

**Supplementary Table 2. List of differentially expressed genes derived with DESeq.**

transcript_id	baseMean	log2FoldC	lfcSE	stat	pvalue	padj	gene	desc
NM_004566	106.412822	-1.96534	0.403793	-4.86719	1.13E-06	0.002696	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3
NM_001911	482.2042461	-1.87928	0.414083	-4.5384	5.67E-06	0.004164	CTSG	cathepsin G
NM_005320	8.019862852	-1.85483	0.416428	-4.45415	8.42E-06	NA	HIST1H1D	histone cluster 1, H1d
NM_001871	742.2525507	-1.7605	0.327187	-5.38071	7.42E-08	0.000707	RAB20	RAB20, member RAS oncogene family
NM_001001791	19.8514253	-1.7101	0.403871	-4.23427	2.29E-05	0.009496	C10orf55	chromosome 10 open reading frame 55
NM_003740	40.07565866	-1.70168	0.39052	-4.35748	1.32E-05	0.006962	CKNK5	potassium channel, subfamily K, member 5
NM_147195	43.89890441	-1.67303	0.390048	-4.2893	1.79E-05	0.00813	ANKRD18	ankyrin repeat domain 18A
NM_022474	7.62699894	-1.57326	0.358053	-4.39393	1.11E-05	NA	MPP5	membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5)
NM_005024	132.7823891	-1.54065	0.408513	-3.77135	0.000162	0.0251	SERPINB1C	serpin peptidase inhibitor, clade B (ovalbumin), member 10
NM_005321	26.78624205	-1.53878	0.415633	-3.70227	0.000214	0.026402	HIST1H1E	histone cluster 1, H1e
NM_020370	72.74797083	-1.53505	0.30296	-5.06683	4.04E-07	0.001926	GPR84	G protein-coupled receptor 84
NM_001134368	22.46869363	-1.51111	0.358268	-4.21782	2.47E-05	0.00979	SLC6A6	solute carrier family 6 (neurotransmitter transporter), member 6
NM_014466	2.394883806	-1.51091	0.415105	-3.63982	0.000273	NA	TEKT2	tektin 2 (testicular)
NM_005980	310.9356187	-1.50007	0.412274	-3.63853	0.000274	0.029679	S100P	S100 calcium binding protein P
NM_153221	3.239196324	-1.49869	0.413039	-3.62845	0.000285	NA	CILP2	cartilage intermediate layer protein 2
NM_013363	25.30923826	-1.47942	0.417366	-3.54465	0.000393	0.032136	PCOLCE2	procollagen C-endopeptidase enhancer 2
NM_002616	7853.795956	-1.4378	0.401205	-3.58369	0.000339	0.030813	PER1	period circadian clock 1
NM_001282807	8.512139048	-1.43332	0.41132	-3.48468	0.000493	NA	07-Mar	membrane-associated ring finger (C3HC4) 7, E3 ubiquitin protein ligase
NM_001011703	18.35433977	-1.43247	0.408677	-3.50514	0.000456	0.033639	MVB12B	multivesicular body subunit 12B
NM_018476	34.66536757	-1.4283	0.410088	-3.4829	0.000496	0.035791	BEX1	brain expressed, X-linked 1
NM_001292033	5.036698539	-1.42116	0.399341	-3.55877	0.000373	NA	CFAP97	UFP0501 protein KIAA1430 isoform 2
NM_002228	7281.278474	-1.3964	0.413289	-3.37875	0.000728	0.041471	JUN	jun proto-oncogene
NM_001290260	24.05936552	-1.38981	0.386995	-3.5913	0.000329	0.030813	PHF3	PHD finger protein 3 isoform 3
NR_106808	5.774093792	-1.38732	0.40679	-3.4104	0.000649	NA	MIR6750	microRNA mir-6750
NM_001290185	13.6450927	-1.37857	0.349321	-3.94641	7.93E-05	NA	VPS11	vacuolar protein sorting-associated protein 11 homolog isoform 2
NM_001206878	10.64187264	-1.36782	0.384104	-3.56105	0.000369	NA	CTDSP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1
NM_001131055	64.21331629	-1.36319	0.365945	-3.72513	0.000195	0.026302	HRH2	histamine receptor H2
NM_002852	239.744687	-1.36303	0.385621	-3.53464	0.000408	0.032136	PTX3	pentraxin 3, long
NM_032108	35.37553208	-1.35925	0.382548	-3.55316	0.000381	0.031803	SEMA6B	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B
NM_003545	2.868264925	-1.3555	0.415571	-3.26178	0.001107	NA	HIST1H4E	histone cluster 1, H4e
NM_001253800	4.229121908	-1.35494	0.416478	-3.25333	0.001141	NA	ZNF331	zinc finger protein 331
NM_181711	78.76981035	-1.35449	0.410485	-3.29973	0.000968	0.049099	GRASP	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein
NM_000138	38.00793021	-1.35085	0.339568	-3.97813	6.95E-05	0.015752	FBN1	fibrillin 1
NM_007207	226.7056419	-1.34775	0.32934	-4.09228	4.27E-05	0.013147	DUSP10	dual specificity phosphatase 10
NM_002983	515.1672497	-1.34735	0.320724	-4.20096	2.66E-05	0.009913	CCL3	chemokine (C-C motif) ligand 3
NM_003039	139.0650578	-1.34321	0.390983	-3.43546	0.000592	0.037814	SLC2A5	solute carrier family 2 (facilitated glucose/fructose transporter), member 5
