiation factor 4B	ENSG00000063046	0.171	3.50E-02
<i>LZTS3</i>	leucine zipper tumor suppressor family member 3	ENSG00000088899	-0.481	3.50E-02
<i>MRPL40</i>	mitochondrial ribosomal protein L40	ENSG00000185608	-0.548	3.50E-02
<i>MTCO1P12</i>	MT-CO1 pseudogene 12	ENSG00000237973	0.491	3.50E-02
<i>NT5E</i>	5'-nucleotidase ecto	ENSG00000135318	-0.218	3.50E-02
<i>PARP11</i>	poly(ADP-ribose) polymerase family member 11	ENSG00000111224	0.555	3.50E-02
<i>RAB10</i>	RAB10, member RAS oncogene family	ENSG00000084733	0.201	3.50E-02
<i>RP11_18I1411</i>		ENSG00000273262	0.386	3.50E-02
<i>RP11_304L198</i>		ENSG00000261532	-0.547	3.50E-02
<i>RP11_347C1211</i>		ENSG00000274653	0.803	3.50E-02
<i>RP11_649E75</i>		ENSG00000258377	0.235	3.50E-02
<i>SEMA6D</i>	semaphorin 6D	ENSG00000137872	0.492	3.50E-02
<i>SSBP3</i>	single stranded DNA binding protein 3	ENSG00000157216	-0.291	3.50E-02
<i>USP38</i>	ubiquitin specific peptidase 38	ENSG00000170185	0.315	3.50E-02
<i>VMA21</i>	vacuolar ATPase assembly factor VMA21	ENSG00000160131	-0.326	3.50E-02
<i>ZFP36</i>	ZFP36 ring finger protein	ENSG00000128016	0.640	3.50E-02

<i>MMP15</i>	matrix metalloproteinase 15	ENSG00000102996	0.608	3.50E-03
<i>ZNF416</i>	zinc finger protein 416	ENSG00000083817	1.076	3.50E-03
<i>RP11_135F93</i>		ENSG00000280088	2.601	3.50E-04
<i>AC0071926</i>		ENSG00000269145	1.453	3.60E-02
<i>BRICD5</i>	BRICD5 domain containing 5	ENSG00000182685	-0.528	3.60E-02
<i>CACNA1C-AS1</i>	CACNA1C antisense RNA 1	ENSG00000246627	-1.813	3.60E-02
<i>CCDC144NL-AS1</i>	CCDC144NL antisense RNA 1	ENSG00000233098	0.250	3.60E-02
<i>CCDC181</i>	coiled-coil domain containing 181	ENSG00000117477	-1.813	3.60E-02
<i>CTB_79E83</i>		ENSG00000253683	2.222	3.60E-02
<i>DDX28</i>	DEAD-box helicase 28	ENSG00000182810	-0.469	3.60E-02
<i>DICER1-AS1</i>	DICER1 antisense RNA 1	ENSG00000235706	-1.074	3.60E-02
<i>FAM72C/FAM72D</i>	family with sequence similarity 72 member D	ENSG00000263513	-1.813	3.60E-02
<i>FUT2</i>	fucosyltransferase 2	ENSG00000176920	-1.813	3.60E-02
<i>HIBCH</i>	3-hydroxyisobutyryl-CoA hydrolase	ENSG00000198130	0.453	3.60E-02
<i>LINC01572</i>	long intergenic non-protein coding RNA 1572	ENSG00000261008	2.222	3.60E-02
<i>LOC100130548</i>	uncharacterized LOC100130548	ENSG00000235138	2.222	3.60E-02
<i>LOC339192</i>	uncharacterized LOC339192	ENSG00000267121	2.222	3.60E-02
<i>MIATNB</i>	MIAT neighbor	ENSG00000244625	-1.419	3.60E-02
<i>MLPH</i>	melanophilin	ENSG00000115648	-0.693	3.60E-02
<i>OR7E38P</i>	olfactory receptor family 7 subfamily E member 38 pseudogene	ENSG00000183444	-1.813	3.60E-02
<i>OSBP</i>	oxysterol binding protein	ENSG00000110048	0.241	3.60E-02
<i>PCDHGB1</i>	protocadherin gamma subfamily B, 1	ENSG00000254221	0.453	3.60E-02
<i>PHB</i>	prohibitin	ENSG00000167085	-0.207	3.60E-02
<i>PPCS</i>	phosphopantothienoylcysteine synthetase	ENSG00000127125	0.327	3.60E-02
<i>RP11_135A244</i>		ENSG00000233825	-0.797	3.60E-02
<i>RP11_316O141</i>		ENSG00000268603	2.222	3.60E-02
<i>RP11_332H171</i>		ENSG00000232959	0.927	3.60E-02
<i>RP11_797A183</i>		ENSG00000259652	2.222	3.60E-02
<i>TMEM126A</i>	transmembrane protein 126A	ENSG00000171202	-0.449	3.60E-02
<i>UQCRCF1</i>	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	ENSG00000169021	0.277	3.60E-02
<i>ZNF205</i>	zinc finger protein 205	ENSG00000122386	-0.404	3.60E-02
<i>ZNF497</i>	zinc finger protein 497	ENSG00000174586	-0.458	3.60E-02
<i>ZNF605</i>	zinc finger protein 605	ENSG00000196458	-0.449	3.60E-02
<i>CTD_2524L63</i>		ENSG00000260037	-1.985	3.60E-04
<i>AP0007045</i>		ENSG00000224790	1.216	3.70E-02
<i>C5orf34</i>	chromosome 5 open reading frame 34	ENSG00000172244	0.767	3.70E-02
<i>HCG4P7</i>	HLA complex group 4 pseudogene 7	ENSG00000230521	-0.174	3.70E-02
<i>HUNK</i>	hormonally up-regulated Neu-associated kinase	ENSG00000142149	0.437	3.70E-02
<i>IGSF9</i>	immunoglobulin superfamily member 9	ENSG00000085552	-1.141	3.70E-02
<i>MED19</i>	mediator complex subunit 19	ENSG00000156603	-0.441	3.70E-02
<i>MORF4L2-AS1</i>	MORF4L2 antisense RNA 1	ENSG00000231154	1.395	3.70E-02
<i>MTRNR2L12</i>	MT-RNR2 like 12	ENSG00000269028	-1.282	3.70E-02
<i>MYEF2</i>	myelin expression factor 2	ENSG00000104177	-0.297	3.70E-02
<i>PAXIP1-AS1</i>	PAXIP1 antisense RNA 1 (head to head)	ENSG00000273344	0.767	3.70E-02
<i>RP11_23P136</i>		ENSG00000174171	1.395	3.70E-02
<i>RP11_257O52</i>		ENSG00000279059	-1.282	3.70E-02
<i>RP11_483I135</i>		ENSG00000260879	0.673	3.70E-02
<i>STK16</i>	serine/threonine kinase 16	ENSG00000115661	0.320	3.70E-02

<i>SYDE2</i>	synapse defective Rho GTPase homolog 2	ENSG00000097096	0.767	3.70E-02
<i>TGDS</i>	TDP-glucose 4,6-dehydratase	ENSG00000088451	0.692	3.70E-02
<i>USP53</i>	ubiquitin specific peptidase 53	ENSG00000145390	0.325	3.70E-02
<i>XPO4</i>	exportin 4	ENSG00000132953	0.349	3.70E-02
<i>ZNF449</i>	zinc finger protein 449	ENSG00000173275	-0.679	3.70E-02
<i>AC1147307</i>		ENSG00000234793	1.305	3.70E-03
<i>AREG</i>	amphiregulin	ENSG00000109321	1.010	3.80E-02
<i>CTTNBP2NL</i>	CTTNBP2 N-terminal like	ENSG00000143079	-0.270	3.80E-02
<i>FNIP1</i>	folliculin interacting protein 1	ENSG00000217128	0.322	3.80E-02
<i>MCCC1</i>	methylocrotonoyl-CoA carboxylase 1	ENSG00000078070	0.423	3.80E-02
<i>MED15</i>	mediator complex subunit 15	ENSG00000099917	-0.248	3.80E-02
<i>MGARP</i>	mitochondria localized glutamic acid rich protein	ENSG00000137463	0.239	3.80E-02
<i>NDUFV3</i>	NADH:ubiquinone oxidoreductase subunit V3	ENSG00000160194	-0.383	3.80E-02
<i>RAB24</i>	RAB24, member RAS oncogene family	ENSG00000169228	-0.375	3.80E-02
<i>RGL4</i>	ral guanine nucleotide dissociation stimulator like 4	ENSG00000159496	-0.976	3.80E-02
<i>RP5_1057I204</i>		ENSG00000268069	0.452	3.80E-02
<i>RRAD</i>	RRAD, Ras related glycolysis inhibitor and calcium channel regulator	ENSG00000166592	-0.242	3.80E-02
<i>RTN2</i>	reticulum 2	ENSG00000125744	-0.417	3.80E-02
<i>SLC29A1</i>	solute carrier family 29 member 1 (Augustine blood group)	ENSG00000112759	-0.260	3.80E-02
<i>SRRM5</i>	serine/arginine repetitive matrix 5	ENSG00000226763	0.294	3.80E-02
<i>STX12</i>	syntaxin 12	ENSG00000117758	-0.348	3.80E-02
<i>SARNP</i>	SAP domain containing ribonucleoprotein	ENSG00000205323	-1.462	3.80E-03
<i>AC0159332</i>		ENSG00000227279	-0.310	3.90E-02
<i>AFG3L1P</i>	AFG3 like matrix AAA peptidase subunit 1, pseudogene	ENSG00000223959	0.403	3.90E-02
<i>ANGEL2</i>	angel homolog 2	ENSG00000174606	0.359	3.90E-02
<i>BAG4</i>	BCL2 associated athanogene 4	ENSG00000156735	-0.389	3.90E-02
<i>BAK1</i>	BCL2 antagonist/killer 1	ENSG00000030110	0.352	3.90E-02
<i>BTRC</i>	beta-transducin repeat containing E3 ubiquitin protein ligase	ENSG00000166167	-0.349	3.90E-02
<i>CH17_264L241</i>		ENSG00000279278	-2.061	3.90E-02
<i>DCK</i>	deoxycytidine kinase	ENSG00000156136	0.376	3.90E-02
<i>DDX31</i>	DEAD-box helicase 31	ENSG00000125485	0.452	3.90E-02
<i>DNASE2</i>	deoxyribonuclease 2, lysosomal	ENSG00000105612	0.273	3.90E-02
<i>ENAH</i>	ENAH actin regulator	ENSG00000154380	0.158	3.90E-02
<i>GOLT1B</i>	golgi transport 1B	ENSG00000111711	0.299	3.90E-02
<i>HOXA2</i>	homeobox A2	ENSG00000105996	2.933	3.90E-02
<i>LDAH</i>	lipid droplet associated hydrolase	ENSG00000118961	0.563	3.90E-02
<i>LOC105372097</i>		ENSG00000270112	-2.061	3.90E-02
<i>PCDHB13</i>	protocadherin beta 13	ENSG00000187372	0.416	3.90E-02
<i>RBM25</i>	RNA binding motif protein 25	ENSG00000119707	-0.222	3.90E-02
<i>ROGDI</i>	rogdi atypical leucine zipper	ENSG00000067836	0.451	3.90E-02
<i>RP11_251G235</i>		ENSG00000272604	-2.061	3.90E-02
<i>RP11_495P103</i>		ENSG00000224481	-2.061	3.90E-02
<i>RP11_513D52</i>		ENSG00000254898	0.764	3.90E-02
<i>SPATC1L</i>	spermatogenesis and centriole associated 1 like	ENSG00000160284	0.482	3.90E-02
<i>TMEM14A</i>	transmembrane protein 14A	ENSG00000096092	0.372	3.90E-02

<i>TMPRSS6</i>	transmembrane serine protease 6	ENSG00000187045	-2.061	3.90E-02
<i>USF3</i>	upstream transcription factor family member 3	ENSG00000176542	0.399	3.90E-02
<i>ZNF730</i>	zinc finger protein 730	ENSG00000183850	-2.061	3.90E-02
<i>ZNF574</i>	zinc finger protein 574	ENSG00000105732	0.492	3.90E-03
<i>ANKLE1</i>	ankyrin repeat and LEM domain containing 1	ENSG00000160117	2.524	4.00E-02
<i>ASGR1</i>	asialoglycoprotein receptor 1	ENSG00000141505	2.524	4.00E-02
<i>CHRM3</i>	cholinergic receptor muscarinic 3	ENSG00000133019	2.524	4.00E-02
<i>COMMD5</i>	COMM domain containing 5	ENSG00000170619	-0.293	4.00E-02
<i>EHHADH-AS1</i>	EHHADH antisense RNA 1	ENSG00000223358	2.524	4.00E-02
<i>FAM162A</i>	family with sequence similarity 162 member A	ENSG00000114023	-0.414	4.00E-02
<i>FEM1B</i>	fem-1 homolog B	ENSG00000169018	0.226	4.00E-02
<i>GFPT2</i>	glutamine-fructose-6-phosphate transaminase 2	ENSG00000131459	-0.322	4.00E-02
<i>GPR173</i>	G protein-coupled receptor 173	ENSG00000184194	0.537	4.00E-02
<i>HMGNI1P38</i>	high mobility group nucleosome binding domain 1 pseudogene 38	ENSG00000253954	2.524	4.00E-02
<i>KCNH3</i>	potassium voltage-gated channel subfamily H member 3	ENSG00000135519	0.872	4.00E-02
<i>LA16C_316G122</i>		ENSG00000260425	2.524	4.00E-02
<i>LA16C_360H63</i>		ENSG00000262899	2.524	4.00E-02
<i>MIS18A</i>	MIS18 kinetochore protein A	ENSG00000159055	-0.414	4.00E-02
<i>MZT2A</i>	mitotic spindle organizing protein 2A	ENSG00000173272	-0.246	4.00E-02
<i>PADI1</i>	peptidyl arginine deiminase 1	ENSG00000142623	2.524	4.00E-02
<i>PSORS1C2</i>	psoriasis susceptibility 1 candidate 2	ENSG00000204538	2.524	4.00E-02
<i>RP11-596C23.6</i>		ENSG00000282885	2.524	4.00E-02
<i>RP11_288I211</i>		ENSG00000237938	-0.457	4.00E-02
<i>RP11_29G83</i>		ENSG00000261553	2.524	4.00E-02
<i>RP11_677M145</i>		ENSG00000254941	2.524	4.00E-02
<i>RP1_239B225</i>		ENSG00000260196	2.524	4.00E-02
<i>SLC9A1</i>	solute carrier family 9 member A1	ENSG00000090020	-0.275	4.00E-02
<i>SULT1B1</i>	sulfotransferase family 1B member 1	ENSG00000173597	2.524	4.00E-02
<i>TGIF1</i>	TGFB induced factor homeobox 1	ENSG00000177426	-0.236	4.00E-02
<i>UBOX5</i>	U-box domain containing 5	ENSG00000185019	0.506	4.00E-02
<i>ZNF442</i>	zinc finger protein 442	ENSG00000198342	2.524	4.00E-02
<i>ZNF625</i>	zinc finger protein 625	ENSG00000257591	2.524	4.00E-02
<i>POTEI</i>	POTE ankyrin domain family member I	ENSG00000196834	6.103	4.00E-03
<i>RP11_428J14</i>		ENSG00000271978	6.103	4.00E-03
<i>TBX20</i>	T-box transcription factor 20	ENSG00000164532	6.103	4.00E-03
<i>ANKRD18B</i>	ankyrin repeat domain 18B	ENSG00000230453	1.141	4.10E-02
<i>CAPS2</i>	calcyphosine 2	ENSG00000180881	0.614	4.10E-02
<i>CEP78</i>	centrosomal protein 78	ENSG00000148019	-0.314	4.10E-02
<i>GMNN</i>	geminin DNA replication inhibitor	ENSG00000112312	-0.338	4.10E-02
<i>LOC101927572</i>	uncharacterized LOC101927572	ENSG00000267698	0.614	4.10E-02
<i>MOSMO</i>	modulator of smoothened	ENSG00000185716	-0.465	4.10E-02
<i>MRPL22</i>	mitochondrial ribosomal protein L22	ENSG00000082515	-0.355	4.10E-02
<i>PKD1P5</i>	polycystin 1, transient receptor potential channel interacting pseudogene 5	ENSG00000254681	0.350	4.10E-02
<i>PMS2P1</i>	PMS1 homolog 2, mismatch repair system component pseudogene 1	ENSG00000078319	-0.576	4.10E-02
<i>PRRG4</i>	proline rich and Gla domain 4	ENSG00000135378	1.141	4.10E-02

<i>RPL27</i>	ribosomal protein L27	ENSG00000131469	-0.169	4.10E-02
<i>TSPAN4</i>	tetraspanin 4	ENSG00000214063	-0.216	4.10E-02
<i>CCDC68</i>	coiled-coil domain containing 68	ENSG00000166510	-0.605	4.10E-03
<i>LINC01391</i>	long intergenic non-protein coding RNA 1391	ENSG00000244578	0.506	4.10E-03
<i>TMEFF2</i>	transmembrane protein with EGF like and two follistatin like domains 2	ENSG00000144339	0.799	4.10E-03
<i>A1BG-AS1</i>	A1BG antisense RNA 1	ENSG00000268895	-0.548	4.20E-02
<i>AC00913315</i>		ENSG00000259952	0.213	4.20E-02
<i>CLDN12</i>	claudin 12	ENSG00000157224	-0.548	4.20E-02
<i>HMGN3</i>	high mobility group nucleosomal binding domain 3	ENSG00000118418	-0.284	4.20E-02
<i>LINC02693</i>	long intergenic non-protein coding RNA 2693	ENSG00000212719	0.405	4.20E-02
<i>LOC101928140</i>	uncharacterized LOC101928140	ENSG00000227945	0.444	4.20E-02
<i>MAP3K7</i>	mitogen-activated protein kinase kinase kinase 7	ENSG00000135341	0.261	4.20E-02
<i>NAA40</i>	N(alpha)-acetyltransferase 40, NatD catalytic subunit	ENSG00000110583	-0.325	4.20E-02
<i>PSD3</i>	pleckstrin and Sec7 domain containing 3	ENSG00000156011	0.172	4.20E-02
<i>PTPDC1</i>	protein tyrosine phosphatase domain containing 1	ENSG00000158079	-0.550	4.20E-02
<i>SNRNP25</i>	small nuclear ribonucleoprotein U11/U12 subunit 25	ENSG00000161981	-0.325	4.20E-02
<i>TMEM25</i>	transmembrane protein 25	ENSG00000149582	0.359	4.20E-02
<i>TSPAN11</i>	tetraspanin 11	ENSG00000110900	0.375	4.20E-02
<i>YPEL2</i>	yippee like 2	ENSG00000175155	0.452	4.20E-02
<i>ZACN</i>	zinc activated ion channel	ENSG00000186919	-0.217	4.20E-02
<i>LOXL4</i>	lysyl oxidase like 4	ENSG00000138131	0.700	4.20E-03
<i>PPAT</i>	phosphoribosyl pyrophosphate amidotransferase	ENSG00000128059	0.726	4.20E-04
<i>ARHGAP5</i>	Rho GTPase activating protein 5	ENSG00000100852	0.267	4.30E-02
<i>BCDIN3D-AS1</i>	BCDIN3D antisense RNA 1	ENSG00000258057	0.700	4.30E-02
<i>BST2</i>	bone marrow stromal cell antigen 2	ENSG00000130303	0.936	4.30E-02
<i>ENGASE</i>	endo-beta-N-acetylglucosaminidase	ENSG00000167280	0.317	4.30E-02
<i>ERI1</i>	exoribonuclease 1	ENSG00000104626	-0.411	4.30E-02
<i>GCC1</i>	GRIP and coiled-coil domain containing 1	ENSG00000179562	0.312	4.30E-02
<i>GUCY1A2</i>	guanylate cyclase 1 soluble subunit alpha 2	ENSG00000152402	1.100	4.30E-02
<i>LAMTOR3</i>	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3	ENSG00000109270	0.378	4.30E-02
<i>LINC-PINT</i>	long intergenic non-protein coding RNA, p53 induced transcript	ENSG00000226380	-1.620	4.30E-02
<i>LINC00674</i>	long intergenic non-protein coding RNA 674	ENSG00000237854	0.622	4.30E-02
<i>LOC101928728</i>	uncharacterized LOC101928728	ENSG00000260063	-1.620	4.30E-02
<i>LOC102724050</i>	uncharacterized LOC102724050	ENSG00000258086	0.336	4.30E-02
<i>LOC439933</i>	uncharacterized LOC439933	ENSG00000247193	1.535	4.30E-02
<i>LRRC2</i>	leucine rich repeat containing 2	ENSG00000163827	0.387	4.30E-02
<i>NFIA</i>	nuclear factor I A	ENSG00000162599	0.819	4.30E-02
<i>RP11_289I102</i>		ENSG00000223612	1.617	4.30E-02
<i>RP11_517O131</i>		ENSG00000258378	-0.815	4.30E-02
<i>RP11_582J163</i>		ENSG00000254230	0.310	4.30E-02
<i>SENP8</i>	SUMO peptidase family member, NEDD8	ENSG00000166192	-0.815	4.30E-02



	specific			
<i>SLC4A5</i>	solute carrier family 4 member 5	ENSG00000188687	-0.815	4.30E-02
<i>SNX12</i>	sorting nexin 12	ENSG00000147164	0.236	4.30E-02
<i>SPATA6</i>	spermatogenesis associated 6	ENSG00000132122	0.822	4.30E-02
<i>TEAD1</i>	TEA domain transcription factor 1	ENSG00000187079	0.173	4.30E-02
<i>TNFRSF11B</i>	TNF receptor superfamily member 11b	ENSG00000164761	0.622	4.30E-02
<i>TRIT1</i>	tRNA isopentenyltransferase 1	ENSG00000043514	0.495	4.30E-02
<i>TRPV4</i>	transient receptor potential cation channel subfamily V member 4	ENSG00000111199	-0.781	4.30E-02
<i>ZBTB21</i>	zinc finger and BTB domain containing 21	ENSG00000173276	0.347	4.30E-02
<i>ZNF345</i>	zinc finger protein 345	ENSG00000251247	-1.403	4.30E-02
<i>ZNF7</i>	zinc finger protein 7	ENSG00000147789	-0.374	4.30E-02
<i>ZSCAN5A</i>	zinc finger and SCAN domain containing 5A	ENSG00000131848	0.822	4.30E-02
<i>COL24A1</i>	collagen type XXIV alpha 1 chain	ENSG00000171502	-1.580	4.30E-03
<i>HOXA-AS3</i>	HOXA cluster antisense RNA 3	ENSG00000254369	-1.091	4.30E-03
<i>MTERF4</i>	mitochondrial transcription termination factor 4	ENSG00000122085	0.522	4.30E-03
<i>NOXO1</i>	NADPH oxidase organizer 1	ENSG00000196408	-1.091	4.30E-03
<i>RP11_486F171</i>		ENSG00000257045	-1.580	4.30E-03
<i>RP4_742J242</i>		ENSG00000236526	1.011	4.30E-03
<i>AC0742125</i>		ENSG00000259605	0.305	4.40E-02
<i>ANXA4</i>	annexin A4	ENSG00000196975	-0.236	4.40E-02
<i>BLMH</i>	bleomycin hydrolase	ENSG00000108578	-0.294	4.40E-02
<i>DDAH2</i>	dimethylarginine dimethylaminohydrolase 2	ENSG00000213722	0.311	4.40E-02
<i>EMC6</i>	ER membrane protein complex subunit 6	ENSG00000127774	-0.295	4.40E-02
<i>RP11_152P232</i>		ENSG00000260350	-0.412	4.40E-02
<i>RP11_566K114</i>		ENSG00000259006	-0.908	4.40E-02
<i>SLC7A11</i>	solute carrier family 7 member 11	ENSG00000151012	0.182	4.40E-02
<i>STS</i>	steroid sulfatase	ENSG00000101846	0.420	4.40E-02
<i>TGM2</i>	transglutaminase 2	ENSG00000198959	-0.303	4.40E-02
<i>ZSCAN25</i>	zinc finger and SCAN domain containing 25	ENSG00000197037	-0.575	4.40E-02
<i>CTD_2017D111</i>		ENSG00000268362	-1.787	4.40E-03
<i>DAW1</i>	dynein assembly factor with WD repeats 1	ENSG00000123977	3.344	4.40E-03
<i>DLEC1</i>	DLEC1 cilia and flagella associated protein	ENSG00000008226	0.656	4.40E-03
<i>LOC101928663</i>	uncharacterized LOC101928663	ENSG00000168405	-2.471	4.40E-03
<i>PPP1R35</i>	protein phosphatase 1 regulatory subunit 35	ENSG00000160813	-0.538	4.40E-03
<i>RP11_592N211</i>		ENSG00000212664	1.968	4.40E-03
<i>ZNF197</i>	zinc finger protein 197	ENSG00000186448	0.494	4.40E-03
<i>AC0021171</i>		ENSG00000224505	-1.232	4.40E-04
<i>AC022007.1</i>		ENSG00000206567	1.523	4.50E-02
<i>ANKH</i>	ANKH inorganic pyrophosphate transport regulator	ENSG00000154122	-0.195	4.50E-02
<i>C1orf112</i>	chromosome 1 open reading frame 112	ENSG00000000460	0.344	4.50E-02
<i>C1QTNF6</i>	C1q and TNF related 6	ENSG00000133466	0.471	4.50E-02
<i>DCHS1</i>	dachsous cadherin-related 1	ENSG00000166341	-1.228	4.50E-02
<i>ENO2</i>	enolase 2	ENSG00000111674	-0.373	4.50E-02
<i>H2BC5</i>	H2B clustered histone 5	ENSG00000158373	1.295	4.50E-02
<i>NEK10</i>	NIMA related kinase 10	ENSG00000163491	1.523	4.50E-02
<i>OLFML2B</i>	olfactomedin like 2B	ENSG00000162745	1.295	4.50E-02

<i>OXA1L</i>	OXA1L mitochondrial inner membrane protein	ENSG00000155463	-0.247	4.50E-02
<i>RAB3A</i>	RAB3A, member RAS oncogene family	ENSG00000105649	1.295	4.50E-02
<i>RILPL2</i>	Rab interacting lysosomal protein like 2	ENSG00000150977	0.441	4.50E-02
<i>RP11_240G225</i>		ENSG00000274554	1.523	4.50E-02
<i>RP11_413H222</i>		ENSG00000260621	0.441	4.50E-02
<i>RP11_537A69</i>		ENSG00000233144	-0.344	4.50E-02
<i>RPL30</i>	ribosomal protein L30	ENSG00000156482	-0.169	4.50E-02
<i>RPS17</i>	ribosomal protein S17	ENSG00000182774	-0.161	4.50E-02
<i>SCAND2P</i>	SCAN domain containing 2 pseudogene	ENSG00000176700	0.300	4.50E-02
<i>SERPINF1</i>	serpin family F member 1	ENSG00000132386	1.523	4.50E-02
<i>SLFN12</i>	schlafen family member 12	ENSG00000172123	-0.373	4.50E-02
<i>STMP1</i>	short transmembrane mitochondrial protein 1	ENSG00000243317	-0.287	4.50E-02
<i>TGS1</i>	trimethylguanosine synthase 1	ENSG00000137574	-0.328	4.50E-02
<i>TMCO6</i>	transmembrane and coiled-coil domains 6	ENSG00000113119	0.654	4.50E-02
<i>TMUB2</i>	transmembrane and ubiquitin like domain containing 2	ENSG00000168591	-0.302	4.50E-02
<i>TTC3-AS1</i>	TTC3 antisense RNA 1	ENSG00000228677	-0.446	4.50E-02
<i>ZC3H4</i>	zinc finger CCCH-type containing 4	ENSG00000130749	0.222	4.50E-02
<i>CTC_506B81</i>		ENSG00000249180	-0.495	4.50E-03
<i>MKKS</i>	McKusick-Kaufman syndrome	ENSG00000125863	-0.470	4.50E-03
<i>PIN4</i>	peptidylprolyl cis/trans isomerase, NIMA-interacting 4	ENSG00000102309	-0.588	4.50E-03
<i>ARAP1</i>	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	ENSG00000186635	0.200	4.60E-02
<i>ASTE1</i>	asteroid homolog 1	ENSG00000034533	0.419	4.60E-02
<i>CIPC</i>	CLOCK interacting pacemaker	ENSG00000198894	-0.456	4.60E-02
<i>DIXDC1</i>	DIX domain containing 1	ENSG00000150764	0.346	4.60E-02
<i>FBXO48</i>	F-box protein 48	ENSG00000204923	1.049	4.60E-02
<i>HAS3</i>	hyaluronan synthase 3	ENSG00000103044	0.351	4.60E-02
<i>METTL17</i>	methyltransferase like 17	ENSG00000165792	-0.285	4.60E-02
<i>PHLPP1</i>	PH domain and leucine rich repeat protein phosphatase 1	ENSG00000081913	-0.493	4.60E-02
<i>RAB30</i>	RAB30, member RAS oncogene family	ENSG00000137502	-0.384	4.60E-02
<i>RASSF2</i>	Ras association domain family member 2	ENSG00000101265	0.525	4.60E-02
<i>RP11-96L14.7</i>		ENSG00000236782	0.405	4.60E-02
<i>RP11_758P172</i>		ENSG00000241357	-0.650	4.60E-02
<i>WDR83OS</i>	WD repeat domain 83 opposite strand	ENSG00000105583	0.242	4.60E-02
<i>ZNF26</i>	zinc finger protein 26	ENSG00000198393	0.572	4.60E-02
<i>ELOVL2</i>	ELOVL fatty acid elongase 2	ENSG00000197977	2.241	4.60E-03
<i>H2AZ1-DT</i>	H2AZ1 divergent transcript	ENSG00000245322	-0.352	4.60E-04
<i>ABCF2</i>	ATP binding cassette subfamily F member 2	ENSG00000033050	-0.239	4.70E-02
<i>CLASRP</i>	CLK4 associating serine/arginine rich protein	ENSG00000104859	-0.240	4.70E-02
<i>CTTNBP2</i>	cortactin binding protein 2	ENSG00000077063	0.742	4.70E-02
<i>CUL1</i>	cullin 1	ENSG00000055130	-0.233	4.70E-02
<i>FZD1</i>	frizzled class receptor 1	ENSG00000157240	-0.295	4.70E-02
<i>GPATCH1</i>	G-patch domain containing 1	ENSG00000076650	-0.528	4.70E-02
<i>KLHL26</i>	kelch like family member 26	ENSG00000167487	0.548	4.70E-02
<i>LPCAT4</i>	lysophosphatidylcholine acyltransferase 4	ENSG00000176454	-0.331	4.70E-02
<i>PPARA</i>	peroxisome proliferator activated receptor alpha	ENSG00000186951	0.386	4.70E-02

