

Supplementary Table 1: Clinical pathology and MDM2 and MDM4 status in human RMS tissue samples

<u>Rhabdomyosarcoma sample</u>	<u>Type</u>	<u>Translocation</u>	<u>MDM2-ALT1</u>	<u>MDM4-ALT2</u>	<u>p53 mutation</u>
A0841	Alveolar	t(1;13)	Y	N	N
A0295	Alveolar	t(1;13)	Y	N/A	N
A332	Alveolar	t(1;13)	Y	N	N
A1008	Alveolar	t(1;13)	Y	Y	N
A1258	Alveolar	t(1;13)	Y	Y	N
A2065	Alveolar	t(1;13)	Y	Y	N
A4233	Alveolar	t(1;13)	Y	N	N
A1137	Alveolar	t(1;13)	Y	N	N
A0897	Alveolar	t(2;13)	Y	N	N
A0167	Alveolar	t(2;13)	N	Y	N
A4217	Alveolar	t(2;13)	Y	Y	N
A037	Alveolar	t(2;13)	Y	N	ND
A0161	Alveolar	t(2;13)	Y	N	ND
A1067	Alveolar	t(2;13)	Y	N/A	N
A4186	Alveolar	t(2;13)	Y	Y	N
A271	Alveolar	t(2;13)	Y	Y	N
A4193	Alveolar	t(2;13)	Y	Y	Y
A0373	Alveolar	no translocation	Y	N	N
A0703	Alveolar	no translocation	Y	N	N
A059	Alveolar	no translocation	N	Y	N
A201	Alveolar	no translocation	N	N/A	N
A1063	Alveolar	no translocation -FA	Y	Y	ND
A1043	Alveolar	no translocation	N	N	Y
A1049	Alveolar	no translocation	Y	N/A	ND
A0298	Alveolar	no translocation - FA	Y	N	N
A0211	Alveolar	no translocation	Y	N	ND
A1054	Alveolar	no translocation	Y	N	ND
E009	Embryonal	Not peromed	N	N	ND
E3004	Embryonal	Not peromed	N	N	N
E0225	Embryonal	Not peromed	Y	Y	N
E0259	Embryonal	Not peromed	N	N	N
E0700	Embryonal	Not peromed	Y	Y	N
E0658	Embryonal	Not peromed	Y	N	ND
E208	Embryonal	Not peromed	Y	N	ND
E0272	Embryonal	Not peromed	Y	Y	ND
E3006	Embryonal	Not peromed	N	Y	N
E6001	Embryonal	Not peromed	N	N	N
E4014	Embryonal	Not peromed	N	N	ND
E078	Embryonal	Not peromed	Y	N	N

E0712	Embryonal	Not performed	N	N	N
E1241	Embryonal	Not performed	Y	Y	ND
E1099	Embryonal	Not performed	Y	N	N
E1098	Embryonal	Not performed	Y	Y	N
E0365	Embryonal	Not performed	Y	N	Y
E1007	Embryonal	Not performed	Y	N	N
E0449	Embryonal	Not performed	Y	N	N
E215	Embryonal	Not performed	Y	N	N
E2035	Embryonal	Not performed	Y	Y	N
E4053	Embryonal	Not performed	Y	Y	N
E4068	Embryonal	Not performed	Y	Y	N
N1008	Normal muscle	no translocation	N	N	ND
N0897	Normal muscle	Not performed	N	N	N
N1007	Normal muscle	Not performed	N	N	N
N1099	Normal muscle	Not performed	N	N	ND
N6001	Normal muscle	Not performed	N	N	ND
Ana261	Anaplastic (ERMS, focal)		N	N	N
Ana442	Anaplastic (ERMS, diffuse)		N	N	N
Ana1109	Anaplastic (ERMS, diffuse)		N	N	ND
Ana2016	Anaplastic (ERMS, diffuse)		N	N	Y
Ana4063	Anaplastic (ARMS, ???)		N	N	N
Ana4142	Anaplastic (ERMS, focal)		N	N	N
Ana4055	Anaplastic (ERMS, focal)		N	N/A	N
Ana6037	Anaplastic (ERMS, focal)		N	N	N
Ana2013	Anaplastic (ARMS, focal)	t(2;13)	Y	N	N
Ana2011	Anaplastic (ARMS, focal)		N	N	N
Ana1036	Anaplastic (ARMS, focal)		N	N/A	Y
Ana0141	Anaplastic (ARMS, diffuse)		Y	N	N
Ana0518	Anaplastic (ERMS, focal)		N	N	N
Ana0129	Anaplastic (ERMS, diffuse)		N	N	N
Ana0760	Anaplastic (ARMS, diffuse)		N	N	N
Ana0458	Anaplastic (ERMS, focal)		N	N	Y
Ana0149	Anaplastic (ERMS, diffuse)		N	N	Y
Ana0004	Anaplastic (ARMS, diffuse)		N	N	N
Ana0664	Anaplastic (ERMS, diffuse)		N	N	N
Ana0606	Anaplastic (ERMS, focal)		N	N	N

Supplementary table S2A: Alternative splicing validation

Primer Name	Sequence	Length	Annealing Temperature TA	Product Size
<i>CEP97 X3F</i> <i>CEP97 X5R</i>	GGTGTGGCCAAGCTGACGTTGC GCAGGTGCCATTCTAAGAGAGG	22 22	56°C	275/173bp
<i>PELI1 X2F</i> <i>PELI1 X4R</i>	CCAAGGCTCCTGACCAGTGAAC CTGAAACATATCGGTGTTGCTGTG	22 24	56°C	352/222bp
<i>EED X1F</i> <i>EED X4R</i>	CCAAGAAGCAGAAGCTGAGCAG CCGGATTTCTCCTTGTGAATG	22 21	56°C	347/254/194/101bp
<i>LSM1 X2F</i> <i>LSM1 X4R</i>	CTTGTTCTGCTTCGAGATGG GGTCTGCTGTTCCACCCTTTG	21 21	56°C	262/146bp
<i>C13orf23 X7F</i> <i>C13orf23 X9R</i>	GATACCTCCATGCCGACCAC CTGTATAGGTTTTGACGGATTC	20 22	56°C	163/76bp
<i>C13orf34 X2F</i> <i>C13orf34 X4R</i>	CCATGAACAACTCTCGCCAG GTCTCCACATCTTTATC	21 18	56°C	181/74bp
<i>C17orf39 X3F</i> <i>C17orf39 X6R</i>	GAGTATCCAACCCTTACAACCTC GCAGCCCAGCAGGGACTG	23 18	56°C	957/855bp
<i>NAP1L4 X14F</i> <i>NAP1L4 X16R</i>	GAATTAGAAGGTGACGAGGAGG CCAGGGAAGTCCAGAGCTAC	22 20	56°C	398/360bp
<i>NDEL1 X6F</i> <i>NDEL1 X8R</i>	CGGCTCCTAGCTCTCCAACCTC CGTGATGCTTGGTCCTTTGC	21 20	56°C	268/176bp
<i>PAPOLG X14F</i> <i>PAPOLG X17R</i>	CCGTGTACTTGTGGAAACTTGG GGATTGAAGTCCGCCCGAG	23 19	56°C	251/141bp
<i>RC3H2 X17F</i> <i>RC3H2 X19R</i>	GGCCATGCAACAGAAGTGG GGTGCTGCTGTACTGGATGCC	19 21	56°C	271/157bp
<i>THUMP2 X7F</i> <i>THUMP2 X9R</i>	GGAAGCTGCTAAAGAATGGC CACTTTCTGAAGGCAATGGC	20 20	56°C	161/46bp
<i>ZNF3 X1F</i> <i>ZNF3 X4R</i>	GTGACAGGGTCCAACAGGGC GGACTTGGCCTTTAGGAGCG	20 20	56°C	399/282/268/151bp

PCR Program:

Step	Temperature	Time	
Initial Denaturation	94°C	4:00	
Denaturation	94°C	0:30	} 35x
Annealing	TA	0:30	
Extension	72°C	2:00	
Final Extension	72°C	7:00	
End	4°C	∞	

Supplementary table S2B: Gene expression validation

Primer Name	Sequence	Length	Annealing Temperature TA	Product Size
<i>TASP1 F</i> <i>TASP1 R</i>	GTGGACCACGAAGGGAATGT AGGACAATCACTCCGCCAAG	20 20	65.4°C	320bp
<i>TSHZ3 F</i> <i>TSHZ3 R</i>	GAGAAGCATCATGCCGAGGA CGACACAGTCGTGTCTTCCA	20 20	60°C	346bp
<i>PSD3 F</i> <i>PSD3 R</i>	ACAATGCATCTGCACATTCCC GCAGGGAGCGTTTTGTGAC	21 20	60°C	523bp
<i>TMEM133 F</i> <i>TMEM133 R</i>	CCTTTTCCCCTTGCCACTCA AGGAGGCAGTTGAGGGTACA	20 20	60°C	521bp
<i>HIST2H2BF F</i> <i>HIST2H2BF R</i>	AGTGTGCAAGGGACGCAATA AGGCTAAGGGACGAAAGCAC	20 20	60°C	532bp
<i>PMAIP1 F</i> <i>PMAIP1 R</i>	ACTGGACAAAAGCGTGGTCT CACAGTAGGCCAGCGGTAAT	20 20	60°C	726bp
<i>SGK1 F</i> <i>SGK1 R</i>	AAACTGAGGCTGCTAAGGGC CAGTGAATGCAGGTAGCCCA	20 20	54.6°C	638bp
<i>FOS F</i> <i>FOS R</i>	TACTACCACTCACCCGAGA CAGGTTGGCAATCTCGGTCT	20 20	65.4°C	474bp

PCR Program:

Step	Temperature	Time
Initial Denaturation	94°C	4:00
Denaturation	94°C	0:30
Annealing	TA	0:30
Extension	72°C	2:00
Final Extension	72°C	7:00
End	4°C	∞

} 25x

Supplementary table S3A: Genes showing alternative splicing only between normal and cisplatin treated conditions