NM_006793	1.98245195	-1.33456	0.417066	-3.19988	0.001375	NA	PRDX3	peroxiredoxin 3
NM_005143	17.26593167	-1.32117	0.416414	-3.17273	0.00151	0.056498	HP	haptoglobin
NM_006732	21.48572016	-1.32097	0.415403	-3.17998	0.001473	0.056498	FOSB	FBJ murine osteosarcoma viral oncogene homolog B
NM_001002036	21.75168051	-1.31873	0.403379	-3.26921	0.001078	0.051193	ASTL	astacin-like metallo-endopeptidase (M12 family)
NM_004878	48.61784569	-1.30642	0.401351	-3.25507	0.001134	0.052202	PTGES	prostaglandin E synthase
NM_001286710	27.55870543	-1.30152	0.354962	-3.66664	0.000246	0.028547	ACSL1	acyl-CoA synthetase long-chain family member 1
NM_182757	2174.620218	-1.29907	0.346526	-3.74883	0.000178	0.025912	RNF144B	ring finger protein 144B
NM_001006947	4.38197631	-1.28091	0.413622	-3.0968	0.001956	NA	UHRF1BP1	UHRF1 binding protein 1-like
NM_001270508	5.691677072	-1.26841	0.416771	-3.04343	0.002339	NA	TNFAIP3	tumor necrosis factor, alpha-induced protein 3
NM_181358	7.083344259	-1.26748	0.367452	-3.44938	0.000562	NA	HIPK1	homeodomain interacting protein kinase 1
NM_198189	6.044914873	-1.26181	0.392976	-3.21091	0.001323	NA	COPS8	COP9 signalosome subunit 8
NM_001085400	401.0977643	-1.25192	0.298295	-4.19691	2.71E-05	0.009913	RELL1	REL1-like 1
NM_000201	2227.962317	-1.24487	0.323952	-3.84276	0.000122	0.023649	ICAM1	intercellular adhesion molecule 1
NM_002529	10474.76871	-1.24235	0.345577	-3.59293	0.000327	0.030813	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NM_006500	31.68777995	-1.24136	0.406302	-3.05527	0.002249	0.0651	MCAM	melanoma cell adhesion molecule
NM_001267043	22.94298034	-1.24107	0.384624	-3.2267	0.001252	0.053529	AEBP2	AE binding protein 2
NM_152460	2.652811029	-1.22535	0.415907	-2.94621	0.003217	NA	C17orf77	chromosome 17 open reading frame 77
NM_014330	6535.705451	-1.22316	0.306182	-3.99486	6.47E-05	0.015716	PPP1R15A	protein phosphatase 1, regulatory subunit 15A
NR_106807	2.370428865	-1.21791	0.411698	-2.95826	0.003094	NA	MIR6749	microRNA mir-6749
NM_182966	12.3469957	-1.20911	0.410941	-2.94231	0.003258	NA	NEDD9	neural precursor cell expressed, developmentally down-regulated 9
NM_001136503	19.68514971	-1.20886	0.390821	-3.09314	0.001981	0.061819	C10orf77	chromosome 10 open reading frame 77
NM_001025616	117.5683576	-1.20678	0.380832	-3.16879	0.001531	0.056733	ARHGAP24	Rho GTPase activating protein 24
NM_001781	3672.717561	-1.20622	0.343459	-3.51198	0.000445	0.033335	CD69	CD69 molecule
NR_106943	6.106400814	-1.20413	0.411565	-2.92572	0.003437	NA	MIR6883	microRNA mir-6883
NM_003126	14.3465216	-1.20328	0.407319	-2.95416	0.003135	NA	SPTA1	spectrin, alpha, erythrocytic 1 (elliptocytosis 2)
NM_000682	5.662471381	-1.2016	0.415701	-2.89053	0.003846	NA	ADRA2B	adrenoceptor alpha 2B
NM_001198803	5.928999032	-1.19935	0.417381	-2.87351	0.004059	NA	EIF4G3	eukaryotic translation initiation factor 4 gamma, 3
NM_001198	46.73375945	-1.19727	0.335301	-3.57075	0.000356	0.031803	PRDM1	PR domain containing 1, with ZNF domain
NM_001257293	11.78082223	-1.19541	0.36557	-3.27	0.001075	NA	HNRNPH1	heterogeneous nuclear ribonucleoprotein H1 (H)
NM_001136044	1.388105484	-1.19409	0.393749	-3.03263	0.002424	NA	TMUB1	transmembrane and ubiquitin-like domain containing 1
NR_003076	6.327128678	-1.19287	0.368592	-3.23629	0.001211	NA	SNORD98	small nucleolar RNA, C/D box 98
NM_001079519	4.244553956	-1.18993	0.415381	-2.86467	0.004174	NA	FAM177A1	family with sequence similarity 177, member A1
NM_005178	2510.279273	-1.18928	0.352637	-3.37253	0.000745	0.041732	BCL3	B-cell CLL/lymphoma 3
NM_152515	28.04895034	-1.18839	0.402524	-2.95234	0.003154	0.075184	CKAP2L	cytoskeleton associated protein 2-like
NM_003928	88.52657659	-1.18385	0.300886	-3.93454	8.34E-05	0.017916	CDT1	chromatin licensing and DNA replication factor 1
NM_001193495	14.09653238	-1.18208	0.337593	-3.50149	0.000463	NA	ADAR	adenosine deaminase, RNA-specific
NM_004420	632.9708748	-1.18054	0.396934	-2.97415	0.002938	0.072846	DUSP8	dual specificity phosphatase 8
NM_020651	3675.44692	-1.1796	0.371696	-3.17357	0.001506	0.056498	PELLI	pellino E3 ubiquitin protein ligase 1