<i>PTPRU</i>	protein tyrosine phosphatase receptor type U	ENSG00000060656	0.346	4.70E-02
<i>TAF8</i>	TATA-box binding protein associated factor 8	ENSG00000137413	-0.339	4.70E-02
<i>TNFSF4</i>	TNF superfamily member 4	ENSG00000117586	0.494	4.70E-02
<i>UACA</i>	uveal autoantigen with coiled-coil domains and ankyrin repeats	ENSG00000137831	-0.222	4.70E-02
<i>NUDT15</i>	nudix hydrolase 15	ENSG00000136159	-0.550	4.70E-03
<i>NXN</i>	nucleoredoxin	ENSG00000167693	0.440	4.70E-03
<i>RP4_773N104</i>		ENSG00000258634	-0.743	4.70E-03
<i>TBC1D10A</i>	TBC1 domain family member 10A	ENSG00000099992	0.717	4.70E-03
<i>CDKN2AIP</i>	CDKN2A interacting protein	ENSG00000168564	0.632	4.70E-04
<i>AC0052622</i>		ENSG00000267688	-0.340	4.80E-02
<i>AC005301.9</i>		ENSG00000283633	0.860	4.80E-02
<i>DNAJC25</i>	DnaJ heat shock protein family (Hsp40) member C25	ENSG00000059769	-0.610	4.80E-02
<i>FAM72A</i>	family with sequence similarity 72 member A	ENSG00000196550	0.860	4.80E-02
<i>FOXP4</i>	forkhead box P4	ENSG00000137166	0.239	4.80E-02
<i>GON7</i>	GON7 subunit of KEOPS complex	ENSG00000170270	-0.658	4.80E-02
<i>GSDMB</i>	gasdermin B	ENSG00000073605	-0.835	4.80E-02
<i>HECA</i>	hdc homolog, cell cycle regulator	ENSG00000112406	0.291	4.80E-02
<i>LOC103611081</i>	uncharacterized LOC103611081	ENSG00000255455	0.645	4.80E-02
<i>MAL2</i>	mal, T cell differentiation protein 2 (gene/pseudogene)	ENSG00000147676	-0.886	4.80E-02
<i>MED17</i>	mediator complex subunit 17	ENSG00000042429	0.304	4.80E-02
<i>MICU3</i>	mitochondrial calcium uptake family member 3	ENSG00000155970	0.893	4.80E-02
<i>NEXN-AS1</i>	NEXN antisense RNA 1	ENSG00000235927	-0.647	4.80E-02
<i>POLH</i>	DNA polymerase eta	ENSG00000170734	0.354	4.80E-02
<i>PPIL4</i>	peptidylprolyl isomerase like 4	ENSG00000131013	-0.341	4.80E-02
<i>PRRX1</i>	paired related homeobox 1	ENSG00000116132	-0.320	4.80E-02
<i>RAB11FIP1P1</i>	RAB11 family interacting protein 1 pseudogene 1	ENSG00000228492	-0.886	4.80E-02
<i>RAP1GAP2</i>	RAP1 GTPase activating protein 2	ENSG00000132359	0.630	4.80E-02
<i>REXO2</i>	RNA exonuclease 2	ENSG00000076043	-0.192	4.80E-02
<i>SOAT1</i>	sterol O-acyltransferase 1	ENSG00000057252	0.275	4.80E-02
<i>STK26</i>	serine/threonine kinase 26	ENSG00000134602	0.471	4.80E-02
<i>STX5</i>	syntaxin 5	ENSG00000162236	0.244	4.80E-02
<i>TMEM134</i>	transmembrane protein 134	ENSG00000172663	0.321	4.80E-02
<i>U731662</i>		ENSG00000230454	-0.835	4.80E-02
<i>ZNF121</i>	zinc finger protein 121	ENSG00000197961	-0.415	4.80E-02
<i>NT5C</i>	5', 3'-nucleotidase, cytosolic	ENSG00000125458	-0.371	4.80E-03
<i>ARSJ</i>	arylsulfatase family member J	ENSG00000180801	0.460	4.90E-02
<i>C12orf65</i>	chromosome 12 open reading frame 65	ENSG00000130921	-0.360	4.90E-02
<i>C3orf38</i>	chromosome 3 open reading frame 38	ENSG00000179021	0.357	4.90E-02
<i>CFAP97</i>	cilia and flagella associated protein 97	ENSG00000164323	-0.263	4.90E-02
<i>GNAS</i>	GNAS complex locus	ENSG00000087460	-0.152	4.90E-02
<i>RANGRF</i>	RAN guanine nucleotide release factor	ENSG00000108961	-0.394	4.90E-02
<i>SCLT1</i>	sodium channel and clathrin linker 1	ENSG00000151466	-0.416	4.90E-02
<i>TGFB1</i>	transforming growth factor beta induced	ENSG00000120708	-0.229	4.90E-02
<i>TRAPPC5</i>	trafficking protein particle complex 5	ENSG00000181029	-0.552	4.90E-02
<i>WTAP</i>	WT1 associated protein	ENSG00000146457	-0.229	4.90E-02

<i>ABCA8</i>	ATP binding cassette subfamily A member 8	ENSG00000141338	-0.550	5.00E-02
<i>AC0052532</i>		ENSG00000268030	-0.507	5.00E-02
<i>ANXA10</i>	annexin A10	ENSG00000109511	0.497	5.00E-02
<i>ARHGAP24</i>	Rho GTPase activating protein 24	ENSG00000138639	0.273	5.00E-02
<i>BFSP1</i>	beaded filament structural protein 1	ENSG00000125864	-1.637	5.00E-02
<i>CAND2</i>	cullin associated and neddylation dissociated 2 (putative)	ENSG00000144712	1.759	5.00E-02
<i>FAM102B</i>	family with sequence similarity 102 member B	ENSG00000162636	0.460	5.00E-02
<i>FSD1L</i>	fibronectin type III and SPRY domain containing 1 like	ENSG00000106701	-0.671	5.00E-02
<i>FSIP1</i>	fibrous sheath interacting protein 1	ENSG00000150667	1.759	5.00E-02
<i>LOC729732</i>	uncharacterized LOC729732	ENSG00000283674	1.759	5.00E-02
<i>LRIG3</i>	leucine rich repeats and immunoglobulin like domains 3	ENSG00000139263	-1.007	5.00E-02
<i>MLH3</i>	mutL homolog 3	ENSG00000119684	0.399	5.00E-02
<i>MT-ND4</i>	NADH dehydrogenase, subunit 4 (complex I)	ENSG00000198886	-0.147	5.00E-02
<i>NDUFA2</i>	NADH:ubiquinone oxidoreductase subunit A2	ENSG00000131495	-0.268	5.00E-02
<i>NDUFAF3</i>	NADH:ubiquinone oxidoreductase complex assembly factor 3	ENSG00000178057	0.255	5.00E-02
<i>PLEKHM3</i>	pleckstrin homology domain containing M3	ENSG00000178385	-0.405	5.00E-02
<i>RP11_143K117</i>		ENSG00000277728	-1.007	5.00E-02
<i>RP11_144G612</i>		ENSG00000254929	-1.637	5.00E-02
<i>RP11_334E610</i>		ENSG00000245385	-0.361	5.00E-02
<i>RP11_481J24</i>		ENSG00000276259	-0.581	5.00E-02
<i>RP11_65L32</i>		ENSG00000270277	-1.637	5.00E-02
<i>RPL35</i>	ribosomal protein L35	ENSG00000136942	-0.162	5.00E-02
<i>RPL37A</i>	ribosomal protein L37a	ENSG00000197756	-0.157	5.00E-02
<i>SFI1</i>	SFI1 centrin binding protein	ENSG00000198089	0.388	5.00E-02
<i>SPIN1</i>	spindlin 1	ENSG00000106723	0.195	5.00E-02
<i>TCEAL9</i>	transcription elongation factor A like 9	ENSG00000185222	0.229	5.00E-02
<i>XKR6</i>	XK related 6	ENSG00000171044	0.570	5.00E-02
<i>CABLES1</i>	Cdk5 and Abl enzyme substrate 1	ENSG00000134508	0.553	5.00E-03
<i>XYLB</i>	xylulokinase	ENSG00000093217	1.727	5.00E-03
<i>TFPI2</i>	tissue factor pathway inhibitor 2	ENSG00000105825	-1.261	5.00E-04
<i>LINC01138</i>	long intergenic non-protein coding RNA 1138	ENSG00000274020	0.897	5.10E-03
<i>RASSF10</i>	Ras association domain family member 10	ENSG00000189431	-6.761	5.10E-04
<i>ARHGEF28</i>	Rho guanine nucleotide exchange factor 28	ENSG00000214944	-0.434	5.20E-04
<i>MYLIP</i>	myosin regulatory light chain interacting protein	ENSG00000007944	-0.817	5.30E-04
<i>ING1</i>	inhibitor of growth family member 1	ENSG00000153487	-0.421	5.40E-03
<i>SF3A3</i>	splicing factor 3a subunit 3	ENSG00000183431	-0.314	5.40E-03
<i>SPACA6</i>	sperm acrosome associated 6	ENSG00000182310	-0.642	5.40E-03
<i>TAF1A</i>	TATA-box binding protein associated factor, RNA polymerase I subunit A	ENSG00000143498	-1.321	5.40E-04
<i>PIAS4</i>	protein inhibitor of activated STAT 4	ENSG00000105229	0.428	5.50E-03
<i>ANKRD34A</i>	ankyrin repeat domain 34A	ENSG00000272031	1.997	5.50E-04
<i>ATP5PF</i>	ATP synthase peripheral stalk subunit F6	ENSG00000154723	-0.341	5.60E-03
<i>HAND2-AS1</i>	HAND2 antisense RNA 1	ENSG00000237125	-1.664	5.60E-03

<i>MAT2B</i>	methionine adenosyltransferase 2B	ENSG00000038274	-0.310	5.60E-03
<i>MEIS3</i>	Meis homeobox 3	ENSG00000105419	-1.010	5.60E-03
<i>RNPC3</i>	RNA binding region (RNP1, RRM) containing 3	ENSG00000185946	-0.819	5.60E-03
<i>SLC25A13</i>	solute carrier family 25 member 13	ENSG00000004864	-0.494	5.60E-03
<i>STX1A</i>	syntaxin 1A	ENSG00000106089	-0.509	5.60E-03
<i>TCF7</i>	transcription factor 7	ENSG00000081059	0.989	5.60E-03
<i>ZNF502</i>	zinc finger protein 502	ENSG00000196653	1.883	5.60E-03
<i>SHROOM2</i>	shroom family member 2	ENSG00000146950	0.723	5.60E-04
<i>MRPL45</i>	mitochondrial ribosomal protein L45	ENSG00000278845	0.443	5.70E-03
<i>RELL2</i>	RELT like 2	ENSG00000164620	-0.698	5.70E-04
<i>AGAP5 (includes others)</i>	ArfGAP with GTPase domain, ankyrin repeat and PH domain 5	ENSG00000188234	1.134	5.80E-03
<i>ARSG</i>	arylsulfatase G	ENSG00000141337	-0.551	5.80E-03
<i>CCDC91</i>	coiled-coil domain containing 91	ENSG00000123106	-0.509	5.80E-03
<i>LOC102606465</i>	uncharacterized LOC102606465	ENSG00000233184	-1.003	5.80E-03
<i>TBC1D12</i>	TBC1 domain family member 12	ENSG00000108239	0.527	5.80E-03
<i>SSBP2</i>	single stranded DNA binding protein 2	ENSG00000145687	-0.595	5.90E-03
<i>AC0057899</i>		ENSG00000267090	2.490	5.90E-04
<i>ST7-AS2</i>	ST7 antisense RNA 2	ENSG00000226367	2.490	5.90E-04
<i>COX11</i>	cytochrome c oxidase copper chaperone COX11	ENSG00000166260	0.413	6.00E-03
<i>RP11_110I16</i>		ENSG00000255114	-0.378	6.00E-03
<i>LOC101928525</i>	uncharacterized LOC101928525	ENSG00000226706	0.566	6.10E-03
<i>RP11_109D202</i>		ENSG00000259352	-0.785	6.10E-03
<i>TEX30</i>	testis expressed 30	ENSG00000151287	0.728	6.10E-03
<i>RP11_843B152</i>		ENSG00000257530	1.326	6.20E-03
<i>TAF4B</i>	TATA-box binding protein associated factor 4b	ENSG00000141384	1.213	6.20E-03
<i>VGLL3</i>	vestigial like family member 3	ENSG00000206538	0.559	6.20E-04
<i>CNIH3-AS2</i>	CNIH3 antisense RNA 2	ENSG00000233384	-1.201	6.30E-03
<i>PLXNB3</i>	plexin B3	ENSG00000198753	0.483	6.30E-03
<i>MRPL32</i>	mitochondrial ribosomal protein L32	ENSG00000106591	0.438	6.40E-03
<i>S100A13</i>	S100 calcium binding protein A13	ENSG00000189171	-0.325	6.40E-03
<i>ZNF337-AS1</i>	ZNF337 antisense RNA 1	ENSG00000213742	-0.579	6.40E-03
<i>RASSF8</i>	Ras association domain family member 8	ENSG00000123094	0.381	6.50E-03
<i>ROBO4</i>	roundabout guidance receptor 4	ENSG00000154133	-2.762	6.50E-03
<i>LINC02603</i>	long intergenic non-protein coding RNA 2603	ENSG00000230262	-4.042	6.50E-05
<i>CIB2</i>	calcium and integrin binding family member 2	ENSG00000136425	-1.296	6.70E-04
<i>KAT2B</i>	lysine acetyltransferase 2B	ENSG00000114166	0.496	6.80E-03
<i>ZBTB43</i>	zinc finger and BTB domain containing 43	ENSG00000169155	0.563	6.80E-03
<i>DIP2B</i>	disco interacting protein 2 homolog B	ENSG00000066084	0.285	6.90E-03
<i>CPD</i>	carboxypeptidase D	ENSG00000108582	0.270	7.00E-03
<i>FBXW9</i>	F-box and WD repeat domain containing 9	ENSG00000132004	0.523	7.00E-03
<i>MT-CYB</i>	cytochrome b	ENSG00000198727	-0.211	7.00E-03
<i>PEX16</i>	peroxisomal biogenesis factor 16	ENSG00000121680	0.594	7.00E-03
<i>ANO7</i>	anoctamin 7	ENSG00000146205	-1.356	7.10E-03
<i>MT-ATP8</i>	ATP synthase F0 subunit 8	ENSG00000228253	-0.298	7.10E-03
<i>TRIP6</i>	thyroid hormone receptor interactor 6	ENSG00000087077	-0.320	7.10E-03
<i>SCD</i>	stearoyl-CoA desaturase	ENSG00000099194	0.219	7.20E-03
<i>ZBTB3</i>	zinc finger and BTB domain containing 3	ENSG00000185670	-1.068	7.20E-03

<i>MAP4K3</i>	mitogen-activated protein kinase kinase kinase 3	ENSG00000011566	0.429	7.30E-03
<i>TNFRSF10D</i>	TNF receptor superfamily member 10d	ENSG00000173530	-0.387	7.30E-03
<i>PPP3CA</i>	protein phosphatase 3 catalytic subunit alpha	ENSG00000138814	0.273	7.40E-03
<i>URI1</i>	URI1 prefoldin like chaperone	ENSG00000105176	0.358	7.40E-03
<i>LOC102723582</i>	uncharacterized LOC102723582	ENSG00000272758	0.421	7.50E-03
<i>CCDC151</i>	coiled-coil domain containing 151	ENSG00000198003	-0.431	7.60E-03
<i>CD2BP2-DT</i>	CD2BP2 divergent transcript	ENSG00000260219	2.171	7.60E-03
<i>CNBD2</i>	cyclic nucleotide binding domain containing 2	ENSG00000149646	-1.585	7.60E-03
<i>ESR1</i>	estrogen receptor 1	ENSG00000091831	2.171	7.60E-03
<i>FGF22</i>	fibroblast growth factor 22	ENSG00000070388	3.252	7.60E-03
<i>HNRNPLP2</i>	heterogeneous nuclear ribonucleoprotein L pseudogene 2	ENSG00000259917	2.171	7.60E-03
<i>LDHD</i>	lactate dehydrogenase D	ENSG00000166816	3.252	7.60E-03
<i>MORN2</i>	MORN repeat containing 2	ENSG00000188010	-0.735	7.60E-03
<i>PPP1R32</i>	protein phosphatase 1 regulatory subunit 32	ENSG00000162148	3.252	7.60E-03
<i>RPL34</i>	ribosomal protein L34	ENSG00000109475	-0.240	7.60E-03
<i>RP1_198K115</i>		ENSG00000275457	0.701	7.70E-03
<i>ZNF585B</i>	zinc finger protein 585B	ENSG00000245680	0.701	7.70E-03
<i>ABI3BP</i>	ABI family member 3 binding protein	ENSG00000154175	-0.805	7.80E-03
<i>JARID2</i>	jumonji and AT-rich interaction domain containing 2	ENSG00000008083	0.374	7.80E-03
<i>PPHLN1</i>	periphilin 1	ENSG00000134283	-0.328	7.80E-03
<i>ITGB1-DT</i>	ITGB1 divergent transcript	ENSG00000229656	-2.188	7.90E-03
<i>LHX1-DT</i>	LHX1 divergent transcript	ENSG00000277268	-2.188	7.90E-03
<i>LINC01504</i>	long intergenic non-protein coding RNA 1504	ENSG00000225434	-2.188	7.90E-03
<i>LOC105375519</i>		ENSG00000273297	2.581	7.90E-03
<i>MCTS2P</i>	MCTS family member 2, pseudogene	ENSG00000101898	2.581	7.90E-03
<i>RP11_197N182</i>		ENSG00000256028	2.581	7.90E-03
<i>SEMA4A</i>	semaphorin 4A	ENSG00000196189	2.499	7.90E-03
<i>TBC1D32</i>	TBC1 domain family member 32	ENSG00000146350	-0.941	7.90E-03
<i>CENPV</i>	centromere protein V	ENSG00000166582	0.643	8.00E-03
<i>RALB</i>	RAS like proto-oncogene B	ENSG00000144118	-0.319	8.00E-03
<i>ZNRF2</i>	zinc and ring finger 2	ENSG00000180233	0.484	8.00E-03
<i>COPS7B</i>	COP9 signalosome subunit 7B	ENSG00000144524	-0.510	8.10E-04
<i>RP11_159D122</i>		ENSG00000264112	-0.768	8.20E-03
<i>RUNX2</i>	RUNX family transcription factor 2	ENSG00000124813	0.411	8.20E-03
<i>C3orf33</i>	chromosome 3 open reading frame 33	ENSG00000174928	1.460	8.30E-03
<i>CES3</i>	carboxylesterase 3	ENSG00000172828	1.081	8.30E-03
<i>GDPGP1</i>	GDP-D-glucose phosphorylase 1	ENSG00000183208	-0.365	8.30E-03
<i>ZNF688</i>	zinc finger protein 688	ENSG00000229809	0.546	8.30E-03
<i>AC1425281</i>		ENSG00000235078	-0.403	8.40E-03
<i>CD82</i>	CD82 molecule	ENSG00000085117	-0.251	8.40E-03
<i>PIMREG</i>	PICALM interacting mitotic regulator	ENSG00000129195	-0.362	8.40E-03
<i>TTF1</i>	transcription termination factor 1	ENSG00000125482	-0.508	8.40E-03
<i>BDNF-AS</i>	BDNF antisense RNA	ENSG00000245573	-0.752	8.40E-04
<i>RPUSD4</i>	RNA pseudouridine synthase D4	ENSG00000165526	-0.481	8.60E-03
<i>TPTEP2</i>	TPTE pseudogene 2	ENSG00000244627	1.956	8.60E-04
<i>IQCD</i>	IQ motif containing D	ENSG00000166578	1.829	8.70E-03

<i>TRIM23</i>	tripartite motif containing 23	ENSG00000113595	0.540	8.70E-03
<i>SEC14L1</i>	SEC14 like lipid binding 1	ENSG00000129657	0.278	8.80E-03
<i>JADE3</i>	jade family PHD finger 3	ENSG00000102221	-0.467	8.90E-03
<i>RP11_205M53</i>		ENSG00000280064	0.809	9.10E-03
<i>ABCF3</i>	ATP binding cassette subfamily F member 3	ENSG00000161204	-0.339	9.20E-03
<i>GALNT18</i>	polypeptide N-acetylgalactosaminyltransferase 18	ENSG00000110328	-0.541	9.20E-03
<i>UTP14A</i>	UTP14A small subunit processome component	ENSG00000156697	-0.439	9.30E-03
<i>DPY19L4</i>	dpy-19 like 4	ENSG00000156162	0.362	9.40E-03
<i>MYO1D</i>	myosin ID	ENSG00000176658	0.746	9.40E-03
<i>LRFN4</i>	leucine rich repeat and fibronectin type III domain containing 4	ENSG00000173621	0.445	9.40E-04
<i>MROH8</i>	maestro heat like repeat family member 8	ENSG00000101353	-0.346	9.50E-03
<i>PRRT3</i>	proline rich transmembrane protein 3	ENSG00000163704	0.640	9.50E-03
<i>TP53I11</i>	tumor protein p53 inducible protein 11	ENSG00000175274	0.357	9.50E-03
<i>ZBTB39</i>	zinc finger and BTB domain containing 39	ENSG00000166860	0.596	9.50E-03
<i>BNC2</i>	basonuclin 2	ENSG00000173068	0.382	9.60E-03
<i>CWC27</i>	CWC27 spliceosome associated cyclophilin	ENSG00000153015	-0.417	9.60E-03
<i>LA16C_390E64</i>		ENSG00000260051	1.527	9.70E-04
<i>SNAP29</i>	synaptosome associated protein 29	ENSG00000099940	0.449	9.80E-03
<i>EDN1</i>	endothelin 1	ENSG00000078401	1.114	9.90E-03
<i>MRPL41</i>	mitochondrial ribosomal protein L41	ENSG00000182154	-0.309	9.90E-03
<i>SMG1P2</i>	SMG1 pseudogene 2	ENSG00000205534	-1.598	9.90E-03
<i>CRACR2B</i>	calcium release activated channel regulator 2B	ENSG00000177685	2.432	9.90E-04

**Table S2.** List of DEGs in FSK treatment (FC = 0, adjusted *p*-value ≤ 0.05).

<i>Symbol</i>	<i>Entrez Gene Name</i>	<i>ENSEMBL</i>	<i>Expr Log Ratio</i>	<i>Expr p-Value</i>
<i>A4GALT</i>	alpha 1,4-galactosyltransferase (P blood group)	ENSG00000128274	1.561	7.10E-04
<i>AASS</i>	aminoadipate-semialdehyde synthase	ENSG00000008311	0.942	3.40E-02
<i>ABCA13</i>	ATP binding cassette subfamily A member 13	ENSG00000179869	2.148	3.90E-03
<i>ABCA8</i>	ATP binding cassette subfamily A member 8	ENSG00000141338	1.503	7.20E-04
<i>ABCC4</i>	ATP binding cassette subfamily C member 4	ENSG00000125257	1.291	1.40E-03
<i>ABL1</i>	ABL proto-oncogene 1, non-receptor tyrosine kinase	ENSG00000097007	0.778	4.90E-02
<i>AC0053392</i>		ENSG00000268565	-1.170	3.30E-02
<i>AC0075635</i>		ENSG00000236886	1.080	6.40E-03
<i>AC0107616</i>		ENSG00000265073	2.034	1.60E-02
<i>AC0374451</i>		ENSG00000233635	1.696	1.50E-02
<i>AC0695134</i>		ENSG00000229178	-3.453	2.00E-02
<i>AC1147308</i>		ENSG00000215692	1.008	4.50E-02
<i>ACBD4</i>	acyl-CoA binding domain containing 4	ENSG00000181513	0.962	3.70E-02
<i>ACE</i>	angiotensin I converting enzyme	ENSG00000159640	2.004	4.20E-02
<i>ACHE</i>	acetylcholinesterase (Cartwright blood group)	ENSG00000087085	-3.603	1.30E-02
<i>ACTG2</i>	actin gamma 2, smooth muscle	ENSG00000163017	-1.011	2.20E-02
<i>ADAMTS15</i>	ADAM metallopeptidase with thrombospondin type 1 motif 15	ENSG00000166106	0.964	1.90E-02
<i>ADAMTS7</i>	ADAM metallopeptidase with thrombospondin type 1 motif 7	ENSG00000136378	-0.873	2.90E-02
<i>ADAMTSL3</i>	ADAMTS like 3	ENSG00000156218	1.743	1.80E-02
<i>ADCY1</i>	adenylate cyclase 1	ENSG00000164742	-2.520	7.10E-03
<i>ADCY3</i>	adenylate cyclase 3	ENSG00000138031	-0.976	1.80E-02
<i>ADGRG1</i>	adhesion G protein-coupled receptor G1	ENSG00000205336	-1.135	1.40E-02
<i>ADSS1</i>	adenylosuccinate synthase 1	ENSG00000185100	3.315	4.80E-03
<i>AFAP1L2</i>	actin filament associated protein 1 like 2	ENSG00000169129	-1.354	1.60E-02
<i>AFF3</i>	AF4/FMR2 family member 3	ENSG00000144218	-1.598	7.70E-03
<i>AHI1</i>	Abelson helper integration site 1	ENSG00000135541	1.261	2.60E-03
<i>ALDH1A1</i>	aldehyde dehydrogenase 1 family member A1	ENSG00000165092	1.503	1.30E-02
<i>ALDH1A3</i>	aldehyde dehydrogenase 1 family member A3	ENSG00000184254	-1.076	9.70E-03
<i>ALDH1L2</i>	aldehyde dehydrogenase 1 family member L2	ENSG00000136010	-0.889	3.70E-02
<i>ALDH3B1</i>	aldehyde dehydrogenase 3 family member B1	ENSG00000006534	0.968	1.80E-02
<i>ALPL</i>	alkaline phosphatase, biomineralization associated	ENSG00000162551	2.153	8.50E-03
<i>AMDHD1</i>	amidohydrolase domain containing 1	ENSG00000139344	2.737	3.30E-02
<i>AMPD3</i>	adenosine monophosphate deaminase 3	ENSG00000133805	-0.992	2.60E-02
<i>ANGPT1</i>	angiopoietin 1	ENSG00000154188	1.770	1.10E-04
<i>ANGPTL2</i>	angiopoietin like 2	ENSG00000136859	1.085	1.30E-02
<i>ANGPTL4</i>	angiopoietin like 4	ENSG00000167772	-1.605	4.30E-04



<i>ANKRD34A</i>	ankyrin repeat domain 34A	ENSG00000272031	1.842	1.00E-02
<i>ANLN</i>	anillin actin binding protein	ENSG00000011426	-1.582	9.20E-05
<i>ANO7</i>	anoctamin 7	ENSG00000146205	-3.060	1.20E-04
<i>ANTXR1</i>	ANTXR cell adhesion molecule 1	ENSG00000169604	1.620	5.00E-05
<i>AP1S3</i>	adaptor related protein complex 1 subunit sigma 3	ENSG00000152056	1.043	2.30E-02
<i>AP3M2</i>	adaptor related protein complex 3 subunit mu 2	ENSG00000070718	-0.938	3.30E-02
<i>APCDD1L</i>	APC down-regulated 1 like	ENSG00000198768	-1.692	2.00E-04
<i>APCDD1L-DT</i>	APCDD1L divergent transcript	ENSG00000231290	-1.518	3.10E-02
<i>APOA1</i>	apolipoprotein A1	ENSG00000118137	-2.698	1.30E-02
<i>APOE</i>	apolipoprotein E	ENSG00000130203	-1.521	3.00E-03
<i>AQP2</i>	aquaporin 2	ENSG00000167580	7.381	1.60E-05
<i>ARHGAP11A</i>	Rho GTPase activating protein 11A	ENSG00000198826	-1.212	3.40E-03
<i>ARHGAP19</i>	Rho GTPase activating protein 19	ENSG00000213390	-1.044	3.50E-02
<i>ARHGDIB</i>	Rho GDP dissociation inhibitor beta	ENSG00000111348	-1.197	6.70E-03
<i>ARHGEF19</i>	Rho guanine nucleotide exchange factor 19	ENSG00000142632	0.905	2.70E-02
<i>ARHGEF19-AS1</i>	ARHGEF19 antisense RNA 1	ENSG00000234166	1.362	1.20E-02
<i>ARHGEF34P</i>	Rho guanine nucleotide exchange factor 34, pseudogene	ENSG00000204959	1.487	2.90E-02
<i>ARNTL2-AS1</i>	ARNTL2 antisense RNA 1	ENSG00000245311	-1.400	3.60E-02
<i>ARRDC3</i>	arrestin domain containing 3	ENSG00000113369	1.275	1.90E-03
<i>ARSB</i>	arylsulfatase B	ENSG00000113273	0.797	5.00E-02
<i>ARSD-AS1</i>	ARSD antisense RNA 1	ENSG00000229851	0.870	4.20E-02
<i>ASF1B</i>	anti-silencing function 1B histone chaperone	ENSG00000105011	-1.570	1.70E-04
<i>ASNS</i>	asparagine synthetase (glutamine-hydrolyzing)	ENSG00000070669	-1.018	1.70E-02
<i>ASPM</i>	abnormal spindle microtubule assembly	ENSG00000066279	-1.467	3.20E-04
<i>ASRGL1</i>	asparaginase and isoaspartyl peptidase 1	ENSG00000162174	-1.239	4.00E-02
<i>ATAD2</i>	ATPase family AAA domain containing 2	ENSG00000156802	-1.056	1.10E-02
<i>ATP23</i>	ATP23 metallopeptidase and ATP synthase assembly factor homolog	ENSG00000166896	-1.883	4.10E-02
<i>ATP2A1-AS1</i>	ATP2A1 antisense RNA 1	ENSG00000260442	-2.015	2.10E-02
<i>ATP8B4</i>	ATPase phospholipid transporting 8B4 (putative)	ENSG00000104043	3.330	4.80E-04
<i>AURKA</i>	aurora kinase A	ENSG00000087586	-1.284	2.20E-03
<i>AURKB</i>	aurora kinase B	ENSG00000178999	-1.592	2.50E-04
<i>AVPI1</i>	arginine vasopressin induced 1	ENSG00000119986	2.031	4.70E-06
<i>BAG1</i>	BCL2 associated athanogene 1	ENSG00000107262	0.851	3.50E-02
<i>BARD1</i>	BRCA1 associated RING domain 1	ENSG00000138376	-1.307	5.70E-03
<i>BCAR3</i>	BCAR3 adaptor protein, NSP family member	ENSG00000137936	-0.802	4.90E-02
<i>BCL2</i>	BCL2 apoptosis regulator	ENSG00000171791	-2.168	8.10E-04
<i>BCL2L11</i>	BCL2 like 11	ENSG00000153094	0.901	3.20E-02
<i>BCYRN1</i>	brain cytoplasmic RNA 1	ENSG00000236824	-1.329	2.60E-03
<i>BDNF</i>	brain derived neurotrophic factor	ENSG00000176697	1.342	1.10E-03
<i>BDNF-AS</i>	BDNF antisense RNA	ENSG00000245573	0.860	4.60E-02
<i>BEX2</i>	brain expressed X-linked 2	ENSG00000133134	2.280	2.20E-03
<i>BIRC5</i>	baculoviral IAP repeat containing 5	ENSG00000089685	-1.547	1.70E-04
<i>BLM</i>	BLM RecQ like helicase	ENSG00000197299	-1.457	4.50E-03
<i>BMP3</i>	bone morphogenetic protein 3	ENSG00000152785	2.564	1.90E-02