Transcript Cluster ID	Gene Symbol	p-value(Condition)	Alt-splicing(Condition)	Fold-Change(Cis vs. Nor)	Fold-Change(Cis vs. Nor) (Description)
3323052	NAV2	7.46E-05	0	-2.33621	Cis down vs Nor
3606304	AKAP13	0.000136924	0	-3.30542	Cis down vs Nor
2400373	EIF4G3	0.00507531	0	-1.5698	Cis down vs Nor
2431112	NOTCH2	0.00545317	0	-1.27761	Cis down vs Nor
2405992	ZMYM6	0.0201367	0	1.31167	Cis up vs Nor
3134034	PRKDC	0.0349434	0	1.16894	Cis up vs Nor
3508898	STARD13	1.45E-05	2.80E-45	-3.94034	Cis down vs Nor
2652410	FNDC3B	0.000659431	7.43E-44	-3.11135	Cis down vs Nor
3874023	PTPRA	0.00245178	7.71E-44	-1.17647	Cis down vs Nor
3615579	TJP1	0.197427	8.27E-44	-1.09277	Cis down vs Nor
3371544	AMBRA1	0.00102311	8.27E-43	-1.50585	Cis down vs Nor
2520291	GLS	0.0226767	1.91E-38	1.55746	Cis up vs Nor
3331487	CTNND1	0.0165024	2.03E-38	-1.1836	Cis down vs Nor
3336696	KDM2A	0.115242	6.36E-38	-1.0935	Cis down vs Nor
3140037	EYA1	0.00077385	1.05E-37	-2.52569	Cis down vs Nor
3049522	TNS3	0.000122108	3.51E-37	-2.51066	Cis down vs Nor
3874313	ATRN	0.0948303	1.80E-36	-1.12233	Cis down vs Nor
3633403	SIN3A	0.00110077	2.05E-35	-1.79065	Cis down vs Nor
3737488	RPTOR	0.000186187	4.04E-35	-2.32963	Cis down vs Nor
2933536	TULP4	0.00179835	9.03E-35	-2.06319	Cis down vs Nor
2973376	PTPRK	0.000842233	9.24E-35	-3.12999	Cis down vs Nor
2965206	EPHA7	0.000122149	8.83E-34	-2.5066	Cis down vs Nor
3195400	EHMT1	0.00148384	1.43E-33	-1.69779	Cis down vs Nor
3190558	SPTAN1	0.00300411	1.66E-33	1.31892	Cis up vs Nor
3918779	ITSN1	0.000199257	3.42E-33	-1.58476	Cis down vs Nor
3462094	ZFC3H1	0.162935	5.67E-33	1.16598	Cis up vs Nor
3156307	PTK2	0.000394114	6.29E-33	-2.31601	Cis down vs Nor
3553607	EIF5	9.52E-05	8.45E-33	1.70027	Cis up vs Nor
3881874	ASXL1	0.000569889	1.13E-32	-1.8931	Cis down vs Nor
3609138	CHD2	0.110058	1.14E-32	1.13262	Cis up vs Nor
3177880	DAPK1	0.000110939	1.44E-32	-3.83588	Cis down vs Nor
3820663	ILF3	0.954442	2.08E-32	1.00264	Cis up vs Nor
2404254	PUM1	0.00031956	3.46E-32	-1.81006	Cis down vs Nor
3150060	EXT1	1.29E-05	5.92E-32	-2.98092	Cis down vs Nor
2776372	WDFY3	0.000705697	7.33E-32	-2.11714	Cis down vs Nor
3046197	ELMO1	0.000106658	9.14E-32	-3.89017	Cis down vs Nor
3278401	FRMD4A	7.70E-05	1.14E-31	-2.08979	Cis down vs Nor
3353914	VWA5A	0.00283332	2.18E-31	1.78271	Cis up vs Nor
2395245	RERE	0.990177	2.30E-31	-1.00108	Cis down vs Nor
3464983	ATP2B1	0.000264261	2.43E-31	-2.23315	Cis down vs Nor
2969677	REV3L	0.0015344	2.72E-31	-1.74766	Cis down vs Nor
3253683	ZMIZ1	7.64E-05	5.95E-31	-2.73094	Cis down vs Nor
2326640	ARID1A	0.00768369	7.07E-31	-1.44137	Cis down vs Nor
2934801	MAP3K4	3.39E-05	1.35E-30	-1.60696	Cis down vs Nor
2353881	MAN1A2	0.00997449	2.05E-30	-1.38575	Cis down vs Nor
2998536	CDK13	0.000477345	2.44E-30	-1.32971	Cis down vs Nor
2748198	KIAA0922	0.000126195	2.90E-30	-3.70038	Cis down vs Nor
2429147	DENND2C	0.0676102	3.04E-30	-1.29719	Cis down vs Nor
3677795	CREBBP	0.00169241	4.09E-30	-1.92777	Cis down vs Nor
3715368	NLK	0.000215357	1.27E-29	-2.36332	Cis down vs Nor
2715820	HTT	0.104754	2.72E-29	-1.12942	Cis down vs Nor
3542207	SRSF5	0.0118689	2.82E-29	1.5936	Cis up vs Nor
3458735	AGAP2	0.0111178	3.72E-29	1.33292	Cis up vs Nor
3750625	POLDIP2	0.000547992	4.59E-29	1.44992	Cis up vs Nor
3240340	WAC	0.000160021	6.39E-29	-1.64188	Cis down vs Nor
2732655	FRAS1	0.231411	6.88E-29	1.30272	Cis up vs Nor
2930243	SASH1	0.000191561	9.18E-29	-1.52968	Cis down vs Nor
3303652	MRPL43	0.00285371	9.81E-29	1.70494	Cis up vs Nor
2408855	FOXJ3	5.95E-05	1.55E-28	-2.30948	Cis down vs Nor
3283920	ARHGAP12	0.000152497	2.05E-28	-2.92059	Cis down vs Nor
2943874	KIF13A	0.000167732	3.10E-28	-2.01122	Cis down vs Nor
3458857	AVIL	0.00051879	7.26E-28	2.16524	Cis up vs Nor
3672368	KIAA0182	0.00964122	8.07E-28	-1.362	Cis down vs Nor
3660858	CHD9	0.00174979	1.13E-27	-1.20312	Cis down vs Nor
2518889	ZNF804A	2.18E-05	1.33E-27	-4.62297	Cis down vs Nor
3843463	ZNF776	0.975049	1.41E-27	1.00319	Cis up vs Nor
2400793	HSPG2	0.0351325	1.61E-27	1.45843	Cis up vs Nor
2975867	MAP3K5	0.000161323	1.75E-27	-2.89776	Cis down vs Nor
3908149	ZMYND8	3.09E-05	2.46E-27	-2.23391	Cis down vs Nor
2503374	GLI2	0.00155081	3.33E-27	-1.53798	Cis down vs Nor
3376235	WDR74	0.000343032	5.80E-27	2.32754	Cis up vs Nor
2874794	RAPGEF6	0.000226771	1.07E-26	-2.27093	Cis down vs Nor
2343823	LPHN2	3.42E-05	1.16E-26	-3.55122	Cis down vs Nor
2554975	BCL11A	0.000325627	1.31E-26	-2.05233	Cis down vs Nor
2542816	PUM2	0.000698599	1.68E-26	-1.94394	Cis down vs Nor
3779817	CEP192	0.0468254	1.69E-26	1.24384	Cis up vs Nor
3407229	AEBP2	0.000398379	2.09E-26	-2.62089	Cis down vs Nor
3092808	NRG1	0.000321622	2.12E-26	-1.83323	Cis down vs Nor
2892979	CDYL	1.26E-06	2.17E-26	-2.49978	Cis down vs Nor
2326049	MAN1C1	7.66E-05	2.31E-26	-2.79963	Cis down vs Nor
3066297	SRPK2	0.000568582	2.32E-26	-2.26195	Cis down vs Nor
3542689	PCNX	0.000219072	4.53E-26	-1.78463	Cis down vs Nor
3738969	FO XK2	0.0022062	5.12E-26	-1.75499	Cis down vs Nor

3310041	FGFR2	0.00170035	1.56E-25	-3.81608	Cis down vs Nor
3912718	TAF4	0.101406	2.41E-25	-1.29913	Cis down vs Nor
3229529	CAMSAP1	0.00055943	2.66E-25	-2.11285	Cis down vs Nor
2883878	EBF1	0.00243235	3.06E-25	-2.43101	Cis down vs Nor
2582562	ACVR1	0.000655812	3.32E-25	-2.00833	Cis down vs Nor
2740067	ANK2	0.0480946	3.99E-25	-1.41904	Cis down vs Nor
3148796	NUDCD1	0.111061	4.63E-25	-1.19511	Cis down vs Nor
2600689	EPHA4	0.000387923	4.81E-25	-3.49629	Cis down vs Nor
3930360	RUNX1	0.000318732	5.64E-25	-1.78295	Cis down vs Nor
2532510	GIGYF2	0.0011796	7.95E-25	-2.15973	Cis down vs Nor
3818732	ARHGEF18	0.000244764	8.18E-25	-1.39942	Cis down vs Nor
3732448	BPTF	0.0616993	9.75E-25	-1.22076	Cis down vs Nor
2367793	KLHL20	0.330962	1.00E-24	-1.09332	Cis down vs Nor
2600881	PAX3	0.0823766	1.06E-24	1.22522	Cis up vs Nor
3400413	ERC1	0.000251048	1.11E-24	-2.14418	Cis down vs Nor
3837001	GRLF1	0.000191849	1.29E-24	-2.18556	Cis down vs Nor
3962678	PACSIN2	0.000117723	1.32E-24	-2.19358	Cis down vs Nor
3454576	SLC11A2	0.011084	1.37E-24	-1.5385	Cis down vs Nor
2453370	PLXNA2	0.000182302	1.51E-24	-2.10806	Cis down vs Nor
3517793	KLF12	1.06E-05	1.55E-24	-3.31697	Cis down vs Nor
3418394	SLC26A10	0.0955475	2.24E-24	1.57879	Cis up vs Nor
3361971	ST5	0.000187348	2.53E-24	-2.07278	Cis down vs Nor
3703885	SLC7A5	0.00415276	3.27E-24	-1.64795	Cis down vs Nor
3923436	TRAPPC10	0.00143748	3.64E-24	-1.4675	Cis down vs Nor
2320762	VPS13D	0.00483262	4.44E-24	-1.23405	Cis down vs Nor
3708366	C17orf81	0.00240448	5.74E-24	1.3949	Cis up vs Nor
2491386	TCF7L1	0.000652038	9.66E-24	-2.03155	Cis down vs Nor
3618333	MEIS2	0.000969683	1.09E-23	-2.20685	Cis down vs Nor
2726828	DCUN1D4	0.012952	1.26E-23	-1.50519	Cis down vs Nor
3760137	KIAA1267	0.00051881	1.45E-23	-1.79949	Cis down vs Nor
2952102	MTCH1	0.02395	1.60E-23	1.17092	Cis up vs Nor
3572041	KIAA0317	0.00102645	2.05E-23	-1.56788	Cis down vs Nor
3794458	ZNF236	0.0668134	2.23E-23	1.08772	Cis up vs Nor
2423017	EVI5	0.00643119	2.40E-23	-2.06792	Cis down vs Nor
3528172	TRAJ17	0.304014	3.27E-23	-1.11188	Cis down vs Nor
3666033	NFATC3	0.00155802	3.57E-23	-1.48655	Cis down vs Nor
3906160	CHD6	0.00018112	3.76E-23	-2.00651	Cis down vs Nor
3501661	ARHGEF7	5.26E-06	4.59E-23	-2.63583	Cis down vs Nor
3891447	EDN3	0.00199372	4.66E-23	-2.4993	Cis down vs Nor
3376155	NXF1	1.68E-05	5.22E-23	2.73758	Cis up vs Nor
3903525	NCOA6	0.0261884	5.80E-23	-1.38111	Cis down vs Nor
2715076	WHSC1	0.00648023	6.03E-23	-1.31981	Cis down vs Nor
3454223	RACGAP1	0.00804699	7.64E-23	-1.24151	Cis down vs Nor
3887479	EYA2	0.000287903	9.00E-23	-3.241	Cis down vs Nor
3746881	NCOR1	0.000783715	9.32E-23	-1.64495	Cis down vs Nor
2374746	NAV1	0.00238302	1.02E-22	-2.40505	Cis down vs Nor
3417842	LRP1	0.0347764	1.09E-22	1.46572	Cis up vs Nor
3304012	MGEA5	0.051406	1.12E-22	1.25568	Cis up vs Nor
3895232	UBOX5	0.10463	1.17E-22	1.16014	Cis up vs Nor
2773023	ANKRD17	8.28E-05	1.30E-22	-1.77014	Cis down vs Nor
2666566	NGLY1	0.00524765	1.48E-22	-1.51016	Cis down vs Nor
2862950	COL4A3BP	0.00198707	1.68E-22	-1.74865	Cis down vs Nor
2720584	SLIT2	0.00539963	1.75E-22	-1.37302	Cis down vs Nor
2722377	STIM2	1.53E-05	1.76E-22	-2.84513	Cis down vs Nor
3261165	BTRC	6.37E-05	2.54E-22	-3.48414	Cis down vs Nor
3153428	ASAP1	0.00351098	3.26E-22	-2.09922	Cis down vs Nor
3418153	MARS	0.189867	3.83E-22	-1.01624	Cis down vs Nor
3133345	SLC20A2	2.94E-05	4.28E-22	-2.02587	Cis down vs Nor
3453177	C12orf41	0.000190982	4.90E-22	2.36507	Cis up vs Nor
3473083	MED13L	6.25E-05	5.50E-22	-2.70191	Cis down vs Nor
2977621	PLAGL1	0.413374	5.61E-22	-1.13179	Cis down vs Nor
3883547	PHF20	0.000235653	5.85E-22	-2.12397	Cis down vs Nor
2553576	RTN4	0.0143902	6.12E-22	1.22607	Cis up vs Nor
3020343	MET	6.07E-05	7.63E-22	-2.80193	Cis down vs Nor
3030285	CUL1	0.000102456	8.02E-22	-2.01124	Cis down vs Nor
3391029	PPP2R1B	0.979786	9.21E-22	-1.00229	Cis down vs Nor
3607447	ABHD2	0.000777599	9.81E-22	-1.50007	Cis down vs Nor
3498315	UBAC2	0.00204924	1.00E-21	-1.37136	Cis down vs Nor
3629811	DENND4A	0.00236923	1.03E-21	-1.72916	Cis down vs Nor
3420079	LEMD3	0.0148836	1.07E-21	-1.27126	Cis down vs Nor
3016380	CUX1	0.00771349	1.13E-21	-1.24579	Cis down vs Nor
3013178	CASD1	0.000474868	1.24E-21	-2.54155	Cis down vs Nor
3959451	MYH9	0.177339	1.49E-21	-1.11792	Cis down vs Nor
3904594	C20orf117	0.0300499	1.57E-21	-1.20038	Cis down vs Nor
2427007	SORT1	0.101912	1.68E-21	-1.17911	Cis down vs Nor
2369843	CEP350	0.00298882	1.72E-21	-1.37846	Cis down vs Nor
3261971	CNNM2	0.000469141	2.07E-21	-1.69062	Cis down vs Nor
2549260	MAP4K3	0.000115739	2.58E-21	-3.39439	Cis down vs Nor
3766716	TEX2	0.000640675	2.70E-21	-2.12779	Cis down vs Nor
3958658	LARGE	0.00203884	3.07E-21	-1.98978	Cis down vs Nor
2806091	RAI14	0.0506273	3.39E-21	-1.44954	Cis down vs Nor
3518496	MYCBP2	0.000731564	3.43E-21	-1.3354	Cis down vs Nor
2606026	HDAC4	0.000211773	4.14E-21	-1.73486	Cis down vs Nor
3450899	SLC2A13	0.00265827	5.35E-21	-1.54057	Cis down vs Nor
3614087	UBE3A	0.00083412	5.41E-21	-1.76855	Cis down vs Nor
3716893	ATAD5	0.0112592	5.46E-21	-1.63515	Cis down vs Nor