NM_001013646	20.70890475	-1.17812	0.311966	-3.77643	0.000159	0.0251	FAM209B	family with sequence similarity 209, member B
NM_000039	4.183029825	-1.17602	0.403217	-2.91658	0.003539	NA	APOA1	apolipoprotein A-I
NM_001256127	3.593853261	-1.17486	0.413619	-2.84044	0.004505	NA	NSUN4	NOP2/Sun domain family, member 4
NR_073506	7.816146656	-1.1738	0.41503	-2.82824	0.00468	NA	TMEM39A	transmembrane protein 39A
NM_001252079	695.3341939	-1.17129	0.365784	-3.20213	0.001364	0.055291	USP15	ubiquitin specific peptidase 15
NM_174942	21.1889822	-1.16594	0.32541	-3.583	0.00034	0.030813	GAS2L3	growth arrest-specific 2 like 3
NM_00114395	95.70621012	-1.16514	0.353939	-3.29192	0.000995	0.049373	CNTLN	centelin, centrosomal protein
NM_001077494	2.053683944	-1.16319	0.412967	-2.81666	0.004853	NA	NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
NR_024157	81.84437229	-1.16232	0.286411	-4.05824	4.94E-05	0.014272	DGCR11	DiGeorge syndrome critical region gene 11 (non-protein coding)
NM_005746	8894.744534	-1.15867	0.371456	-3.11926	0.001813	0.060383	NAMPT	nicotinamide phosphoribosyltransferase
NM_001288836	10.87823618	-1.15818	0.404534	-2.863	0.004197	NA	VRK2	vaccinia related kinase 2
NR_120622	6.343318213	-1.15702	0.414605	-2.79067	0.00526	NA	LOC101927472	
NM_000584	1515.404351	-1.15332	0.410887	-2.80691	0.005002	0.093052	IL8	interleukin 8
NM_000607	143.625295	-1.15102	0.417245	-2.75862	0.005805	0.098935	ORM1	orosomucoid 1
NM_001127651	2.56616121	-1.14617	0.417382	-2.74609	0.006031	NA	NCF2	neutrophil cytosolic factor 2
NM_133484	7.378510681	-1.14598	0.417376	-2.74568	0.006039	NA	TANK	TRAF family member-associated NFkB activator
NM_002416	37.10020614	-1.14433	0.371772	-3.07526	0.002103	0.062616	CXCL9	chemokine (C-X-C motif) ligand 9
NM_005985	64.36207816	-1.13943	0.407086	-2.79898	0.005126	0.093829	SNAIL	snail family zinc finger 1
NM_001105562	12.99946328	-1.13878	0.348072	-3.27167	0.001069	NA	UBE4B	ubiquitination factor E4B
NM_002922	741.1671573	-1.13398	0.38521	-2.9438	0.003242	0.076298	RGS1	regulator of G-protein signaling 1
NM_004089	3477.554098	-1.13305	0.3445	-3.28895	0.001006	0.049373	TSC22D3	TSC22 domain family, member 3
NM_001282129	2.307889591	-1.13133	0.415083	-2.72554	0.006642	NA	SSH2	slingshot protein phosphatase 2
NM_001025247	138.2356743	-1.12793	0.311981	-3.61537	0.0003	0.030813	TAF5L	TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa
NM_014812	78.77363896	-1.12258	0.348634	-3.21994	0.001282	0.053674	CEP170	centrosomal protein 170kDa

NM_003486	1041.504427	-1.11814	0.347803	-3.21486	0.001305	0.054046	SLC7A5	solute carrier family 7 (amino acid transporter light chain, L system), member 5
NM_001270455	287.0809337	-1.11727	0.318302	-3.51008	0.000448	0.033335	WWP2	WW domain containing E3 ubiquitin protein ligase 2
NM_178324	14.08126592	-1.11576	0.352629	-3.16411	0.001556	NA	SPTLC1	serine palmitoyltransferase, long chain base subunit 1
NM_004209	57.39815766	-1.11374	0.32442	-3.43302	0.000597	0.037814	SYNGR3	synaptogyrin 3
NM_022304	16.70742018	-1.11163	0.38355	-2.89825	0.003752	0.081604	HRH2	histamine receptor H2
NM_032047	387.6377667	-1.11061	0.342833	-3.23952	0.001197	0.053292	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5
NM_203394	16.50173099	-1.10999	0.399022	-2.78177	0.005406	0.095538	E2F7	E2F transcription factor 7
NR_047116	172.1329293	-1.10918	0.296881	-3.73611	0.000187	0.026302	HIF1A-AS1	HIF1A antisense RNA 1
NM_001199149	1.721741382	-1.10892	0.384473	-2.88426	0.003923	NA	LTF	lactotransferrin
NM_001039481	9.878539798	-1.09983	0.4015	-2.73931	0.006157	NA	ETNK1	ethanolamine kinase 1
NR_125739	2507.677273	-1.09713	0.309902	-3.54025	0.0004	0.032136	CEBPB-AS1	
NM_003577	10.36613091	-1.09521	0.402878	-2.71847	0.006558	NA	UTF1	undifferentiated embryonic cell transcription factor 1
NM_024292	2.62669175	-1.09082	0.416047	-2.62187	0.008745	NA	UBL5	ubiquitin-like 5
NM_017633	1581.933509	-1.09015	0.302371	-3.60536	0.000312	0.030813	FAM46A	family with sequence similarity 46, member A
NM_002033	1518.407363	-1.08928	0.298296	-3.65168	0.000261	0.029	FUT4	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)