<i>BOLA3-AS1</i>	BOLA3 divergent transcript	ENSG00000225439	1.571	2.40E-02
<i>BRCA1</i>	BRCA1 DNA repair associated	ENSG00000012048	-1.447	8.10E-04
<i>BRIP1</i>	BRCA1 interacting protein C-terminal helicase 1	ENSG00000136492	-1.107	1.40E-02
<i>BUB1</i>	BUB1 mitotic checkpoint serine/threonine kinase	ENSG00000169679	-1.080	8.40E-03
<i>BUB1B</i>	BUB1 mitotic checkpoint serine/threonine kinase B	ENSG00000156970	-1.945	7.40E-06
<i>C10orf25</i>	chromosome 10 open reading frame 25	ENSG00000165511	3.407	3.00E-03
<i>C10orf55</i>	chromosome 10 open reading frame 55	ENSG00000222047	-1.059	8.60E-03
<i>C11orf71</i>	chromosome 11 open reading frame 71	ENSG00000180425	1.696	1.50E-02
<i>C11orf96</i>	chromosome 11 open reading frame 96	ENSG00000187479	3.029	1.30E-10
<i>C12orf60</i>	chromosome 12 open reading frame 60	ENSG00000182993	-0.789	5.00E-02
<i>C17orf107</i>	chromosome 17 open reading frame 107	ENSG00000205710	2.873	2.00E-02
<i>C17orf53</i>	chromosome 17 open reading frame 53	ENSG00000125319	-1.385	1.30E-02
<i>C1QL4</i>	complement C1q like 4	ENSG00000186897	-1.759	4.20E-02
<i>C1QTNF7</i>	C1q and TNF related 7	ENSG00000163145	1.151	2.00E-02
<i>C1RL</i>	complement C1r subcomponent like	ENSG00000139178	0.895	2.80E-02
<i>C2orf81</i>	chromosome 2 open reading frame 81	ENSG00000159239	1.136	2.20E-02
<i>C4orf46</i>	chromosome 4 open reading frame 46	ENSG00000205208	-1.282	4.70E-03
<i>C7orf57</i>	chromosome 7 open reading frame 57	ENSG00000164746	1.903	3.10E-02
<i>C9orf131</i>	chromosome 9 open reading frame 131	ENSG00000174038	2.737	3.30E-02
<i>CA9</i>	carbonic anhydrase 9	ENSG00000107159	2.079	1.40E-03
<i>CABLES1</i>	Cdk5 and Abl enzyme substrate 1	ENSG00000134508	1.071	1.30E-02
<i>CACNA2D2</i>	calcium voltage-gated channel auxiliary subunit alpha2delta 2	ENSG00000007402	3.576	4.70E-03
<i>CADM1</i>	cell adhesion molecule 1	ENSG00000182985	1.461	4.60E-04
<i>CALB2</i>	calbindin 2	ENSG00000172137	2.034	2.00E-06
<i>CARD10</i>	caspase recruitment domain family mem- ber 10	ENSG00000100065	-1.129	1.00E-02
<i>CARD11</i>	caspase recruitment domain family mem- ber 11	ENSG00000198286	-1.068	1.10E-02
<i>CARD16</i>	caspase recruitment domain family mem- ber 16	ENSG00000204397	0.808	4.80E-02
<i>CARNS1</i>	carnosine synthase 1	ENSG00000172508	3.087	1.30E-09
<i>CASC2</i>	cancer susceptibility 2	ENSG00000177640	1.211	4.30E-02
<i>CBR3-AS1</i>	CBR3 antisense RNA 1	ENSG00000236830	-0.925	4.40E-02
<i>CC2D2B</i>	coiled-coil and C2 domain containing 2B	ENSG00000188649	-2.008	2.80E-02
<i>CCBE1</i>	collagen and calcium binding EGF do- mains 1	ENSG00000183287	-1.130	3.30E-02
<i>CCDC114</i>	coiled-coil domain containing 114	ENSG00000105479	1.487	2.90E-02
<i>CCDC120</i>	coiled-coil domain containing 120	ENSG00000147144	1.081	2.70E-02
<i>CCDC138</i>	coiled-coil domain containing 138	ENSG00000163006	-1.519	5.70E-03
<i>CCDC34</i>	coiled-coil domain containing 34	ENSG00000109881	-0.910	4.10E-02
<i>CCDC85B</i>	coiled-coil domain containing 85B	ENSG00000175602	-0.808	4.10E-02
<i>CCN3</i>	cellular communication network factor 3	ENSG00000136999	1.415	1.00E-02
<i>CCNA2</i>	cyclin A2	ENSG00000145386	-0.939	2.10E-02
<i>CCNB1</i>	cyclin B1	ENSG00000134057	-1.599	1.00E-04
<i>CCNB2</i>	cyclin B2	ENSG00000157456	-1.478	5.80E-04
<i>CCNE1</i>	cyclin E1	ENSG00000105173	-1.010	3.10E-02
<i>CCNF</i>	cyclin F	ENSG00000162063	-1.106	8.30E-03
<i>CCP110</i>	centriolar coiled-coil protein 110	ENSG00000103540	-0.833	5.00E-02
<i>CD200</i>	CD200 molecule	ENSG00000091972	1.146	4.80E-03

<i>CD2BP2-DT</i>	CD2BP2 divergent transcript	ENSG00000260219	2.163	2.10E-02
<i>CD55</i>	CD55 molecule (Cromer blood group)	ENSG00000196352	1.707	2.20E-05
<i>CD74</i>	CD74 molecule	ENSG00000019582	1.101	5.90E-03
<i>CD9</i>	CD9 molecule	ENSG00000010278	-1.010	1.10E-02
<i>CDC20</i>	cell division cycle 20	ENSG00000117399	-1.696	4.10E-05
<i>CDC42EP2</i>	CDC42 effector protein 2	ENSG00000149798	-1.030	2.10E-02
<i>CDC45</i>	cell division cycle 45	ENSG00000093009	-2.088	1.10E-05
<i>CDC6</i>	cell division cycle 6	ENSG00000094804	-1.370	1.40E-03
<i>CDCA2</i>	cell division cycle associated 2	ENSG00000184661	-1.749	1.00E-04
<i>CDCA3</i>	cell division cycle associated 3	ENSG00000111665	-0.969	2.60E-02
<i>CDCA4</i>	cell division cycle associated 4	ENSG00000170779	-1.355	1.30E-03
<i>CDCA5</i>	cell division cycle associated 5	ENSG00000146670	-1.298	1.90E-03
<i>CDCA7</i>	cell division cycle associated 7	ENSG00000144354	-1.249	8.20E-03
<i>CDCA8</i>	cell division cycle associated 8	ENSG00000134690	-1.752	8.30E-05
<i>CDH11</i>	cadherin 11	ENSG00000140937	1.014	1.00E-02
<i>CDK1</i>	cyclin dependent kinase 1	ENSG00000170312	-1.310	1.50E-03
<i>CDKN2C</i>	cyclin dependent kinase inhibitor 2C	ENSG00000123080	-1.196	4.20E-03
<i>CDKN3</i>	cyclin dependent kinase inhibitor 3	ENSG00000100526	-1.518	6.60E-04
<i>CDT1</i>	chromatin licensing and DNA replication factor 1	ENSG00000167513	-1.011	2.10E-02
<i>CEBPD</i>	CCAAT enhancer binding protein delta	ENSG00000221869	1.583	1.20E-04
<i>CELF2</i>	CUGBP Elav-like family member 2	ENSG00000048740	1.075	3.00E-02
<i>CENPA</i>	centromere protein A	ENSG00000115163	-1.621	7.00E-04
<i>CENPE</i>	centromere protein E	ENSG00000138778	-1.470	5.20E-04
<i>CENPF</i>	centromere protein F	ENSG00000117724	-1.674	3.90E-05
<i>CENPH</i>	centromere protein H	ENSG00000153044	-0.982	3.70E-02
<i>CENPI</i>	centromere protein I	ENSG00000102384	-1.772	2.80E-04
<i>CENPJ</i>	centromere protein J	ENSG00000151849	-1.096	1.70E-02
<i>CENPK</i>	centromere protein K	ENSG00000123219	-1.651	4.40E-04
<i>CENPL</i>	centromere protein L	ENSG00000120334	-1.124	1.50E-02
<i>CENPM</i>	centromere protein M	ENSG00000100162	-1.123	2.10E-02
<i>CENPU</i>	centromere protein U	ENSG00000151725	-1.425	1.00E-03
<i>CENPW</i>	centromere protein W	ENSG00000203760	-1.934	6.90E-05
<i>CENPX</i>	centromere protein X	ENSG00000169689	-1.203	4.30E-03
<i>CEP128</i>	centrosomal protein 128	ENSG00000100629	-1.610	2.90E-03
<i>CEP152</i>	centrosomal protein 152	ENSG00000103995	-1.087	2.70E-02
<i>CEP55</i>	centrosomal protein 55	ENSG00000138180	-1.735	5.10E-05
<i>CEP78</i>	centrosomal protein 78	ENSG00000148019	-0.946	2.50E-02
<i>CEP83</i>	centrosomal protein 83	ENSG00000173588	-1.264	2.10E-02
<i>CEP85</i>	centrosomal protein 85	ENSG00000130695	-0.867	4.50E-02
<i>CFH</i>	complement factor H	ENSG00000000971	1.328	1.10E-03
<i>CHAC1</i>	ChaC glutathione specific gamma-glutamylcyclotransferase 1	ENSG00000128965	-1.644	6.00E-04
<i>CHAF1A</i>	chromatin assembly factor 1 subunit A	ENSG00000167670	-0.982	1.70E-02
<i>CHGB</i>	chromogranin B	ENSG00000089199	1.673	6.10E-03
<i>CHL1</i>	cell adhesion molecule L1 like	ENSG00000134121	1.896	7.20E-06
<i>CHL1-AS1</i>	CHL1 antisense RNA 1	ENSG00000234661	1.425	1.60E-02
<i>CHL1-AS2</i>	CHL1 antisense RNA 2	ENSG00000224318	1.971	2.00E-03
<i>CHMP1B</i>	charged multivesicular body protein 1B	ENSG00000255112	0.814	4.40E-02
<i>CHRM2</i>	cholinergic receptor muscarinic 2	ENSG00000181072	1.761	4.20E-03
<i>CHST1</i>	carbohydrate sulfotransferase 1	ENSG00000175264	-1.611	4.10E-04
<i>CHTF18</i>	chromosome transmission fidelity factor 18	ENSG00000127586	-0.904	2.70E-02

<i>CIB2</i>	calcium and integrin binding family member 2	ENSG00000136425	-1.902	1.20E-03
<i>CIP2A</i>	cell proliferation regulating inhibitor of protein phosphatase 2A	ENSG00000163507	-1.388	1.60E-03
<i>CIT</i>	citron rho-interacting serine/threonine kinase	ENSG00000122966	-1.538	2.80E-04
<i>CKAP2</i>	cytoskeleton associated protein 2	ENSG00000136108	-1.009	1.40E-02
<i>CKAP2L</i>	cytoskeleton associated protein 2 like	ENSG00000169607	-1.766	4.80E-05
<i>CKS1B</i>	CDC28 protein kinase regulatory subunit 1B	ENSG00000173207	-1.290	2.00E-03
<i>CKS2</i>	CDC28 protein kinase regulatory subunit 2	ENSG00000123975	-1.418	6.60E-04
<i>CLSPN</i>	claspin	ENSG00000092853	-1.244	4.30E-03
<i>CMSS1</i>	cms1 ribosomal small subunit homolog	ENSG00000184220	-0.920	3.60E-02
<i>CNBD2</i>	cyclic nucleotide binding domain containing 2	ENSG00000149646	-1.383	4.90E-02
<i>CNIH3-AS2</i>	CNIH3 antisense RNA 2	ENSG00000233384	-1.453	1.50E-02
<i>CNTN5</i>	contactin 5	ENSG00000149972	1.104	1.70E-02
<i>CNTRL</i>	centriolin	ENSG00000119397	-1.019	2.30E-02
<i>COL13A1</i>	collagen type XIII alpha 1 chain	ENSG00000197467	-1.838	6.10E-04
<i>COL4A5</i>	collagen type IV alpha 5 chain	ENSG00000188153	0.971	1.60E-02
<i>COL4A6</i>	collagen type IV alpha 6 chain	ENSG00000197565	1.181	4.70E-03
<i>COL6A3</i>	collagen type VI alpha 3 chain	ENSG00000163359	-1.444	6.60E-04
<i>COL8A2</i>	collagen type VIII alpha 2 chain	ENSG00000171812	-1.851	3.10E-02
<i>CORO2B</i>	coronin 2B	ENSG00000103647	-1.438	1.40E-03
<i>CPE</i>	carboxypeptidase E	ENSG00000109472	0.941	1.70E-02
<i>CPEB4</i>	cytoplasmic polyadenylation element binding protein 4	ENSG00000113742	1.651	6.30E-05
<i>CRACR2B</i>	calcium release activated channel regulator 2B	ENSG00000177685	2.004	4.20E-02
<i>CREG1</i>	cellular repressor of E1A stimulated genes 1	ENSG00000143162	0.992	1.60E-02
<i>CRISPLD2</i>	cysteine rich secretory protein LCCL domain containing 2	ENSG00000103196	1.096	2.20E-02
<i>CRYBB2P1</i>	crystallin beta B2 pseudogene 1	ENSG00000100058	-1.109	3.60E-02
<i>CSGALNACT1</i>	chondroitin sulfate N-acetylgalactosaminyltransferase 1	ENSG00000147408	2.703	3.30E-08
<i>CSPG4</i>	chondroitin sulfate proteoglycan 4	ENSG00000173546	-1.327	4.40E-03
<i>CSRP2</i>	cysteine and glycine rich protein 2	ENSG00000175183	-1.099	1.60E-02
<i>CTA_243E71</i>		ENSG00000279110	-1.759	4.20E-02
<i>CTB_193M125</i>		ENSG00000280206	-1.322	1.20E-02
<i>CTB_58E171</i>		ENSG00000277969	1.716	1.80E-02
<i>CTC_453G235</i>		ENSG00000269534	-1.367	8.10E-03
<i>CTC_463A161</i>		ENSG00000280047	2.997	2.00E-02
<i>CTD-2201I18.1</i>	uncharacterized LOC101929215	ENSG00000249825	6.130	6.90E-03
<i>CTD_2006M222</i>		ENSG00000278934	1.834	4.20E-02
<i>CTD_2017F171</i>		ENSG00000275332	2.478	2.80E-02
<i>CTD_2105E1314</i>		ENSG00000268729	2.264	6.20E-03
<i>CTD_2196E143</i>		ENSG00000261723	-1.721	3.10E-02
<i>CTD_2196E145</i>		ENSG00000261266	-1.808	1.50E-04
<i>CTD_2228K21</i>		ENSG00000250645	-2.145	3.90E-02
<i>CTD_2311M213</i>		ENSG00000261821	2.101	4.30E-06
<i>CTD_2510F54</i>		ENSG00000265415	-1.248	2.40E-02

<i>CTD_2544N143</i>		ENSG00000253645	1.685	2.50E-04
<i>CTD_3203P23</i>		ENSG00000274092	1.201	2.50E-02
<i>CTNNA2</i>	catenin alpha 2	ENSG00000066032	2.362	1.20E-03
<i>CTSW</i>	cathepsin W	ENSG00000172543	-1.916	3.00E-02
<i>CYP11A1</i>	cytochrome P450 family 11 subfamily A member 1	ENSG00000140459	2.252	8.50E-08
<i>CYP19A1</i>	cytochrome P450 family 19 subfamily A member 1	ENSG00000137869	3.196	3.50E-13
<i>DACT1</i>	dishevelled binding antagonist of beta catenin 1	ENSG00000165617	0.804	4.50E-02
<i>DAW1</i>	dynein assembly factor with WD repeats 1	ENSG00000123977	4.260	1.30E-04
<i>DBF4</i>	DBF4 zinc finger	ENSG00000006634	-1.245	1.30E-02
<i>DBF4B</i>	DBF4 zinc finger B	ENSG00000161692	-1.085	2.10E-02
<i>DCLK1</i>	doublecortin like kinase 1	ENSG00000133083	1.036	3.00E-02
<i>DCLRE1B</i>	DNA cross-link repair 1B	ENSG00000118655	-0.984	3.10E-02
<i>DCN</i>	decorin	ENSG00000011465	2.797	9.00E-03
<i>DDIAS</i>	DNA damage induced apoptosis suppressor	ENSG00000165490	-1.373	5.70E-03
<i>DDX11</i>	DEAD/H-box helicase 11	ENSG00000013573	-1.158	6.80E-03
<i>DEK</i>	DEK proto-oncogene	ENSG00000124795	-0.807	4.20E-02
<i>DENND5B</i>	DENN domain containing 5B	ENSG00000170456	1.058	1.20E-02
<i>DEPDC1</i>	DEP domain containing 1	ENSG00000024526	-1.012	1.60E-02
<i>DEPDC1B</i>	DEP domain containing 1B	ENSG00000035499	-1.627	1.30E-03
<i>DEPTOR</i>	DEP domain containing MTOR interacting protein	ENSG00000155792	1.345	2.00E-03
<i>DHCR24</i>	24-dehydrocholesterol reductase	ENSG00000116133	0.957	1.50E-02
<i>DIAPH3</i>	diaphanous related formin 3	ENSG00000139734	-1.107	7.90E-03
<i>DIAPH3-AS1</i>	DIAPH3 antisense RNA 1	ENSG00000227528	-1.835	9.40E-03
<i>DIO2</i>	iodothyronine deiodinase 2	ENSG00000211448	2.308	2.70E-06
<i>DKFZP434P228</i>		ENSG00000279232	-0.905	3.00E-02
<i>DLGAP1</i>	DLG associated protein 1	ENSG00000170579	0.892	5.00E-02
<i>DLGAP1-AS4</i>	DLGAP1 antisense RNA 4	ENSG00000263878	6.969	1.70E-04
<i>DLGAP5</i>	DLG associated protein 5	ENSG00000126787	-1.608	1.50E-04
<i>DLSTP1</i>	dihydrolipoamide S-succinyltransferase pseudogene 1	ENSG00000181227	6.390	2.30E-03
<i>DMBT1</i>	deleted in malignant brain tumors 1	ENSG00000187908	2.327	1.20E-05
<i>DNA2</i>	DNA replication helicase/nuclease 2	ENSG00000138346	-1.082	2.30E-02
<i>DNAJC9</i>	DnaJ heat shock protein family (Hsp40) member C9	ENSG00000213551	-1.029	1.20E-02
<i>DNER</i>	delta/notch like EGF repeat containing	ENSG00000187957	3.217	7.80E-03
<i>DNMT3B</i>	DNA methyltransferase 3 beta	ENSG00000088305	-1.235	8.00E-03
<i>DOK3</i>	docking protein 3	ENSG00000146094	-1.424	9.60E-03
<i>DPF1</i>	double PHD fingers 1	ENSG00000011332	-1.428	8.60E-03
<i>DPY19L3</i>	dpy-19 like C-mannosyltransferase 3	ENSG00000178904	0.831	4.70E-02
<i>DRAXIN</i>	dorsal inhibitory axon guidance protein	ENSG00000162490	-2.905	1.40E-03
<i>DSN1</i>	DSN1 component of MIS12 kinetochore complex	ENSG00000149636	-1.244	4.70E-03
<i>DTL</i>	denticleless E3 ubiquitin protein ligase homolog	ENSG00000143476	-1.209	4.60E-03
<i>DTWD1</i>	DTW domain containing 1	ENSG00000104047	1.145	5.20E-03
<i>DTYMK</i>	deoxythymidylate kinase	ENSG00000168393	-1.142	5.30E-03
<i>DUSP1</i>	dual specificity phosphatase 1	ENSG00000120129	1.230	2.10E-03
<i>DUSP5</i>	dual specificity phosphatase 5	ENSG00000138166	-1.716	4.80E-04

<i>DUSP8P5</i>	dual specificity phosphatase 8 pseudo-gene 5	ENSG00000235316	1.377	3.60E-02
<i>E2F1</i>	E2F transcription factor 1	ENSG00000101412	-0.878	3.40E-02
<i>E2F7</i>	E2F transcription factor 7	ENSG00000165891	-0.920	2.10E-02
<i>E2F8</i>	E2F transcription factor 8	ENSG00000129173	-1.229	2.50E-02
<i>ECT2</i>	epithelial cell transforming 2	ENSG00000114346	-0.849	3.60E-02
<i>EDN1</i>	endothelin 1	ENSG00000078401	1.834	9.00E-04
<i>EEF1G</i>	eukaryotic translation elongation factor 1 gamma	ENSG00000254772	-2.145	3.90E-02
<i>EFCAB14-AS1</i>	EFCAB14 antisense RNA 1	ENSG00000228237	1.206	3.50E-02
<i>EFCAB2</i>	EF-hand calcium binding domain 2	ENSG00000203666	1.070	3.90E-02
<i>EFEMP1</i>	EGF containing fibulin extracellular matrix protein 1	ENSG00000115380	1.128	4.30E-03
<i>EFHD2</i>	EF-hand domain family member D2	ENSG00000142634	-0.984	1.50E-02
<i>EGFL8</i>	EGF like domain multiple 8	ENSG00000241404	1.719	3.10E-02
<i>EGR2</i>	early growth response 2	ENSG00000122877	-1.225	4.10E-02
<i>EGR3</i>	early growth response 3	ENSG00000179388	-1.059	1.20E-02
<i>EMC3-AS1</i>	EMC3 antisense RNA 1	ENSG00000180385	-1.229	2.50E-02
<i>EMP2</i>	epithelial membrane protein 2	ENSG00000213853	-0.866	4.40E-02
<i>ENOSF1</i>	enolase superfamily member 1	ENSG00000132199	-0.987	1.60E-02
<i>EPHA5</i>	EPH receptor A5	ENSG00000145242	1.505	1.20E-03
<i>EPHA5-AS1</i>	EPHA5 antisense RNA 1	ENSG00000250846	1.337	4.40E-02
<i>EPHB2</i>	EPH receptor B2	ENSG00000133216	-0.867	3.00E-02
<i>EPPK1</i>	epiplakin 1	ENSG00000261150	6.266	3.90E-03
<i>ERCC6L</i>	ERCC excision repair 6 like, spindle assembly checkpoint helicase	ENSG00000186871	-1.326	7.70E-03
<i>ERFE</i>	erythroferrone	ENSG00000178752	-1.851	3.10E-02
<i>ERI1</i>	exoribonuclease 1	ENSG00000104626	-1.114	1.30E-02
<i>ERICH3</i>	glutamate rich 3	ENSG00000178965	-4.084	1.20E-03
<i>ERN2</i>	endoplasmic reticulum to nucleus signaling 2	ENSG00000134398	-2.008	2.80E-02
<i>ESCO2</i>	establishment of sister chromatid cohesion N-acetyltransferase 2	ENSG00000171320	-2.029	3.20E-05
<i>ESPL1</i>	extra spindle pole bodies like 1, separase	ENSG00000135476	-1.550	3.00E-04
<i>ETS1</i>	ETS proto-oncogene 1, transcription factor	ENSG00000134954	-0.952	2.10E-02
<i>EXO1</i>	exonuclease 1	ENSG00000174371	-1.480	1.00E-03
<i>EXOSC8</i>	exosome component 8	ENSG00000120699	-0.870	4.40E-02
<i>EZH2</i>	enhancer of zeste 2 polycomb repressive complex 2 subunit	ENSG00000106462	-0.959	2.40E-02
<i>FA2H</i>	fatty acid 2-hydroxylase	ENSG00000103089	2.037	3.30E-03
<i>FAHD2CP</i>	fumarylacetoacetate hydrolase domain containing 2C, pseudogene	ENSG00000231584	-1.186	2.30E-02
<i>FAIM2</i>	Fas apoptotic inhibitory molecule 2	ENSG00000135472	6.266	3.90E-03
<i>FAM110A</i>	family with sequence similarity 110 member A	ENSG00000125898	-1.259	6.50E-03
<i>FAM166A</i>	family with sequence similarity 166 member A	ENSG00000188163	-1.066	1.40E-02
<i>FAM72C/FAM72D</i>	family with sequence similarity 72 member D	ENSG00000263513	-3.603	1.30E-02
<i>FAM83D</i>	family with sequence similarity 83 member D	ENSG00000101447	-1.830	2.20E-05
<i>FANCA</i>	FA complementation group A	ENSG00000187741	-0.939	2.30E-02
<i>FANCD2</i>	FA complementation group D2	ENSG00000144554	-1.145	8.80E-03

<i>FANCG</i>	FA complementation group G	ENSG00000221829	-0.888	3.60E-02
<i>FANCI</i>	FA complementation group I	ENSG00000140525	-0.991	1.50E-02
<i>FANCM</i>	FA complementation group M	ENSG00000187790	-1.141	2.80E-02
<i>FAT1</i>	FAT atypical cadherin 1	ENSG00000083857	1.250	1.60E-03
<i>FBXO5</i>	F-box protein 5	ENSG00000112029	-1.449	1.30E-03
<i>FCMR</i>	Fc fragment of IgM receptor	ENSG00000162894	2.477	5.10E-04
<i>FEN1</i>	flap structure-specific endonuclease 1	ENSG00000168496	-1.169	4.40E-03
<i>FEZF1</i>	FEZ family zinc finger 1	ENSG00000128610	1.258	4.60E-02
<i>FEZF1-AS1</i>	FEZF1 antisense RNA 1	ENSG00000230316	2.038	7.80E-04
<i>FGF1</i>	fibroblast growth factor 1	ENSG00000113578	-1.644	6.10E-03
<i>FGF5</i>	fibroblast growth factor 5	ENSG00000138675	-2.196	1.20E-03
<i>FGF7</i>	fibroblast growth factor 7	ENSG00000140285	2.945	3.80E-05
<i>FHDC1</i>	FH2 domain containing 1	ENSG00000137460	2.564	1.90E-02
<i>FLNC</i>	filamin C	ENSG00000128591	-0.921	2.00E-02
<i>FLRT3</i>	fibronectin leucine rich transmembrane protein 3	ENSG00000125848	2.000	1.60E-03
<i>FNDC1</i>	fibronectin type III domain containing 1	ENSG00000164694	-1.509	2.40E-02
<i>FOSL1</i>	FOS like 1, AP-1 transcription factor sub-unit	ENSG00000175592	-1.004	1.10E-02
<i>FOXF2</i>	forkhead box F2	ENSG00000137273	1.554	9.80E-04
<i>FOXG1</i>	forkhead box G1	ENSG00000176165	-0.834	4.50E-02
<i>FOXM1</i>	forkhead box M1	ENSG00000111206	-1.262	1.90E-03
<i>FOXO1</i>	forkhead box O1	ENSG00000150907	1.412	1.60E-03
<i>FOXS1</i>	forkhead box S1	ENSG00000179772	-1.981	1.70E-04
<i>FSHR</i>	follicle stimulating hormone receptor	ENSG00000170820	3.080	1.90E-04
<i>FUT10</i>	fucosyltransferase 10	ENSG00000172728	0.935	4.60E-02
<i>GAB2</i>	GRB2 associated binding protein 2	ENSG00000033327	0.925	2.20E-02
<i>GADD45A</i>	growth arrest and DNA damage inducible alpha	ENSG00000116717	-0.783	5.00E-02
<i>GALNT1</i>	polypeptide N-acetylgalactosaminyltransferase 1	ENSG00000141429	1.488	1.90E-04
<i>GALNT15</i>	polypeptide N-acetylgalactosaminyltransferase 15	ENSG00000131386	6.887	2.80E-04
<i>GAREM1</i>	GRB2 associated regulator of MAPK1 subtype 1	ENSG00000141441	0.930	3.10E-02
<i>GAS1</i>	growth arrest specific 1	ENSG00000180447	1.969	7.80E-05
<i>GAS2L3</i>	growth arrest specific 2 like 3	ENSG00000139354	-1.336	5.80E-03
<i>GATA5</i>	GATA binding protein 5	ENSG00000130700	1.186	8.80E-03
<i>GATA6-AS1</i>	GATA6 antisense RNA 1 (head to head)	ENSG00000266010	1.174	3.40E-02
<i>GBP4</i>	guanylate binding protein 4	ENSG00000162654	0.855	3.20E-02
<i>GEM</i>	GTP binding protein overexpressed in skeletal muscle	ENSG00000164949	-1.556	3.50E-04
<i>GFPT2</i>	glutamine-fructose-6-phosphate transaminase 2	ENSG00000131459	-1.328	2.00E-03
<i>GIN1</i>	GIN5 complex subunit 1	ENSG00000101003	-1.076	1.60E-02
<i>GIN2</i>	GIN5 complex subunit 2	ENSG00000131153	-0.930	4.10E-02
<i>GIN4</i>	GIN5 complex subunit 4	ENSG00000147536	-1.820	5.90E-05
<i>GLP2R</i>	glucagon like peptide 2 receptor	ENSG00000065325	2.997	2.00E-02
<i>GLRX</i>	glutaredoxin	ENSG00000173221	0.842	3.70E-02
<i>GMNN</i>	geminin DNA replication inhibitor	ENSG00000112312	-1.018	1.80E-02
<i>GNAI1</i>	G protein subunit alpha i1	ENSG00000127955	1.315	1.50E-03
<i>GNB3</i>	G protein subunit beta 3	ENSG00000111664	-1.691	1.70E-02
<i>GNPTAB</i>	N-acetylglucosamine-1-phosphate trans-	ENSG00000111670	1.212	2.50E-03