3812426	RTTN	0.0230257	5.65E-21	-1.22442	Cis down vs Nor
2594089	SATB2	0.000664121	6.25E-21	-1.73289	Cis down vs Nor
3610804	IGF1R	0.00043199	7.43E-21	-2.42415	Cis down vs Nor
3704717	ANKRD11	0.000174309	7.84E-21	-1.95789	Cis down vs Nor
2482505	SPTBN1	0.113529	8.32E-21	-1.24457	Cis down vs Nor
3447348	SOX5	0.00037003	9.39E-21	-2.25888	Cis down vs Nor
2823551	MAN2A1	0.00704824	1.20E-20	-1.50333	Cis down vs Nor
3476457	NCOR2	0.21797	1.44E-20	-1.16558	Cis down vs Nor
2943434	ATXN1	0.00929015	1.45E-20	-1.71477	Cis down vs Nor
3774975	C17orf101	0.0181974	1.46E-20	-1.35565	Cis down vs Nor
3238962	KIAA1217	0.00192702	1.50E-20	-2.43848	Cis down vs Nor
2903343	BRD2	5.46E-06	1.90E-20	2.12622	Cis up vs Nor
2896177	JARID2	0.000626046	1.95E-20	-2.94971	Cis down vs Nor
3219885	PTPN3	2.19E-05	2.17E-20	-2.06709	Cis down vs Nor
4009506	PHF8	0.00579397	2.22E-20	-1.81536	Cis down vs Nor
3164601	KIAA1797	0.146549	2.89E-20	-1.16372	Cis down vs Nor
3268059	TACC2	0.000572394	3.14E-20	-1.49386	Cis down vs Nor
3571553	C14orf43	0.000562955	3.23E-20	-1.57523	Cis down vs Nor
2458921	ITPKB	0.000258059	3.26E-20	-1.56087	Cis down vs Nor
3920566	DYRK1A	5.15E-05	3.68E-20	-2.76691	Cis down vs Nor
3975467	KDM6A	2.61E-05	3.72E-20	-4.39429	Cis down vs Nor
3698256	ZFH3	0.202655	4.16E-20	-1.20196	Cis down vs Nor
3418354	ARHGEF25	0.00653609	4.76E-20	2.02548	Cis up vs Nor
3712675	RAI1	0.0117794	5.72E-20	-2.02992	Cis down vs Nor
2454935	ANGEL2	0.0404064	6.23E-20	1.27362	Cis up vs Nor
3335517	KAT5	0.000187716	6.36E-20	-1.55105	Cis down vs Nor
2464005	AKT3	0.215255	6.74E-20	1.13689	Cis up vs Nor
3778252	ANKRD12	0.380129	7.96E-20	1.07214	Cis up vs Nor
3847538	RANBP3	0.00171472	9.28E-20	-1.43487	Cis down vs Nor
3603336	IREB2	0.000617352	9.84E-20	-1.88761	Cis down vs Nor
2783788	PRDM5	0.599926	1.07E-19	1.03691	Cis up vs Nor
3407096	PLEKHA5	3.68E-06	1.08E-19	-3.08649	Cis down vs Nor
3483159	PAN3	0.000119501	1.21E-19	-2.3785	Cis down vs Nor
3619773	INO80	0.000101834	1.22E-19	-1.9629	Cis down vs Nor
2934191	PNLDC1	0.00046525	1.31E-19	4.1993	Cis up vs Nor
3440598	FOXM1	0.132515	1.33E-19	-1.11098	Cis down vs Nor
3540862	GPHN	6.96E-05	1.33E-19	-3.45508	Cis down vs Nor
3627422	RORA	0.000271603	1.48E-19	-1.65343	Cis down vs Nor
3599811	KIF23	0.0119256	1.53E-19	-1.31802	Cis down vs Nor
2782292	C4orf21	0.0685831	1.75E-19	-1.20765	Cis down vs Nor
3968122	TBL1X	0.000309681	1.95E-19	-2.25172	Cis down vs Nor
3791482	PHLPP1	0.000434982	1.96E-19	-3.04808	Cis down vs Nor
2676518	SFMBT1	4.02E-05	1.99E-19	-2.48909	Cis down vs Nor
3282974	SVIL	0.000266844	2.28E-19	-1.86106	Cis down vs Nor
3255402	FAM190B	0.00141032	2.32E-19	-1.8158	Cis down vs Nor
2932508	TIAM2	0.000187098	2.36E-19	-2.97666	Cis down vs Nor
2524301	NRP2	0.000258497	2.49E-19	-1.65678	Cis down vs Nor
3946192	TNRC6B	1.86E-05	2.52E-19	-1.88227	Cis down vs Nor
2930418	UST	0.000131724	2.83E-19	-4.66767	Cis down vs Nor
3184408	PALM2-AKAP2	0.0131876	3.33E-19	-1.57448	Cis down vs Nor
3006572	AUTS2	0.000108135	3.68E-19	-1.88216	Cis down vs Nor
3534128	FAM179B	0.0253063	3.69E-19	-1.34449	Cis down vs Nor
3548152	TDP1	6.84E-05	4.53E-19	-2.22198	Cis down vs Nor
3473802	TAK3	0.0164054	4.77E-19	-1.76689	Cis down vs Nor
3552847	DYNC1H1	0.000365003	5.42E-19	1.8115	Cis up vs Nor
3449760	DENND5B	0.000961379	5.48E-19	-2.29435	Cis down vs Nor
3196842	RFX3	0.00389762	5.68E-19	-1.43231	Cis down vs Nor
4012204	HDAC8	0.0179808	7.24E-19	-1.28476	Cis down vs Nor
3695107	TK2	0.673421	7.30E-19	-1.05767	Cis down vs Nor
3819968	ZNF177	0.0435087	7.63E-19	-1.32949	Cis down vs Nor
3101893	CSPP1	0.0389012	8.27E-19	-1.50437	Cis down vs Nor
2858134	PDE4D	0.0076887	8.46E-19	-1.23268	Cis down vs Nor
3911217	PMEP1	0.000284162	8.53E-19	-2.98434	Cis down vs Nor
3328389	EXT2	0.458016	8.56E-19	-1.04244	Cis down vs Nor
2581000	NEB	0.0281105	9.19E-19	2.07435	Cis up vs Nor
3484768	PDS5B	0.000169766	9.50E-19	-2.72587	Cis down vs Nor
3089360	SLC39A14	0.0293206	1.00E-18	-1.25973	Cis down vs Nor
3452970	SENP1	0.072726	1.01E-18	-1.15801	Cis down vs Nor
2879312	NR3C1	0.000546974	1.02E-18	-2.01688	Cis down vs Nor
2734421	ARHGAP24	4.30E-06	1.22E-18	-4.06693	Cis down vs Nor
2766588	PDS5A	0.000850316	1.24E-18	-1.81725	Cis down vs Nor
2739079	SEC24B	0.000111733	1.27E-18	-2.15061	Cis down vs Nor
2963929	RNGTT	0.000334602	1.40E-18	-2.93626	Cis down vs Nor
3291682	JMJD1C	2.07E-05	1.40E-18	-2.68373	Cis down vs Nor
2819044	RASA1	0.00691094	1.45E-18	-1.97702	Cis down vs Nor
2993206	MPP6	0.316787	1.48E-18	-1.14059	Cis down vs Nor
3680479	TXNDC11	0.000134321	1.65E-18	-1.60504	Cis down vs Nor
3249886	TET1	0.0251921	1.74E-18	-1.63458	Cis down vs Nor
2830861	EGR1	1.15E-05	1.93E-18	3.47423	Cis up vs Nor
3372253	CELF1	0.00208844	2.01E-18	-1.73933	Cis down vs Nor
3438417	SFSWAP	0.00184687	2.03E-18	-1.37452	Cis down vs Nor
3787675	KIAA0427	0.00241085	2.33E-18	-1.82376	Cis down vs Nor
2575196	SAP130	0.000176985	2.56E-18	-1.57936	Cis down vs Nor
3321512	PDE3B	0.00119133	2.68E-18	-1.85348	Cis down vs Nor
3845708	AP3D1	0.07064	3.31E-18	-1.21891	Cis down vs Nor
3091848	HMBX1	0.146976	3.41E-18	-1.14176	Cis down vs Nor