NR_104265	1.863215939	-1.08867	0.410853	-2.64979	0.008054	NA	GMPR2	guanosine monophosphate reductase 2
NR_110552	176.367707	-1.08828	0.315606	-3.44822	0.000564	0.037587	LOC102724153	
NM_018410	1.376310662	-1.08702	0.403293	-2.69535	0.007031	NA	HJURP	Holliday junction recognition protein
NM_006186	1080.972059	-1.08673	0.409973	-2.65074	0.008032	0.116262	NR4A2	nuclear receptor subfamily 4, group A, member 2
NM_001127401	29.06487038	-1.08476	0.323619	-3.35197	0.000802	0.044358	YPEL5	yippee-like 5 (Drosophila)
NM_001278713	7.974999032	-1.08425	0.378031	-2.86816	0.004129	NA	ZNF705E	zinc finger protein 705E
NM_001276325	2.149234616	-1.08407	0.415491	-2.60913	0.009077	NA	SETMAR	SET domain and mariner transposase fusion gene
NM_001805	140.1020146	-1.08234	0.41308	-2.62017	0.008789	0.121145	CEBPE	CCAAT/enhancer binding protein (C/EBP), epsilon
NM_025079	1447.638241	-1.08144	0.326088	-3.3164	0.000912	0.048253	ZC3H12A	zinc finger CCCH-type containing 12A
NM_144590	75.84091495	-1.08089	0.311154	-3.47381	0.000513	0.035968	ANKRD22	ankyrin repeat domain 22
NM_003965	7.517963911	-1.07959	0.411811	-2.62157	0.008752	NA	CCRL2	chemokine (C-C motif) receptor-like 2
NR_045406	1218.858876	-1.07728	0.308903	-3.48742	0.000488	0.035461	HIF1A-AS2	HIF1A antisense RNA 2
NM_031419	148.2709274	-1.0759	0.34226	-3.14353	0.001669	0.059381	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
NM_001172431	3.362591837	-1.07491	0.409673	-2.62382	0.008695	NA	AMPD3	adenosine monophosphate deaminase 3
NM_001098503	20.10570975	-1.07139	0.360614	-2.97102	0.002968	0.073242	PTPRJ	protein tyrosine phosphatase, receptor type, J
NM_080491	14.41042198	-1.07064	0.344839	-3.10476	0.001904	NA	GAB2	GRB2-associated binding protein 2
NM_022134	5.398583337	-1.06851	0.416089	-2.56798	0.010229	NA	GAL3ST2	galactose-3-O-sulfotransferase 2
NM_001137550	9.514398469	-1.06803	0.357289	-2.98926	0.002797	NA	LRRFP1	leucine rich repeat (in FLII) interacting protein 1
NM_001270399	2.9843155	-1.06449	0.286434	-3.71636	0.000202	0.026302	TUBA1A	tubulin, alpha 1a
NM_172207	3.53481945	-1.06393	0.416923	-2.55187	0.010715	NA	CAMKK1	calcium/calmodulin-dependent protein kinase kinase 1, alpha
NM_001010935	0.992588669	-1.06198	0.386116	-2.75041	0.005952	NA	RAP1A	RAP1A, member of RAS oncogene family
NM_001211	40.59736437	-1.06168	0.374933	-2.83166	0.004631	0.090569	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B
NM_182931	15.07303616	-1.05576	0.370673	-2.84821	0.004397	0.088023	KMT2E	lysine (K)-specific methyltransferase 2E
NM_033018	14.52682041	-1.05452	0.321876	-3.27618	0.001052	0.050876	CDK16	cyclin-dependent kinase 16
NM_001289824	19.13869146	-1.05416	0.367763	-2.86642	0.004151	0.085774	FURIN	furin preproprotein
NM_001135589	45.96961515	-1.05131	0.29549	-3.55785	0.000374	0.031803	GDAP2	ganglioside induced differentiation associated protein 2
NM_000576	647.0099402	-1.04649	0.373504	-2.80182	0.005081	0.093619	IL18	interleukin 1, beta
NM_001170820	73.37703019	-1.04041	0.36073	-2.88418	0.003924	0.083622	IFITM10	interferon induced transmembrane protein 10
NM_021202	418.6206562	-1.03903	0.355255	-2.92474	0.003447	0.078183	TP53INP2	tumor protein p53 inducible nuclear protein 2
NM_001286398	70.83796785	-1.03616	0.328671	-3.15258	0.001618	0.059014	RNF217	ring finger protein 217
NM_017628	419.5108427	-1.03503	0.330333	-3.10789	0.001884	0.061002	TET2	tet methylcytosine dioxygenase 2
NM_004417	16676.84945	-1.03485	0.285782	-3.62111	0.000293	0.030813	DUSP1	dual specificity phosphatase 1
NR_040073	2.941613556	-1.03372	0.40231	-2.56947	0.010185	NA	MIR181A1	MIR181A1 host gene (non-protein coding)
NM_005962	24.65190137	-1.03236	0.319602	-3.23015	0.001237	0.053529	MXI1	MAX interactor 1, dimerization protein
NM_001199011	1.763212443	-1.03189	0.407168	-2.5343	0.011267	NA	DCTN5	dynactin 5 (p25)
NR_002924	12.11987734	-1.03044	0.397452	-2.59226	0.009525	NA	TBC1D3P1	TBC1D3P1-DHX40P1 readthrough transcribed pseudogene
NM_0012999	111.4948779	-1.02622	0.301878	-3.39944	0.000675	0.040233	ELF2	E74-like factor 2 (ets domain transcription factor)