	ferase subunits alpha and beta			
<i>GOLGA8J</i> (includes others)	golgin A8 family member K	ENSG00000232653	2.385	4.10E-02
<i>GON7</i>	GON7 subunit of KEOPS complex	ENSG00000170270	-1.395	1.10E-02
<i>GPC4</i>	glypican 4	ENSG00000076716	1.168	4.10E-03
<i>GPC6</i>	glypican 6	ENSG00000183098	1.002	1.20E-02
<i>GPR135</i>	G protein-coupled receptor 135	ENSG00000181619	1.140	3.20E-02
<i>GPR68</i>	G protein-coupled receptor 68	ENSG00000119714	-1.447	4.10E-02
<i>GPR85</i>	G protein-coupled receptor 85	ENSG00000164604	1.193	3.20E-02
<i>GPRASP1</i>	G protein-coupled receptor associated sorting protein 1	ENSG00000198932	1.526	3.00E-02
<i>GPRC5A</i>	G protein-coupled receptor class C group 5 member A	ENSG00000013588	1.518	4.40E-04
<i>GPRIN1</i>	G protein regulated inducer of neurite outgrowth 1	ENSG00000169258	-0.953	4.80E-02
<i>GRAMD1B</i>	GRAM domain containing 1B	ENSG00000023171	1.670	7.90E-04
<i>GREM1</i>	gremlin 1, DAN family BMP antagonist	ENSG00000166923	1.625	4.10E-03
<i>GRIA4</i>	glutamate ionotropic receptor AMPA type subunit 4	ENSG00000152578	2.660	1.10E-04
<i>GRK3</i>	G protein-coupled receptor kinase 3	ENSG00000100077	-1.449	3.90E-02
<i>GTSE1</i>	G2 and S-phase expressed 1	ENSG00000075218	-1.850	2.20E-05
<i>H2AC11</i>	H2A clustered histone 11	ENSG00000196787	-2.122	1.90E-02
<i>H2AX</i>	H2A.X variant histone	ENSG00000188486	-1.106	5.40E-03
<i>H2AZ1</i>	H2A.Z variant histone 1	ENSG00000164032	-1.111	5.20E-03
<i>H2AZ1-DT</i>	H2AZ1 divergent transcript	ENSG00000245322	-1.293	1.40E-03
<i>H3C6</i>	H3 clustered histone 6	ENSG00000274750	1.300	1.80E-02
<i>HASPIN</i>	histone H3 associated protein kinase	ENSG00000177602	-1.056	3.60E-02
<i>HAUS8</i>	HAUS augmin like complex subunit 8	ENSG00000131351	-1.291	5.80E-03
<i>HEG1</i>	heart development protein with EGF like domains 1	ENSG00000173706	1.556	9.70E-05
<i>HES1</i>	hes family bHLH transcription factor 1	ENSG00000114315	-1.392	2.30E-03
<i>HEY1</i>	hes related family bHLH transcription factor with YRPW motif 1	ENSG00000164683	-1.509	2.40E-02
<i>HHAT</i>	hedgehog acyltransferase	ENSG00000054392	1.092	2.60E-02
<i>HIP1</i>	huntingtin interacting protein 1	ENSG00000127946	-0.831	4.00E-02
<i>HJURP</i>	Holliday junction recognition protein	ENSG00000123485	-1.722	5.90E-05
<i>HLA-DMA</i>	major histocompatibility complex, class II, DM alpha	ENSG00000204257	1.217	2.20E-02
<i>HLA-DMB</i>	major histocompatibility complex, class II, DM beta	ENSG00000242574	2.299	6.00E-04
<i>HLA-DOA</i>	major histocompatibility complex, class II, DO alpha	ENSG00000204252	2.737	3.30E-02
<i>HLA-DPA1</i>	major histocompatibility complex, class II, DP alpha 1	ENSG00000231389	2.612	2.70E-03
<i>HLA-DRA</i>	major histocompatibility complex, class II, DR alpha	ENSG00000204287	1.890	4.20E-05
<i>HLA-DRB1</i>	major histocompatibility complex, class II, DR beta 1	ENSG00000196126	1.294	2.40E-02
<i>HMGA1</i>	high mobility group AT-hook 1	ENSG00000137309	-1.301	1.00E-03
<i>HMGA2</i>	high mobility group AT-hook 2	ENSG00000149948	-0.870	3.40E-02
<i>HMGB1</i>	high mobility group box 1	ENSG00000189403	-0.779	4.80E-02
<i>HMGB2</i>	high mobility group box 2	ENSG00000164104	-1.582	1.00E-04
<i>HMGN2P3</i>	high mobility group nucleosomal binding	ENSG00000230330	-1.759	4.20E-02



	domain 2 pseudogene 3			
<i>HMGN2P5</i>	high mobility group nucleosomal binding domain 2 pseudogene 5	ENSG00000234664	-1.633	1.40E-02
<i>HMMR</i>	hyaluronan mediated motility receptor	ENSG00000072571	-1.621	1.90E-04
<i>HMMR-AS1</i>	HMMR antisense RNA 1	ENSG00000251018	-1.641	5.00E-03
<i>HSD17B6</i>	hydroxysteroid 17-beta dehydrogenase 6	ENSG00000025423	-1.383	4.90E-02
<i>HTRA3</i>	HtrA serine peptidase 3	ENSG00000170801	2.910	5.00E-04
<i>ID2</i>	inhibitor of DNA binding 2	ENSG00000115738	1.227	3.30E-03
<i>IGF1R</i>	insulin like growth factor 1 receptor	ENSG00000140443	0.860	3.00E-02
<i>IGF2BP3</i>	insulin like growth factor 2 mRNA binding protein 3	ENSG00000136231	-0.886	3.20E-02
<i>IGFBP3</i>	insulin like growth factor binding protein 3	ENSG00000146674	0.955	1.80E-02
<i>IGFBP4</i>	insulin like growth factor binding protein 4	ENSG00000141753	1.565	1.70E-04
<i>IGFBP5</i>	insulin like growth factor binding protein 5	ENSG00000115461	1.103	5.10E-03
<i>IGSF10</i>	immunoglobulin superfamily member 10	ENSG00000152580	1.425	1.60E-02
<i>IL11</i>	interleukin 11	ENSG00000095752	2.098	4.50E-07
<i>IL16</i>	interleukin 16	ENSG00000172349	1.569	2.90E-03
<i>IL34</i>	interleukin 34	ENSG00000157368	-1.159	1.50E-02
<i>IL4R</i>	interleukin 4 receptor	ENSG00000077238	1.279	1.70E-03
<i>INCENP</i>	inner centromere protein	ENSG00000149503	-1.133	5.60E-03
<i>INHA</i>	inhibin subunit alpha	ENSG00000123999	2.440	6.80E-04
<i>INHBA</i>	inhibin subunit beta A	ENSG00000122641	1.257	4.70E-03
<i>IQGAP3</i>	IQ motif containing GTPase activating protein 3	ENSG00000183856	-1.715	4.60E-05
<i>IRF1</i>	interferon regulatory factor 1	ENSG00000125347	-0.819	4.30E-02
<i>IRF8</i>	interferon regulatory factor 8	ENSG00000140968	-1.264	1.50E-02
<i>ISLR</i>	immunoglobulin superfamily containing leucine rich repeat	ENSG00000129009	-1.902	7.00E-03
<i>ISLR2</i>	immunoglobulin superfamily containing leucine rich repeat 2	ENSG00000167178	-4.084	1.20E-03
<i>ITGA1</i>	integrin subunit alpha 1	ENSG00000213949	0.937	1.70E-02
<i>ITGB1-DT</i>	ITGB1 divergent transcript	ENSG00000229656	-2.520	7.10E-03
<i>ITPKA</i>	inositol-trisphosphate 3-kinase A	ENSG00000137825	-1.359	1.30E-02
<i>ITPR3</i>	inositol 1,4,5-trisphosphate receptor type 3	ENSG00000096433	-1.361	8.10E-04
<i>JCAD</i>	junctional cadherin 5 associated	ENSG00000165757	0.872	2.80E-02
<i>JMJD1C-AS1</i>	JMJD1C antisense RNA 1	ENSG00000272767	-1.301	3.60E-02
<i>JUN</i>	Jun proto-oncogene, AP-1 transcription factor subunit	ENSG00000177606	-0.939	1.80E-02
<i>KANK3</i>	KN motif and ankyrin repeat domains 3	ENSG00000186994	-2.015	2.10E-02
<i>KATNA1</i>	katanin catalytic subunit A1	ENSG00000186625	-0.932	3.80E-02
<i>KB_1471A81</i>		ENSG00000245330	1.455	2.30E-02
<i>KCNB1</i>	potassium voltage-gated channel subfamily B member 1	ENSG00000158445	3.111	1.30E-02
<i>KCND2</i>	potassium voltage-gated channel subfamily D member 2	ENSG00000184408	1.037	3.20E-02
<i>KCNK12</i>	potassium two pore domain channel subfamily K member 12	ENSG00000184261	-0.862	4.30E-02
<i>KCNK3</i>	potassium two pore domain channel subfamily K member 3	ENSG00000171303	-1.072	1.70E-02
<i>KCNN4</i>	potassium calcium-activated channel sub-	ENSG00000104783	-1.276	2.00E-03

	family N member 4			
<i>KCNT2</i>	potassium sodium-activated channel sub-family T member 2	ENSG00000162687	1.157	2.40E-02
<i>KCTD16</i>	potassium channel tetramerization domain containing 16	ENSG00000183775	1.842	3.50E-04
<i>KIAA1958</i>	KIAA1958	ENSG00000165185	0.922	3.60E-02
<i>KIF11</i>	kinesin family member 11	ENSG00000138160	-1.291	1.70E-03
<i>KIF14</i>	kinesin family member 14	ENSG00000118193	-1.689	7.30E-05
<i>KIF15</i>	kinesin family member 15	ENSG00000163808	-1.709	2.50E-04
<i>KIF18B</i>	kinesin family member 18B	ENSG00000186185	-1.660	1.00E-04
<i>KIF20A</i>	kinesin family member 20A	ENSG00000112984	-1.424	5.80E-04
<i>KIF20B</i>	kinesin family member 20B	ENSG00000138182	-1.367	1.10E-03
<i>KIF22</i>	kinesin family member 22	ENSG00000079616	-1.189	3.80E-03
<i>KIF23</i>	kinesin family member 23	ENSG00000137807	-1.407	7.10E-04
<i>KIF24</i>	kinesin family member 24	ENSG00000186638	-1.254	8.20E-03
<i>KIF26A</i>	kinesin family member 26A	ENSG00000066735	4.297	5.00E-17
<i>KIF26B</i>	kinesin family member 26B	ENSG00000162849	-1.771	5.80E-03
<i>KIF2C</i>	kinesin family member 2C	ENSG00000142945	-1.643	1.00E-04
<i>KIF4A</i>	kinesin family member 4A	ENSG00000090889	-1.590	2.00E-04
<i>KIFC1</i>	kinesin family member C1	ENSG00000237649	-1.796	1.80E-05
<i>KLF10</i>	Kruppel like factor 10	ENSG00000155090	-1.297	2.20E-03
<i>KLF9</i>	Kruppel like factor 9	ENSG00000119138	2.213	1.40E-05
<i>KNL1</i>	kinetochore scaffold 1	ENSG00000137812	-1.562	2.80E-04
<i>KNSTRN</i>	kinetochore localized astrin (SPAG5) binding protein	ENSG00000128944	-1.317	2.80E-03
<i>KNTC1</i>	kinetochore associated 1	ENSG00000184445	-0.848	4.60E-02
<i>KPNA2</i>	karyopherin subunit alpha 2	ENSG00000182481	-1.143	4.30E-03
<i>KRT15</i>	keratin 15	ENSG00000171346	-1.480	4.10E-03
<i>KSR1</i>	kinase suppressor of ras 1	ENSG00000141068	1.760	1.60E-05
<i>LBH</i>	LBH regulator of WNT signaling pathway	ENSG00000213626	0.872	3.30E-02
<i>LCP1</i>	lymphocyte cytosolic protein 1	ENSG00000136167	-1.448	4.00E-02
<i>LDHD</i>	lactate dehydrogenase D	ENSG00000166816	3.111	1.30E-02
<i>LEF1</i>	lymphoid enhancer binding factor 1	ENSG00000138795	-1.902	7.00E-03
<i>LFNG</i>	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase	ENSG00000106003	-1.126	8.90E-03
<i>LHX1-DT</i>	LHX1 divergent transcript	ENSG00000277268	-3.073	1.90E-03
<i>LHX9</i>	LIM homeobox 9	ENSG00000143355	1.287	5.50E-03
<i>LIMCH1</i>	LIM and calponin homology domains 1	ENSG00000064042	1.808	8.30E-06
<i>LIME1</i>	Lck interacting transmembrane adaptor 1	ENSG00000203896	1.416	2.20E-02
<i>LIN9</i>	lin-9 DREAM MuvB core complex component	ENSG00000183814	-1.300	1.30E-02
<i>LINC-PINT</i>	long intergenic non-protein coding RNA, p53 induced transcript	ENSG00000231721	1.432	4.10E-03
<i>LINC00106</i>	long intergenic non-protein coding RNA 106	ENSG00000236871	1.212	2.70E-02
<i>LINC00472</i>	long intergenic non-protein coding RNA 472	ENSG00000233237	1.970	2.20E-02
<i>LINC00511</i>	long intergenic non-protein coding RNA 511	ENSG00000227036	-1.518	3.10E-02
<i>LINC00624</i>	long intergenic non-protein coding RNA 624	ENSG00000278811	-1.704	7.70E-03
<i>LINC00685</i>	long intergenic non-protein coding RNA 685	ENSG00000226179	3.111	1.30E-02

<i>LINC00894</i>	long intergenic non-protein coding RNA 894	ENSG00000235703	2.755	2.80E-04
<i>LINC01004</i>	long intergenic non-protein coding RNA 1004	ENSG00000228393	2.737	3.30E-02
<i>LINC01117</i>	long intergenic non-protein coding RNA 1117	ENSG00000224577	-1.765	1.30E-02
<i>LINC01358</i>	long intergenic non-protein coding RNA 1358	ENSG00000237352	-2.145	3.90E-02
<i>LINC01485</i>	long intergenic non-protein coding RNA 1485	ENSG00000254211	1.970	2.20E-02
<i>LINC01605</i>	long intergenic non-protein coding RNA 1605	ENSG00000253161	-2.324	1.50E-06
<i>LINC02615</i>	long intergenic non-protein coding RNA 2615	ENSG00000251432	3.315	4.80E-03
<i>LLGL2</i>	LLGL scribble cell polarity complex component 2	ENSG00000073350	1.075	3.00E-02
<i>LMCD1</i>	LIM and cysteine rich domains 1	ENSG00000071282	-1.031	4.50E-02
<i>LMNA</i>	lamin A/C	ENSG00000160789	-0.797	4.20E-02
<i>LMNB1</i>	lamin B1	ENSG00000113368	-1.625	7.80E-05
<i>LMNB2</i>	lamin B2	ENSG00000176619	-1.477	2.30E-04
<i>LMO2</i>	LIM domain only 2	ENSG00000135363	-2.698	1.30E-02
<i>LMO4</i>	LIM domain only 4	ENSG00000143013	0.939	1.80E-02
<i>LOC100288637</i>	OTU deubiquitinase 7A pseudogene	ENSG00000187951	-0.948	3.80E-02
<i>LOC101927267</i>	uncharacterized LOC101927267	ENSG00000258334	-2.406	1.10E-02
<i>LOC101927552</i>	uncharacterized LOC101927552	ENSG00000226877	2.867	6.20E-03
<i>LOC101927751</i>	uncharacterized LOC101927751	ENSG00000259583	-0.991	2.00E-02
<i>LOC101928728</i>	uncharacterized LOC101928728	ENSG00000260063	-6.961	2.80E-04
<i>LOC102724684</i>	uncharacterized LOC102724684	ENSG00000267026	-6.586	2.30E-03
<i>LOC105369760</i>		ENSG00000258017	-1.238	1.80E-03
<i>LOC105371050</i>		ENSG00000260874	-1.402	7.40E-03
<i>LOC105372097</i>		ENSG00000270112	-2.547	2.00E-02
<i>LOC105375304</i>	uncharacterized LOC105375304	ENSG00000225792	2.163	2.10E-02
<i>LOC339192</i>	uncharacterized LOC339192	ENSG00000267121	2.385	4.10E-02
<i>LOC644135</i>	uncharacterized LOC644135	ENSG00000237596	4.021	8.20E-10
<i>LRR1</i>	leucine rich repeat protein 1	ENSG00000165501	-1.103	1.60E-02
<i>LRRC8C</i>	leucine rich repeat containing 8 VRAC subunit C	ENSG00000171488	-0.900	4.30E-02
<i>LRRK2</i>	leucine rich repeat kinase 2	ENSG00000188906	1.102	3.40E-02
<i>LYAR</i>	Ly1 antibody reactive	ENSG00000145220	-0.979	4.00E-02
<i>MAD2L1</i>	mitotic arrest deficient 2 like 1	ENSG00000164109	-1.153	6.70E-03
<i>MALL</i>	mal, T cell differentiation protein like	ENSG00000144063	-1.710	1.10E-02
<i>MAP1B</i>	microtubule associated protein 1B	ENSG00000131711	-0.800	4.50E-02
<i>MAP6D1</i>	MAP6 domain containing 1	ENSG00000180834	-1.135	4.50E-02
<i>MARCHF4</i>	membrane associated ring-CH-type finger 4	ENSG00000144583	-1.744	8.80E-03
<i>MASP1</i>	mannan binding lectin serine peptidase 1	ENSG00000127241	1.839	1.70E-02
<i>MB</i>	myoglobin	ENSG00000198125	-1.134	1.70E-02
<i>MCM10</i>	minichromosome maintenance 10 replication initiation factor	ENSG00000065328	-1.469	9.90E-04
<i>MCM2</i>	minichromosome maintenance complex component 2	ENSG00000073111	-1.126	5.40E-03
<i>MCM3</i>	minichromosome maintenance complex component 3	ENSG00000112118	-0.833	3.70E-02

<i>MCM4</i>	minichromosome maintenance complex component 4	ENSG00000104738	-1.261	1.70E-03
<i>MCM5</i>	minichromosome maintenance complex component 5	ENSG00000100297	-1.307	1.40E-03
<i>MCM6</i>	minichromosome maintenance complex component 6	ENSG00000076003	-0.894	2.90E-02
<i>MCM7</i>	minichromosome maintenance complex component 7	ENSG00000166508	-0.821	3.90E-02
<i>MCM8</i>	minichromosome maintenance 8 homologous recombination repair factor	ENSG00000125885	-0.855	5.00E-02
<i>MCOLN1</i>	mucolipin 1	ENSG00000090674	0.841	3.90E-02
<i>MELK</i>	maternal embryonic leucine zipper kinase	ENSG00000165304	-1.543	2.30E-04
<i>MET</i>	MET proto-oncogene, receptor tyrosine kinase	ENSG00000105976	-0.914	2.80E-02
<i>METTL7B</i>	methyltransferase like 7B	ENSG00000170439	-1.590	8.00E-03
<i>MGST1</i>	microsomal glutathione S-transferase 1	ENSG00000008394	0.793	4.80E-02
<i>MIR181A1HG</i>	MIR181A1 host gene	ENSG00000229989	-2.008	2.80E-02
<i>MIS18A</i>	MIS18 kinetochore protein A	ENSG00000159055	-1.401	2.20E-03
<i>MKI67</i>	marker of proliferation Ki-67	ENSG00000148773	-1.705	2.50E-05
<i>MLLT1</i>	MLLT1 super elongation complex subunit	ENSG00000130382	0.833	3.50E-02
<i>MLPH</i>	melanophilin	ENSG00000115648	-3.937	7.80E-08
<i>MMP15</i>	matrix metalloproteinase 15	ENSG00000102996	0.964	2.60E-02
<i>MORF4L2-AS1</i>	MORF4L2 antisense RNA 1	ENSG00000231154	1.979	8.30E-03
<i>MPP3</i>	membrane palmitoylated protein 3	ENSG00000161647	-1.176	2.60E-02
<i>MTCO2P12</i>		ENSG00000229344	2.997	2.00E-02
<i>MTFP1</i>	mitochondrial fission process 1	ENSG00000242114	-1.565	1.90E-02
<i>MTHFD1L</i>	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1 like	ENSG00000120254	0.905	2.40E-02
<i>MXRA5</i>	matrix remodeling associated 5	ENSG00000101825	2.180	1.50E-07
<i>MXRA5Y</i>	matrix remodeling associated 5 Y-linked (pseudogene)	ENSG00000235649	2.004	4.20E-02
<i>MYBL1</i>	MYB proto-oncogene like 1	ENSG00000185697	-1.287	5.10E-03
<i>MYBL2</i>	MYB proto-oncogene like 2	ENSG00000101057	-1.186	3.90E-03
<i>MYEOV</i>	myeloma overexpressed	ENSG00000172927	-1.810	4.20E-02
<i>MYLK2</i>	myosin light chain kinase 2	ENSG00000101306	-2.015	2.10E-02
<i>MYRIP</i>	myosin VIIA and Rab interacting protein	ENSG00000170011	1.323	1.20E-02
<i>N4BP3</i>	NEDD4 binding protein 3	ENSG00000145911	2.478	2.80E-02
<i>NAALADL2</i>	N-acetylated alpha-linked acidic dipeptidase like 2	ENSG00000177694	1.314	2.20E-02
<i>NAV2</i>	neuron navigator 2	ENSG00000166833	-1.277	5.50E-03
<i>NCAPD2</i>	non-SMC condensin I complex subunit D2	ENSG00000010292	-0.998	1.20E-02
<i>NCAPG</i>	non-SMC condensin I complex subunit G	ENSG00000109805	-1.328	1.30E-03
<i>NCAPG2</i>	non-SMC condensin II complex subunit G2	ENSG00000146918	-1.272	2.10E-03
<i>NCAPH</i>	non-SMC condensin I complex subunit H	ENSG00000121152	-1.163	9.80E-03
<i>NDC80</i>	NDC80 kinetochore complex component	ENSG00000080986	-1.647	1.50E-04
<i>NDE1</i>	nudE neurodevelopment protein 1	ENSG00000072864	-0.885	2.80E-02
<i>NDST3</i>	N-deacetylase and N-sulfotransferase 3	ENSG00000164100	1.074	3.30E-02
<i>NEAT1</i>	nuclear paraspeckle assembly transcript 1	ENSG00000245532	1.108	5.30E-03
<i>NEBL</i>	nebulin	ENSG00000078114	2.394	4.60E-05
<i>NECTIN1</i>	nectin cell adhesion molecule 1	ENSG00000110400	-0.852	3.60E-02
<i>NEFL</i>	neurofilament light	ENSG00000277586	-1.175	1.10E-02
<i>NEGR1</i>	neuronal growth regulator 1	ENSG00000172260	1.099	7.70E-03

<i>NEK2</i>	NIMA related kinase 2	ENSG00000117650	-1.525	9.80E-04
<i>NEURL1B</i>	neuralized E3 ubiquitin protein ligase 1B	ENSG00000214357	-1.421	1.50E-03
<i>NIPAL1</i>	NIPA like domain containing 1	ENSG00000163293	-1.321	2.80E-02
<i>NKD2</i>	NKD inhibitor of WNT signaling pathway 2	ENSG00000145506	1.366	1.60E-02
<i>NPY</i>	neuropeptide Y	ENSG00000122585	1.834	9.00E-04
<i>NPY1R</i>	neuropeptide Y receptor Y1	ENSG00000164128	2.470	5.80E-09
<i>NPY5R</i>	neuropeptide Y receptor Y5	ENSG00000164129	1.587	2.90E-03
<i>NR4A2</i>	nuclear receptor subfamily 4 group A member 2	ENSG00000153234	2.796	3.40E-09
<i>NR4A3</i>	nuclear receptor subfamily 4 group A member 3	ENSG00000119508	2.022	8.30E-03
<i>NRGN</i>	neurogranin	ENSG00000154146	-1.235	8.00E-03
<i>NSD2</i>	nuclear receptor binding SET domain protein 2	ENSG00000109685	-0.818	3.90E-02
<i>NT5E</i>	5'-nucleotidase ecto	ENSG00000135318	-0.985	1.40E-02
<i>NTAN1</i>	N-terminal asparagine amidase	ENSG00000157045	-0.903	2.90E-02
<i>NTNG2</i>	netrin G2	ENSG00000196358	0.928	4.50E-02
<i>NUF2</i>	NUF2 component of NDC80 kinetochore complex	ENSG00000143228	-1.936	1.60E-05
<i>NUSAP1</i>	nucleolar and spindle associated protein 1	ENSG00000137804	-1.486	3.20E-04
<i>OCIAD1-AS1</i>	OCIAD1 antisense RNA 1	ENSG00000248256	2.737	3.30E-02
<i>OIP5</i>	Opa interacting protein 5	ENSG00000104147	-1.388	1.10E-02
<i>OLFML2A</i>	olfactomedin like 2A	ENSG00000185585	-1.517	4.50E-04
<i>ORC6</i>	origin recognition complex subunit 6	ENSG00000091651	-1.478	8.20E-04
<i>OSGIN2</i>	oxidative stress induced growth inhibitor family member 2	ENSG00000164823	0.884	2.80E-02
<i>PAM</i>	peptidylglycine alpha-amidating monooxygenase	ENSG00000145730	0.877	2.70E-02
<i>PAMR1</i>	peptidase domain containing associated with muscle regeneration 1	ENSG00000149090	2.797	9.00E-03
<i>PAQR4</i>	progesterone and adipoQ receptor family member 4	ENSG00000162073	-1.177	6.20E-03
<i>PARP2</i>	poly(ADP-ribose) polymerase 2	ENSG00000129484	-0.885	3.70E-02
<i>PASK</i>	PAS domain containing serine/threonine kinase	ENSG00000115687	-1.120	1.10E-02
<i>PBK</i>	PDZ binding kinase	ENSG00000168078	-1.467	7.10E-04
<i>PBX1</i>	PBX homeobox 1	ENSG00000185630	1.233	2.20E-03
<i>PCAT6</i>	prostate cancer associated transcript 6	ENSG00000228288	1.355	2.70E-02
<i>PCAT7</i>	prostate cancer associated transcript 7	ENSG00000231806	2.997	2.00E-02
<i>PCDH1</i>	protocadherin 1	ENSG00000156453	-1.195	1.70E-02
<i>PCK2</i>	phosphoenolpyruvate carboxykinase 2, mitochondrial	ENSG00000100889	-1.142	8.60E-03
<i>PCNA</i>	proliferating cell nuclear antigen	ENSG00000132646	-0.821	4.00E-02
<i>PCSK4</i>	proprotein convertase subtilisin/kexin type 4	ENSG00000115257	1.452	1.30E-02
<i>PDE1A</i>	phosphodiesterase 1A	ENSG00000115252	3.117	1.40E-03
<i>PDE3A</i>	phosphodiesterase 3A	ENSG00000172572	1.895	1.30E-02
<i>PDE4B</i>	phosphodiesterase 4B	ENSG00000184588	2.071	1.70E-04
<i>PDE4D</i>	phosphodiesterase 4D	ENSG00000113448	2.135	8.30E-06
<i>PDE7B</i>	phosphodiesterase 7B	ENSG00000171408	3.286	4.30E-12
<i>PDGFD</i>	platelet derived growth factor D	ENSG00000170962	1.704	4.90E-05
<i>PDLIM4</i>	PDZ and LIM domain 4	ENSG00000131435	-1.460	1.10E-03

<i>PDZRN3</i>	PDZ domain containing ring finger 3	ENSG00000121440	1.083	3.80E-02
<i>PGRMC2</i>	progesterone receptor membrane component 2	ENSG00000164040	1.024	1.10E-02
<i>PHF19</i>	PHD finger protein 19	ENSG00000119403	-0.933	2.20E-02
<i>PHGDH</i>	phosphoglycerate dehydrogenase	ENSG00000092621	-1.213	2.60E-03
<i>PI16</i>	peptidase inhibitor 16	ENSG00000164530	2.143	3.90E-06
<i>PIF1</i>	PIF1 5'-to-3' DNA helicase	ENSG00000140451	-1.155	1.20E-02
<i>PIK3IP1</i>	phosphoinositide-3-kinase interacting protein 1	ENSG00000100100	0.948	4.50E-02
<i>PIMREG</i>	PICALM interacting mitotic regulator	ENSG00000129195	-1.595	1.80E-04
<i>PITPNM3</i>	PITPNM family member 3	ENSG00000091622	-0.867	3.10E-02
<i>PITX2</i>	paired like homeodomain 2	ENSG00000164093	1.646	7.30E-03
<i>PKMYT1</i>	protein kinase, membrane associated tyrosine/threonine 1	ENSG00000127564	-1.296	2.00E-03
<i>PKN3</i>	protein kinase N3	ENSG00000160447	-0.961	3.20E-02
<i>PKP2</i>	plakophilin 2	ENSG00000057294	0.851	3.60E-02
<i>PLA2G4C</i>	phospholipase A2 group IVC	ENSG00000105499	1.481	3.80E-02
<i>PLAT</i>	plasminogen activator, tissue type	ENSG00000104368	-1.791	1.00E-04
<i>PLAU</i>	plasminogen activator, urokinase	ENSG00000122861	-1.045	8.30E-03
<i>PLAUR</i>	plasminogen activator, urokinase receptor	ENSG00000011422	-0.952	2.10E-02
<i>PLCL1</i>	phospholipase C like 1 (inactive)	ENSG00000115896	2.028	1.30E-03
<i>PLCXD3</i>	phosphatidylinositol specific phospholipase C X domain containing 3	ENSG00000182836	-0.945	4.80E-02
<i>PLEK2</i>	pleckstrin 2	ENSG00000100558	-1.366	3.30E-03
<i>PLEKHA2</i>	pleckstrin homology domain containing A2	ENSG00000169499	1.445	4.00E-04
<i>PLK1</i>	polo like kinase 1	ENSG00000166851	-1.614	9.20E-05
<i>PLK4</i>	polo like kinase 4	ENSG00000142731	-1.051	2.20E-02
<i>PLOD2</i>	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	ENSG00000152952	1.666	3.40E-05
<i>PLSCR4</i>	phospholipid scramblase 4	ENSG00000114698	0.821	4.30E-02
<i>PLXNA4</i>	plexin A4	ENSG00000221866	-1.122	1.50E-02
<i>PLXNB3</i>	plexin B3	ENSG00000198753	0.974	2.10E-02
<i>PMAIP1</i>	phorbol-12-myristate-13-acetate-induced protein 1	ENSG00000141682	-0.938	2.70E-02
<i>PMEL</i>	premelanosome protein	ENSG00000185664	-1.071	2.70E-02
<i>PNP</i>	purine nucleoside phosphorylase	ENSG00000198805	-0.879	4.30E-02
<i>POC1A</i>	POC1 centriolar protein A	ENSG00000164087	-1.095	1.30E-02
<i>PODXL</i>	podocalyxin like	ENSG00000128567	-1.731	3.00E-05
<i>POLA1</i>	DNA polymerase alpha 1, catalytic subunit	ENSG00000101868	-0.968	2.70E-02
<i>POLD1</i>	DNA polymerase delta 1, catalytic subunit	ENSG00000062822	-0.922	2.50E-02
<i>POLE</i>	DNA polymerase epsilon, catalytic subunit	ENSG00000177084	-0.824	4.50E-02
<i>POLQ</i>	DNA polymerase theta	ENSG00000051341	-1.428	2.60E-03
<i>POLRMTP1</i>	RNA polymerase mitochondrial pseudogene 1	ENSG00000266066	2.552	9.50E-04
<i>PPIAP46</i>	peptidylprolyl isomerase A pseudogene 46	ENSG00000260266	3.173	9.80E-04
<i>PPIAP53</i>	peptidylprolyl isomerase A pseudogene 53	ENSG00000223878	1.834	4.20E-02
<i>PPP1R15A</i>	protein phosphatase 1 regulatory subunit 15A	ENSG00000087074	-0.789	5.00E-02