3024275	MKLN1	0.00394351	3.73E-18	-1.54359	Cis down vs Nor
2367963	RABGAP1L	0.000321762	3.92E-18	-1.44133	Cis down vs Nor
3632806	STRA6	0.144617	4.13E-18	-1.45278	Cis down vs Nor
2546409	ALK	0.000330957	4.32E-18	-2.63956	Cis down vs Nor
3740479	PRPF8	0.0235912	4.97E-18	1.18616	Cis up vs Nor
2627390	ATXN7	0.113656	6.48E-18	-1.13315	Cis down vs Nor
2648535	ARHGEF26	0.000969757	6.81E-18	-2.22883	Cis down vs Nor
2532894	DGKD	0.000511735	7.24E-18	-1.85606	Cis down vs Nor
3267036	GRK5	0.000233714	7.60E-18	-2.58264	Cis down vs Nor
3957589	MORC2	0.601726	8.11E-18	1.05074	Cis up vs Nor
2448073	IVNS1ABP	0.391485	8.77E-18	1.1299	Cis up vs Nor
3522398	DOCK9	0.000959142	9.84E-18	-2.15507	Cis down vs Nor
2621705	ATRIP	0.00095866	1.06E-17	1.8127	Cis up vs Nor
3340697	UVRAG	2.83E-05	1.06E-17	-3.83005	Cis down vs Nor
3273601	IDI1	0.0439632	1.14E-17	1.15483	Cis up vs Nor
3581515	BRF1	0.00335334	1.16E-17	-1.58045	Cis down vs Nor
3817501	CHAF1A	0.1406	1.17E-17	-1.093	Cis down vs Nor
3714177	SPECC1	0.20349	1.46E-17	1.14585	Cis up vs Nor
2334476	MAST2	0.000467778	1.46E-17	-1.69034	Cis down vs Nor
2850071	MYO10	0.00181975	1.57E-17	-2.01432	Cis down vs Nor
3272205	INPP5A	0.000490367	1.60E-17	-2.15732	Cis down vs Nor
2964553	BACH2	3.24E-05	1.60E-17	-2.33195	Cis down vs Nor
3340913	C11orf30	0.000230893	1.60E-17	-1.65634	Cis down vs Nor
2969886	FYN	7.13E-05	1.61E-17	-4.51788	Cis down vs Nor
3047660	GLI3	0.0025823	1.72E-17	-2.01301	Cis down vs Nor
3418610	XRCC6BP1	0.00193213	1.99E-17	1.47046	Cis up vs Nor
3694657	CDH11	0.00101833	2.01E-17	-2.90717	Cis down vs Nor
2595560	RAPH1	0.00410296	2.16E-17	-1.87091	Cis down vs Nor
2695941	TOPBP1	0.00534835	2.18E-17	-1.46402	Cis down vs Nor
2958325	DST	0.533318	2.26E-17	-1.04657	Cis down vs Nor
2520533	OBFC2A	0.840931	2.28E-17	-1.02038	Cis down vs Nor
3765167	USP32	0.00147679	2.35E-17	-2.40726	Cis down vs Nor
3381063	CLPB	9.75E-05	2.39E-17	-2.44163	Cis down vs Nor
3301263	SORBS1	0.00164876	2.53E-17	-1.69636	Cis down vs Nor
2788366	ZNF827	0.000412267	2.68E-17	-1.76034	Cis down vs Nor
2922631	DSE	0.264084	2.96E-17	1.08737	Cis up vs Nor
2517588	OSBPL6	0.000236743	3.05E-17	-2.2032	Cis down vs Nor
2560254	AUP1	0.000683922	3.22E-17	1.58025	Cis up vs Nor
3186491	PAPPA	0.03079	3.46E-17	-1.48376	Cis down vs Nor
3984945	ARMCX3	0.0043988	3.84E-17	1.3346	Cis up vs Nor
2336099	OSBPL9	0.0241573	3.85E-17	-1.29465	Cis down vs Nor
3368940	ABTB2	0.000112886	3.99E-17	-1.55235	Cis down vs Nor
2871821	TMED7	0.00645027	4.04E-17	1.5687	Cis up vs Nor
3453592	MLL2	0.0811162	4.11E-17	1.33158	Cis up vs Nor
3080033	MLL3	0.00019164	4.43E-17	-2.09418	Cis down vs Nor
2904329	ANKS1A	4.29E-06	4.57E-17	-2.99869	Cis down vs Nor
3023149	FLNC	0.0104942	4.61E-17	1.33304	Cis up vs Nor
2686023	DCBLD2	0.00433576	4.74E-17	-1.69654	Cis down vs Nor
2428760	RSBN1	0.0259977	4.88E-17	1.25942	Cis up vs Nor
3400034	WNK1	0.00566873	4.95E-17	-1.67229	Cis down vs Nor
3956226	MN1	0.0308113	5.00E-17	-1.395	Cis down vs Nor
3517251	DACH1	0.016406	5.06E-17	-2.61866	Cis down vs Nor
3367096	LGR4	0.000502972	5.15E-17	-2.94737	Cis down vs Nor
3139035	ARFGEF1	9.07E-05	5.22E-17	-2.22539	Cis down vs Nor
2802963	FBXL7	0.00055561	5.32E-17	-1.69432	Cis down vs Nor
3754469	ACACA	0.00916111	5.62E-17	-1.59605	Cis down vs Nor
3777991	KIAA0802	0.0519728	5.95E-17	-1.14559	Cis down vs Nor
3961496	MKL1	0.000458689	6.18E-17	-1.74636	Cis down vs Nor
2345617	PKN2	0.000521613	6.38E-17	-2.20587	Cis down vs Nor
2845699	SLC12A7	0.00250595	6.89E-17	-1.4314	Cis down vs Nor
3603199	IDH3A	0.310512	8.04E-17	1.11137	Cis up vs Nor
2680591	LRIG1	0.000238883	8.28E-17	-2.14755	Cis down vs Nor
3237088	STAM	0.00365621	8.68E-17	-1.2892	Cis down vs Nor
3885537	PLCG1	0.0826396	8.75E-17	1.25849	Cis up vs Nor
3187834	DAB2IP	0.00137293	8.88E-17	-1.63246	Cis down vs Nor
2774971	ANTXR2	0.00138948	9.16E-17	-1.34414	Cis down vs Nor
4014251	CHM	0.000672112	9.39E-17	-2.30839	Cis down vs Nor
2530599	AGFG1	0.000813715	9.63E-17	-1.69774	Cis down vs Nor
3525679	ANKRD10	0.00310863	1.00E-16	1.92023	Cis up vs Nor
3884830	PPP1R16B	0.00257361	1.02E-16	-2.20651	Cis down vs Nor
3999395	MID1	4.15E-05	1.17E-16	-2.92842	Cis down vs Nor
3598959	SMAD3	1.68E-05	1.21E-16	-2.52977	Cis down vs Nor
3216319	ZNF367	0.0114728	1.27E-16	1.83457	Cis up vs Nor
3023565	NRF1	0.00293043	1.28E-16	-1.67357	Cis down vs Nor
2788800	PRMT10	0.31504	1.30E-16	-1.16893	Cis down vs Nor
2634058	FAM55C	0.661045	1.39E-16	-1.06925	Cis down vs Nor
3944046	HMGXB4	0.00293874	1.45E-16	-1.8539	Cis down vs Nor
3185976	COL27A1	0.423319	1.56E-16	-1.0472	Cis down vs Nor
3606034	PDE8A	0.00179446	1.59E-16	-1.65107	Cis down vs Nor
3894995	SNRPB	0.124878	1.71E-16	1.14561	Cis up vs Nor
3427820	SLC25A3	0.00172456	1.73E-16	1.77416	Cis up vs Nor
2749699	RAPGEF2	3.35E-05	1.87E-16	-3.43972	Cis down vs Nor
3742067	UBE2G1	0.000421258	1.93E-16	-2.20849	Cis down vs Nor
2677723	ARHGEF3	7.51E-06	2.11E-16	-6.75312	Cis down vs Nor
2545681	GTF3C2	0.000580335	2.15E-16	-1.66397	Cis down vs Nor
2716025	RGS12	0.0358694	2.19E-16	-1.15702	Cis down vs Nor