NR_003225	109.2951034	-1.02356	0.326326	-3.13662	0.001709	0.059411	LGALS3	lectin, galactoside-binding, soluble, 3
NM_005888	121.5666068	-1.02343	0.325959	-3.14326	0.001671	0.059381	SLC25A3	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 3
NM_002099	3.849060615	-1.01902	0.406861	-2.50459	0.012259	NA	GYPA	glycophorin A (MNS blood group)
NM_002641	25.6195176	-1.01739	0.287276	-3.5415	0.000398	0.032136	PIGA	phosphatidylinositol glycan anchor biosynthesis, class A
NR_110328	24.27323551	-1.01706	0.329816	-3.08372	0.002044	0.061819	MFSD1	major facilitator superfamily domain containing 1
NM_000572	12.37056247	-1.01679	0.359062	-2.83178	0.004629	NA	IL10	interleukin 10
NM_001290190	15.36283568	-1.01539	0.396173	-2.56301	0.010377	0.13099	MYADM	myeloid-associated differentiation marker
NM_001271856	17.90008357	-1.01261	0.414025	-2.44577	0.014454	0.146619	GRASP	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein
NM_001254	47.84514349	-1.01147	0.350386	-2.88672	0.003893	0.083512	CDC6	cell division cycle 6
NR_037601	190.3977045	-1.00923	0.312612	-3.22837	0.001245	0.053529	LOC100501057	uncharacterized LOC100501057
NM_001290325	4.8446198	-1.00876	0.392979	-2.56697	0.010259	NA	USP38	ubiquitin carboxyl-terminal hydrolase 38 isoform 2
NM_001130072	2.129000493	-1.00791	0.417382	-2.41485	0.015742	NA	EPN1	epsin 1
NM_170776	434.4064892	-1.00764	0.400364	-2.51682	0.011842	0.137371	GPR97	G protein-coupled receptor 97
NM_015878	19.59230546	-1.00637	0.314544	-3.19947	0.001377	0.055524	AZIN1	antizyme inhibitor 1
NM_001001479	86.9111829	-1.00455	0.256776	-3.91216	9.15E-05	0.018538	SLC35E4	solute carrier family 35, member E4
NR_038278	7.713387842	-1.005042	0.415537	-2.418657	0.015578	NA	LINC00665	long intergenic non-protein coding RNA 665
NM_001077710	35.52567519	-1.006623	0.392679	-2.563474	0.010363	0.13099	FAM110C	family with sequence similarity 110, member C
NM_001282658	2.765851595	-1.006769	0.417288	-2.41265	0.015837	NA	CCDC3	coiled-coil domain containing 3
NM_152751	1.044782129	-1.007514	0.381428	-2.641422	0.008256	NA	BEND7	BEN domain containing 7
NR_047013	7.903063656	-1.007853	0.393685	-2.560052	0.010466	NA	LINC00400	
NR_104136	5.420818192	-1.008674	0.400985	-2.515491	0.011887	NA	MANEA-A'	MANEA antisense RNA 1 (head to head)
NM_001242885	72.45741212	-1.013342	0.343173	-2.95286	0.003148	0.075184	AC137932	uncharacterized LOC100287036
NR_049763	3.019052648	-1.014191	0.416434	-2.435417	0.014875	NA	CNOT1	CCR4-NOT transcription complex, subunit 1
NM_080657	241.9572152	-1.014368	0.294978	-3.438787	0.000584	0.037814	RSAD2	radical S-adenosyl methionine domain containing 2
NR_120662	20.88551505	-1.014501	0.269399	-3.7658	0.000166	0.0251	LOC102723703	
NR_023917	11.4482714	-1.015156	0.344152	-2.949727	0.003181	NA	PTENP1	phosphatase and tensin homolog pseudogene 1
NM_198150	118.5013109	-1.018205	0.232588	-4.377728	1.20E-05	0.006962	ARSK	arylsulfatase family, member K
NR_120495	45.16000072	-1.022687	0.402632	-2.540001	0.011085	NA	ATE1-AS1	
NM_001159522	9.093818635	-1.022854	0.416266	-2.457212	0.014002	NA	ZNF727	zinc finger protein 727
NM_032530	86.13297703	-1.026664	0.368138	-2.788799	0.00529	0.094436	ZNF594	zinc finger protein 594
NM_000197	26.5357598	-1.027213	0.336562	-3.052078	0.002273	0.065596	HSD17B3	hydroxysteroid (17-beta) dehydrogenase 3
NR_103542	43.67562079	-1.027574	0.351464	-2.923695	0.003459	0.07826	HCG8	HLA complex group 8
NM_033119	55.4884264	-1.028155	0.322265	-3.190401	0.001421	0.056498	NKD1	naked cuticle homolog 1 (Drosophila)
NM_001284527	4.071320807	-1.028501	0.400696	-2.566787	0.010265	NA	ZSCAN32	zinc finger and SCAN domain containing 32
NR_038343	141.7893244	-1.030838	0.367022	-2.808655	0.004975	0.092913	MAGI2-AS	MAGI2 antisense RNA 3
NM_006988	144.4652624	-1.031543	0.397598	-2.594435	0.009475	0.125524	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1
NM_001007544	59.9369092	-1.032704	0.311845	-3.311599	0.000928	0.048548	C1orf186	chromosome 1 open reading frame 186
NM_033160	54.06308769	-1.033082	0.3421	-3.019822	0.002529	0.06848	ZNF658	zinc finger protein 658