<i>PPP1R32</i>	protein phosphatase 1 regulatory subunit 32	ENSG00000162148	3.217	7.80E-03
<i>PRC1</i>	protein regulator of cytokinesis 1	ENSG00000198901	-1.491	2.40E-04
<i>PRC1-AS1</i>	PRC1 antisense RNA 1	ENSG00000258725	-1.664	1.50E-04
<i>PRDM8</i>	PR/SET domain 8	ENSG00000152784	-1.276	1.10E-02
<i>PREX1</i>	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1	ENSG00000124126	-1.079	2.40E-02
<i>PRKN</i>	parkin RBR E3 ubiquitin protein ligase	ENSG00000185345	1.481	3.80E-02
<i>PRR11</i>	proline rich 11	ENSG00000068489	-1.426	6.10E-04
<i>PRRT3</i>	proline rich transmembrane protein 3	ENSG00000163704	0.997	2.80E-02
<i>PRSS2</i>	serine protease 2	ENSG00000275896	-0.980	4.70E-02
<i>PRUNE2</i>	prune homolog 2 with BCH domain	ENSG00000106772	0.917	2.10E-02
<i>PSAT1</i>	phosphoserine aminotransferase 1	ENSG00000135069	-1.287	1.60E-03
<i>PSD3</i>	pleckstrin and Sec7 domain containing 3	ENSG00000156011	0.899	2.20E-02
<i>PSRC1</i>	proline and serine rich coiled-coil 1	ENSG00000134222	-1.591	3.90E-04
<i>PTGS2</i>	prostaglandin-endoperoxide synthase 2	ENSG00000073756	1.253	8.00E-03
<i>PTP4A1</i>	protein tyrosine phosphatase 4A1	ENSG00000112245	0.893	2.50E-02
<i>PTPDC1</i>	protein tyrosine phosphatase domain containing 1	ENSG00000158079	-1.233	1.30E-02
<i>PTPRN</i>	protein tyrosine phosphatase receptor type N	ENSG00000054356	3.267	4.00E-05
<i>PTPRR</i>	protein tyrosine phosphatase receptor type R	ENSG00000153233	2.153	8.50E-03
<i>PTTG1</i>	PTTG1 regulator of sister chromatid separation, securin	ENSG00000164611	-1.387	1.30E-03
<i>QPRT</i>	quinolinate phosphoribosyltransferase	ENSG00000103485	2.737	3.30E-02
<i>RAB3A</i>	RAB3A, member RAS oncogene family	ENSG00000105649	2.442	2.30E-04
<i>RACGAP1</i>	Rac GTPase activating protein 1	ENSG00000161800	-1.426	5.90E-04
<i>RAD51</i>	RAD51 recombinase	ENSG00000051180	-1.527	1.50E-03
<i>RAD51AP1</i>	RAD51 associated protein 1	ENSG00000111247	-1.689	3.10E-04
<i>RALGAP2</i>	Ral GTPase activating protein catalytic alpha subunit 2	ENSG00000188559	0.892	4.10E-02
<i>RASD1</i>	ras related dexamethasone induced 1	ENSG00000108551	2.921	3.40E-10
<i>RASD2</i>	RASD family member 2	ENSG00000100302	-1.353	2.90E-02
<i>RASL11B</i>	RAS like family 11 member B	ENSG00000128045	2.027	3.00E-04
<i>RASSF10</i>	Ras association domain family member 10	ENSG00000189431	-2.834	7.80E-03
<i>RASSF8</i>	Ras association domain family member 8	ENSG00000123094	0.900	2.80E-02
<i>RBL1</i>	RB transcriptional corepressor like 1	ENSG00000080839	-1.350	2.50E-03
<i>RBM7</i>	RNA binding motif protein 7	ENSG00000076053	0.827	4.80E-02
<i>RECQL4</i>	RecQ like helicase 4	ENSG00000160957	-1.041	1.10E-02
<i>REPS2</i>	RALBP1 associated Eps domain containing 2	ENSG00000169891	1.121	2.20E-02
<i>RFC2</i>	replication factor C subunit 2	ENSG00000049541	-1.223	1.00E-02
<i>RFC3</i>	replication factor C subunit 3	ENSG00000133119	-1.150	6.90E-03
<i>RGMB</i>	repulsive guidance molecule BMP co-receptor b	ENSG00000174136	-0.880	3.00E-02
<i>RGMB-AS1</i>	RGMB antisense RNA 1	ENSG00000246763	-1.545	9.90E-03
<i>RGS2</i>	regulator of G protein signaling 2	ENSG00000116741	1.819	1.80E-05
<i>RHBDL3</i>	rhomboid like 3	ENSG00000141314	-1.325	1.60E-02
<i>RHOU</i>	ras homolog family member U	ENSG00000116574	1.984	4.20E-06
<i>RIN1</i>	Ras and Rab interactor 1	ENSG00000174791	-0.845	4.70E-02
<i>RNASEH2A</i>	ribonuclease H2 subunit A	ENSG00000104889	-1.146	5.80E-03
<i>RND2</i>	Rho family GTPase 2	ENSG00000108830	1.455	2.30E-02

<i>RNF150</i>	ring finger protein 150	ENSG00000170153	2.004	4.20E-02
<i>RNF152</i>	ring finger protein 152	ENSG00000176641	-2.145	3.90E-02
<i>ROBO1</i>	roundabout guidance receptor 1	ENSG00000169855	1.065	7.50E-03
<i>ROBO4</i>	roundabout guidance receptor 4	ENSG00000154133	-6.586	2.30E-03
<i>RP11-753C18.12</i>		ENSG00000282772	1.279	2.10E-02
<i>RP11_1167A192</i>		ENSG00000255038	2.306	1.50E-02
<i>RP11_120D51</i>		ENSG00000234129	-2.282	1.70E-02
<i>RP11_120K92</i>		ENSG00000259684	3.111	1.30E-02
<i>RP11_142E91</i>		ENSG00000276672	-2.145	3.90E-02
<i>RP11_158H57</i>		ENSG00000268573	3.111	1.30E-02
<i>RP11_161H235</i>		ENSG00000258232	-1.166	3.70E-03
<i>RP11_19P228</i>		ENSG00000266872	2.341	2.40E-06
<i>RP11_229P1322</i>		ENSG00000229257	-2.008	2.80E-02
<i>RP11_229P1323</i>		ENSG00000231864	-1.044	2.70E-02
<i>RP11_22B231</i>		ENSG00000111788	-1.263	3.10E-02
<i>RP11_234A11</i>		ENSG00000242299	-1.225	4.10E-02
<i>RP11_240G225</i>		ENSG00000274554	2.052	7.00E-03
<i>RP11_301L82</i>		ENSG00000233110	3.091	2.10E-05
<i>RP11_304L198</i>		ENSG00000261532	-1.164	1.80E-02
<i>RP11_334A148</i>		ENSG00000235563	2.737	3.30E-02
<i>RP11_334C175</i>		ENSG00000262580	1.328	1.60E-02
<i>RP11_33N143</i>		ENSG00000277873	-1.225	4.10E-02
<i>RP11_344B22</i>		ENSG00000264982	1.964	3.40E-04
<i>RP11_344N102</i>		ENSG00000237768	1.121	2.40E-02
<i>RP11_399B171</i>		ENSG00000278962	-1.916	3.00E-02
<i>RP11_424C202</i>		ENSG00000256663	-1.918	4.40E-03
<i>RP11_435D73</i>		ENSG00000232335	-1.221	4.40E-02
<i>RP11_443B201</i>		ENSG00000271936	-1.336	2.20E-02
<i>RP11_454L92</i>		ENSG00000259318	2.737	3.30E-02
<i>RP11_459E51</i>		ENSG00000253125	-1.218	3.00E-02
<i>RP11_489E74</i>		ENSG00000272256	0.793	5.00E-02
<i>RP11_495O111</i>		ENSG00000255091	-1.916	3.00E-02
<i>RP11_517C164</i>		ENSG00000261243	-1.895	3.30E-03
<i>RP11_527N222</i>		ENSG00000253746	-2.024	9.40E-03
<i>RP11_544A128</i>		ENSG00000246851	1.834	4.20E-02
<i>RP11_54O716</i>		ENSG00000272438	2.004	4.20E-02
<i>RP11_613D138</i>		ENSG00000244953	2.193	2.90E-03
<i>RP11_626E131</i>		ENSG00000235902	2.737	3.30E-02
<i>RP11_65L32</i>		ENSG00000270277	-2.282	1.70E-02
<i>RP11_67L35</i>		ENSG00000242396	0.986	1.50E-02
<i>RP11_76K133</i>		ENSG00000264475	1.903	3.10E-02
<i>RP11_843B152</i>		ENSG00000257530	1.562	1.00E-02
<i>RP11_847H182</i>		ENSG00000245482	-3.739	7.80E-03
<i>RP11_84A193</i>		ENSG00000254545	-1.235	1.80E-02
<i>RP11_873E201</i>		ENSG00000267397	1.397	6.90E-03
<i>RP11_876N243</i>		ENSG00000280153	3.217	7.80E-03
<i>RP11_927P214</i>		ENSG00000265982	6.130	6.90E-03
<i>RP13_977J115</i>		ENSG00000256804	-1.883	4.10E-02
<i>RP1_228H135</i>		ENSG00000260920	-1.773	3.10E-03
<i>RP1_266L202</i>		ENSG00000232640	3.515	1.20E-04
<i>RP1_292L203</i>		ENSG00000274818	2.163	2.10E-02
<i>RP3_329A58</i>		ENSG00000272374	2.873	2.00E-02
<i>RP3_368A46</i>		ENSG00000271533	1.834	4.20E-02



<i>RP4_536B242</i>		ENSG00000260466	-1.156	1.30E-02
<i>RP4_694A72</i>		ENSG00000233589	-1.263	3.10E-02
<i>RP5_832C25</i>		ENSG00000215014	2.873	2.00E-02
<i>RP5_875H189</i>		ENSG00000276851	-1.938	2.20E-02
<i>RPL15P3</i>	ribosomal protein L15 pseudogene 3	ENSG00000212802	-1.389	3.80E-02
<i>RPS6KA2</i>	ribosomal protein S6 kinase A2	ENSG00000071242	1.058	1.20E-02
<i>RRAD</i>	RRAD, Ras related glycolysis inhibitor and calcium channel regulator	ENSG00000166592	-2.285	1.10E-07
<i>RRM1</i>	ribonucleotide reductase catalytic subunit M1	ENSG00000167325	-0.810	4.40E-02
<i>RRM2</i>	ribonucleotide reductase regulatory subunit M2	ENSG00000171848	-1.171	3.80E-03
<i>RTN4RL2</i>	reticulon 4 receptor like 2	ENSG00000186907	6.708	7.70E-04
<i>S100A2</i>	S100 calcium binding protein A2	ENSG00000196754	-0.980	2.50E-02
<i>S1PR3</i>	sphingosine-1-phosphate receptor 3	ENSG00000213694	1.146	4.50E-03
<i>SAPCD2</i>	suppressor APC domain containing 2	ENSG00000186193	-1.274	2.60E-03
<i>SAT1</i>	spermidine/spermine N1-acetyltransferase 1	ENSG00000130066	1.142	4.90E-03
<i>SBSPON</i>	somatomedin B and thrombospondin type 1 domain containing	ENSG00000164764	1.822	1.60E-04
<i>SCARA3</i>	scavenger receptor class A member 3	ENSG00000168077	-1.628	1.20E-04
<i>SCG2</i>	secretogranin II	ENSG00000171951	1.944	3.30E-06
<i>SCLY</i>	selenocysteine lyase	ENSG00000132330	-1.524	3.10E-02
<i>SCN2A</i>	sodium voltage-gated channel alpha subunit 2	ENSG00000136531	-1.916	3.00E-02
<i>SEMA3C</i>	semaphorin 3C	ENSG00000075223	1.046	9.20E-03
<i>SEMA3D</i>	semaphorin 3D	ENSG00000153993	1.979	8.30E-03
<i>SEMA3F</i>	semaphorin 3F	ENSG00000001617	1.050	2.50E-02
<i>SEMA6D</i>	semaphorin 6D	ENSG00000137872	1.122	1.20E-02
<i>SERPINE1</i>	serpin family E member 1	ENSG00000106366	-1.431	3.20E-04
<i>SFMBT1</i>	Scm like with four mbt domains 1	ENSG00000163935	-1.325	1.60E-02
<i>SFMBT2</i>	Scm like with four mbt domains 2	ENSG00000198879	1.839	1.70E-02
<i>SFRP1</i>	secreted frizzled related protein 1	ENSG00000104332	1.806	2.20E-05
<i>SGK1</i>	serum/glucocorticoid regulated kinase 1	ENSG00000118515	0.799	4.50E-02
<i>SGO1</i>	shugoshin 1	ENSG00000129810	-1.375	5.80E-03
<i>SGO2</i>	shugoshin 2	ENSG00000163535	-0.955	3.20E-02
<i>SHC4</i>	SHC adaptor protein 4	ENSG00000185634	1.286	2.10E-02
<i>SHCBP1</i>	SHC binding and spindle associated 1	ENSG00000171241	-1.605	1.50E-04
<i>SIDT2</i>	SID1 transmembrane family member 2	ENSG00000149577	0.922	2.40E-02
<i>SIGLEC15</i>	sialic acid binding Ig like lectin 15	ENSG00000197046	-1.651	4.80E-03
<i>SIPA1L1</i>	signal induced proliferation associated 1 like 1	ENSG00000197555	0.898	2.60E-02
<i>SKA1</i>	spindle and kinetochore associated complex subunit 1	ENSG00000154839	-2.344	3.00E-06
<i>SKA3</i>	spindle and kinetochore associated complex subunit 3	ENSG00000165480	-1.492	1.10E-03
<i>SKIDA1</i>	SKI/DACH domain containing 1	ENSG00000180592	1.839	1.70E-02
<i>SKP2</i>	S-phase kinase associated protein 2	ENSG00000145604	-0.985	2.40E-02
<i>SLC14A1</i>	solute carrier family 14 member 1 (Kidd blood group)	ENSG00000141469	-1.422	6.40E-04
<i>SLC1A3</i>	solute carrier family 1 member 3	ENSG00000079215	3.255	3.10E-09
<i>SLC1A7</i>	solute carrier family 1 member 7	ENSG00000162383	1.698	6.50E-03
<i>SLC25A30-AS1</i>	SLC25A30 antisense RNA 1	ENSG00000251015	1.719	3.10E-02

<i>SLC25A40</i>	solute carrier family 25 member 40	ENSG00000075303	-1.016	4.40E-02
<i>SLC26A2</i>	solute carrier family 26 member 2	ENSG00000155850	0.863	3.00E-02
<i>SLC27A3</i>	solute carrier family 27 member 3	ENSG00000143554	-1.400	3.60E-02
<i>SLC29A1</i>	solute carrier family 29 member 1 (Augustine blood group)	ENSG00000112759	-0.951	2.00E-02
<i>SLC2A12</i>	solute carrier family 2 member 12	ENSG00000146411	2.210	6.20E-03
<i>SLC35G1</i>	solute carrier family 35 member G1	ENSG00000176273	-6.722	1.30E-03
<i>SLC40A1</i>	solute carrier family 40 member 1	ENSG00000138449	2.063	6.00E-05
<i>SLC43A3</i>	solute carrier family 43 member 3	ENSG00000134802	-1.242	3.80E-03
<i>SLC44A3</i>	solute carrier family 44 member 3	ENSG00000143036	1.135	2.00E-02
<i>SLC44A3-AS1</i>	SLC44A3 antisense RNA 1	ENSG00000224081	1.376	1.80E-02
<i>SLC44A5</i>	solute carrier family 44 member 5	ENSG00000137968	-1.447	4.10E-02
<i>SLC46A1</i>	solute carrier family 46 member 1	ENSG00000076351	0.953	2.30E-02
<i>SLC4A4</i>	solute carrier family 4 member 4	ENSG00000080493	0.892	4.70E-02
<i>SLC4A5</i>	solute carrier family 4 member 5	ENSG00000188687	-1.688	4.90E-03
<i>SLC6A17</i>	solute carrier family 6 member 17	ENSG00000197106	-2.034	1.00E-03
<i>SLC7A5</i>	solute carrier family 7 member 5	ENSG00000103257	-0.877	2.80E-02
<i>SLC8A1</i>	solute carrier family 8 member A1	ENSG00000183023	-1.559	2.60E-03
<i>SLC8A1-AS1</i>	SLC8A1 antisense RNA 1	ENSG00000227028	-2.698	1.30E-02
<i>SLF1</i>	SMC5-SMC6 complex localization factor 1	ENSG00000133302	-0.997	4.30E-02
<i>SLFN12L</i>	schlafen family member 12 like	ENSG00000205045	1.903	3.10E-02
<i>SLIT2</i>	slit guidance ligand 2	ENSG00000145147	1.504	2.00E-04
<i>SLITRK4</i>	SLIT and NTRK like family member 4	ENSG00000179542	1.016	1.40E-02
<i>SMAGP</i>	small cell adhesion glycoprotein	ENSG00000170545	-0.897	3.50E-02
<i>SMC2</i>	structural maintenance of chromosomes 2	ENSG00000136824	-0.989	1.70E-02
<i>SMC4</i>	structural maintenance of chromosomes 4	ENSG00000113810	-1.167	3.60E-03
<i>SMC6</i>	structural maintenance of chromosomes 6	ENSG00000163029	-1.095	9.20E-03
<i>SMPD3</i>	sphingomyelin phosphodiesterase 3	ENSG00000103056	1.244	4.00E-03
<i>SMTN</i>	smoothelin	ENSG00000183963	-0.894	5.00E-02
<i>SNAI3</i>	snail family transcriptional repressor 3	ENSG00000185669	2.095	1.20E-02
<i>SNRPGP10</i>	small nuclear ribonucleoprotein polypeptide G pseudogene 10	ENSG00000235363	-1.916	3.00E-02
<i>SORBS2</i>	sorbin and SH3 domain containing 2	ENSG00000154556	2.165	4.90E-07
<i>SOX6</i>	SRY-box transcription factor 6	ENSG00000110693	-1.447	4.10E-02
<i>SOX9</i>	SRY-box transcription factor 9	ENSG00000125398	-1.107	7.80E-03
<i>SPAG5</i>	sperm associated antigen 5	ENSG00000076382	-1.326	1.80E-03
<i>SPDL1</i>	spindle apparatus coiled-coil protein 1	ENSG00000040275	-1.390	7.40E-04
<i>SPHK1</i>	sphingosine kinase 1	ENSG00000176170	-2.609	3.30E-06
<i>SPINK4</i>	serine peptidase inhibitor, Kazal type 4	ENSG00000122711	6.266	3.90E-03
<i>SPOCD1</i>	SPOC domain containing 1	ENSG00000134668	-1.358	1.00E-03
<i>SPOCK3</i>	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 3	ENSG00000196104	1.049	1.70E-02
<i>SRGN</i>	serglycin	ENSG00000122862	1.169	1.00E-02
<i>SSPO</i>	SCO-spondin	ENSG00000197558	1.281	4.20E-02
<i>ST20-MTHFS</i>	ST20-MTHFS readthrough	ENSG00000259332	1.970	2.20E-02
<i>ST3GAL6-AS1</i>	ST3GAL6 antisense RNA 1	ENSG00000239445	2.997	2.00E-02
<i>STAR</i>	steroidogenic acute regulatory protein	ENSG00000147465	1.736	3.20E-05
<i>STARD5</i>	StAR related lipid transfer domain containing 5	ENSG00000172345	1.060	2.80E-02
<i>STBD1</i>	starch binding domain 1	ENSG00000118804	-1.400	3.60E-02
<i>STC1</i>	stanniocalcin 1	ENSG00000159167	1.226	4.30E-03
<i>STIL</i>	STIL centriolar assembly protein	ENSG00000123473	-1.140	9.60E-03
<i>STMN1</i>	stathmin 1	ENSG00000117632	-0.915	2.10E-02

<i>STRA6</i>	stimulated by retinoic acid 6	ENSG00000137868	-1.507	1.70E-03
<i>STX1A</i>	syntaxin 1A	ENSG00000106089	-1.291	3.60E-03
<i>SULT1B1</i>	sulfotransferase family 1B member 1	ENSG00000173597	3.217	7.80E-03
<i>SUV39H1</i>	suppressor of variegation 3-9 homolog 1	ENSG00000101945	-0.893	5.00E-02
<i>SYBU</i>	syntabulin	ENSG00000147642	1.270	3.10E-02
<i>SYNE3</i>	spectrin repeat containing nuclear envelope family member 3	ENSG00000176438	-2.569	9.60E-05
<i>TACC3</i>	transforming acidic coiled-coil containing protein 3	ENSG00000013810	-1.389	6.40E-04
<i>TANC2</i>	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	ENSG00000170921	0.809	4.30E-02
<i>TBC1D2B</i>	TBC1 domain family member 2B	ENSG00000167202	-0.822	4.40E-02
<i>TBL1X</i>	transducin beta like 1 X-linked	ENSG00000101849	1.119	4.90E-03
<i>TBX2</i>	T-box transcription factor 2	ENSG00000121068	1.543	2.20E-04
<i>TCF19</i>	transcription factor 19	ENSG00000137310	-1.186	4.10E-03
<i>TCOF1</i>	treacle ribosome biogenesis factor 1	ENSG00000070814	-0.895	2.70E-02
<i>TEDC1</i>	tubulin epsilon and delta complex 1	ENSG00000185347	-0.890	4.50E-02
<i>TENM4</i>	teneurin transmembrane protein 4	ENSG00000149256	-0.936	4.40E-02
<i>TEX52</i>	testis expressed 52	ENSG00000283297	2.997	2.00E-02
<i>TFPI</i>	tissue factor pathway inhibitor	ENSG00000003436	1.030	1.00E-02
<i>TFPI2</i>	tissue factor pathway inhibitor 2	ENSG00000105825	1.067	2.20E-02
<i>TGFB2</i>	transforming growth factor beta receptor 2	ENSG00000163513	0.822	3.90E-02
<i>TGM2</i>	transglutaminase 2	ENSG00000198959	1.195	3.50E-03
<i>TICRR</i>	TOPBP1 interacting checkpoint and replication regulator	ENSG00000140534	-1.127	1.00E-02
<i>TIGD3</i>	tigger transposable element derived 3	ENSG00000173825	2.737	3.30E-02
<i>TIMELESS</i>	timeless circadian regulator	ENSG00000111602	-0.980	1.60E-02
<i>TK1</i>	thymidine kinase 1	ENSG00000167900	-1.468	3.40E-04
<i>TLCD2</i>	TLC domain containing 2	ENSG00000185561	1.119	4.70E-02
<i>TLL1</i>	tolloid like 1	ENSG00000038295	1.307	8.20E-03
<i>TM4SF1</i>	transmembrane 4 L six family member 1	ENSG00000169908	1.756	2.20E-05
<i>TM7SF2</i>	transmembrane 7 superfamily member 2	ENSG00000149809	1.178	6.20E-03
<i>TMC3</i>	transmembrane channel like 3	ENSG00000188869	3.653	3.10E-03
<i>TMEFF2</i>	transmembrane protein with EGF like and two follistatin like domains 2	ENSG00000144339	1.985	2.20E-05
<i>TMEM151A</i>	transmembrane protein 151A	ENSG00000179292	1.495	5.70E-03
<i>TMEM171</i>	transmembrane protein 171	ENSG00000157111	-2.406	1.10E-02
<i>TMEM190</i>	transmembrane protein 190	ENSG00000160472	1.780	2.30E-02
<i>TMEM245</i>	transmembrane protein 245	ENSG00000106771	0.817	3.90E-02
<i>TMEM25</i>	transmembrane protein 25	ENSG00000149582	0.867	4.10E-02
<i>TMEM60</i>	transmembrane protein 60	ENSG00000135211	-1.016	4.40E-02
<i>TMPO</i>	thymopoietin	ENSG00000120802	-0.924	2.10E-02
<i>TMPO-AS1</i>	TMPO antisense RNA 1	ENSG00000257167	-1.385	9.30E-04
<i>TMTC1</i>	transmembrane O-mannosyltransferase targeting cadherins 1	ENSG00000133687	1.088	1.00E-02
<i>TNFAIP8L1</i>	TNF alpha induced protein 8 like 1	ENSG00000185361	-0.913	3.00E-02
<i>TNFRSF11A</i>	TNF receptor superfamily member 11a	ENSG00000141655	-1.077	2.80E-02
<i>TNFRSF11B</i>	TNF receptor superfamily member 11b	ENSG00000164761	1.475	2.10E-03
<i>TNFRSF21</i>	TNF receptor superfamily member 21	ENSG00000146072	0.864	3.20E-02
<i>TNFSF10</i>	TNF superfamily member 10	ENSG00000121858	1.578	5.30E-04
<i>TOB1</i>	transducer of ERBB2, 1	ENSG00000141232	1.907	5.90E-06
<i>TOP2A</i>	DNA topoisomerase II alpha	ENSG00000131747	-1.695	2.80E-05

<i>TP73</i>	tumor protein p73	ENSG00000078900	-1.689	1.10E-02
<i>TPTEP2</i>	TPTE pseudogene 2	ENSG00000244627	1.637	2.30E-02
<i>TPX2</i>	TPX2 microtubule nucleation factor	ENSG00000088325	-1.649	5.50E-05
<i>TRAC</i>	T cell receptor alpha constant	ENSG00000277734	-2.834	7.80E-03
<i>TRHDE</i>	thyrotropin releasing hormone degrading enzyme	ENSG00000072657	-1.131	2.40E-02
<i>TRIM59</i>	tripartite motif containing 59	ENSG00000213186	-1.208	3.50E-03
<i>TRIP13</i>	thyroid hormone receptor interactor 13	ENSG00000071539	-1.264	3.30E-03
<i>TROAP</i>	trophinin associated protein	ENSG00000135451	-1.705	1.30E-04
<i>TRPC6</i>	transient receptor potential cation channel subfamily C member 6	ENSG00000137672	1.567	1.90E-02
<i>TSPAN11</i>	tetraspanin 11	ENSG00000110900	1.094	1.00E-02
<i>TSPAN8</i>	tetraspanin 8	ENSG00000127324	0.806	4.60E-02
<i>TTC36</i>	tetratricopeptide repeat domain 36	ENSG00000172425	2.873	2.00E-02
<i>TTF2</i>	transcription termination factor 2	ENSG00000116830	-1.274	3.50E-03
<i>TTK</i>	TTK protein kinase	ENSG00000112742	-1.754	1.10E-04
<i>TUB</i>	TUB bipartite transcription factor	ENSG00000166402	1.299	3.40E-03
<i>TUBA1B</i>	tubulin alpha 1b	ENSG00000123416	-1.233	1.80E-03
<i>TUBA1C</i>	tubulin alpha 1c	ENSG00000167553	-1.229	2.00E-03
<i>TUBB</i>	tubulin beta class I	ENSG00000196230	-0.798	4.20E-02
<i>TUBB4B</i>	tubulin beta 4B class IVb	ENSG00000188229	-1.195	2.60E-03
<i>TVP23C</i>	trans-golgi network vesicle protein 23 homolog C	ENSG00000175106	1.360	9.00E-03
<i>TYMS</i>	thymidylate synthetase	ENSG00000176890	-1.178	3.50E-03
<i>TYMSOS</i>	TYMS opposite strand	ENSG00000176912	-1.497	7.90E-04
<i>TYRP1</i>	tyrosinase related protein 1	ENSG00000107165	1.227	2.90E-02
<i>UBE2C</i>	ubiquitin conjugating enzyme E2 C	ENSG00000175063	-1.795	3.00E-05
<i>UBE2T</i>	ubiquitin conjugating enzyme E2 T	ENSG00000077152	-1.366	2.40E-03
<i>UBL7-AS1</i>	UBL7 antisense RNA 1 (head to head)	ENSG00000247240	-1.759	4.20E-02
<i>UHRF1</i>	ubiquitin like with PHD and ring finger domains 1	ENSG00000276043	-1.527	2.00E-04
<i>UNC5D</i>	unc-5 netrin receptor D	ENSG00000156687	2.001	9.40E-03
<i>UPP1</i>	uridine phosphorylase 1	ENSG00000183696	1.138	4.40E-03
<i>USP1</i>	ubiquitin specific peptidase 1	ENSG00000162607	-0.913	2.50E-02
<i>UST-AS1</i>	UST antisense RNA 1	ENSG00000227660	1.034	4.80E-02
<i>VASH2</i>	vasohibin 2	ENSG00000143494	0.832	4.50E-02
<i>VDR</i>	vitamin D receptor	ENSG00000111424	1.568	2.60E-03
<i>VSTM2L</i>	V-set and transmembrane domain containing 2 like	ENSG00000132821	-1.614	4.10E-02
<i>VTN</i>	vitronectin	ENSG00000109072	1.572	1.60E-03
<i>VWA5B2</i>	von Willebrand factor A domain containing 5B2	ENSG00000145198	4.839	1.50E-14
<i>WDHD1</i>	WD repeat and HMG-box DNA binding protein 1	ENSG00000198554	-1.224	5.20E-03
<i>WDR62</i>	WD repeat domain 62	ENSG00000075702	-1.801	1.60E-04
<i>WIPI1</i>	WD repeat domain, phosphoinositide interacting 1	ENSG00000070540	0.841	4.00E-02
<i>WLS</i>	Wnt ligand secretion mediator	ENSG00000116729	-0.930	1.90E-02
<i>WNT2B</i>	Wnt family member 2B	ENSG00000134245	1.292	5.00E-03
<i>WNT5A</i>	Wnt family member 5A	ENSG00000114251	1.069	8.80E-03
<i>WNT5A-AS1</i>	WNT5A antisense RNA 1	ENSG00000244586	1.761	7.00E-04
<i>WNT7B</i>	Wnt family member 7B	ENSG00000188064	-2.905	1.40E-03
<i>XXBAC_BPG252P99</i>		ENSG00000272540	-0.864	2.80E-02

<i>YPEL4</i>	yippee like 4	ENSG00000166793	1.227	1.70E-02
<i>ZGRF1</i>	zinc finger GRF-type containing 1	ENSG00000138658	-1.298	9.50E-03
<i>ZKSCAN7-AS1</i>	ZKSCAN7 ZNF cluster antisense RNA 1	ENSG00000236869	-2.015	2.10E-02
<i>ZNF275</i>	zinc finger protein 275	ENSG00000063587	0.986	1.40E-02
<i>ZNF33B</i>	zinc finger protein 33B	ENSG00000196693	1.107	2.50E-02
<i>ZNF367</i>	zinc finger protein 367	ENSG00000165244	-1.239	8.10E-03
<i>ZNF436-AS1</i>	ZNF436 antisense RNA 1	ENSG00000249087	1.081	2.70E-02
<i>ZNF641</i>	zinc finger protein 641	ENSG00000167528	0.842	4.40E-02
<i>ZNF703</i>	zinc finger protein 703	ENSG00000183779	-0.860	3.10E-02
<i>ZNF714</i>	zinc finger protein 714	ENSG00000160352	-1.537	4.10E-03
<i>ZWILCH</i>	zwilch kinetochore protein	ENSG00000174442	-1.024	1.60E-02
<i>ZWINT</i>	ZW10 interacting kinetochore protein	ENSG00000122952	-1.281	1.70E-03