3189422	FAM125B	0.000151859	2.57E-16	-1.81623	Cis down vs Nor
3927949	LTN1	0.0189202	2.62E-16	-1.28285	Cis down vs Nor
3908358	SULF2	0.00219757	2.74E-16	-1.55249	Cis down vs Nor
3524618	ARGLU1	0.054015	2.82E-16	1.23656	Cis up vs Nor
3365360	HPS5	0.44981	3.08E-16	-1.08301	Cis down vs Nor
3997946	PRKX	0.0001229	3.10E-16	-3.38415	Cis down vs Nor
3679564	USP7	0.000411685	3.22E-16	-1.54299	Cis down vs Nor
2477372	C2orf56	0.0060558	3.26E-16	1.37841	Cis up vs Nor
3289235	SGMS1	3.75E-06	3.46E-16	-2.58304	Cis down vs Nor
3971219	CNKSR2	2.21E-05	3.48E-16	-2.56752	Cis down vs Nor
3600283	THSD4	0.0251205	3.72E-16	-1.63843	Cis down vs Nor
3803290	FAM59A	7.20E-05	4.39E-16	-2.33772	Cis down vs Nor
3974838	DDX3X	0.0415407	4.73E-16	-1.14547	Cis down vs Nor
2938196	EXOC2	0.000377556	4.80E-16	-1.70443	Cis down vs Nor
2531779	ARMC9	0.00033129	5.07E-16	-1.55574	Cis down vs Nor
2932360	RBM16	0.00106144	5.65E-16	-1.52647	Cis down vs Nor
2722823	PCDH7	0.00540211	5.98E-16	-1.30656	Cis down vs Nor
3200040	BNC2	0.000283042	6.12E-16	-2.59199	Cis down vs Nor
3740838	SMG6	0.0874788	6.22E-16	-1.14717	Cis down vs Nor
2967550	ATG5	0.0015428	6.49E-16	-1.57351	Cis down vs Nor
3063685	MCM7	0.0127699	7.08E-16	1.0958	Cis up vs Nor
3540091	ZBTB1	0.000633719	7.50E-16	1.71429	Cis up vs Nor
3556990	JUB	0.414969	8.06E-16	-1.06868	Cis down vs Nor
3291151	RHOBTB1	0.00116778	8.12E-16	-1.34652	Cis down vs Nor
3773244	TBC1D16	0.000616951	8.49E-16	-1.57838	Cis down vs Nor
2793221	NEK1	0.00760685	9.07E-16	-1.57354	Cis down vs Nor
2859601	ADAMTS6	0.601198	9.11E-16	1.07256	Cis up vs Nor
3280787	C10orf140	0.00741179	9.13E-16	1.60817	Cis up vs Nor
2912416	BAI3	0.000822941	9.51E-16	-1.89302	Cis down vs Nor
3625539	NEDD4	0.0393834	9.62E-16	-1.52078	Cis down vs Nor
3929325	SYNJ1	0.0849067	9.81E-16	-1.26412	Cis down vs Nor
2480168	PRKCE	0.000848108	1.08E-15	-2.34525	Cis down vs Nor
2814527	BDP1	0.156213	1.10E-15	-1.15453	Cis down vs Nor
2954423	MRPL2	0.0238477	1.11E-15	1.16897	Cis up vs Nor
3242353	CREM	0.000749727	1.16E-15	1.52737	Cis up vs Nor
3228191	DDX31	0.746591	1.17E-15	1.02391	Cis up vs Nor
3234760	CELF2	0.0201865	1.19E-15	-1.62034	Cis down vs Nor
3472468	RBM19	0.153207	1.26E-15	-1.09469	Cis down vs Nor
3844978	SBN02	0.00782427	1.49E-15	-1.35436	Cis down vs Nor
3939183	BCR	0.00524958	1.50E-15	-1.60977	Cis down vs Nor
3212728	AGTPBP1	0.328542	1.58E-15	1.07474	Cis up vs Nor
3490504	ALG11	0.387037	1.60E-15	-1.12391	Cis down vs Nor
3886704	STK4	0.326523	1.64E-15	1.03857	Cis up vs Nor
3923354	AGPAT3	0.00725739	1.68E-15	-1.78765	Cis down vs Nor
3999568	ARHGAP6	0.00626259	1.73E-15	-1.84886	Cis down vs Nor
3559192	PRKD1	0.000101085	1.78E-15	-2.37024	Cis down vs Nor
3887635	NCOA3	1.87E-05	1.80E-15	-2.47846	Cis down vs Nor
2519756	WDR75	0.765705	1.89E-15	1.029	Cis up vs Nor
2717165	TBC1D14	0.000878442	1.91E-15	-1.82105	Cis down vs Nor
3507710	SLC7A1	0.000525603	1.92E-15	-2.21366	Cis down vs Nor
2840425	RANBP17	0.916428	1.99E-15	-1.01069	Cis down vs Nor
3578089	C14orf49	0.00183895	2.14E-15	-1.61323	Cis down vs Nor
3749086	AKAP10	0.00207199	2.14E-15	-1.70579	Cis down vs Nor
3457201	SARNP	0.0335589	2.18E-15	-1.15438	Cis down vs Nor
2813364	SLC30A5	0.0855551	2.20E-15	-1.22671	Cis down vs Nor
3815278	ARID3A	0.0036883	2.26E-15	-1.51072	Cis down vs Nor
3360941	ARFIP2	0.0126563	2.31E-15	1.36318	Cis up vs Nor
3542847	SIPA1L1	0.00023917	2.32E-15	-2.38309	Cis down vs Nor
2620538	LARS2	0.00270978	2.33E-15	-1.87137	Cis down vs Nor
2532110	DIS3L2	7.78E-06	2.52E-15	-1.98421	Cis down vs Nor
2648141	MBNL1	0.000277441	2.55E-15	-2.07658	Cis down vs Nor
3547610	ZC3H14	0.0084291	2.60E-15	-1.25622	Cis down vs Nor
3300242	CPEB3	0.00160111	2.70E-15	-1.60951	Cis down vs Nor
2722151	RBPJ	6.45E-05	2.74E-15	-1.69133	Cis down vs Nor
2459042	CDC42BPA	0.00450172	2.76E-15	-1.60192	Cis down vs Nor
3009198	RHBDD2	1.67E-05	2.83E-15	2.40908	Cis up vs Nor
2864849	SSBP2	0.000961992	2.84E-15	-3.38302	Cis down vs Nor
2601544	CUL3	0.000580346	2.89E-15	-1.90982	Cis down vs Nor
2844709	CNOT6	0.000986741	2.97E-15	-2.17511	Cis down vs Nor
2927506	TNFAIP3	0.0138685	2.99E-15	-1.56605	Cis down vs Nor
3496366	MIR17HG	0.0420878	3.06E-15	1.95464	Cis up vs Nor
3776504	TGIF1	0.151836	3.20E-15	1.15724	Cis up vs Nor
3872053	PEG3	0.0190964	3.20E-15	-1.07974	Cis down vs Nor
3359469	NAP1L4	0.73268	3.23E-15	1.02004	Cis up vs Nor
2794792	VEGFC	0.00116751	3.28E-15	-2.18141	Cis down vs Nor
3035464	MAD1L1	0.0389297	3.28E-15	-1.13721	Cis down vs Nor
2952497	BTBD9	0.00047116	3.32E-15	-1.98413	Cis down vs Nor
3427876	APAF1	0.00188872	3.33E-15	-1.65162	Cis down vs Nor
3695786	ACD	0.00087235	3.43E-15	1.59647	Cis up vs Nor
3896078	SLC23A2	6.18E-05	3.53E-15	-2.54526	Cis down vs Nor
3626826	MYO1E	1.72E-05	3.83E-15	-4.14781	Cis down vs Nor
3439836	RAD52	0.338447	3.92E-15	-1.08856	Cis down vs Nor
2989537	GLCCI1	0.000653655	4.03E-15	-1.48269	Cis down vs Nor
2338487	FGGY	0.0012141	4.07E-15	-1.53988	Cis down vs Nor
3240095	RAB18	0.995406	4.12E-15	-1.00058	Cis down vs Nor
2835213	PPARGC1B	0.0142262	4.18E-15	-1.34262	Cis down vs Nor

2935475	QKI	0.000350502	4.23E-15	-2.23223	Cis down vs Nor
3960133	CARD10	0.0389228	4.33E-15	-1.28101	Cis down vs Nor
2486178	MEIS1	0.000330526	4.48E-15	-3.40401	Cis down vs Nor
3190463	ODF2	0.0371398	4.51E-15	1.12008	Cis up vs Nor
2549092	SOS1	0.00162308	4.54E-15	-1.95028	Cis down vs Nor
2825514	DMXL1	0.000497872	4.96E-15	-2.1637	Cis down vs Nor
2655476	AP2M1	0.00370181	5.40E-15	1.64325	Cis up vs Nor
3517594	DIS3	0.000249447	5.44E-15	2.12525	Cis up vs Nor
3960629	DDX17	0.0164563	5.72E-15	-1.366	Cis down vs Nor
3362719	EIF4G2	0.000985038	6.10E-15	1.32639	Cis up vs Nor
3893910	TCEA2	0.00131798	6.17E-15	1.86501	Cis up vs Nor
2655387	EIF2B5	9.81E-05	6.22E-15	1.58484	Cis up vs Nor
3615985	MTMR10	0.00995712	6.68E-15	-1.20671	Cis down vs Nor
3611126	MEF2A	0.000794656	6.81E-15	-1.74064	Cis down vs Nor
3653317	RBBP6	0.00112702	6.83E-15	2.27999	Cis up vs Nor
3223157	DBC1	0.000145295	7.65E-15	-4.20918	Cis down vs Nor
2412529	NRD1	0.0775317	7.74E-15	1.18539	Cis up vs Nor
3176209	TLE4	5.65E-06	7.76E-15	-3.7336	Cis down vs Nor
3223646	PSMD5	0.915838	7.90E-15	1.00883	Cis up vs Nor
3129588	KIF13B	0.000981441	8.17E-15	-1.4428	Cis down vs Nor
2608469	ITPR1	0.000249951	8.30E-15	-1.72355	Cis down vs Nor
4004044	DMD	0.0218606	8.95E-15	-1.31378	Cis down vs Nor
3629698	DPP8	0.162929	9.02E-15	-1.1133	Cis down vs Nor
3723071	DBF4B	0.0976608	9.08E-15	-1.1273	Cis down vs Nor
2972063	C6orf170	0.0370703	9.37E-15	-1.56265	Cis down vs Nor
3298738	WAPAL	0.000146619	9.90E-15	-2.07393	Cis down vs Nor
3671727	ATP2C2	0.400587	1.06E-14	-1.06729	Cis down vs Nor
3147321	UBR5	9.72E-05	1.09E-14	-1.77236	Cis down vs Nor
2745899	HHIP	0.0246346	1.11E-14	-1.91302	Cis down vs Nor
3908631	PREX1	0.0102103	1.13E-14	-1.55119	Cis down vs Nor
2628785	MITF	0.00122698	1.16E-14	-1.64168	Cis down vs Nor
2437417	ASH1L	0.000885865	1.20E-14	-1.63985	Cis down vs Nor
3139722	NCOA2	6.13E-05	1.26E-14	-2.87221	Cis down vs Nor
2973694	ARHGAP18	0.000988241	1.28E-14	-2.96055	Cis down vs Nor
2619120	TRAK1	0.000115093	1.41E-14	-1.98736	Cis down vs Nor
2484970	EHBP1	0.000962579	1.42E-14	-2.53074	Cis down vs Nor
2381177	MARK1	0.00232619	1.45E-14	-1.41644	Cis down vs Nor
2379132	ATF3	0.000248489	1.46E-14	3.48667	Cis up vs Nor
2688759	ATG3	0.690554	1.49E-14	-1.03457	Cis down vs Nor
2364231	DDR2	0.000231718	1.54E-14	-1.82098	Cis down vs Nor
3532393	KIAA0391	0.00201778	1.73E-14	-1.69098	Cis down vs Nor
3904119	CPNE1	0.068704	1.73E-14	1.07915	Cis up vs Nor
3836266	FOSB	0.00177215	1.85E-14	2.8371	Cis up vs Nor
2346934	MTF2	0.00238281	1.94E-14	-1.75196	Cis down vs Nor
2417791	ANKRD13C	0.00456275	2.01E-14	-1.613	Cis down vs Nor
2579439	GTDC1	0.00849541	2.06E-14	-1.91271	Cis down vs Nor
2746119	SMAD1	0.00776	2.09E-14	-1.44193	Cis down vs Nor
3670772	CMIP	0.00633803	2.19E-14	-1.87474	Cis down vs Nor
3979912	AR	8.12E-05	2.30E-14	-1.70437	Cis down vs Nor
3929664	TMEM50B	0.137428	2.31E-14	1.07738	Cis up vs Nor
2675628	VPRBP	3.97E-06	2.41E-14	-2.44346	Cis down vs Nor
2584787	COBLL1	0.00258343	2.42E-14	-1.82186	Cis down vs Nor
2556752	SPRED2	2.21E-05	2.68E-14	-2.67497	Cis down vs Nor
3258221	HHEX	5.54E-05	2.70E-14	3.62491	Cis up vs Nor
3418007	SHMT2	0.000533935	2.73E-14	1.20926	Cis up vs Nor
3296386	DLG5	0.000623668	2.90E-14	-1.52808	Cis down vs Nor
3131881	PPAPDC1B	3.05E-05	3.02E-14	2.86218	Cis up vs Nor
3512294	TSC22D1	0.00115811	3.02E-14	1.60564	Cis up vs Nor
3917938	HUNK	0.00058614	3.03E-14	-3.67486	Cis down vs Nor
3072368	ZC3HC1	0.00522496	3.08E-14	-1.22249	Cis down vs Nor
2817731	ZFYVE16	0.00908794	3.15E-14	-1.63242	Cis down vs Nor
3880191	GZF1	8.13E-05	3.18E-14	2.49046	Cis up vs Nor
3179872	FAM120A	0.0879676	3.31E-14	-1.13478	Cis down vs Nor
3526831	RASA3	0.000294719	3.41E-14	-2.25984	Cis down vs Nor
3396770	CDON	0.00105686	3.43E-14	-1.6938	Cis down vs Nor
3106243	RIPK2	0.980757	3.43E-14	1.00217	Cis up vs Nor
3453882	MCRS1	0.0135932	3.47E-14	-1.32665	Cis down vs Nor
2663396	IQSEC1	0.0106697	3.52E-14	-1.34044	Cis down vs Nor
2775463	HNRNPD	0.00180957	3.55E-14	-1.18988	Cis down vs Nor
3227696	RAPGEF1	0.0294215	3.74E-14	-1.37773	Cis down vs Nor
3709244	CHD3	0.0019587	3.78E-14	1.36252	Cis up vs Nor
3010030	RSBN1L	0.000108138	3.80E-14	-2.91003	Cis down vs Nor
2587937	CHRNA1	0.241588	3.85E-14	1.06303	Cis up vs Nor
3408018	ETNK1	0.0204309	3.89E-14	1.33757	Cis up vs Nor
2901660	PRR3	0.10129	3.94E-14	-1.0666	Cis down vs Nor
3646434	UBN1	0.00302776	4.03E-14	1.41961	Cis up vs Nor
3860737	ZNF585A	0.0269185	4.06E-14	1.29543	Cis up vs Nor
3774635	FASN	0.220882	4.17E-14	1.27473	Cis up vs Nor
2319881	PEX14	5.39E-05	4.32E-14	-2.13883	Cis down vs Nor
2549565	SLC8A1	0.000576239	4.35E-14	-2.02308	Cis down vs Nor
3686164	GTF3C1	0.000360719	4.38E-14	-1.3538	Cis down vs Nor
4004878	RPGR	0.00422994	5.00E-14	-1.86637	Cis down vs Nor
2624074	GNL3	0.0296351	5.17E-14	1.19194	Cis up vs Nor
2759582	AFAP1	1.03E-05	5.19E-14	-2.14471	Cis down vs Nor
3371986	NUP160	0.000133404	5.19E-14	1.77239	Cis up vs Nor
3537164	PELI2	0.0119068	5.24E-14	-1.91515	Cis down vs Nor