NM_021624	3.903537936	-1.033485	0.416217	-2.483041	0.013027	NA	HRH4	histamine receptor H4
NM_003637	51.30957824	-1.034328	0.224112	-4.615226	3.93E-06	0.004164	ITGA10	integrin, alpha 10
NM_001127713	1.985864988	-1.034456	0.416172	-2.485643	0.012932	NA	ATL1	atlastin GTPase 1
NR_024491	4.244914754	-1.035507	0.414903	-2.495781	0.012568	NA	LOC100121	uncharacterized LOC1001215873
NM_006786	11.41265198	-1.039354	0.394553	-2.634259	0.008432	NA	UTS2	uterosin 2
NR_073388	7.793017707	-1.041775	0.345533	-3.01498	0.00257	NA	ALG1L9P	asparagine-linked glycosylation 1-like 9, pseudogene
NM_152268	28.91375947	-1.041962	0.411872	-2.52982	0.011412	0.136663	PARS2	polyl-tRNA synthetase 2, mitochondrial (putative)
NM_005582	49.03620171	-1.043403	0.349189	-2.988073	0.002807	0.070493	CD180	CD180 molecule
NR_046609	24.08614342	-1.047204	0.314664	-3.328013	0.000875	0.047069	HOXA10-A	HOXA10 antisense RNA
NM_013381	7.700311855	-1.048431	0.404493	-2.591967	0.009543	NA	TRHDE	thyrotropin-releasing hormone degrading enzyme

NM_001282560	2.557014387	<b>1.050574</b>	0.415193	2.530328	<b>0.011396</b>	NA	EYA3	eyes absent homolog 3 (Drosophila)
NM_0010083	9.486493342	<b>1.054456</b>	0.337805	3.121491	<b>0.001799</b>	NA	PDE5A	phosphodiesterase 5A, cGMP-specific
NR_103511	4.744271316	<b>1.054475</b>	0.417192	2.528201	<b>0.011465</b>	NA	ARL6	ADP-ribosylation factor-like 6
NR_033248	31.74505417	<b>1.056194</b>	0.254497	4.150119	<b>3.32E-05</b>	<b>0.011304</b>	GCSHP3	glycine cleavage system protein H (aminomethyl carrier) pseudogene 3
NR_036490	2.904643233	<b>1.056863</b>	0.406912	2.597279	<b>0.009397</b>	NA	LOC284644	uncharacterized LOC284648
NR_038826	374.0796649	<b>1.057157</b>	0.341616	3.094576	<b>0.001971</b>	0.061819	LINC00989	long intergenic non-protein coding RNA 989
NM_001122646	2.62147362	<b>1.057292</b>	0.416107	2.540913	<b>0.011056</b>	NA	FAM178B	family with sequence similarity 178, member B
NM_000341	93.02752649	<b>1.058399</b>	0.313716	3.373747	<b>0.000742</b>	<b>0.041732</b>	SLC3A1	solute carrier family 3 (amino acid transporter heavy chain), member 1
NM_001010893	1.621789521	<b>1.061178</b>	0.381732	2.779903	<b>0.005438</b>	NA	SLC10A5	solute carrier family 10, member 5
NM_018980	15.39881527	<b>1.061643</b>	0.327358	3.243065	<b>0.001183</b>	0.053129	TAS2R5	taste receptor, type 2, member 5
NM_001163989	12.52342273	<b>1.062227</b>	0.323527	3.283274	<b>0.001026</b>	NA	RAB37	RAB37, member RAS oncogene family
NM_024645	1.594186028	<b>1.062454</b>	0.382159	2.780134	<b>0.005434</b>	NA	ZMAT4	zinc finger, matrin-type 4
NM_001297738	13.69103451	<b>1.062601</b>	0.417179	2.547113	<b>0.010862</b>	NA	TBCA	tubulin-specific chaperone A isoform 1
NR_024584	7.123516214	<b>1.063921</b>	0.406511	2.617201	<b>0.008865</b>	NA	LINC00623	
NM_001135592	2.392793006	<b>1.064115</b>	0.417263	2.550227	<b>0.010765</b>	NA	RPS27A	ribosomal protein S27a
NM_001288961	18.1835885	<b>1.064219</b>	0.381433	2.790057	<b>0.005227</b>	0.094436	LOC40086	uncharacterized LOC400863
NM_001290264	10.71300389	<b>1.064292</b>	0.401169	2.652977	<b>0.007979</b>	NA	SLC35E2B	solute carrier family 35 member E2B
NM_004158	3.509279512	<b>1.064367</b>	0.415518	2.561545	<b>0.010421</b>	NA	PSPN	persephin
NM_003175	115.9410156	<b>1.064954</b>	0.31072	3.427371	<b>0.006069</b>	<b>0.037814</b>	XCL2	chemokine (C motif) ligand 2
NM_001039707	6.877644079	<b>1.066037</b>	0.386576	2.757637	<b>0.005822</b>	NA	SDCCAG3	serologically defined colon cancer antigen 3
NR_110032	22.90181151	<b>1.06761</b>	0.307344	3.473662	<b>0.000513</b>	<b>0.035968</b>	LOC10192	uncharacterized LOC10192045
NM_000745	4.107377622	<b>1.071377</b>	0.415229	2.580209	<b>0.009874</b>	NA	CHRNA5	cholinergic receptor, nicotinic, alpha 5 (neuronal)
NM_153281	1.675161594	<b>1.075585</b>	0.414055	2.597685	<b>0.009385</b>	NA	HYAL1	hyaluronoglucosaminidase 1
NM_001024675	35.29024639	<b>1.075978</b>	0.34902	3.08286	<b>0.00205</b>	0.061819	ACTL10	actin-like 10
NR_073084	5.259348631	<b>1.078614</b>	0.417379	2.584256	<b>0.009759</b>	NA	CRIP2	cysteine-rich protein 2