**Table S3.** List of upstream regulators in treatments (melatonin, FSK) (*p*-value of overlap  $\geq 0.05$ ).

Melatonin Treatment					
Upstream Regulator	Expr Log Ratio	Molecule Type	Predicted Activation State	Activation z-score	p-value of overlap
DAP3	0.150	other	Inhibited	-2.449	2.64E-06
MT-TE	-0.418	other			4.96E-05
LONP1	-0.026	peptidase		-0.522	7.91E-05
STOX1		other			8.31E-05
actinonin		chemical reagent	Activated	2.236	2.35E-04
HIF1A	0.061	transcription regulator		0.520	6.20E-04
MALSU1	-0.089	other			8.09E-04
Ap2 alpha		group			8.09E-04
MRPL14	-0.200	other			1.38E-03
trans-hydroxytamoxifen		chemical drug		-0.775	1.97E-03
SIRT3	-0.080	enzyme	Activated	2.020	1.99E-03
Retinoic acid-RAR-RXR		complex			2.15E-03
ALKBH1	-0.248	enzyme			2.15E-03
NSUN3	0.269	enzyme			2.15E-03
GPB1	-1.153	G-protein coupled receptor		1.242	2.23E-03
PHB2	0.083	transcription regulator		1.000	2.54E-03
HNF4A		transcription regulator		-0.170	3.07E-03
ARHGDIG		other		-1.000	3.18E-03
IFITM1	-0.645	transmembrane receptor	Activated	2.000	3.18E-03
miR-892b (miRNAs w/seed ACUGGCU)		mature microRNA			3.65E-03
taprostene		chemical reagent			3.65E-03
ACSL4	0.007	enzyme		-0.391	3.71E-03
PPARGC1B		transcription regulator		-1.134	3.80E-03
hydrocortisone		chemical - endogenous mammalian		-1.086	4.32E-03
LCOR	-0.109	transcription regulator			4.37E-03
EIF4E	-0.003	translation regulator		-1.414	5.28E-03
FLCN	-0.361	other	Activated	2.214	6.44E-03
miR-331-3p (miRNAs w/seed CCCUGG)		mature microRNA			7.12E-03
PAPOLA	0.048	enzyme			7.12E-03
PAF1	-0.087	other		0.447	7.30E-03
torin1		chemical reagent		1.718	7.81E-03
MIR4269		microRNA			1.16E-02
Cox5b		other			1.16E-02
pemetrexed		chemical drug			1.16E-02
Betacatenin/TCF		complex			1.19E-02
TFAP2B		transcription regulator			1.19E-02

AKT3	0.146	kinase		1.24E-02
MYOC		other		1.25E-02
phenethyl isothiocyanate		chemical drug	-1.000	1.35E-02
MT-TM		other		1.45E-02
CNOT3	0.060	other		1.45E-02
RICTOR	0.110	other	1.780	1.53E-02
NR4A1	0.077	ligand-dependent nuclear receptor	0.905	1.53E-02
RRP1B	0.149	transcription regu- lator		1.59E-02
AP2M1	-0.138	transporter		1.70E-02
TAB2	0.097	other		1.70E-02
FGF18		growth factor		1.70E-02
Congo Red		chemical toxicant		1.70E-02
calcium chloride		chemical drug		1.70E-02
Rhox5		transcription regu- lator		1.74E-02
1810019D21Rik		other	-0.816	1.75E-02
ASXL2	-0.159	other	-1.000	1.82E-02
bexarotene		chemical drug	-0.826	1.98E-02
miR-21-5p (and other miRNAs w/seed AGCUUAU)		mature microRNA	Inhibited -2.410	2.04E-02
coenzyme Q10		chemical drug		2.06E-02
cerulenin		chemical drug		2.06E-02
TFE3	0.010	transcription regu- lator	Inhibited -2.236	2.25E-02
CNOT7	0.018	transcription regu- lator		2.28E-02
ZNF746	0.098	transcription regu- lator		2.32E-02
KMT5B	-0.041	enzyme		2.32E-02
LRPPRC	0.136	other		2.32E-02
WNT10B	0.056	other		2.32E-02
ASARM-PO4		chemical reagent		2.32E-02
MYCN		transcription regu- lator	Inhibited -3.208	2.38E-02
MAP4K4	-0.071	kinase	-0.426	2.40E-02
HNF1B		transcription regu- lator	0.889	2.40E-02
NFIA	0.819	transcription regu- lator		2.41E-02
PDGF BB		complex	0.045	2.59E-02
mir-181		microRNA	1.000	2.65E-02
4-hydroxytamoxifen		chemical drug	0.095	2.74E-02
EPAS1	0.186	transcription regu- lator	0.059	2.74E-02
BACH1	0.126	transcription regu- lator		2.79E-02
F2R	0.006	G-protein coupled receptor	-0.518	2.94E-02
6-amino-4-(4-		chemical reagent		3.03E-02

<b>phenoxyphenylethylamino)quinazoline</b>				
<b>L-type Calcium Channel</b>		complex		3.03E-02
<b>MRPL12</b>	-0.142	other		3.03E-02
<b>miR-217-5p (and other miRNAs w/seed ACUGCAU)</b>		mature microRNA		3.03E-02
<b>RGS16</b>		other		3.03E-02
<b>miR-16-5p (and other miRNAs w/seed AG-CAGCA)</b>		mature microRNA	-0.430	3.05E-02
<b>AHR</b>	0.231	ligand-dependent nuclear receptor	-0.900	3.15E-02
<b>LIPE</b>	-0.493	enzyme		3.18E-02
<b>ZNF202</b>	0.542	transcription regulator		3.19E-02
<b>ADRB1</b>		G-protein coupled receptor		3.19E-02
<b>LMNA</b>	-0.013	other		3.36E-02
<b>atractyloside</b>		chemical toxicant		3.53E-02
<b>endocannabinoid</b>		chemical - endogenous mammalian		3.53E-02
<b>tubulin (complex)</b>		complex		3.53E-02
<b>ASB9</b>	-0.630	transcription regulator		3.53E-02
<b>WTIP</b>	0.074	transcription regulator		3.53E-02
<b>DNAJA4</b>	-1.703	other		3.53E-02
<b>TFAP2E</b>	0.341	transcription regulator		3.53E-02
<b>ANKRD12</b>	0.089	other		3.53E-02
<b>BRINP1</b>	0.743	peptidase		3.53E-02
<b>PPIP5K1</b>	0.157	phosphatase		3.53E-02
<b>VPS36</b>	0.094	other		3.53E-02
<b>FND3B</b>	0.100	other		3.53E-02
<b>TMEM184A</b>	-0.094	other		3.53E-02
<b>DMTN</b>	0.072	other		3.53E-02
<b>SGMS2</b>	0.172	enzyme		3.53E-02
<b>CDCA4</b>	0.106	other		3.53E-02
<b>RIC8A</b>	0.009	other		3.53E-02
<b>PU-H71</b>		chemical drug		3.53E-02
<b>SYTL4</b>	0.125	transporter		3.53E-02
<b>AP2S1</b>	0.048	transporter		3.53E-02
<b>MORF4L2</b>	0.027	other		3.53E-02
<b>JAKMIP1</b>		translation regulator		3.53E-02
<b>SNAP91</b>		other		3.53E-02
<b>CFI</b>	0.007	peptidase		3.53E-02
<b>mir-3960</b>		microRNA		3.53E-02
<b>miR-377-3p (miRNAs w/seed UCACACA)</b>		mature microRNA		3.53E-02
<b>miR-548d-3p (and other miRNAs w/seed AAAAACC)</b>		mature microRNA		3.53E-02
<b>miR-331-5p (and other miRNAs w/seed UAGGUAU)</b>		mature microRNA		3.53E-02



<b>miR-616-3p (miRNAs w/seed GUCAUUG)</b>		mature microRNA		3.53E-02
<b>AX 115</b>		chemical reagent		3.53E-02
<b>SCO2</b>	-0.219	enzyme		3.53E-02
<b>KCNA1</b>		ion channel		3.53E-02
<b>SEM1</b>	-0.108	peptidase		3.53E-02
<b>MAP7</b>	-0.599	other		3.53E-02
<b>ECSCR</b>		other		3.53E-02
<b>ATP1B3</b>	-0.066	transporter		3.53E-02
<b>CRABP1</b>		transporter		3.53E-02
<b>CFD</b>		peptidase		3.53E-02
<b>CAND1</b>	0.116	transcription regu- lator		3.53E-02
<b>chemotherapy/tretinoin</b>		chemical drug		3.53E-02
<b>MORF4L1</b>	0.025	other		3.53E-02
<b>ALYREF</b>	-0.095	transcription regu- lator		3.53E-02
<b>DECR1</b>	-0.037	enzyme		3.53E-02
<b>CHP1</b>	-0.141	transporter		3.53E-02
<b>OPRL1</b>	0.056	G-protein coupled receptor		3.53E-02
<b>IGHMBP2</b>	-0.003	enzyme		3.53E-02
<b>SR11256</b>		chemical reagent		3.53E-02
<b>RECTAS</b>		chemical reagent		3.53E-02
<b>broussoflavonol b</b>		chemical reagent		3.53E-02
<b>Annonacin</b>		chemical reagent		3.53E-02
<b>Clorgyline</b>		chemical drug		3.53E-02
<b>4-diphenylacetoxy-1,1- dimethylpiperidinium</b>		chemical reagent		3.53E-02
<b>Thioperamide</b>		chemical reagent		3.53E-02
<b>2,5-dihydroxymethylcinnamate</b>		chemical - kinase inhibitor		3.53E-02
<b>Nafoxidine</b>		chemical drug		3.53E-02
<b>Astra 1397</b>		chemical reagent		3.53E-02
<b>TAK-779</b>		chemical drug		3.53E-02
<b>PD173955</b>		chemical - kinase inhibitor		3.53E-02
<b>Fotemustine</b>		chemical drug		3.53E-02
<b>quinuclidinyl benzilate</b>		chemical reagent		3.53E-02
<b>AP-1 decoy</b>		chemical reagent		3.53E-02
<b>tartaric acid</b>		chemical reagent		3.53E-02
<b>pristanic acid</b>		chemical - endog- enous mammalian		3.53E-02
<b>2-ethylhexanoic acid</b>		chemical toxicant		3.53E-02
<b>Cycloleucine</b>		chemical toxicant		3.53E-02
<b>hydrocortisone phosphate</b>		chemical drug		3.53E-02
<b>Tin</b>		chemical reagent		3.53E-02
<b>FN1</b>	0.037	enzyme	-0.529	3.61E-02
<b>MAT1A</b>		enzyme		3.63E-02
<b>(-)-epicatechin gallate</b>		chemical - endog- enous non- mammalian		3.80E-02

TRG		other		3.80E-02
PHEX	0.544	peptidase		3.80E-02
Chromium		chemical drug	-0.555	3.86E-02
NORAD	0.111	other	-1.000	4.05E-02
PTH		other	0.152	4.06E-02
Raloxifene		chemical drug	-0.164	4.06E-02
L-tryptophan		chemical - endog- enous mammalian		4.10E-02
WDR5	-0.068	transcription regu- lator		4.10E-02
PBX3	0.124	transcription regu- lator		4.10E-02
Apicidin		chemical - endog- enous non- mammalian		4.10E-02
RASSF1	-0.234	other	-1.066	4.20E-02
MAP2K1	0.141	kinase	-0.181	4.30E-02
SOX1		transcription regu- lator	0.000	4.40E-02
CAB39L	0.536	kinase	-1.000	4.41E-02
CIDEc		other	0.686	4.41E-02
Erlotinib		chemical drug	0.956	4.41E-02
oblimersen		biologic drug	0.447	4.42E-02
PLAG1	-0.122	transcription regu- lator	-1.432	4.42E-02
alvespimycin		chemical drug		4.59E-02
MBD1	-0.107	transcription regu- lator		4.59E-02
cycloheximide		chemical reagent	-0.701	4.60E-02
NKX2-3		transcription regu- lator	-0.873	4.63E-02
PHF21A	-0.051	other		4.64E-02
MIR320		group		4.64E-02
NMNAT1	0.145	enzyme		4.64E-02
lapatinib		chemical drug		4.64E-02
levamisole		chemical drug		4.64E-02
ibandronic acid		chemical drug		4.64E-02
cortistatin A		chemical reagent		4.64E-02
tiron		chemical reagent		4.64E-02
miR-125b-5p (and other miRNAs w/seed CCCUGAG)		mature microRNAInhibited	-2.590	4.86E-02
TREM1		transmembrane receptor	-0.577	4.89E-02
sirolimus		chemical drug Activated	3.313	6.92E-02
RUNX3		transcription regu- lator Inhibited	-2.646	7.82E-02
NEUROG1		transcription regu- lator Activated	2.236	7.93E-02
KLF3	-0.123	transcription regu- lator Inhibited	-2.183	8.32E-02
TOB1	-0.204	transcription regu-Activated	2.000	8.87E-02

		lactor			
TRAP1	0.078	enzyme	Activated	2.449	9.48E-02
ATF4	-0.144	transcription regulator	Activated	2.154	1.17E-01
PGR	0.235	ligand-dependent nuclear receptor	Inhibited	-2.104	1.20E-01
carboplatin		chemical drug		-1.953	1.29E-01
trichostatin A		chemical drug	Inhibited	-2.044	1.31E-01
MSC	-0.038	transcription regulator	Activated	2.000	1.42E-01
NRIP1	0.185	transcription regulator		1.961	1.68E-01
EGLN1	0.085	enzyme		-1.982	1.75E-01
metribolone		chemical reagent	Inhibited	-2.706	1.90E-01
CLPP	-0.025	peptidase	Activated	2.000	1.97E-01
decitabine		chemical drug		-1.911	2.03E-01
trovafloxacin		chemical drug	Inhibited	-2.000	2.19E-01
PTEN	0.141	phosphatase	Inhibited	-2.210	2.30E-01
heparin		chemical - endogenous mammalian		1.969	2.57E-01
tazemetostat		chemical drug		-1.994	2.60E-01
MTOR	0.059	kinase		-1.795	2.61E-01
SP2509		chemical reagent		-1.994	3.06E-01
STK11	0.053	kinase	Inhibited	-2.331	3.24E-01
LCN2		transporter		1.951	3.61E-01
PPARD	0.039	ligand-dependent nuclear receptor	Activated	2.803	3.79E-01
KDM1A	0.082	enzyme		1.964	4.00E-01
mir-21		microRNA	Inhibited	-2.529	4.02E-01
CXCL12		cytokine		-1.942	4.05E-01
okadaic acid		chemical toxicant		-1.982	4.25E-01
SP600125		chemical - kinase inhibitor	Inhibited	-2.230	4.79E-01
KLF11	-0.231	transcription regulator		-1.913	4.80E-01
CDKN2A		transcription regulator		-1.929	4.83E-01
HSF1	-0.013	transcription regulator		1.777	5.01E-01
carbon tetrachloride		chemical toxicant	Inhibited	-2.234	5.01E-01
PRKCD	-0.377	kinase		1.890	5.08E-01
fatty acid		chemical - endogenous mammalian		1.960	5.33E-01
isobutylmethylxanthine		chemical toxicant		1.941	1.00E00
5-fluorouracil		chemical drug		1.912	1.00E00
etoposide		chemical drug		-1.982	1.00E00
17-alpha-ethinylestradiol		chemical drug		-1.982	1.00E00
Pkc(s)		group		1.987	1.00E00
26s Proteasome		complex		1.982	1.00E00
CCND1	-0.063	transcription regulator		1.969	1.00E00

APOE	-0.592	transporter		-1.944	1.00E00
GATA6	0.135	transcription regu- lator	Activated	2.000	1.00E00
YAP1	-0.014	transcription regu- lator		1.949	1.00E00
NFATC2	0.207	transcription regu- lator	Activated	2.000	1.00E00
TCF7L2	-0.111	transcription regu- lator		1.890	1.00E00
EPO		cytokine		1.982	1.00E00
WNT3A		cytokine		1.828	1.00E00
pioglitazone		chemical drug	Inhibited	-2.160	1.00E00
dimethyl sulfoxide		chemical drug	Activated	2.000	1.00E00
isoproterenol		chemical drug	Activated	2.166	1.00E00
cyclosporin A		biologic drug		-1.849	1.00E00
D-glucose		chemical - endog- enous mammalian		1.847	1.00E00
wortmannin		chemical - kinase inhibitor		1.969	1.00E00
testosterone		chemical - endog- enous mammalian	Inhibited	-2.270	1.00E00
Ca2+		chemical – endog- enous mammalian	Activated	2.959	1.00E00
FSK treatment					
Upstream Regulator	Expr Log Ratio	Molecule Type	Predicted Activation State	Activation z- score	p-value of overlap
ZBTB17	-0.243	transcription regu- lator			1.55E-26
Vegf		group	Inhibited	-2.090	5.96E-18
dexamethasone		chemical drug	Activated	2.176	4.18E-16
PTGER2	-0.527	G-protein coupled receptor	Inhibited	-3.394	1.09E-15
TP53	-0.267	transcription regu- lator		1.729	5.11E-15
HGF		growth factor	Inhibited	-2.072	7.72E-15
CDKN1A	0.081	kinase		1.907	8.50E-15
forskolin		chemical toxicant	Activated	3.974	1.10E-14
FOXO1	-1.262	transcription regu- lator	Inhibited	-3.168	8.99E-14
NR1H3	0.652	ligand-dependent nuclear receptor			1.10E-13
AREG	0.650	growth factor	Inhibited	-3.357	3.02E-13
E2F4	-0.407	transcription regu- lator			1.10E-12
RABL6	-0.248	other	Inhibited	-3.606	1.38E-12
CCND1	-0.747	transcription regu- lator	Inhibited	-2.121	7.35E-12
TCF3	-0.367	transcription regu- lator		1.667	8.34E-12
CREB1	0.091	transcription regu-		0.312	9.32E-12

		lactor			
<b>Pka</b>		complex	Activated	2.408	3.77E-11
<b>CDK4</b>	-0.560	kinase			4.20E-11
<b>dextran sulfate</b>		chemical drug			1.06E-10
<b>LDLR</b>	0.325	transporter			3.32E-10
<b>TGFB1</b>	-0.079	growth factor		-0.136	9.14E-10
<b>TCF4</b>	0.186	transcription regu- lator			1.21E-09
<b>FOXO3</b>	0.142	transcription regu- lator		0.730	1.29E-09
<b>HNF1A-AS1</b>		other	Inhibited	-2.646	2.06E-09
<b>ERBB2</b>	0.230	kinase	Inhibited	-2.904	2.84E-09
<b>FGF2</b>	0.116	growth factor		-1.436	3.84E-09
<b>calcitriol</b>		chemical drug	Activated	3.442	4.13E-09
<b>LIN9</b>	-1.300	other	Inhibited	-2.619	4.65E-09
<b>CDKN2A</b>		transcription regu- lator	Activated	3.605	8.67E-09
<b>EGF</b>	1.097	growth factor		-0.337	1.06E-08
<b>CSF2</b>		cytokine	Inhibited	-3.266	1.54E-08
<b>ESR1</b>	1.726	ligand-dependent nuclear receptor	Inhibited	-2.021	3.53E-08
<b>IL1B</b>	0.343	cytokine		0.934	3.85E-08
<b>actinomycin D</b>		biologic drug		-1.296	7.21E-08
<b>PHF21A</b>	0.234	other	Activated	2.190	7.30E-08
<b>YAP1</b>	0.072	transcription regu- lator		-1.937	8.11E-08
<b>diethylstilbestrol</b>		chemical drug		-1.528	8.96E-08
<b>YY1</b>	-0.116	transcription regu- lator			1.09E-07
<b>NUPR1</b>	-0.122	transcription regu- lator	Activated	2.711	1.25E-07
<b>AIP</b>	0.199	transcription regu- lator	Inhibited	-2.138	1.65E-07
<b>2-(4-amino-1-isopropyl-1H-pyrazolo[3,4- d]pyrimidin-3-yl)-1H-indol-5-ol</b>		chemical reagent	Activated	2.985	1.80E-07
<b>fluocinolone acetonide</b>		chemical drug		-0.707	1.94E-07
<b>AR</b>	-0.158	ligand-dependent nuclear receptor		-1.808	3.58E-07
<b>MITF</b>	0.133	transcription regu- lator	Inhibited	-3.189	3.63E-07
<b>TNF</b>		cytokine		0.329	5.74E-07
<b>CREM</b>	0.226	transcription regu- lator		-0.622	6.12E-07
<b>8-bromo-cAMP</b>		chemical reagent	Activated	2.429	6.40E-07
<b>beta-estradiol</b>		chemical - endog- enous mammalian		1.142	6.65E-07
<b>IL6</b>	0.549	cytokine		0.254	7.16E-07
<b>tetradecanoylphorbol acetate</b>		chemical drug		0.649	8.36E-07
<b>EP400</b>	-0.207	other	Inhibited	-2.621	8.60E-07
<b>filgrastim</b>		biologic drug		1.023	9.40E-07
<b>LY294002</b>		chemical - kinase		-0.282	9.59E-07

		inhibitor			
AGN194204		chemical drug	Inhibited	-2.121	1.16E-06
PTH		other		0.554	1.86E-06
tretinoin		chemical - endogenous mammalian	Activated	2.038	2.03E-06
prostaglandin E2		chemical - endogenous mammalian		1.926	2.62E-06
doxorubicin		chemical drug	Activated	2.282	2.68E-06
triamcinolone acetonide		chemical drug		0.507	2.82E-06
RBPJ	-0.023	transcription regulator		0.632	2.87E-06
GW3965		chemical reagent		1.088	2.92E-06
4-hydroxytamoxifen		chemical drug		0.380	3.37E-06
decitabine		chemical drug		1.453	3.72E-06
Nr1h		group		0.250	3.97E-06
Pkc(s)		group	Activated	2.376	4.47E-06
TP73	-1.689	transcription regulator	Activated	2.238	4.57E-06
PDGF BB		complex		1.320	4.94E-06
P38 MAPK		group		1.232	5.89E-06
WNT1		cytokine		-0.742	6.43E-06
cyclic AMP		chemical - endogenous mammalian	Activated	2.801	7.07E-06
LHCGR		G-protein coupled receptor			7.42E-06
AGT		growth factor		0.927	7.71E-06
deferroxamine		chemical drug		0.389	8.46E-06
discodermolide		chemical drug			8.68E-06
KDM5B	0.143	transcription regulator	Activated	2.039	8.97E-06
GATA4	0.233	transcription regulator		0.862	1.09E-05
hydroxyurea		chemical drug		-0.922	1.13E-05
SNCA	0.175	enzyme		1.116	1.17E-05
etoposide		chemical drug		1.037	1.20E-05
MAPK1	-0.118	kinase		0.000	1.23E-05
FSH		complex		1.733	1.61E-05
CDC27	-0.057	other			1.94E-05
trans-hydroxytamoxifen		chemical drug		-0.905	1.96E-05
ASAH1	0.639	enzyme		-1.231	1.96E-05
PRKAA1	0.150	kinase		-1.126	2.00E-05
AG490		chemical - kinase inhibitor		0.115	2.13E-05
NKX2-3		transcription regulator		-0.624	2.22E-05
MYBL2	-1.186	transcription regulator	Inhibited	-2.179	2.32E-05
cycloheximide		chemical reagent		-1.130	2.49E-05
glucocorticoid		chemical drug		0.440	2.55E-05
tributyltin		chemical reagent		-1.890	2.57E-05
lipopolysaccharide		chemical drug	Activated	2.130	3.12E-05

MED1	0.006	transcription regu- lator		-1.238	3.49E-05
medroxyprogesterone acetate		chemical drug	Activated	2.985	3.60E-05
F2	-0.708	peptidase		1.828	3.82E-05
CCAR1	-0.178	transcription regu- lator			3.84E-05
CTNNB1	-0.063	transcription regu- lator		0.789	4.07E-05
bleomycin		chemical drug		-1.019	4.09E-05
RBL2	0.246	other	Activated	2.382	4.19E-05
progesterone		chemical - endog- enous mammalian		0.734	4.25E-05
bucladesine		chemical toxicant	Activated	2.306	4.69E-05
GPER1	-1.087	G-protein coupled receptor		1.673	4.72E-05
FSHR	3.080	G-protein coupled receptor		1.387	4.72E-05
TFAP2A	0.081	transcription regu- lator		1.545	4.83E-05
NR3C2	0.420	ligand-dependent nuclear receptor		0.277	4.87E-05
poly rI:rC-RNA		biologic drug		1.084	5.04E-05
imipramine blue		chemical drug	Activated	2.186	5.42E-05
Creb		group		1.219	5.76E-05
L-methionine		chemical - endog- enous mammalian			5.87E-05
CG		complex	Activated	2.069	6.03E-05
EWSR1	-0.096	other		0.447	6.30E-05
BMP2		growth factor		1.078	6.41E-05
KDM1A	-0.068	enzyme	Inhibited	-2.417	6.47E-05
BNIP3L	0.478	other	Activated	2.449	6.52E-05
SLC5A8		transporter			6.66E-05
APC (complex)		complex			6.66E-05
RBX1	-0.413	enzyme			6.66E-05
CD24	0.432	other		-1.987	6.77E-05
TGFB2	0.624	growth factor		-0.445	7.23E-05
plicamycin		chemical drug		-0.355	7.71E-05
ADRB		group		-0.504	8.10E-05
Tgf beta		group		0.270	8.54E-05
Lh		complex		1.387	8.70E-05
E2F3	-0.330	transcription regu- lator	Inhibited	-2.138	9.05E-05
mifepristone		chemical drug		-0.199	9.15E-05
D-glucose		chemical - endog- enous mammalian		1.321	9.26E-05
GNA15		enzyme			9.33E-05
PGF		growth factor			9.56E-05
GDF9	-0.293	growth factor		-0.638	9.56E-05
troglitazone		chemical drug		-0.154	1.01E-04
NONO	0.004	transcription regu- lator	Inhibited	-2.000	1.02E-04

PD98059		chemical - kinase inhibitor	0.637	1.06E-04
FEV		transcription regulator Activated	2.646	1.07E-04
SMARCE1	0.047	transcription regulator		1.24E-04
VEGFA	-0.345	growth factor	0.977	1.32E-04
RB1	-0.159	transcription regulator	-0.359	1.35E-04
TAL1		transcription regulator Inhibited	-2.530	1.35E-04
WNT3A		cytokine	0.437	1.35E-04
Hif1		complex	0.068	1.40E-04
L-triiodothyronine		chemical - endogenous mammalian	1.665	1.42E-04
HDAC1	-0.161	transcription regulator	-0.682	1.45E-04
corticosterone		chemical - endogenous mammalian	1.044	1.50E-04
BMP15		growth factor	-1.964	1.50E-04
FSHB		other	0.152	1.50E-04
NR3C1	-0.080	ligand-dependent nuclear receptor	0.406	1.52E-04
gemcitabine		chemical drug	-1.014	1.53E-04
Sn50 peptide		chemical toxicant	0.555	1.53E-04
bazedoxifene		chemical drug		1.57E-04
prodigiosin		chemical toxicant		1.57E-04
FHL1	-0.049	other		1.58E-04
SLC8A1	-1.559	transporter		1.58E-04
1,1-bis(3'-indolyl)-1-(4-hydroxyphenyl)methane		chemical reagent		1.58E-04
4-(octyloxy)phenol		chemical reagent		1.58E-04
4-(heptyloxy)phenol		chemical reagent		1.58E-04
GNAQ	0.371	enzyme		1.68E-04
JAG1	-0.215	growth factor	0.200	1.77E-04
CRH		cytokine	1.995	1.82E-04
ESR2	1.943	ligand-dependent nuclear receptor	0.638	1.90E-04
EGR2	-1.225	transcription regulator	1.408	1.92E-04
RARA	-0.470	ligand-dependent nuclear receptor	-1.342	1.99E-04
nitric oxide		chemical - endogenous mammalian	1.236	2.01E-04
TREM1		transmembrane receptor	-0.223	2.16E-04
anacardic acid		chemical - endogenous non-mammalian		2.22E-04
SMOC2		other		2.22E-04
BMS-754807		chemical drug		2.22E-04



<b>mir-21</b>		microRNA	Activated	3.464	2.41E-04
<b>bee venom</b>		chemical - endogenous non-mammalian	Activated	2.640	2.42E-04
<b>Irgm1</b>		other	Activated	2.219	2.47E-04
<b>Histone h3</b>		group			2.67E-04
<b>NS-398</b>		chemical reagent		-0.152	2.74E-04
<b>Hdac</b>		group	Inhibited	-2.099	2.76E-04
<b>let-7</b>		microRNA		1.440	2.86E-04
<b>dihydrotestosterone</b>		chemical - endogenous mammalian		0.160	2.91E-04
<b>PTHLH</b>	-0.438	other		1.067	2.94E-04
<b>Pka catalytic subunit</b>		group		1.941	2.95E-04
<b>HAND1</b>		transcription regulator		1.000	2.95E-04
<b>FGF9</b>		growth factor	Activated	2.000	2.95E-04
<b>PBRM1</b>	-0.117	other			3.02E-04
<b>IGF2</b>		growth factor			3.15E-04
<b>Calcineurin protein(s)</b>		complex		0.328	3.17E-04
<b>BMP4</b>	0.059	growth factor		1.443	3.21E-04
<b>estrogen</b>		chemical drug		-0.533	3.22E-04
<b>panobinostat</b>		chemical drug		-1.067	3.36E-04
<b>phenylephrine</b>		chemical drug		1.478	3.41E-04
<b>AMH</b>	-0.059	growth factor		-1.103	3.43E-04
<b>NR5A2</b>	-0.160	ligand-dependent nuclear receptor		1.652	3.49E-04
<b>JUN</b>	-0.939	transcription regulator		-0.504	3.62E-04
<b>INHA</b>	2.440	growth factor		0.570	3.70E-04
<b>TBX2</b>	1.543	transcription regulator		-1.633	3.94E-04
<b>TLX1</b>		transcription regulator		-1.000	3.97E-04
<b>cucurbitacin B</b>		chemical - endogenous non-mammalian			3.99E-04
<b>gefitinib</b>		chemical drug		1.981	4.06E-04
<b>5-N-ethylcarboxamido adenosine</b>		chemical reagent		1.344	4.15E-04
<b>SMARCA4</b>	-0.017	transcription regulator		1.155	4.19E-04
<b>nifedipine</b>		chemical drug		-0.447	4.23E-04
<b>IGF1</b>		growth factor		0.010	4.25E-04
<b>SHH</b>		peptidase		-0.652	4.60E-04
<b>PEPCK</b>		group			4.70E-04
<b>AZD7762</b>		chemical drug			4.70E-04
<b>CDC20</b>	-1.696	other			4.70E-04
<b>WTAP</b>	-0.268	other			4.70E-04
<b>methoxyacetic acid</b>		chemical toxicant			4.70E-04
<b>bisindolylmaleimide I</b>		chemical - kinase inhibitor		-1.195	5.18E-04
<b>S-nitroso-N-acetyl-DL-penicillamine</b>		chemical reagent		0.927	5.21E-04

CASP3	-0.106	peptidase	0.187	5.21E-04
STAT3	0.414	transcription regulator	1.008	5.28E-04
Histone h4		group		5.89E-04
MBD3	-0.124	other		5.93E-04
butyric acid		chemical - endogenous mammalian	1.302	6.12E-04
fulvestrant		chemical drug Activated	2.005	6.24E-04
KLF4	0.773	transcription regulator	0.681	6.24E-04
NAE1	-0.401	enzyme		6.48E-04
pyruvic acid		chemical - endogenous mammalian		6.48E-04
NGF	-0.940	growth factor	0.703	6.59E-04
NFYB	0.281	transcription regulator		6.64E-04
KDM4C	-0.268	enzyme		6.70E-04
glucagon		biologic drug Activated	2.236	6.90E-04
MAPK14	0.214	kinase Activated	2.779	7.06E-04
nicotine		chemical drug	-0.158	7.33E-04
CLEC4G		other	0.447	7.48E-04
GNRH1	-0.454	other	-0.266	7.48E-04
SB203580		chemical - kinase inhibitor	-1.966	7.83E-04
INHBA	1.257	growth factor	1.335	7.90E-04
miR-143-3p (and other miRNAs w/seed GA-GAUGA)		mature microRNA		8.03E-04
PDE5A	0.118	enzyme		8.03E-04
nocodazole		chemical reagent	0.072	8.12E-04
WT1		transcription regulator	-1.128	8.31E-04
ADCYAP1		other	1.258	8.58E-04
salmonella minnesota R595 lipopolysaccharides		chemical - endogenous non-mammalian	1.718	8.66E-04
RUNX2	0.766	transcription regulator	-0.379	8.66E-04
isoproterenol		chemical drug	1.371	9.03E-04
ZFP36	0.537	transcription regulator Activated	2.449	9.15E-04
Cmtm2a		transcription regulator		9.32E-04
SP6		transcription regulator		9.32E-04
ARTN	-1.597	growth factor		9.32E-04
methyl cellosolve		chemical reagent		9.32E-04
SP1	0.058	transcription regulator	-0.031	9.44E-04
epothilone B		chemical drug		9.79E-04
HIF1AN	0.044	enzyme		9.79E-04
MDK	-0.460	growth factor		9.79E-04