3331730	ZFP91	0.0124226	5.62E-14	-1.21731	Cis down vs Nor
2887048	STK10	9.03E-05	5.69E-14	-1.81387	Cis down vs Nor
2481142	MSH6	0.0563166	5.94E-14	-1.23342	Cis down vs Nor
3238231	MLLT10	0.000123959	5.97E-14	-3.55223	Cis down vs Nor
3311775	DHX32	0.00489067	5.98E-14	-1.53811	Cis down vs Nor
2812435	ERBB2IP	0.000830162	6.15E-14	-2.13397	Cis down vs Nor
2766893	APBB2	0.000710343	6.30E-14	-3.21724	Cis down vs Nor
3772525	CYTH1	2.73E-05	6.64E-14	-2.22354	Cis down vs Nor
3994846	MTMR1	0.0120433	6.75E-14	-1.25954	Cis down vs Nor
2470165	TRIB2	0.0107643	7.47E-14	-1.70965	Cis down vs Nor
3147286	RRM2B	0.0325954	7.51E-14	1.32723	Cis up vs Nor
2895159	HIVEP1	0.00540475	7.75E-14	-1.59518	Cis down vs Nor
2691575	POLQ	0.236285	7.97E-14	-1.13687	Cis down vs Nor
3890180	CASS4	0.0549225	8.01E-14	1.22724	Cis up vs Nor
3821015	LDLR	0.0010186	8.10E-14	-1.85188	Cis down vs Nor
2615360	TGFBR2	0.00103384	8.77E-14	-2.61836	Cis down vs Nor
3518086	TBC1D4	0.000653218	9.51E-14	-1.93553	Cis down vs Nor
2643901	PPP2R3A	0.00180444	9.69E-14	-1.70485	Cis down vs Nor
3696571	TERF2	0.00427893	1.02E-13	1.52373	Cis up vs Nor
3736390	PGS1	0.000977747	1.07E-13	-1.74049	Cis down vs Nor
3509910	FAM48A	0.00179554	1.10E-13	-1.44056	Cis down vs Nor
2594627	FAM126B	0.0207177	1.12E-13	-1.58515	Cis down vs Nor
2436826	KCNN3	0.000264023	1.13E-13	-1.99621	Cis down vs Nor
3491948	TDRD3	0.469102	1.15E-13	-1.02471	Cis down vs Nor
3568184	ESR2	0.0492004	1.16E-13	-1.23867	Cis down vs Nor
2698738	XRN1	0.00369339	1.21E-13	-1.72062	Cis down vs Nor
2566764	REV1	0.000749775	1.22E-13	-1.79309	Cis down vs Nor
3765642	INTS2	0.00220003	1.25E-13	-1.87632	Cis down vs Nor
3707258	MINK1	0.0352525	1.31E-13	-1.28134	Cis down vs Nor
2681753	FOXP1	0.00508435	1.37E-13	-1.87182	Cis down vs Nor
3642060	CHSY1	0.0574697	1.40E-13	-1.27819	Cis down vs Nor
3932148	BRWD1	0.00251156	1.40E-13	-1.44269	Cis down vs Nor
3150844	SNTB1	0.00570015	1.45E-13	-1.75513	Cis down vs Nor
2385258	C1orf124	0.00406731	1.47E-13	1.59799	Cis up vs Nor
2431886	PDE4DIP	0.0270423	1.47E-13	-1.21352	Cis down vs Nor
2734784	AFF1	0.037926	1.48E-13	-1.13738	Cis down vs Nor
3035892	GNA12	8.98E-06	1.53E-13	-2.28204	Cis down vs Nor
2897635	CDKAL1	0.00347395	1.53E-13	-1.81587	Cis down vs Nor
4007617	PIM2	0.000350104	1.57E-13	2.71662	Cis up vs Nor
3201488	CDKN2B	0.000100808	1.58E-13	2.43972	Cis up vs Nor
2617276	CTDSPL	6.70E-05	1.60E-13	-1.76931	Cis down vs Nor
3023384	AHCYL2	0.00165683	1.61E-13	-1.39423	Cis down vs Nor
3279410	FAM188A	0.00771208	1.61E-13	-1.55828	Cis down vs Nor
2925237	LAMA2	0.0413963	1.71E-13	1.10225	Cis up vs Nor
2366490	BLZF1	0.727991	1.72E-13	1.03772	Cis up vs Nor
3475679	ZCCHC8	0.0297945	1.72E-13	-1.28628	Cis down vs Nor
3952825	C22orf29	0.0402299	1.79E-13	1.22455	Cis up vs Nor
2761734	FBXL5	0.0583851	1.85E-13	-1.14743	Cis down vs Nor
3470253	SART3	0.110909	2.00E-13	1.13607	Cis up vs Nor
3521174	ABCC4	0.00113927	2.00E-13	-1.67716	Cis down vs Nor
3719112	ZNHIT3	0.000156597	2.01E-13	1.65798	Cis up vs Nor
3220384	LPAR1	0.0101802	2.05E-13	-1.54257	Cis down vs Nor
3631794	MYO9A	0.000598772	2.15E-13	-2.11892	Cis down vs Nor
2934089	WTAP	0.00102596	2.15E-13	1.35678	Cis up vs Nor
2545869	IFT172	0.0483962	2.20E-13	-1.11554	Cis down vs Nor
3553141	TECPR2	0.000467139	2.22E-13	-1.52946	Cis down vs Nor
2816298	IQGAP2	0.00849803	2.27E-13	-1.17693	Cis down vs Nor
2926323	EYA4	0.000142945	2.27E-13	-2.36398	Cis down vs Nor
3952637	HIRA	5.05E-05	2.42E-13	-1.6651	Cis down vs Nor
3078493	ZNF425	9.58E-07	2.44E-13	7.15594	Cis up vs Nor
3789442	WDR7	0.000342564	2.53E-13	-1.75917	Cis down vs Nor
3564071	NIN	0.0279884	2.55E-13	-1.22607	Cis down vs Nor
3381925	PGM2L1	0.317184	2.56E-13	-1.07276	Cis down vs Nor
4021633	ENOX2	0.000473735	2.73E-13	-3.16348	Cis down vs Nor
3747657	FLCN	0.679199	2.81E-13	-1.06317	Cis down vs Nor
2583014	BAZ2B	7.76E-05	2.83E-13	-2.66658	Cis down vs Nor
2317317	TP73	0.060864	2.93E-13	-1.22795	Cis down vs Nor
3063083	SMURF1	1.74E-05	2.94E-13	-2.52522	Cis down vs Nor
3035682	FTSJ2	5.56E-05	3.06E-13	1.89949	Cis up vs Nor
2742134	SPATA5	0.00371605	3.18E-13	-1.42123	Cis down vs Nor
2319661	KIF1B	8.08E-05	3.27E-13	-1.80835	Cis down vs Nor
2571979	SLC35F5	0.138903	3.27E-13	-1.20008	Cis down vs Nor
3637818	NTRK3	0.00526751	3.36E-13	-1.37459	Cis down vs Nor
3998247	NLGN4X	0.00202571	3.45E-13	-2.61201	Cis down vs Nor
3575567	FOXN3	0.000594428	3.50E-13	-4.07766	Cis down vs Nor
3337067	RPS6KB2	0.000661299	3.51E-13	2.02278	Cis up vs Nor
2793137	SH3RF1	0.000197883	3.52E-13	-1.95247	Cis down vs Nor
3076076	SLC37A3	0.00779528	3.79E-13	-1.71331	Cis down vs Nor
2461786	ARID4B	0.000133326	3.83E-13	-3.28383	Cis down vs Nor
2544662	DNMT3A	0.00131959	3.88E-13	-1.4003	Cis down vs Nor
3576545	SMEK1	0.00265912	3.94E-13	-1.37259	Cis down vs Nor
3751237	SEZ6	0.00881227	3.96E-13	-1.5429	Cis down vs Nor
2609560	THUMPD3	0.14664	3.97E-13	-1.15956	Cis down vs Nor
3434525	MLEC	0.000203371	4.09E-13	1.76858	Cis up vs Nor
3764103	SRSF1	0.484361	4.11E-13	1.03169	Cis up vs Nor
2598099	BARD1	0.149103	4.19E-13	-1.14412	Cis down vs Nor