NR_026675	2.890516673	<b>1.079379</b>	0.407796	2.646857	<b>0.008124</b>	NA	CRYM-AS1	CRYM antisense RNA 1
NM_000067	15.03929137	<b>1.080138</b>	0.303009	3.564707	<b>0.000364</b>	<b>0.031803</b>	CA2	carbonic anhydrase II
NR_047493	8.666952147	<b>1.080324</b>	0.408811	2.642597	<b>0.008227</b>	NA	LINC00563	long intergenic non-protein coding RNA 563
NR_108075	7.797582176	<b>1.086824</b>	0.41309	2.630965	<b>0.008514</b>	NA	ITPR1-AS1	ITPR1 antisense RNA 1 (head to head)
NR_109827	22.39563251	<b>1.089125</b>	0.269946	4.034606	<b>5.47E-05</b>	<b>0.014885</b>	CCDC7	coiled-coil domain containing 7
NM_006208	5.400452038	<b>1.094381</b>	0.40745	2.685925	<b>0.007233</b>	NA	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1
NM_002048	19.27264693	<b>1.0948</b>	0.391949	2.793217	<b>0.005219</b>	0.094436	GAS1	growth arrest-specific 1
NR_038446	1945.732244	<b>1.097002</b>	0.35344	3.103783	<b>0.001911</b>	0.061275	LINC00861	long intergenic non-protein coding RNA 861
NM_001286624	83.93005874	<b>1.100552</b>	0.287224	3.831692	<b>0.000127</b>	<b>0.024171</b>	MAP3K7CL	MAP3K7 C-terminal like
NM_153370	13.31398873	<b>1.108028</b>	0.367892	3.011827	<b>0.002597</b>	NA	PI16	peptidase inhibitor 16
NM_001018070	7.422734375	<b>1.112769</b>	0.387511	2.871579	<b>0.004084</b>	NA	CORO1B	coronin, actin binding protein, 1B
NM_001301060	2.360383082	<b>1.113568</b>	0.415222	2.68186	<b>0.007321</b>	NA	MORN1	MORN repeat-containing protein 1 isoform 2
NR_104137	2.948624981	<b>1.116162</b>	0.416451	2.680175	<b>0.007358</b>	NA	ARMC2-AS	ARMC2 antisense RNA 1
NR_045118	21.27231828	<b>1.118456</b>	0.326121	3.429571	<b>0.006065</b>	<b>0.037814</b>	KCNIP2-AS	KCNIP2 antisense RNA 1
NM_001099269	6.077085276	<b>1.119329</b>	0.390469	2.866625	<b>0.004149</b>	NA	ZNF506	zinc finger protein 506
NM_021734	1.815951144	<b>1.125071</b>	0.413554	2.720496	<b>0.006518</b>	NA	SLC25A19	solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19
NR_047510	12.93719035	<b>1.127957</b>	0.38588	2.923073	<b>0.003466</b>	NA	N6AMT1	N-6 adenine-specific DNA methyltransferase 1 (putative)
NM_001003690	2.292491289	<b>1.134997</b>	0.416904	2.722442	<b>0.00648</b>	NA	MAD2L1BF	MAD2L1 binding protein
NM_001172780	6.190517816	<b>1.139093</b>	0.378877	3.006497	<b>0.002643</b>	NA	LRR34	leucine rich repeat containing 34
NM_015717	5.781051208	<b>1.139658</b>	0.38558	2.9557	<b>0.00312</b>	NA	CD207	CD207 molecule, langerin
NR_033850	32.68672112	<b>1.146723</b>	0.280243	4.091892	<b>4.28E-05</b>	<b>0.013147</b>	WDR11-AS	WDR11 antisense RNA 1
NM_000706	24.71965783	<b>1.148389</b>	0.37654	3.049851	<b>0.00229</b>	0.065687	AVPR1A	arginine vasopressin receptor 1A
NM_006820	703.286533	<b>1.149267</b>	0.306428	3.750534	<b>0.000176</b>	<b>0.025912</b>	IFI44L	interferon-induced protein 44-like
NM_001142797	4.036149433	<b>1.150933</b>	0.416155	2.765638	<b>0.005681</b>	NA	CXCR3	chemokine (C-X-C motif) receptor 3
NM_001290009	149.4909843	<b>1.15213</b>	0.359167	3.207785	<b>0.001338</b>	0.054917	BIN2	bridging integrator 2 isoform 4
NM_005961	13.66760643	<b>1.154017</b>	0.321178	3.593081	<b>0.000327</b>	NA	MUC6	mucin 6, oligomeric mucus/gel-forming
NM_152399	9.531181992	<b>1.158381</b>	0.363351	3.188046	<b>0.001432</b>	NA	TMEM155	transmembrane protein 155
NM_001962	41.54840333	<b>1.160486</b>	0.380945	3.046335	<b>0.002316</b>	0.065864	EFNA5	efrin-A5
NM_022046	5.680322937	<b>1.16291</b>	0.390165	2.980562	<b>0.002877</b>	NA	KLK14	kallikrein-related peptidase 14
NM_001007189	106.6848392	<b>1.163189</b>	0.387558	3.001329	<b>0.002688</b>	0.070061	IGIP	IgA-inducing protein
NR_125926	2.420662873	<b>1.163632</b>	0.416392	2.794556	<b>0.005197</b>	NA	LOC101929468	
NM_007053	100.624859	<b>1.170159</b>	0.325704	3.592704	<b>0.000327</b>	<b>0.030813</b>	CD160	CD160 molecule
NM_003382	18.36802772	<b>1.171764</b>	0.338908	3.457473	<b>0.000545</b>	<b>0.036994</b>	VIPR2	vasoactive intestinal peptide receptor 2
NR_108073	2.566295173	<b>1.177333</b>	0.415392	2.834271	<b>0.004593</b>	NA	LOC10192	uncharacterized LOC101927354
NM_033437	1.874626367	<b>1.179407</b>	0.41582	2.836343	<b>0.004563</b>	NA	PDE5A	phosphodiesterase 5A, cGMP-specific