<b>cisplatin</b>		chemical drug	0.345	9.99E-04
<b>E2f</b>		group	-1.980	1.00E-03
<b>LIPE</b>	-0.642	enzyme		1.00E-03
<b>TCF</b>		group		1.03E-03
<b>indomethacin</b>		chemical drug	0.306	1.10E-03
<b>WNT5A</b>	1.069	cytokine	Inhibited -2.628	1.15E-03
<b>Hmgb1</b>		transcription regu- lator		1.18E-03
<b>DDX25</b>		enzyme		1.18E-03
<b>LATS2</b>	0.136	kinase		1.18E-03
<b>P2RY2</b>		G-protein coupled receptor		1.18E-03
<b>ATF6</b>	-0.013	transcription regu- lator	Inhibited -2.219	1.18E-03
<b>uric acid</b>		chemical - endog- enous mammalian	Activated 2.000	1.22E-03
<b>BMP7</b>		growth factor	-0.302	1.26E-03
<b>TNFSF13B</b>	0.665	cytokine		1.27E-03
<b>PTGS2</b>	1.253	enzyme	0.198	1.29E-03
<b>NFkB (complex)</b>		complex	0.196	1.31E-03
<b>RELA</b>	0.103	transcription regu- lator	1.510	1.32E-03
<b>docetaxel</b>		chemical drug	0.131	1.32E-03
<b>FOXO1</b>	1.412	transcription regu- lator	-1.067	1.35E-03
<b>Salmonella enterica serotype abortus equi lipopolysaccharide</b>		chemical toxicant	1.414	1.39E-03
<b>HCAR2</b>		G-protein coupled receptor		1.40E-03
<b>KLK4</b>		peptidase		1.40E-03
<b>AKR1B1</b>	0.043	enzyme		1.40E-03
<b>indirubin</b>		chemical drug		1.40E-03
<b>thiazolidinedione</b>		chemical drug		1.40E-03
<b>methylselenic acid</b>		chemical reagent		1.41E-03
<b>fluvastatin</b>		chemical drug		1.43E-03
<b>norepinephrine</b>		chemical - endog- enous mammalian	0.874	1.44E-03
<b>NFKBIA</b>	-0.323	transcription regu- lator	0.307	1.47E-03
<b>raloxifene</b>		chemical drug	-1.134	1.50E-03
<b>darusentan</b>		chemical drug		1.54E-03
<b>acyline</b>		biologic drug		1.54E-03
<b>HSD17B1</b>	0.214	enzyme		1.54E-03
<b>Mamld1</b>		other		1.54E-03
<b>scoparone</b>		chemical - endog- enous non- mammalian		1.54E-03
<b>atrasentan</b>		chemical drug		1.54E-03
<b>RXRA</b>	-0.248	ligand-dependent nuclear receptor	-0.798	1.55E-03
<b>NR5A1</b>	0.264	ligand-dependent	Activated 2.224	1.56E-03

		nuclear receptor		
<b>GHRL</b>		growth factor	-0.807	1.56E-03
<b>CIITA</b>	0.775	transcription regu- lator	1.993	1.57E-03
<b>carbamylcholine</b>		chemical drug	0.277	1.57E-03
<b>fluticasone propionate</b>		chemical drug	-0.863	1.61E-03
<b>simvastatin</b>		chemical drug	0.530	1.62E-03
<b>VHL</b>	-0.173	transcription regu- lator		1.64E-03
<b>HDAC4</b>	0.282	transcription regu- lator		1.64E-03
<b>NUMB</b>	-0.385	other		1.65E-03
<b>ACTB</b>	-0.211	other		1.65E-03
<b>RARRES2</b>	0.345	transmembrane receptor		1.65E-03
<b>leuprolide</b>		biologic drug		1.65E-03
<b>PIK3CA</b>	0.166	kinase	-0.068	1.67E-03
<b>LDL</b>		complex	1.164	1.72E-03
<b>PRKAA</b>		group	-0.124	1.73E-03
<b>TLR7/8</b>		group	-1.067	1.73E-03
<b>genistein</b>		chemical drug	1.262	1.82E-03
<b>HTT</b>	0.003	transcription regu- lator	0.277	1.83E-03
<b>DMP1</b>		other	1.000	1.89E-03
<b>dacinostat</b>		chemical drug		1.92E-03
<b>PHB</b>	-0.359	transcription regu- lator		1.92E-03
<b>naloxone</b>		chemical drug		1.92E-03
<b>GLI3</b>	-0.295	transcription regu- lator		2.02E-03
<b>curcumin</b>		chemical drug	0.837	2.05E-03
<b>BRCA1</b>	-1.447	transcription regu- lator	-0.167	2.07E-03
<b>hydrocortisone</b>		chemical - endog- enous mammalian	0.520	2.10E-03
<b>trichostatin A</b>		chemical drug	1.085	2.10E-03
<b>E2F2</b>	-0.919	transcription regu- lator	Inhibited -2.000	2.15E-03
<b>GnRH-A</b>		chemical reagent	1.172	2.15E-03
<b>PPARA</b>	0.657	ligand-dependent nuclear receptor	-1.172	2.21E-03
<b>SRA1</b>	-0.094	transcription regu- lator		2.22E-03
<b>NR4A1</b>	0.466	ligand-dependent nuclear receptor	-0.344	2.27E-03
<b>RNF31</b>	0.366	enzyme	-0.600	2.28E-03
<b>SPTBN2</b>	-0.452	other		2.29E-03
<b>LHX6</b>		transcription regu- lator		2.29E-03
<b>G6PC</b>		phosphatase		2.29E-03
<b>CIMO</b>		chemical reagent		2.29E-03

SQ 29548		chemical reagent		2.29E-03
fluphenazine		chemical drug		2.29E-03
GABA receptor		complex		2.29E-03
sparfosic acid		chemical drug		2.29E-03
NKX2-1		transcription regu- lator		2.29E-03
IGF1R	0.860	transmembrane receptor	1.826	2.40E-03
MDM2	-0.056	transcription regu- lator	-0.832	2.42E-03
thymoquinone		chemical drug		2.44E-03
CITED2	0.483	transcription regu- lator		2.44E-03
PRKACA	-0.246	kinase		2.44E-03
Ro31-8220		chemical - kinase inhibitor	-1.067	2.44E-03
thyroid hormone		chemical - endog- enous mammalian	-0.647	2.45E-03
VIP		other	1.432	2.47E-03
Pkg		group		2.55E-03
DYRK1A	-0.087	kinase		2.55E-03
PTPN3	-0.394	phosphatase		2.55E-03
U0126		chemical - kinase inhibitor	-0.256	2.64E-03
SB 216763		chemical toxicant	1.067	2.65E-03
vincristine		chemical drug		2.65E-03
EGR1	-0.161	transcription regu- lator	Inhibited -2.376	2.71E-03
RRP1B	0.008	transcription regu- lator		2.71E-03
POU4F1		transcription regu- lator		2.71E-03
ZNF217	0.203	transcription regu- lator	-1.000	2.72E-03
H89		chemical - kinase inhibitor	-1.091	2.75E-03
streptozocin		chemical drug	0.951	2.80E-03
ADRA1B	-0.046	G-protein coupled receptor		2.87E-03
ADRA1D		G-protein coupled receptor		2.87E-03
dinoprost		chemical - endog- enous mammalian	0.399	2.88E-03
Rb		group		2.88E-03
RBL1	-1.350	transcription regu- lator		2.88E-03
AICAR		chemical - endog- enous mammalian	-0.132	2.88E-03
PRKCD	-0.687	kinase	0.000	2.89E-03
NOS2		enzyme	1.067	2.89E-03
Insulin		group	0.046	2.89E-03

PD184352		chemical drug		2.90E-03
CEBPB	0.701	transcription regu- lator	1.611	2.95E-03
losartan potassium		chemical drug	-1.387	2.96E-03
PRKCE	0.249	kinase	0.327	3.05E-03
HIF1A	0.604	transcription regu- lator	0.908	3.07E-03
RDH10	-0.216	enzyme		3.18E-03
ASCL2		transcription regu- lator		3.18E-03
HCRT		other		3.18E-03
ABCC4	1.291	transporter		3.18E-03
FERMT1	-0.688	other		3.18E-03
PROK1		growth factor		3.18E-03
casticin		chemical - endog- enous non- mammalian		3.18E-03
DVL2	-0.053	other		3.18E-03
VGF		growth factor		3.18E-03
gliotoxin		chemical toxicant		3.18E-03
Muscarinic cholinergic receptor		group		3.18E-03
androstenedione		chemical - endog- enous mammalian		3.18E-03
DNMT3A	0.042	enzyme	0.956	3.19E-03
TGFB3	0.513	growth factor	0.970	3.24E-03
PRL		cytokine	0.736	3.27E-03
GATA6	0.052	transcription regu- lator	-0.384	3.28E-03
risperidone		chemical drug		3.29E-03
Ikb		group		3.29E-03
UCN	-0.082	other		3.29E-03
DRAP1	-0.694	transcription regu- lator		3.29E-03
tetrachlorodibenzodioxin		chemical toxicant	-0.225	3.33E-03
RETN		other	1.015	3.34E-03
TEAD2	-0.194	transcription regu- lator		3.34E-03
IKBKB	-0.416	kinase	Activated 2.578	3.35E-03
melatonin		chemical - endog- enous mammalian	-1.172	3.38E-03
RETNLB		other	-0.447	3.40E-03
TGFA	0.122	growth factor	0.831	3.59E-03
ADRA1A		G-protein coupled receptor		3.59E-03
kainic acid		chemical toxicant	0.896	3.69E-03
UCN-01		chemical drug		3.70E-03
MTPN	0.213	transcription regu- lator	-0.555	3.78E-03
cobalt chloride		chemical reagent	-0.039	3.78E-03
NRAS	-0.113	enzyme		3.83E-03
CBX5	-0.382	transcription regu-	-0.447	3.84E-03

		lactor		
CDKN1B	0.270	kinase	-0.084	3.84E-03
cholecalciferol		chemical - endogenous mammalian	1.595	3.84E-03
PML	-0.126	transcription regulator	0.954	4.09E-03
atrazine		chemical toxicant		4.21E-03
NELFCD	0.100	other		4.21E-03
SULT2B1		enzyme		4.21E-03
S100a7a		other		4.21E-03
NUP155	-0.709	transporter		4.21E-03
DES		other		4.21E-03
DIABLO	0.227	other		4.21E-03
dantrolene		chemical drug		4.21E-03
raclopride		chemical drug		4.21E-03
alpha-tocopherol succinate		chemical drug		4.21E-03
N,N-dimethylarginine		chemical - endogenous mammalian		4.21E-03
resveratrol		chemical drug	0.789	4.27E-03
3M-002		chemical reagent	0.000	4.34E-03
E2F1	-0.878	transcription regulator	-0.854	4.39E-03
SMO	0.128	G-protein coupled receptor		4.41E-03
PTPRJ	0.753	phosphatase	1.000	4.44E-03
ARNT	0.025	transcription regulator		4.52E-03
IL1		group	1.061	4.53E-03
SP600125		chemical - kinase inhibitor	0.263	4.59E-03
CPE	0.941	peptidase		4.62E-03
isoflurane		chemical drug		4.62E-03
GNAS	-0.202	enzyme		4.75E-03
SAFB	-0.171	other		4.75E-03
INSR	0.580	kinase	1.980	4.80E-03
TWIST1	-0.532	transcription regulator	1.134	4.84E-03
MAPK9	-0.349	kinase	0.896	4.84E-03
chenodeoxycholic acid		chemical - endogenous mammalian	1.446	4.87E-03
CCL2		cytokine	0.271	4.87E-03
NFYA	-0.126	transcription regulator		4.87E-03
leukotriene D4		chemical - endogenous mammalian	1.131	5.07E-03
NLRP3	0.989	other	1.109	5.11E-03
LEP		growth factor	-0.470	5.12E-03
PRKAR2B	0.267	kinase		5.12E-03
titanium dioxide		chemical drug		5.12E-03
SMAD3	-0.355	transcription regulator	0.479	5.33E-03

<b>garcinol</b>		chemical - endog- enous non- mammalian	-0.447	5.36E-03
<b>novobiocin</b>		chemical drug		5.36E-03
<b>Mir218</b>		microRNA		5.36E-03
<b>Pde</b>		group		5.36E-03
<b>bendamustine</b>		chemical drug		5.36E-03
<b>SAV1</b>	-0.304	other		5.36E-03
<b>SERPINB2</b>		other		5.36E-03
<b>NELFA</b>	-0.122	other		5.36E-03
<b>MC1R</b>	0.435	G-protein coupled receptor		5.36E-03
<b>SRD5A1</b>	-0.442	enzyme		5.36E-03
<b>NELFE</b>	-0.200	other		5.36E-03
<b>benazepril</b>		chemical drug		5.36E-03
<b>BIRC5</b>	-1.547	other		5.40E-03
<b>EBI3</b>		cytokine	1.067	5.40E-03
<b>CHUK</b>	0.003	kinase	Activated 2.158	5.58E-03
<b>hydrogen peroxide</b>		chemical - endog- enous mammalian	1.339	5.58E-03
<b>S100A6</b>	-0.280	transporter		5.66E-03
<b>letrozole</b>		chemical drug		5.66E-03
<b>NOTCH3</b>	0.672	transcription regu- lator		5.76E-03
<b>luteolin</b>		chemical drug		5.76E-03
<b>RASSF1</b>	-0.751	other	Activated 2.200	5.89E-03
<b>KLF11</b>	-0.514	transcription regu- lator		5.91E-03
<b>MAPK8</b>	0.084	kinase	1.452	6.06E-03
<b>pioglitazone</b>		chemical drug	-1.351	6.06E-03
<b>CCL11</b>		cytokine	-1.977	6.12E-03
<b>EGFR</b>	0.108	kinase	-0.351	6.16E-03
<b>SLC13A1</b>		transporter	1.342	6.16E-03
<b>vinblastine</b>		chemical drug		6.23E-03
<b>THRB</b>	0.122	ligand-dependent nuclear receptor		6.39E-03
<b>LIF</b>	0.228	cytokine	0.426	6.39E-03
<b>emodin</b>		chemical drug	0.577	6.50E-03
<b>CSF1</b>	-0.590	cytokine	-1.942	6.57E-03
<b>6-mercaptopurine</b>		chemical drug		6.65E-03
<b>O6-benzylguanine</b>		chemical drug		6.65E-03
<b>niclosamide</b>		chemical drug		6.65E-03
<b>PF-3084014</b>		chemical drug		6.65E-03
<b>RANBP9</b>	0.007	other		6.65E-03
<b>TFR2</b>		transporter		6.65E-03
<b>SIK1/SIK1B</b>	1.156	kinase		6.65E-03
<b>premarin</b>		chemical drug		6.65E-03
<b>farglitazar</b>		chemical drug		6.65E-03
<b>levamisole</b>		chemical drug		6.65E-03
<b>PDLIM2</b>	-0.069	other	-0.277	6.74E-03
<b>miR-146a-5p (and other miRNAs w/seed)</b>		mature microRNA	1.342	6.74E-03



<b>GAGAACU)</b>					
<b>FGFR1</b>	-0.510	kinase	-1.000	6.74E-03	
<b>mir-223</b>		microRNA	1.387	6.84E-03	
<b>SRSF1</b>	-0.235	other		6.84E-03	
<b>PRKAR1A</b>	0.279	kinase		6.84E-03	
<b>betulinic acid</b>		chemical drug		6.84E-03	
<b>vorinostat</b>		chemical drug	1.269	6.96E-03	
<b>Ca2+</b>		chemical - endogenous mammalian	0.878	6.96E-03	
<b>PPIF</b>	-0.121	enzyme	-1.342	7.04E-03	
<b>HDAC2</b>	-0.126	transcription regulator	1.000	7.34E-03	
<b>ATF3</b>	-0.977	transcription regulator	0.594	7.35E-03	
<b>grape seed extract</b>		chemical drug		7.48E-03	
<b>NPY</b>	1.834	other		7.48E-03	
<b>NOSTRIN</b>	1.067	transcription regulator		7.48E-03	
<b>olanzapine</b>		chemical drug	-0.365	7.68E-03	
<b>Ifn gamma</b>		complex	1.446	8.01E-03	
<b>C9orf72</b>	0.079	other		8.06E-03	
<b>vismodegib</b>		chemical drug		8.06E-03	
<b>TCF21</b>		transcription regulator		8.06E-03	
<b>TBX1</b>		transcription regulator		8.06E-03	
<b>HLF</b>		transcription regulator		8.06E-03	
<b>S100A7</b>		other		8.06E-03	
<b>STMN1</b>	-0.915	other		8.06E-03	
<b>CA074-methyl ester</b>		chemical reagent		8.06E-03	
<b>puerarin</b>		chemical drug		8.06E-03	
<b>canrenoate potassium</b>		chemical drug		8.06E-03	
<b>IKBKG</b>	0.021	kinase	Activated	2.425	8.14E-03
<b>NRG1</b>	0.453	growth factor		1.421	8.50E-03
<b>topotecan</b>		chemical drug		0.239	8.66E-03
<b>STAT5a/b</b>		group		-0.757	8.70E-03
<b>epigallocatechin-gallate</b>		chemical drug		0.674	8.72E-03
<b>ZBED6</b>	0.175	transcription regulator			8.86E-03
<b>PAK1</b>	-0.567	kinase			8.86E-03
<b>alvocidib</b>		chemical drug			8.86E-03
<b>15-deoxy-delta-12,14 -PGJ 2</b>		chemical - endogenous mammalian	-0.349		8.91E-03
<b>HRAS</b>	-0.035	enzyme	-1.485		9.04E-03
<b>12-(3-adamantan-1-yl-ureido) dodecanoic acid</b>		chemical reagent	0.577		9.13E-03
<b>folic acid</b>		chemical - endogenous mammalian	0.218		9.13E-03
<b>PGR</b>	0.181	ligand-dependent nuclear receptor	1.910		9.14E-03

ionomycin		chemical reagent	0.118	9.16E-03
PTEN	0.153	phosphatase	1.856	9.17E-03
2-amino-5-phosphonovaleric acid		chemical - other    Inhibited	-2.433	9.30E-03
prednisolone		chemical drug    Activated	2.121	9.39E-03
embelin		chemical - endogenous non-mammalian		9.59E-03
WP1066		chemical drug		9.59E-03
WWC1	0.748	transcription regulator		9.59E-03
RGS2	1.819	other		9.59E-03
PRAME	-0.124	other		9.59E-03
HSF4	0.211	transcription regulator		9.59E-03
CDH5		other		9.59E-03
quinacrine		chemical drug		9.59E-03
nordihydroguaiaretic acid		chemical drug		9.59E-03
CYP27B1	-0.002	enzyme		9.60E-03
sildenafil		chemical drug		9.60E-03
sulindac		chemical drug		9.62E-03
cytarabine		chemical drug		9.62E-03
lovastatin		chemical drug	-0.035	9.92E-03
HAND2	0.522	transcription regulator		1.01E-02
SMARCA2	0.029	transcription regulator		1.01E-02
sodium chloride		chemical - endogenous mammalian	1.995	1.01E-02
NFATC1	-0.411	transcription regulator	-0.061	1.02E-02
PDX1		transcription regulator	-1.000	1.02E-02
ethanol		chemical - endogenous mammalian	-0.497	1.03E-02
8-bromoguanosine 3',5'-cyclic monophosphate		chemical - kinase inhibitor		1.04E-02
IL27		cytokine    Activated	2.391	1.06E-02
IL15	0.308	cytokine	0.858	1.06E-02
estradiol benzoate		chemical drug		1.07E-02
camptothecin		chemical drug	-1.255	1.08E-02
CCN2	0.329	growth factor	1.067	1.10E-02
Akt		group	-1.231	1.11E-02
STAT5A	0.995	transcription regulator		1.11E-02
bortezomib		chemical drug	0.375	1.11E-02
MSX2	-0.942	transcription regulator		1.12E-02
Yaf2		transcription regulator		1.12E-02
4-methylnitrosoamino-1-(3-pyridinyl)-1-butanone		chemical toxicant		1.12E-02

lipoteichoic acid		chemical - endogenous non-mammalian		1.12E-02
D-alpha-tocopheryl succinate		chemical reagent		1.12E-02
YWHAQ	-0.361	other		1.12E-02
CTSG		peptidase		1.12E-02
RBP1	0.329	transporter		1.12E-02
BHLHE41	-0.526	transcription regulator		1.12E-02
phencyclidine		chemical drug		1.12E-02
hormone		chemical drug		1.12E-02
maxacalcitol		chemical drug		1.12E-02
estrogen receptor		group	-0.113	1.14E-02
SMAD4	-0.013	transcription regulator	-0.762	1.14E-02
bexarotene		chemical drug	0.174	1.14E-02
thapsigargin		chemical toxicant	0.033	1.14E-02
IFNG		cytokine	Activated 2.018	1.14E-02
CREBBP	-0.151	transcription regulator		1.15E-02
MAP2K1	0.081	kinase	-0.218	1.17E-02
mir-34		microRNA	1.924	1.18E-02
AKT1	-0.157	kinase		1.18E-02
fatty acid		chemical - endogenous mammalian	1.951	1.19E-02
NQO1	-0.014	enzyme		1.20E-02
mevalonic acid		chemical - endogenous mammalian		1.20E-02
CEBPA	-0.450	transcription regulator	0.680	1.23E-02
GATA1		transcription regulator	0.000	1.26E-02
endocannabinoid		chemical - endogenous mammalian		1.26E-02
ZYG11B	0.076	other		1.26E-02
Ca2 ATPase		group		1.26E-02
Hdac1/2		group		1.26E-02
SNHG1	-0.570	other		1.26E-02
mecarazole		chemical drug		1.26E-02
sodium thiosulfate		chemical drug		1.26E-02
CYP2R1	-0.326	enzyme		1.26E-02
FBXL7	0.069	enzyme		1.26E-02
HJURP	-1.722	other		1.26E-02
DNAJA4	-0.671	other		1.26E-02
RGN		enzyme		1.26E-02
CD3-TCR		complex		1.26E-02
SNHG7	0.002	other		1.26E-02
ASPSCR1	0.061	other		1.26E-02
MARCH6	0.333	enzyme		1.26E-02
SGMS2	-0.340	enzyme		1.26E-02
linsitinib		chemical drug		1.26E-02

HSPA6		enzyme	1.26E-02
ASB7	0.342	other	1.26E-02
JPH2	-0.697	enzyme	1.26E-02
SIRT5	0.172	enzyme	1.26E-02
METAP2	-0.169	peptidase	1.26E-02
ZYG11A	-1.117	other	1.26E-02
amuvatinib		chemical drug	1.26E-02
proprotein convertase		group	1.26E-02
voxtalisib		chemical drug	1.26E-02
TNNC1		other	1.26E-02
NAPA	0.124	transporter	1.26E-02
miR-302b-5p (and other miRNAs w/seed CUUUAAC)		mature microRNA	1.26E-02
miR-381-3p (and other miRNAs w/seed AUACAAG)		mature microRNA	1.26E-02
miR-181a-1-3p (and other miRNAs w/seed CCAUCGA)		mature microRNA	1.26E-02
mir-463		microRNA	1.26E-02
mir-340		microRNA	1.26E-02
mir-471		microRNA	1.26E-02
DYNLT3	0.314	other	1.26E-02
SCD5	0.091	enzyme	1.26E-02
KCNA1		ion channel	1.26E-02
TNR		other	1.26E-02
NUDT21	-0.566	other	1.26E-02
DSG2	-0.048	other	1.26E-02
RIT1	-0.031	enzyme	1.26E-02
TBXAS1	-0.933	enzyme	1.26E-02
MPT0B214		chemical reagent	1.26E-02
CDC23	-0.374	enzyme	1.26E-02
ITIH4		other	1.26E-02
SIRT1/2 inhibitor VII		chemical reagent	1.26E-02
TPD52	0.426	other	1.26E-02
ALYREF	-0.718	transcription regulator	1.26E-02
COX7A2	-0.057	enzyme	1.26E-02
HMGN5	0.426	transcription regulator	1.26E-02
pharmacoperone IN3		chemical reagent	1.26E-02
IGHMBP2	0.082	enzyme	1.26E-02
SR11256		chemical reagent	1.26E-02
CWP232228		chemical reagent	1.26E-02
chlordan		chemical toxicant	1.26E-02
proadifen		chemical reagent	1.26E-02
guanethidine		chemical drug	1.26E-02
darifenacin		chemical drug	1.26E-02
2,5-dihydroxymethylcinnamate		chemical - kinase inhibitor	1.26E-02
benomyl		chemical toxicant	1.26E-02
EPI-002		chemical reagent	1.26E-02
melarsoprol		chemical drug	1.26E-02

trichlorfon		chemical toxicant		1.26E-02
fadrozole		chemical drug		1.26E-02
hedamycin		chemical reagent		1.26E-02
gallamine triethiodide		chemical drug		1.26E-02
AuNP@PEG@e14a2		chemical reagent		1.26E-02
BMS200261		chemical reagent		1.26E-02
Gly-Gln		chemical reagent		1.26E-02
2,3-dichloro-5,8-dihydroxy-1,4-naphthoquinone		chemical toxicant		1.26E-02
alcuronium		chemical drug		1.26E-02
becaplermin		biologic drug		1.26E-02
hydrocortisone phosphate		chemical drug		1.26E-02
6alpha-fluorotestosterone		chemical toxicant		1.26E-02
PI3K (complex)		complex	-0.822	1.28E-02
ATP7B	0.907	transporter		1.29E-02
NR2F1	-0.528	ligand-dependent nuclear receptor		1.29E-02
cyclopamine		chemical reagent		1.29E-02
GNA14		enzyme		1.30E-02
miR-141-3p (and other miRNAs w/seed AACACUG)		mature microRNA	-0.061	1.30E-02
tyrphostin AG 1478		chemical - kinase inhibitor	-0.057	1.30E-02
PKD1	0.141	ion channel	-1.664	1.30E-02
GON4L	-0.010	transcription regulator		1.30E-02
Ptprd		phosphatase		1.30E-02
PECAM1	-0.669	other		1.30E-02
Betacatenin/TCF		complex		1.30E-02
NDUFA13	-0.035	enzyme		1.30E-02
IQGAP2	-0.412	other		1.30E-02
TGFBR3	-0.384	kinase		1.30E-02
cetrorelix		biologic drug		1.30E-02
aphidicolin		chemical toxicant		1.30E-02
selenite		chemical toxicant		1.30E-02
zeranol		chemical - endogenous mammalian		1.30E-02
noscapine		chemical drug		1.30E-02
growth factor		group		1.30E-02
onapristone		chemical drug		1.30E-02
SOX1		transcription regulator	0.000	1.36E-02
tacrolimus		chemical drug	-0.000	1.36E-02
EDN1	1.834	cytokine	0.650	1.36E-02
CEACAM1		transporter		1.38E-02
DACH1	0.208	transcription regulator		1.38E-02
FLT3		kinase		1.38E-02
LG100268		chemical reagent		1.38E-02
REST	-0.046	transcription regulator	-1.032	1.39E-02

<b>black raspberry extract</b>		chemical drug	1.42E-02
<b>hyaluronic acid</b>		chemical - endogenous mammalian	-0.520 1.47E-02
<b>NR0B1</b>		ligand-dependent nuclear receptor	1.48E-02
<b>benzyl isothiocyanate</b>		chemical - endogenous non-mammalian	1.48E-02
<b>Bvht</b>		other	1.000 1.49E-02
<b>NTRK2</b>		kinase	1.49E-02
<b>lonafarnib</b>		chemical drug	1.49E-02
<b>1'-acetoxychavicol acetate</b>		chemical reagent	1.49E-02
<b>miR-19b-3p (and other miRNAs w/seed GUGCAAA)</b>		mature microRNA	1.49E-02
<b>mir-199</b>		microRNA	1.49E-02
<b>mir-154</b>		microRNA	1.49E-02
<b>RFX5</b>	0.211	transcription regulator	1.49E-02
<b>perindopril</b>		chemical drug	1.49E-02
<b>pyridoxine</b>		chemical - endogenous mammalian	1.49E-02
<b>asiatic acid</b>		chemical reagent	1.49E-02
<b>24-hydroxycholesterol</b>		chemical - endogenous mammalian	1.49E-02
<b>MAP2K6</b>	0.190	kinase	1.55E-02
<b>triptolide</b>		chemical drug	1.55E-02
<b>epinephrine</b>		chemical - endogenous mammalian	1.55E-02
<b>NAMPT</b>	0.274	cytokine	1.58E-02
<b>CD2</b>		transmembrane receptor	1.58E-02
<b>NFYC</b>	-0.108	transcription regulator	1.58E-02
<b>NKX2-5</b>		transcription regulator	1.58E-02
<b>HOXC6</b>	-0.042	transcription regulator	1.58E-02
<b>testosterone</b>		chemical - endogenous mammalian	1.569 1.61E-02
<b>paclitaxel</b>		chemical drug	0.330 1.62E-02
<b>PD173074</b>		chemical reagent	1.000 1.62E-02
<b>Notch</b>		group	1.62E-02
<b>AHR</b>	0.290	ligand-dependent nuclear receptor	0.861 1.63E-02
<b>isobutylmethylxanthine</b>		chemical toxicant	1.812 1.66E-02
<b>ACVR1</b>	-0.009	kinase	1.68E-02
<b>GABPA</b>	0.024	transcription regulator	1.68E-02
<b>GSK2816126</b>		chemical drug	1.68E-02
<b>CDK2AP1</b>	-0.237	other	1.68E-02
<b>baicalein</b>		chemical drug	1.68E-02