3943101	DEPDC5	0.00247938	4.20E-13	-1.64088	Cis down vs Nor
3020496	ST7	0.000601425	4.20E-13	-2.2175	Cis down vs Nor
2463482	OPN3	0.000116502	4.22E-13	2.48858	Cis up vs Nor
3452323	SLC38A2	0.0150333	4.48E-13	-1.34566	Cis down vs Nor
3685329	PALB2	0.0143011	4.50E-13	1.26287	Cis up vs Nor
3203753	UBAP2	0.00709205	4.53E-13	-1.30318	Cis down vs Nor
2666904	SLC4A7	0.433476	4.74E-13	-1.07487	Cis down vs Nor
3205659	SHB	0.009705	4.96E-13	-1.61746	Cis down vs Nor
2626802	PTPRG	0.00134208	5.03E-13	-1.6145	Cis down vs Nor
2551327	SRBD1	0.00797271	5.14E-13	-1.71656	Cis down vs Nor
3180342	C9orf3	0.00134295	5.38E-13	-1.43779	Cis down vs Nor
3262198	PDCD11	0.612009	5.69E-13	-1.03315	Cis down vs Nor
3125915	MTUS1	0.0326159	5.70E-13	-1.43427	Cis down vs Nor
3768015	HELZ	0.000975198	5.82E-13	-1.54471	Cis down vs Nor
3923257	PDXK	0.128058	6.13E-13	-1.10826	Cis down vs Nor
3573078	VIPAR	0.409767	6.15E-13	-1.05441	Cis down vs Nor
3457824	TIMELESS	0.002956	6.29E-13	1.28972	Cis up vs Nor
2434925	PI4KB	0.0227531	6.33E-13	-1.1159	Cis down vs Nor
3390067	NPAT	0.000522608	6.72E-13	-1.87302	Cis down vs Nor
2774817	PAQR3	0.00168346	6.91E-13	1.53569	Cis up vs Nor
3722917	GRN	0.00637828	7.19E-13	1.5135	Cis up vs Nor
2912649	COL19A1	0.163683	7.24E-13	-1.23217	Cis down vs Nor
3980643	DLG3	0.000290181	7.27E-13	-1.34702	Cis down vs Nor
2727976	CEP135	0.0141692	7.35E-13	-1.3482	Cis down vs Nor
3427352	NEDD1	0.904887	7.55E-13	1.01847	Cis up vs Nor
3759186	GPATCH8	5.30E-06	7.82E-13	-1.86582	Cis down vs Nor
3014411	TRRAP	0.129876	8.02E-13	-1.09755	Cis down vs Nor
2971801	MAN1A1	0.0497538	8.08E-13	-1.26443	Cis down vs Nor
2982319	SOD2	9.32E-06	8.14E-13	4.10009	Cis up vs Nor
3401119	ITFG2	0.0180325	8.14E-13	1.19077	Cis up vs Nor
3796335	LPIN2	0.0205356	8.52E-13	-1.20157	Cis down vs Nor
2488252	DYSF	0.192344	8.66E-13	1.20172	Cis up vs Nor
3422326	TBC1D15	0.0088803	8.93E-13	-1.5589	Cis down vs Nor
3391093	ALG9	0.447498	9.08E-13	-1.05388	Cis down vs Nor
3845495	REXO1	0.630095	9.11E-13	1.05197	Cis up vs Nor
2654394	FXR1	0.0506406	9.30E-13	-1.19588	Cis down vs Nor
2536298	2-Sep	0.00125146	9.35E-13	1.30744	Cis up vs Nor
2423422	BCAR3	1.81E-05	9.35E-13	-2.66891	Cis down vs Nor
2635641	PVRL3	0.0547879	9.44E-13	-1.68008	Cis down vs Nor
2699564	PLOD2	0.00313606	9.50E-13	1.47929	Cis up vs Nor
2864449	SERINC5	0.0102031	9.53E-13	-1.36617	Cis down vs Nor
3559497	STRN3	0.00190969	9.55E-13	-2.10774	Cis down vs Nor
2984275	PDE10A	0.000258038	9.74E-13	-1.65282	Cis down vs Nor
3069955	TSPAN12	0.0219464	9.79E-13	-1.32256	Cis down vs Nor
3755655	FBXL20	0.000462733	9.97E-13	-1.89104	Cis down vs Nor
3398145	PRDM10	0.000103503	1.04E-12	-1.4617	Cis down vs Nor
3540552	FUT8	0.00600942	1.09E-12	-2.27957	Cis down vs Nor
2326496	DHDDS	0.170139	1.09E-12	-1.10046	Cis down vs Nor
2400518	ECE1	0.0163268	1.13E-12	-1.43254	Cis down vs Nor
3325907	HIPK3	0.00578882	1.15E-12	-1.33569	Cis down vs Nor
2634027	CEP97	0.666337	1.16E-12	-1.05754	Cis down vs Nor
3536786	FBXO34	0.000302147	1.21E-12	-2.05658	Cis down vs Nor
3041875	OSBPL3	0.00606086	1.22E-12	-1.84691	Cis down vs Nor
3401828	DYRK4	0.00105092	1.24E-12	2.92477	Cis up vs Nor
2476075	SPAST	0.00191531	1.28E-12	-1.84435	Cis down vs Nor
3362468	SBF2	0.00031667	1.33E-12	-2.81737	Cis down vs Nor
3168700	ZCCHC7	0.407657	1.35E-12	1.03793	Cis up vs Nor
3704376	FAM38A	0.923003	1.40E-12	1.0127	Cis up vs Nor
2348896	CDC14A	0.000213253	1.41E-12	-1.67417	Cis down vs Nor
3260099	C10orf28	0.00376426	1.44E-12	-1.27956	Cis down vs Nor
2645275	SLC25A36	0.632104	1.51E-12	1.04041	Cis up vs Nor
3845365	TCF3	0.23702	1.51E-12	-1.10972	Cis down vs Nor
2565592	SEMA4C	0.0140136	1.58E-12	1.38106	Cis up vs Nor
3375245	DBB1	0.1729	1.61E-12	1.08421	Cis up vs Nor
2343170	CCDC55	0.00662299	1.61E-12	-1.7896	Cis down vs Nor
3945877	SMCR7L	0.000297501	1.68E-12	1.45501	Cis up vs Nor
3633890	SCAPER	3.39E-05	1.68E-12	-1.99481	Cis down vs Nor
2586603	TLK1	0.000218384	1.70E-12	-2.64835	Cis down vs Nor
3623771	TRPM7	0.0103835	1.70E-12	-1.3474	Cis down vs Nor
3261765	SUFU	5.30E-05	1.72E-12	-1.48371	Cis down vs Nor
3194635	C9orf86	0.0233307	1.74E-12	1.32859	Cis up vs Nor
3773174	CBX4	2.78E-05	1.85E-12	2.11383	Cis up vs Nor
2956052	TNFRSF21	0.00842213	1.96E-12	-1.22077	Cis down vs Nor
3421300	MDM2	0.00192871	2.02E-12	-1.57962	Cis down vs Nor
3915087	USP25	0.0012032	2.04E-12	-1.63567	Cis down vs Nor
3397877	ARHGAP32	0.00103746	2.06E-12	-2.12287	Cis down vs Nor
3261492	NOLC1	0.000157828	2.10E-12	1.81505	Cis up vs Nor
2601995	IRS1	0.000222811	2.17E-12	-1.83654	Cis down vs Nor
2612175	NR2C2	0.00561652	2.19E-12	-1.58646	Cis down vs Nor
4019849	LAMP2	0.0122698	2.25E-12	1.55742	Cis up vs Nor
3371673	ARHGAP1	6.14E-05	2.31E-12	1.47777	Cis up vs Nor
2797393	FAT1	0.0590087	2.35E-12	-1.20193	Cis down vs Nor
2510713	FMNL2	0.000304462	2.36E-12	-2.21853	Cis down vs Nor
3948259	PRR5-ARHGAP8	0.0682706	2.44E-12	-1.3181	Cis down vs Nor
3199207	NFIB	0.00135466	2.46E-12	-1.33382	Cis down vs Nor
3448152	ITPR2	0.0111367	2.47E-12	-1.37502	Cis down vs Nor

3252382	MYST4	0.000155299	2.52E-12	-3.06791	Cis down vs Nor
3591674	C15orf63	0.000663403	2.54E-12	3.53211	Cis up vs Nor
3906062	ZHX3	0.00359708	2.55E-12	-1.63612	Cis down vs Nor
3488602	LRCH1	1.44E-05	2.55E-12	-2.58557	Cis down vs Nor
3377044	SF1	0.484175	2.59E-12	1.10737	Cis up vs Nor
3970642	CDKL5	0.000322346	2.65E-12	-2.18861	Cis down vs Nor
2989493	MIOS	0.70801	2.66E-12	-1.03715	Cis down vs Nor
3599280	SKOR1	5.55E-05	2.72E-12	-2.03525	Cis down vs Nor
3185643	RGS3	0.274467	2.78E-12	-1.07906	Cis down vs Nor
3255220	GHITM	0.00123603	2.89E-12	1.7158	Cis up vs Nor
2369110	RASAL2	8.54E-05	2.99E-12	-2.92316	Cis down vs Nor
2833286	ARHGAP26	0.00116053	3.12E-12	-1.88868	Cis down vs Nor
3931112	HLCS	0.000125994	3.16E-12	-1.52724	Cis down vs Nor
2565410	KIAA1310	0.0140575	3.17E-12	1.40865	Cis up vs Nor
3526378	PCID2	0.0978902	3.23E-12	1.12958	Cis up vs Nor

Supplementary table S3B: Genes showing differential expression only between normal and cisplatin treated conditions

Transcript ID	Gene Symbol	p-value(Condition)	Fold-Change(Cis vs. Nor)	Fold-Change(Cis vs. Nor) (Description)
3995804	SLC6A8	4.14E-07	2.06006	Cis up vs Nor
3790704	PMAIP1	7.37E-07	10.7091	Cis up vs Nor
2910680	LRRC1	7.44E-07	-2.03935	Cis down vs Nor
3078493	ZNF425	9.58E-07	7.15594	Cis up vs Nor
2892979	CDYL	1.26E-06	-2.49978	Cis down vs Nor
3417345	RPL41	2.22E-06	8.68572	Cis up vs Nor
3180717	C9orf102	2.38E-06	-2.82613	Cis down vs Nor
2871923	ATG12	2.61E-06	2.66119	Cis up vs Nor
2509740	MBD5	2.83E-06	-2.1173	Cis down vs Nor
3497586	MBNL2	3.08E-06	-3.43637	Cis down vs Nor
3407096	PLEKHA5	3.68E-06	-3.08649	Cis down vs Nor
3858285	TSHZ3	3.70E-06	-7.29248	Cis down vs Nor
3590239	DLL4	3.70E-06	2.64509	Cis up vs Nor
2675628	VPRBP	3.97E-06	-2.44346	Cis down vs Nor
2904329	ANKS1A	4.29E-06	-2.99869	Cis down vs Nor
2734421	ARHGAP24	4.30E-06	-4.06694	Cis down vs Nor
3928070	CCT8	5.17E-06	2.18587	Cis up vs Nor
3501661	ARHGEF7	5.26E-06	-2.63583	Cis down vs Nor
3544525	FOS	5.31E-06	9.07849	Cis up vs Nor
2903343	BRD2	5.46E-06	2.12622	Cis up vs Nor
2900091	HIST1H2AL	5.60E-06	-2.89326	Cis down vs Nor
3176209	TLE4	5.65E-06	-3.73361	Cis down vs Nor
3757970	PSMC3IP	5.68E-06	2.72188	Cis up vs Nor
3807474	C18orf32	6.18E-06	4.13326	Cis up vs Nor
3289235	SGMS1	6.41E-06	-2.42717	Cis down vs Nor
2330687	ZC3H12A	6.43E-06	2.28872	Cis up vs Nor
3099566	FAM110B	6.49E-06	-4.90272	Cis down vs Nor
3108859	OSR2	6.55E-06	2.28594	Cis up vs Nor
3571347	NUMB	6.96E-06	-2.80428	Cis down vs Nor
3211579	TLE1	7.31E-06	-2.97644	Cis down vs Nor
3404636	GABARAPL1	7.48E-06	2.45385	Cis up vs Nor
2677723	ARHGEF3	7.51E-06	-6.75312	Cis down vs Nor
2601648	DOCK10	8.10E-06	-2.62395	Cis down vs Nor
2494484	NCAPH	8.50E-06	-2.22122	Cis down vs Nor
2863885	LHFPL2	8.77E-06	-3.16874	Cis down vs Nor
3035892	GNA12	8.98E-06	-2.28204	Cis down vs Nor
2982319	SOD2	9.32E-06	4.10006	Cis up vs Nor
2835531	NDST1	1.03E-05	-2.10048	Cis down vs Nor
2759582	AFAP1	1.03E-05	-2.14471	Cis down vs Nor
3555300	CCNB1IP1	1.04E-05	2.09823	Cis up vs Nor
2420427	GNG5	1.10E-05	2.35447	Cis up vs Nor
3346147	ARHGAP42	1.12E-05	-6.74962	Cis down vs Nor
2977265	HIVEP2	1.14E-05	-3.06369	Cis down vs Nor
2830861	EGR1	1.15E-05	3.47423	Cis up vs Nor
2830698	FAM53C	1.17E-05	2.95936	Cis up vs Nor
3414632	DIP2B	1.18E-05	-2.52023	Cis down vs Nor
3219215	KLF4	1.23E-05	2.59393	Cis up vs Nor
3320123	ADM	1.24E-05	2.83297	Cis up vs Nor
3150060	EXT1	1.29E-05	-2.98093	Cis down vs Nor
3147173	NCALD	1.32E-05	-2.21482	Cis down vs Nor
3488602	LRCH1	1.44E-05	-2.58557	Cis down vs Nor
3228884	VAV2	1.46E-05	-2.76453	Cis down vs Nor
3217487	ALG2	1.51E-05	2.43915	Cis up vs Nor
2722377	STIM2	1.53E-05	-2.84513	Cis down vs Nor
3063083	SMURF1	1.59E-05	-2.45678	Cis down vs Nor
3126368	PSD3	1.64E-05	-7.20945	Cis down vs Nor
3009198	RHBDD2	1.67E-05	2.40908	Cis up vs Nor
3598959	SMAD3	1.68E-05	-2.52977	Cis down vs Nor
3376155	NXF1	1.68E-05	2.73759	Cis up vs Nor
2852742	AMACR	1.69E-05	3.98848	Cis up vs Nor
3626826	MYO1E	1.72E-05	-4.14781	Cis down vs Nor
3419641	SRGAP1	1.73E-05	-3.48765	Cis down vs Nor
3508898	STARD13	1.78E-05	-3.75445	Cis down vs Nor
2409104	SLC2A1	1.79E-05	-2.37242	Cis down vs Nor
3677168		1.80E-05	2.20405	Cis up vs Nor
2423422	BCAR3	1.81E-05	-2.66891	Cis down vs Nor
3887635	NCOA3	1.87E-05	-2.47846	Cis down vs Nor
3219885	PTPN3	1.93E-05	-2.03439	Cis down vs Nor
3517793	KLF12	1.94E-05	-3.12417	Cis down vs Nor
2515471	DLX1	1.95E-05	2.17935	Cis up vs Nor
2402111	C1orf63	1.97E-05	6.37443	Cis up vs Nor