NR_027257	2.046441745	<b>1.187336</b>	0.414498	2.86452	<b>0.004176</b>	NA	FLJ26850	FLJ26850 protein
NR_125406	14.09152964	<b>1.192205</b>	0.388486	3.068848	<b>0.002149</b>	NA	LOC102724297	
NM_001005851	352.0750816	<b>1.192681</b>	0.326727	3.650394	<b>0.000262</b>	0.029	ZNF780B	zinc finger protein 780B
NM_001001995	19.46901173	<b>1.211192</b>	0.340754	3.554443	<b>0.000379</b>	<b>0.031803</b>	GPM6B	glycoprotein M6B
NR_027146	10.7240057	<b>1.219433</b>	0.411718	2.96182	<b>0.003058</b>	NA	LINC00469	long intergenic non-protein coding RNA 469
NM_000387	737.2045795	<b>1.225546</b>	0.256428	4.779308	<b>1.76E-06</b>	<b>0.003351</b>	SLC25A20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20
NM_020702	19.36214065	<b>1.23154</b>	0.383047	3.215114	<b>0.001304</b>	0.054046	KIAA1161	KIAA1161
NM_024565	92.45877092	<b>1.243946</b>	0.303399	4.10003	<b>4.13E-05</b>	<b>0.013147</b>	CCNJL	cyclin J-like
NM_001013653	3.161644436	<b>1.255394</b>	0.41727	3.008591	<b>0.002625</b>	NA	LRR34	leucine rich repeat containing 26
NM_001258016	1.742412885	<b>1.255696</b>	0.410848	3.056352	<b>0.00224</b>	NA	FDXR	ferredoxin reductase
NR_108104	5.569594916	<b>1.256203</b>	0.414986	3.027094	<b>0.002469</b>	NA	RP11-166C	uncharacterized LOC101929736
NM_001282941	6.259583374	<b>1.28086</b>	0.400561	3.197662	<b>0.001385</b>	NA	RTKN2	rhotekin 2
NM_018012	10.66725655	<b>1.287699</b>	0.389462	3.30635	<b>0.000945</b>	NA	KIF26B	kinesin family member 26B
NR_027440	2.465317931	<b>1.294851</b>	0.417304	3.102893	<b>0.001916</b>	NA	LOC10027	uncharacterized LOC100272217
NR_027412	9.49727963	<b>1.295238</b>	0.384378	3.369697	<b>0.000753</b>	NA	LINC00910	long intergenic non-protein coding RNA 910
NM_001111319	17.27226328	<b>1.309912</b>	0.412636	3.174495	<b>0.001501</b>	0.056498	CLDN22	claudin 22
NM_016816	16.60715359	<b>1.313354</b>	0.371476	3.535504	<b>0.000407</b>	<b>0.032136</b>	OAS1	2'-5'-oligoadenylate synthetase 1, 40/46kDa
NR_027442	8.150786567	<b>1.323258</b>	0.366509	3.610441	<b>0.000306</b>	NA	LOC100281	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 pseudogene
NR_046683	5.451953803	<b>1.351123</b>	0.413838	3.264862	<b>0.001095</b>	NA	ST3GAL6-AS	ST3GAL6 antisense RNA 1
NM_002234	2.192658128	<b>1.365868</b>	0.417259	3.27343	<b>0.001063</b>	NA	KCNA5	potassium voltage-gated channel, shaker-related subfamily, member 5
NM_006272	328.3111009	<b>1.368975</b>	0.384304	3.562219	<b>0.000368</b>	<b>0.031803</b>	S100B	S100 calcium binding protein B
NM_001297562	9.776594793	<b>1.401804</b>	0.394095	3.55702	<b>0.000375</b>	NA	TNFSF4	tumor necrosis factor ligand superfamily member 4 isoform 2
NM_001002919	9.777359029	<b>1.406335</b>	0.35617	3.948497	<b>7.86E-05</b>	NA	FAM150B	family with sequence similarity 150, member B
NM_015719	121.5817146	<b>1.420213</b>	0.402039	3.532525	<b>0.000412</b>	<b>0.032136</b>	COL5A3	collagen, type V, alpha 3
NM_001177676	18.2560785	<b>1.472378</b>	0.366445	4.018005	<b>5.87E-05</b>	<b>0.015109</b>	GPR68	G protein-coupled receptor 68
NM_003783	10.33798389	<b>1.481073</b>	0.412707	3.588683	<b>0.000332</b>	NA	B3GALT2	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
NM_207445	21.63165864	<b>1.553964</b>	0.364142	4.267473	<b>1.98E-05</b>	<b>0.008559</b>	C15orf54	chromosome 15 open reading frame 54
NM_006862	3.919074448	<b>1.651507</b>	0.416731	3.963004	<b>7.40E-05</b>	NA	TRKH	tumor and KH domain containing
NR_110616	17.1660949	<b>1.661034</b>	0.412711	4.024692	<b>5.70E-05</b>	<b>0.015094</b>	LINC01355	
NM_001146114	17.29030417	<b>1.676969</b>	0.361617	4.637411	<b>3.53E-06</b>	<b>0.004164</b>	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila)
NM_001185149	6.312043302	<b>1.833322</b>	0.417358	4.392683	<b>1.12E-05</b>	NA	CLDN24	claudin 24
NM_001040100	16.15647852	<b>1.840059</b>	0.40269	4.569422	<b>4.89E-06</b>	<b>0.004164</b>	SPTSSB	serine palmitoyltransferase, small subunit B
NM_175053	7.614928209	<b>1.918684</b>	0.395387	4.852675	<b>1.22E-06</b>	NA	KRT74	keratin 74
NM_016944	5.520983042	<b>1.931191</b>	0.414938	4.654166	<b>3.25E-06</b>	NA	TAS2R4	taste receptor, type 2, member 4