CGB3 (includes others)		other		1.69E-02
CHEK2	-0.275	kinase		1.69E-02
NKX6-1	-0.861	transcription regu- lator		1.69E-02
HDAC9	-0.294	transcription regu- lator		1.69E-02
CBX3	-0.228	transcription regu- lator		1.69E-02
aroclor 1254		chemical toxicant		1.69E-02
4-nitroquinoline-1-oxide		chemical toxicant		1.69E-02
cystamine		chemical drug		1.69E-02
27-hydroxycholesterol		chemical - endog- enous mammalian		1.69E-02
staurosporine		chemical - kinase inhibitor	1.446	1.69E-02
oleic acid		chemical - endog- enous mammalian	-1.432	1.69E-02
ROR2	0.256	kinase		1.69E-02
IgG		complex	-0.697	1.74E-02
VCAN	0.527	other	0.000	1.74E-02
EIF4E	-0.132	translation regula- tor	-1.342	1.74E-02
1,4-bis[2-(3,5-dichloropyridyloxy)]benzene		chemical toxicant	-0.322	1.74E-02
SP2509		chemical reagent   Activated	3.000	1.75E-02
SOX2		transcription regu- lator	1.067	1.78E-02
ANGPT1	1.770	growth factor		1.79E-02
ILK	-0.200	kinase		1.79E-02
advanced glycation end-products		chemical - endog- enous mammalian		1.79E-02
MECP2	0.115	transcription regu- lator		1.80E-02
metformin		chemical drug   Inhibited	-2.200	1.83E-02
MYC	-0.071	transcription regu- lator   Inhibited	-2.976	1.84E-02
SOX3		transcription regu- lator	0.000	1.84E-02
ciglitazone		chemical drug		1.84E-02
N-Ac-Leu-Leu-norleucinal		chemical - prote- ase inhibitor		1.84E-02
R5020		chemical reagent		1.84E-02
methylprednisolone		chemical drug	1.930	1.86E-02
AMPK		complex	1.131	1.86E-02
MYB		transcription regu- lator	-0.839	1.88E-02
cryptotanshinone		chemical drug		1.90E-02
Angiotensin II receptor type 1		group		1.90E-02
GIP		other		1.90E-02
MXI1	0.357	transcription regu- lator		1.90E-02
DAXX	-0.402	transcription regu-		1.90E-02

		lactor		
<b>IL19</b>		cytokine		1.90E-02
<b>actinonin</b>		chemical reagent		1.90E-02
<b>zearalenone</b>		chemical toxicant		1.90E-02
<b>K+</b>		chemical - endogenous mammalian		1.90E-02
<b>valproic acid</b>		chemical drug	0.743	1.91E-02
<b>celecoxib</b>		chemical drug	1.683	1.92E-02
<b>NOTCH1</b>	-0.130	transcription regulator	-0.304	1.95E-02
<b>Jnk</b>		group	0.342	1.99E-02
<b>spironolactone</b>		chemical drug	-1.000	2.00E-02
<b>SMAD1</b>	-0.239	transcription regulator		2.01E-02
<b>KAT6A</b>	-0.030	enzyme		2.01E-02
<b>ABCA1</b>	0.227	transporter		2.01E-02
<b>Foxp1</b>		transcription regulator		2.01E-02
<b>GMNN</b>	-1.018	transcription regulator	0.000	2.08E-02
<b>TRAF2</b>	-0.397	enzyme	-1.987	2.08E-02
<b>TFRC</b>	0.097	transporter		2.08E-02
<b>FGF1</b>	-1.644	growth factor	-0.669	2.11E-02
<b>Fgfr</b>		group		2.12E-02
<b>Pdgf Ab</b>		complex		2.12E-02
<b>hemoglobin</b>		complex		2.12E-02
<b>S100B</b>		other		2.12E-02
<b>CDK1</b>	-1.310	kinase		2.12E-02
<b>PLCG2</b>		enzyme		2.12E-02
<b>ARHGDIG</b>		other		2.12E-02
<b>ITGA6</b>	-0.430	transmembrane receptor		2.12E-02
<b>KLRC4-KLRK1/KLRK1</b>		transmembrane receptor		2.12E-02
<b>ACTN4</b>	-0.361	transcription regulator		2.12E-02
<b>NCR2</b>		transmembrane receptor		2.12E-02
<b>antimycin A</b>		chemical - endogenous non-mammalian		2.12E-02
<b>sertraline</b>		chemical drug		2.12E-02
<b>glycyrrhetic acid</b>		chemical drug		2.12E-02
<b>pilocarpine</b>		chemical drug		2.12E-02
<b>Sb202190</b>		chemical - kinase inhibitor	-1.400	2.17E-02
<b>5-O-myceryl-beta-araf-(1-&gt;2)-5-O-myceryl-alpha-araf-(1-&gt;1')-glycerol</b>		chemical - endogenous non-mammalian	1.000	2.25E-02
<b>FGF19</b>		growth factor		2.25E-02
<b>lithium</b>		chemical drug	-1.992	2.25E-02



TP63		transcription regu- lator	-0.694	2.32E-02
EPAS1	-0.008	transcription regu- lator	0.051	2.32E-02
Z-LLL-CHO		chemical - prote- ase inhibitor	-1.020	2.33E-02
flutamide		chemical drug		2.34E-02
TLX3		transcription regu- lator		2.35E-02
TET3	-0.549	enzyme		2.35E-02
artesunic acid		chemical drug		2.35E-02
CCK		other		2.35E-02
miR-486-5p (and other miRNAs w/seed CCUGUAC)		mature microRNA		2.35E-02
GAS5	-0.039	other		2.35E-02
WWOX	-0.291	enzyme		2.35E-02
EPHA2	-0.189	kinase		2.35E-02
isoprenaline		chemical drug		2.35E-02
riboflavin		chemical - endog- enous mammalian		2.35E-02
baicalin		chemical - endog- enous non- mammalian		2.38E-02
ITGA5	-0.374	transmembrane receptor		2.38E-02
MAPK7	-0.156	kinase		2.38E-02
ERBB4	0.533	kinase	-1.964	2.42E-02
CSF3		cytokine	-1.720	2.43E-02
5,6-epoxyeicosatrienoic acid		chemical - endog- enous mammalian		2.50E-02
(6E,8Z,11Z,14Z)-(5S)-5-hydroperoxyeicosa- 6,8,11,14-tetraenoic acid		chemical - endog- enous mammalian		2.50E-02
minoxidil		chemical drug		2.50E-02
4-aminopyrazolo(3,4-d)pyrimidine		chemical reagent		2.50E-02
purvalanol A		chemical reagent		2.50E-02
amikacin		chemical drug		2.50E-02
7beta-hydroxycholesterol		chemical - endog- enous mammalian		2.50E-02
MICU1	0.239	other		2.50E-02
1,2-dibromo-3-chloropropane		chemical toxicant		2.50E-02
GST		complex		2.50E-02
vildagliptin		chemical drug		2.50E-02
AEOL-10150		chemical drug		2.50E-02
glemanserin		chemical drug		2.50E-02
macimorelin		biologic drug		2.50E-02
thymol		chemical reagent		2.50E-02
Rab11		group		2.50E-02
MTNR1A		G-protein coupled receptor		2.50E-02
USP15	0.145	peptidase		2.50E-02
PCDH9	0.341	other		2.50E-02

hyperoside		chemical - endogenous non-mammalian	2.50E-02
SENP8	-0.549	peptidase	2.50E-02
DENND1A	0.263	other	2.50E-02
alpha-adrenergic receptor		group	2.50E-02
CP	0.359	enzyme	2.50E-02
MTNR1B		G-protein coupled receptor	2.50E-02
TBX4		transcription regulator	2.50E-02
Hat		complex	2.50E-02
AHSA1	0.017	other	2.50E-02
soy isoflavones		chemical drug	2.50E-02
adrenoceptor		group	2.50E-02
CHIR-124		chemical reagent	2.50E-02
1-(3-C-ethynylribopentofuranosyl)cytosine		chemical drug	2.50E-02
LY 518674		chemical drug	2.50E-02
bucillamine		chemical drug	2.50E-02
STAT-1/2		group	2.50E-02
CACYBP	-0.208	other	2.50E-02
safflor yellow B		chemical - endogenous non-mammalian	2.50E-02
NOSIP	-0.170	other	2.50E-02
KCNJ5		ion channel	2.50E-02
NPBWR1		G-protein coupled receptor	2.50E-02
AFM		transporter	2.50E-02
DAPK3	-0.112	kinase	2.50E-02
HPGD	0.664	enzyme	2.50E-02
SYCP3	0.493	other	2.50E-02
miR-344d-3p (and other miRNAs w/seed AUAUAAC)		mature microRNA	2.50E-02
miR-292-3p (and other miRNAs w/seed AGUGCCG)		mature microRNA	2.50E-02
mir-370		microRNA	2.50E-02
mir-153		microRNA	2.50E-02
lynestrenol		chemical drug	2.50E-02
CCNG1	0.005	other	2.50E-02
HIF1A-AS1	0.601	other	2.50E-02
PIM		group	2.50E-02
ECE1	0.018	peptidase	2.50E-02
PFN2	-0.096	enzyme	2.50E-02
HIPK3	0.364	kinase	2.50E-02
PLIN3	-0.119	other	2.50E-02
MUC16		other	2.50E-02
cyclo(iso-Asp-GR)-LLIIKLAKLAKKLAKLAK		chemical reagent	2.50E-02
NTSR2		G-protein coupled receptor	2.50E-02

SVIL	-0.317	other	2.50E-02
TH		enzyme	2.50E-02
GPBP1	-0.145	transcription regu- lator	2.50E-02
PRIMA1		other	2.50E-02
PNRC1	0.397	other	2.50E-02
NEU2		enzyme	2.50E-02
UBE2V1	-0.078	transcription regu- lator	2.50E-02
Gm4836 (includes others)		other	2.50E-02
APOC1	0.694	transporter	2.50E-02
RFX4		transcription regu- lator	2.50E-02
VNN1		enzyme	2.50E-02
3830403N18Rik/Xlr		other	2.50E-02
securinine		chemical reagent	2.50E-02
gamma-secretase inhibitor XX		chemical reagent	2.50E-02
S7		chemical - kinase inhibitor	2.50E-02
SI163		chemical - kinase inhibitor	2.50E-02
S29		chemical - kinase inhibitor	2.50E-02
daphnoretin		chemical - endog- enous non- mammalian	2.50E-02
satavaptan		chemical drug	2.50E-02
thimerosal		chemical drug	2.50E-02
XK469		chemical drug	2.50E-02
talipexole		chemical drug	2.50E-02
AN-207		chemical toxicant	2.50E-02
SSR180575		chemical drug	2.50E-02
SD-1008		chemical - kinase inhibitor	2.50E-02
lavendustin A		chemical - kinase inhibitor	2.50E-02
endomorphin-2		chemical - endog- enous mammalian	2.50E-02
isoalantolactone		chemical - endog- enous non- mammalian	2.50E-02
ingenol-dibenzoate		chemical reagent	2.50E-02
swainsonine		chemical - endog- enous non- mammalian	2.50E-02
N-methylscopolamine		chemical drug	2.50E-02
3-keto, N-aminoethyl aminocaproyl dihy- drocinnamoyl cyclopamine		chemical reagent	2.50E-02
22-hydroxycholesterol		chemical - endog- enous mammalian	2.50E-02
RARG	-0.010	ligand-dependent	2.52E-02

		nuclear receptor		
TGFB1	0.615	kinase	1.172	2.52E-02
APP	0.340	other	1.228	2.53E-02
mir-486		microRNA		2.58E-02
AXIN1	0.067	other		2.58E-02
GABPB1	-0.136	transcription regulator		2.58E-02
LY6E	-0.120	other		2.58E-02
NAB2	0.002	transcription regulator		2.58E-02
finasteride		chemical drug		2.58E-02
miR-291a-3p (and other miRNAs w/seed AAGUGCU)		mature microRNA	0.854	2.61E-02
methimazole		chemical drug		2.64E-02
9,10-dimethyl-1,2-benzanthracene		chemical toxicant		2.64E-02
cyclosporin A		biologic drug	-0.785	2.76E-02
POU5F1		transcription regulator	0.025	2.80E-02
phorbol esters		chemical - other	-0.371	2.80E-02
phosphate		chemical - endogenous mammalian	-1.091	2.80E-02
salinosporamide A		chemical drug		2.83E-02
DCAF1	-0.017	kinase		2.83E-02
PRDM16	1.506	transcription regulator		2.83E-02
XRCC6	-0.304	enzyme		2.83E-02
mir-26		microRNA		2.83E-02
SOCS6	0.161	other		2.83E-02
linalool		chemical - endogenous non-mammalian		2.83E-02
NFAT5	0.021	transcription regulator	1.000	2.90E-02
SYVN1	0.455	transporter	-0.447	2.90E-02
bromodeoxyuridine		chemical drug		2.91E-02
ADM		other		2.91E-02
salirasib		chemical drug		2.91E-02
n-nitrosomethylbenzylamine		chemical toxicant		2.98E-02
YBX1	-0.304	transcription regulator		3.00E-02
OGT	0.251	enzyme	-1.000	3.00E-02
IL5		cytokine	-1.488	3.00E-02
DETA-NONOate		chemical reagent		3.06E-02
PARPBP	-0.910	other		3.09E-02
EIF4G1	-0.090	translation regulator		3.09E-02
GADD45A	-0.783	other		3.09E-02
CCN3	1.415	growth factor		3.09E-02
GRN	0.251	growth factor		3.09E-02
IL15RA	-0.558	transmembrane receptor		3.09E-02

wogonin		chemical - endogenous non-mammalian		3.09E-02
CALCA		other		3.11E-02
KMT2A	-0.010	transcription regulator		3.11E-02
ITGB1	0.263	transmembrane receptor	-0.786	3.15E-02
quercetin		chemical drug	0.757	3.15E-02
CLEC11A	0.102	growth factor		3.20E-02
SIRT1	-0.191	transcription regulator	1.480	3.27E-02
bezafibrate		chemical drug	-0.927	3.32E-02
THPO		cytokine		3.35E-02
vitamin D		chemical drug		3.35E-02
pregna-4.17-diene-3.16-dione		chemical - endogenous non-mammalian		3.36E-02
FAM3B		cytokine		3.36E-02
oxymatrine		chemical drug		3.36E-02
MAP2K5	0.463	kinase		3.36E-02
CETP		enzyme		3.36E-02
desipramine		chemical drug		3.36E-02
evodiamine		chemical - endogenous non-mammalian		3.36E-02
diallyl trisulfide		chemical - endogenous non-mammalian		3.36E-02
CNR1		G-protein coupled receptor	1.387	3.40E-02
ritonavir		chemical drug		3.40E-02
aldosterone		chemical - endogenous mammalian Activated	2.128	3.40E-02
BMP6	0.397	growth factor	-0.659	3.43E-02
MTOR	0.056	kinase	0.640	3.44E-02
TLR9		transmembrane receptor	-0.179	3.47E-02
ID2	1.227	transcription regulator	0.577	3.50E-02
MAPKAPK2	0.272	kinase		3.51E-02
CEBPD	1.583	transcription regulator	0.192	3.54E-02
zerumbone		chemical - endogenous non-mammalian		3.63E-02
TRPS1	0.278	transcription regulator		3.63E-02
MAP3K3	0.038	kinase		3.63E-02
LCAT	0.151	enzyme		3.63E-02
diosgenin		chemical - endog-		3.63E-02

		enous non-mammalian	
<b>Pdgf (complex)</b>		complex	1.980
<b>POMC</b>		other	1.923
<b>MAP2K4</b>	-0.142	kinase	3.67E-02
<b>SCD</b>	0.309	enzyme	3.67E-02
<b>GW 4064</b>		chemical toxicant	3.67E-02
<b>CpG oligonucleotide</b>		chemical drug	3.67E-02
<b>thioguanine</b>		chemical drug	3.73E-02
<b>L-tyrosine</b>		chemical - endogenous mammalian	3.73E-02
<b>hyodeoxycholic acid</b>		chemical - endogenous mammalian	3.73E-02
<b>chloride</b>		chemical - endogenous mammalian	3.73E-02
<b>1-palmitoyl-2-arachidonoyl-phosphatidylcholine</b>		chemical - endogenous mammalian	3.73E-02
<b>ixabepilone</b>		chemical drug	3.73E-02
<b>Cyclin B</b>		group	3.73E-02
<b>lipoxygenase</b>		group	3.73E-02
<b>sethoxydim</b>		chemical toxicant	3.73E-02
<b>CFC1/CFC1B</b>		other	3.73E-02
<b>muraglitazar</b>		chemical drug	3.73E-02
<b>PRAG1</b>	-0.332	kinase	3.73E-02
<b>CADPS</b>		other	3.73E-02
<b>CLTRN</b>		other	3.73E-02
<b>FAM168A</b>	0.315	other	3.73E-02
<b>SOCS2-AS1</b>	-0.453	other	3.73E-02
<b>KLF14</b>		transcription regulator	3.73E-02
<b>LAPTM4B</b>	0.285	other	3.73E-02
<b>Integrin alpha 4 beta 1</b>		complex	3.73E-02
<b>STIL</b>	-1.140	other	3.73E-02
<b>EXOC3L1</b>	-0.627	other	3.73E-02
<b>CKLF</b>	-0.683	cytokine	3.73E-02
<b>Trk Receptor</b>		group	3.73E-02
<b>xenon</b>		chemical drug	3.73E-02
<b>defibrotide</b>		biologic drug	3.73E-02
<b>GEM231</b>		chemical drug	3.73E-02
<b>cerebrolysin</b>		chemical drug	3.73E-02
<b>RNF144B</b>	-0.456	enzyme	3.73E-02
<b>PAG1</b>	0.418	other	3.73E-02
<b>GSTA4</b>	-0.566	enzyme	3.73E-02
<b>ARID1B</b>	0.069	transcription regulator	3.73E-02
<b>MADD</b>	0.555	other	3.73E-02
<b>miR-136-5p (miRNAs w/seed CUCCAUU)</b>		mature microRNA	3.73E-02
<b>miR-376a-5p (miRNAs w/seed UAGAUUC)</b>		mature microRNA	3.73E-02
<b>mir-541</b>		microRNA	3.73E-02
<b>mir-379</b>		microRNA	3.73E-02
<b>miR-153-3p (miRNAs w/seed UGCAUAG)</b>		mature microRNA	3.73E-02

<b>mir-342</b>		microRNA	3.73E-02
<b>miR-224-5p (miRNAs w/seed AAGUCAC)</b>		mature microRNA	3.73E-02
<b>PYCR2</b>	-0.026	enzyme	3.73E-02
<b>SCN1B</b>	-0.103	ion channel	3.73E-02
<b>NRP2</b>	-0.041	kinase	3.73E-02
<b>BMP1</b>	-0.118	peptidase	3.73E-02
<b>N4BP1</b>	-0.169	other	3.73E-02
<b>S100A1</b>	-0.584	other	3.73E-02
<b>SOD3</b>	-0.160	enzyme	3.73E-02
<b>ANKRD1</b>	-0.763	transcription regu- lator	3.73E-02
<b>TRERF1</b>	0.332	transcription regu- lator	3.73E-02
<b>CCNL2</b>	-0.037	other	3.73E-02
<b>Cdkal1</b>		enzyme	3.73E-02
<b>MAP1S</b>	-0.225	enzyme	3.73E-02
<b>AP2A2</b>	0.038	transporter	3.73E-02
<b>EPHA4</b>	-0.519	kinase	3.73E-02
<b>VEZF1</b>	-0.169	transcription regu- lator	3.73E-02
<b>NR2F6</b>	0.000	ligand-dependent nuclear receptor	3.73E-02
<b>MT3</b>		other	3.73E-02
<b>Rbpjl2</b>		other	3.73E-02
<b>RPL10</b>	-0.022	translation regula- tor	3.73E-02
<b>BUB1B</b>	-1.945	kinase	3.73E-02
<b>IRX1</b>		transcription regu- lator	3.73E-02
<b>temocapril</b>		chemical reagent	3.73E-02
<b>nilutamide</b>		chemical drug	3.73E-02
<b>AA-861</b>		chemical reagent	3.73E-02
<b>glyceollin</b>		chemical - endog- enous non- mammalian	3.73E-02
<b>DL-threo-dihydrosphingosine</b>		chemical - kinase inhibitor	3.73E-02
<b>fosbretabulin</b>		chemical drug	3.73E-02
<b>pramipexole</b>		chemical drug	3.73E-02
<b>pirenzepine</b>		chemical drug	3.73E-02
<b>ethyl-3-trifluoromethylbenzyl-alpha- ketoglutarate</b>		chemical reagent	3.73E-02
<b>4-amino-6-hydrazino-7-beta-D- ribofuranosyl-7H-pyrrolo[2,3-d]-pyrimidine- 5-carboxamide</b>		chemical reagent	3.73E-02
<b>lead nitrate</b>		chemical toxicant	3.73E-02
<b>imisopasem manganese</b>		chemical drug	3.73E-02
<b>actinomycin</b>		chemical - endog- enous non- mammalian	3.73E-02
<b>L-JNK inhibitor I</b>		chemical reagent	3.73E-02

phosphoramidon		chemical - endogenous non-mammalian		3.73E-02
Z-LEHD-FMK		chemical reagent		3.73E-02
10-hydroxycamptothecin		chemical - endogenous mammalian		3.73E-02
physostigmine		chemical drug		3.73E-02
E64		chemical - endogenous non-mammalian		3.73E-02
D,L-propargylglycine		chemical reagent		3.73E-02
2R,4R-4-aminopyrrolidine-2,4-dicarboxylic acid		chemical reagent		3.73E-02
fosinopril		chemical drug		3.73E-02
megestrol acetate		chemical drug		3.73E-02
desogestrel		chemical drug		3.73E-02
TNFSF10	1.578	cytokine	1.309	3.77E-02
cephaloridine		chemical drug	0.000	3.77E-02
arachidonic acid		chemical - endogenous mammalian	1.217	3.77E-02
rosiglitazone		chemical drug	-1.223	3.80E-02
IL11	2.098	cytokine		3.83E-02
oxaliplatin		chemical drug		3.83E-02
sodium arsenite		chemical drug		3.83E-02
dibutyl phthalate		chemical toxicant		3.92E-02
plumbagin		chemical toxicant		3.92E-02
NMU	-0.622	other		3.92E-02
ACKR3	0.593	G-protein coupled receptor		3.92E-02
BAG1	0.851	other		3.92E-02
ochratoxin A		chemical toxicant		3.92E-02
kaempferol		chemical toxicant		3.92E-02
STAT2	0.285	transcription regulator		3.99E-02
CHD4	0.058	enzyme		3.99E-02
chloroquine		chemical drug		3.99E-02
NR1H2	0.314	ligand-dependent nuclear receptor	-0.147	4.01E-02
ID3	0.454	transcription regulator	1.000	4.06E-02
ERK1/2		group	-0.933	4.13E-02
F2R	0.158	G-protein coupled receptor	0.152	4.13E-02
PTF1A		transcription regulator		4.16E-02
MUC1	0.774	other		4.16E-02
mitomycin C		chemical drug		4.16E-02
Ngf		group		4.16E-02
SPRY1	0.700	other		4.21E-02
PLK2	0.041	kinase		4.21E-02
CASR		G-protein coupled		4.21E-02



		receptor		
CCNE1	-1.010	transcription regulator		4.21E-02
diazoxide		chemical drug		4.21E-02
cyanocobalamin		chemical - endogenous mammalian		4.21E-02
geranylgeranyl pyrophosphate		chemical - endogenous mammalian		4.21E-02
ELAVL1	-0.233	other	Inhibited	-2.216
STAT1	0.094	transcription regulator		0.798
SMAD7	-0.295	transcription regulator		0.555
MAP3K8	0.078	kinase	Activated	2.219
geldanamycin		chemical - endogenous non-mammalian		-1.342
miR-17-5p (and other miRNAs w/seed AAAGUGC)		mature microRNA		
E2F6	-0.200	transcription regulator		
RHO		G-protein coupled receptor		
SIN3A	-0.091	transcription regulator		
seocalcitol		chemical drug		
SNAI1		transcription regulator		-1.400
caffeic acid phenethyl ester		chemical drug		
PRKDC	-0.493	kinase		
NOTCH4	-0.622	transcription regulator		
Saa3		other		
DPP4	-0.167	peptidase		
PLK4	-1.051	kinase		
diallyl disulfide		chemical - endogenous non-mammalian		
ceramide		chemical - endogenous mammalian		
dopamine		chemical - endogenous mammalian		-1.982
USF2	0.197	transcription regulator		
Ins1		other		0.086
MET	-0.914	kinase		0.169
GLI2	-0.183	transcription regulator		-0.911
PDCD1		phosphatase		
25-hydroxycholesterol		chemical reagent		
PPARG	-0.518	ligand-dependent		-0.357

		nuclear receptor	
atorvastatin		chemical drug	0.700 4.75E-02
alitretinoin		chemical drug	0.555 4.77E-02
aspirin		chemical drug	1.150 4.77E-02
OSM		cytokine	1.585 4.78E-02
picrotoxin		chemical toxicant	4.82E-02
apomorphine		chemical drug	4.82E-02
FOXL2	-0.179	transcription regu- lator	4.87E-02
NEUROG1		transcription regu- lator	4.87E-02
NRG2	-0.063	growth factor	4.87E-02
Go 6976		chemical - kinase inhibitor	4.87E-02
prostaglandin E		chemical - endog- enous mammalian	4.94E-02
flavokawain A		chemical - endog- enous non- mammalian	4.94E-02
OSGIN1	-0.149	growth factor	4.94E-02
ZXDC	0.185	transcription regu- lator	4.94E-02
PROM1	1.112	other	4.94E-02
ASCC1	0.293	transcription regu- lator	4.94E-02
SLC13A5		transporter	4.94E-02
SLCO1C1		transporter	4.94E-02
TEX11		other	4.94E-02
ARID2	0.000	transcription regu- lator	4.94E-02
enecadin		chemical drug	4.94E-02
ZNF24	0.217	transcription regu- lator	4.94E-02
C1GALT1	-0.229	enzyme	4.94E-02
MITF-p300/CBP		complex	4.94E-02
sepantronium		chemical drug	4.94E-02
firtecane pegol		chemical drug	4.94E-02
danusertib		chemical drug	4.94E-02
olaparib		chemical drug	4.94E-02
TBR1		transcription regu- lator	4.94E-02
ENPP1	-0.618	enzyme	4.94E-02
CHFR	-0.001	enzyme	4.94E-02
RNF6	0.041	transcription regu- lator	4.94E-02
PAK4	-0.353	kinase	4.94E-02
ADRA2B		G-protein coupled receptor	4.94E-02
HMG20B	-0.196	transcription regu- lator	4.94E-02
MS4A2		transmembrane	4.94E-02

		receptor	
CSH1/CSH2		other	4.94E-02
TBX20		transcription regu- lator	4.94E-02
Nppb		other	4.94E-02
CHMP2B	-0.230	other	4.94E-02
miR-515-5p (and other miRNAs w/seed UCUCCAA)		mature microRNA	4.94E-02
miR-202-3p (and other miRNAs w/seed GAGGUAU)		mature microRNA	4.94E-02
miR-370-3p (and other miRNAs w/seed CCUGCUG)		mature microRNA	4.94E-02
miR-532-3p (miRNAs w/seed CUCCCAC)		mature microRNA	4.94E-02
TIAM1	-0.928	other	4.94E-02
SSTR5		G-protein coupled receptor	4.94E-02
IK	0.020	cytokine	4.94E-02
TAF12	0.039	transcription regu- lator	4.94E-02
parbendazole		chemical reagent	4.94E-02
DLL3	-0.138	other	4.94E-02
HSPB6		other	4.94E-02
CANX	0.370	other	4.94E-02
ARSA	0.434	enzyme	4.94E-02
SIGMAR1	-0.316	transmembrane receptor	4.94E-02
DCC		transmembrane receptor	4.94E-02
CELF2	1.075	other	4.94E-02
GRM3		G-protein coupled receptor	4.94E-02
LSM1	-0.298	other	4.94E-02
TRPV5		ion channel	4.94E-02
RGD1560225		other	4.94E-02
GP1BA	0.452	transmembrane receptor	4.94E-02
FOXH1	0.080	transcription regu- lator	4.94E-02
ATRX	0.018	transcription regu- lator	4.94E-02
SCTR		G-protein coupled receptor	4.94E-02
2-[[4-[(e)-styryl]phenoxy]methyl]oxirane		chemical reagent	4.94E-02
S3I-1757		chemical reagent	4.94E-02
LGALS2	-0.234	other	4.94E-02
TSN	-0.143	other	4.94E-02
CEBPZ	-0.116	transcription regu- lator	4.94E-02
Mt3		other	4.94E-02
APOC3		transporter	4.94E-02
1-[2,3-bis(furan-2-yl)quinoxalin-6-yl]-3-(4-		chemical reagent	4.94E-02

<b>bromophenyl)urea</b>			
<b>3,6-bis(1-methyl-4-vinylpyridium)carbazole diiodide</b>		chemical reagent	4.94E-02
<b>N-hydroxy-2,2-diphenylacetamide</b>		chemical reagent	4.94E-02
<b>3,6-bis(4-methyl-2-vinylpyrazinium)carbazole</b>		chemical reagent	4.94E-02
<b>CKS2</b>	-1.418	kinase	4.94E-02
<b>LY5</b>		chemical reagent	4.94E-02
<b>1-(2-hydroxy-5-methylphenyl)-3-phenyl-1,3-propanedione</b>		chemical reagent	4.94E-02
<b>abrocitinib</b>		chemical drug	4.94E-02
<b>hydrochlorothiazide</b>		chemical drug	4.94E-02
<b>TAS-103</b>		chemical drug	4.94E-02
<b>pyridoxal phosphate</b>		chemical - endogenous mammalian	4.94E-02
<b>nevirapine</b>		chemical drug	4.94E-02
<b>liarozole</b>		chemical drug	4.94E-02
<b>pyridostigmine</b>		chemical drug	4.94E-02
<b>(-)-isoproterenol</b>		chemical drug	4.94E-02
<b>ammonia</b>		chemical - endogenous mammalian	4.94E-02
<b>chlorophyll a</b>		chemical - endogenous non-mammalian	4.94E-02
<b>MS645</b>		chemical reagent	4.94E-02
<b>CCI-007</b>		chemical reagent	4.94E-02
<b>leucine-2-alanine enkephalin</b>		chemical drug	4.94E-02
<b>myristoylated Protein Kinase C peptide inhibitor</b>		chemical - kinase inhibitor	4.94E-02
<b>insulin glargine</b>		biologic drug	4.94E-02
<b>bisindolylmaleimide II</b>		chemical - kinase inhibitor	4.94E-02
<b>limonene</b>		chemical - endogenous non-mammalian	4.94E-02
<b>colcemid</b>		chemical - endogenous non-mammalian	4.94E-02
<b>trigonelline</b>		chemical - endogenous mammalian	4.94E-02
<b>galanthamine</b>		chemical drug	4.94E-02
<b>durapatite</b>		chemical - endogenous mammalian	4.94E-02
<b>long chain fatty acid</b>		chemical - endogenous mammalian	4.94E-02
<b>gemcabene</b>		chemical drug	4.94E-02
<b>Collagen type VI</b>		complex	4.94E-02
<b>thymeleatoxin</b>		chemical toxicant	4.94E-02
<b>karenitecin</b>		chemical drug	4.94E-02
<b>Co2+</b>		chemical - endogenous mammalian	4.94E-02

TLR7		transmembrane receptor	-1.982	5.72E-02	
RAS		group	1.964	8.94E-02	
ADORA2A		G-protein coupled receptor	1.954	9.32E-02	
imatinib		chemical drug	Activated	2.042	1.07E-01
fenofibrate		chemical drug	Inhibited	-2.390	1.22E-01
E. coli serotype 0127B8 lipopolysaccharide		chemical - endogenous non-mammalian		1.982	2.08E-01
miR-1-3p (and other miRNAs w/seed GGAAUGU)		mature microRNA		1.980	2.24E-01
HNF1A	-1.222	transcription regulator		1.951	2.72E-01
tazemetostat		chemical drug	Activated	2.236	3.25E-01
gentamicin		chemical drug	Inhibited	-2.000	3.72E-01
IL10RA		transmembrane receptor	Activated	2.000	5.55E-01