2842429	C5orf25	1.98E-05	-2.07788	Cis down vs Nor
2447066	GLUL	2.00E-05	2.23039	Cis up vs Nor
3291682	JMJD1C	2.07E-05	-2.68373	Cis down vs Nor
3610958	IGF1R	2.09E-05	-4.33744	Cis down vs Nor
2623308	GRM2	2.09E-05	2.3399	Cis up vs Nor
3480657	SAP18	2.10E-05	2.53121	Cis up vs Nor
3723348	HEXIM1	2.11E-05	6.24286	Cis up vs Nor
2518889	ZNF804A	2.18E-05	-4.62297	Cis down vs Nor
3971219	CNKSR2	2.21E-05	-2.56751	Cis down vs Nor
2556752	SPRED2	2.21E-05	-2.67497	Cis down vs Nor
2835021	PCYOX1L	2.26E-05	3.40334	Cis up vs Nor
2333677		2.39E-05	2.52817	Cis up vs Nor
2957596	ELOVL5	2.39E-05	-2.36113	Cis down vs Nor
3799461	SPIRE1	2.44E-05	-3.77228	Cis down vs Nor
2326954	TMEM222	2.48E-05	2.61579	Cis up vs Nor
3430462	BTBD11	2.53E-05	-2.36748	Cis down vs Nor
3971806	SAT1	2.59E-05	7.57743	Cis up vs Nor
2506903	MGAT5	2.59E-05	-3.43383	Cis down vs Nor
3975467	KDM6A	2.61E-05	-4.39429	Cis down vs Nor
2427208	GSTM3	2.68E-05	2.50122	Cis up vs Nor
3772525	CYTH1	2.73E-05	-2.22353	Cis down vs Nor
3773174	CBX4	2.78E-05	2.11382	Cis up vs Nor
3340697	UVRAG	2.83E-05	-3.83005	Cis down vs Nor
2981874	DYNLT1	2.83E-05	2.54071	Cis up vs Nor
2643592	EPHB1	2.86E-05	-2.38137	Cis down vs Nor
3686339	XPO6	2.88E-05	-2.30265	Cis down vs Nor
2375596	ADORA1	2.92E-05	-2.21867	Cis down vs Nor
3133345	SLC20A2	2.94E-05	-2.02587	Cis down vs Nor
3636956	WDR73	3.00E-05	2.03349	Cis up vs Nor
3131881	PPAPDC1B	3.05E-05	2.86218	Cis up vs Nor
3908149	ZMYND8	3.09E-05	-2.23391	Cis down vs Nor
4014076	HDX	3.10E-05	-2.34042	Cis down vs Nor
2757347	TMEM129	3.18E-05	2.01113	Cis up vs Nor
3729002	C17orf71	3.21E-05	2.9463	Cis up vs Nor
3321237		3.22E-05	3.35092	Cis up vs Nor
2964553	BACH2	3.24E-05	-2.33195	Cis down vs Nor
3215701	FANCC	3.34E-05	-2.53346	Cis down vs Nor
2749699	RAPGEF2	3.35E-05	-3.43972	Cis down vs Nor
2880361	JAKMIP2	3.36E-05	-5.47856	Cis down vs Nor
3822216	IER2	3.40E-05	2.25056	Cis up vs Nor
2343823	LPHN2	3.42E-05	-3.55122	Cis down vs Nor
3392044	C11orf71	3.54E-05	2.77676	Cis up vs Nor
2397695	CASP9	3.55E-05	-2.11615	Cis down vs Nor
3862640	SERTAD1	3.56E-05	3.64998	Cis up vs Nor
2369484	TOR3A	3.56E-05	2.02031	Cis up vs Nor
3821893	JUNB	3.69E-05	3.56232	Cis up vs Nor
2976360	PERP	3.71E-05	2.88852	Cis up vs Nor
3751625	SSH2	3.75E-05	-6.22237	Cis down vs Nor
3430129	POLR3B	3.78E-05	-3.48414	Cis down vs Nor
2957227	TRAM2	3.91E-05	-2.48002	Cis down vs Nor
2434031	HIST2H2BF	3.93E-05	11.3433	Cis up vs Nor
3561039	NFKBIA	4.01E-05	2.51504	Cis up vs Nor
2676518	SFMBT1	4.02E-05	-2.48909	Cis down vs Nor
2398073	FBXO42	4.05E-05	-2.42588	Cis down vs Nor
3988987	NDUFA1	4.13E-05	2.19425	Cis up vs Nor
3999395	MID1	4.15E-05	-2.92843	Cis down vs Nor
2644155	NCK1	4.18E-05	-2.98265	Cis down vs Nor
4005392	BCOR	4.20E-05	-2.72159	Cis down vs Nor
3858852	RHPN2	4.25E-05	-2.367	Cis down vs Nor
2583602	RBMS1	4.34E-05	-2.84184	Cis down vs Nor
3762473	TOB1	4.43E-05	4.78088	Cis up vs Nor
3538703	MNAT1	4.45E-05	-2.40364	Cis down vs Nor
3898126	TASP1	4.55E-05	-11.4856	Cis down vs Nor
2691014	GSK3B	4.59E-05	-2.31858	Cis down vs Nor
3978169	TSPYL2	4.69E-05	4.62009	Cis up vs Nor
2591367	CALCRL	4.75E-05	-3.77586	Cis down vs Nor
3035135	ZFAND2A	4.81E-05	3.14552	Cis up vs Nor
2468622	ID2	4.85E-05	7.87798	Cis up vs Nor
2327045	GPR3	4.95E-05	2.09063	Cis up vs Nor
3920566	DYRK1A	5.15E-05	-2.76691	Cis down vs Nor
2897576	E2F3	5.15E-05	-2.83302	Cis down vs Nor
3977299	CLCN5	5.19E-05	-2.28138	Cis down vs Nor
3888522	SNAI1	5.21E-05	2.0614	Cis up vs Nor
2772876	ADAMTS3	5.23E-05	-3.08649	Cis down vs Nor

2319881	PEX14	5.39E-05	-2.13883	Cis down vs Nor
2975014	SGK1	5.47E-05	9.7803	Cis up vs Nor
3258221	HHEX	5.54E-05	3.6249	Cis up vs Nor
3599280	SKOR1	5.55E-05	-2.03525	Cis down vs Nor
3959918	TST	5.65E-05	3.23168	Cis up vs Nor
2871241	MCC	5.71E-05	-2.13784	Cis down vs Nor
3081613	LMBR1	5.81E-05	-6.21398	Cis down vs Nor
3490251	WDFY2	5.89E-05	-2.39358	Cis down vs Nor
2408855	FOXJ3	5.95E-05	-2.30947	Cis down vs Nor
2807000	WDR70	6.01E-05	-3.17016	Cis down vs Nor
3294280	DNAJC9	6.03E-05	2.18331	Cis up vs Nor
3329461	ZNF408	6.04E-05	2.2681	Cis up vs Nor
2325206		6.04E-05	2.26378	Cis up vs Nor
3253683	ZMZ1	6.06E-05	-2.66852	Cis down vs Nor
3020343	MET	6.07E-05	-2.80192	Cis down vs Nor
3139722	NCOA2	6.13E-05	-2.87221	Cis down vs Nor
3896078	SLC23A2	6.18E-05	-2.54526	Cis down vs Nor
2759303	MRFAP1L1	6.20E-05	2.11547	Cis up vs Nor
2363562	FCER1G	6.21E-05	4.80948	Cis up vs Nor
3473083	MED13L	6.24E-05	-2.70191	Cis down vs Nor
3261165	BTRC	6.37E-05	-3.48414	Cis down vs Nor
2899756	HIST1H2AG	6.37E-05	2.08299	Cis up vs Nor
2946232	HIST1H1C	6.38E-05	-3.61619	Cis down vs Nor
3921068	ETS2	6.50E-05	2.11438	Cis up vs Nor
2360887	RUSC1	6.52E-05	2.19241	Cis up vs Nor
3992521	HTATSF1	6.67E-05	2.22562	Cis up vs Nor
3548152	TDP1	6.84E-05	-2.22197	Cis down vs Nor
3872542	ZNF418	6.95E-05	2.87255	Cis up vs Nor
3540862	GPHN	6.96E-05	-3.45508	Cis down vs Nor
3697632	ZNF23	7.00E-05	2.52678	Cis up vs Nor
2768468	FRYL	7.13E-05	-3.19887	Cis down vs Nor
2969886	FYN	7.13E-05	-4.51788	Cis down vs Nor
3803290	FAM59A	7.20E-05	-2.33772	Cis down vs Nor
3049522	TNS3	7.20E-05	-2.4555	Cis down vs Nor
3730240	TLK2	7.37E-05	-2.22486	Cis down vs Nor
3323052	NAV2	7.46E-05	-2.3362	Cis down vs Nor
3277468	USP6NL	7.48E-05	-2.65161	Cis down vs Nor
2333670		7.54E-05	2.04649	Cis up vs Nor
2887309	DUSP1	7.59E-05	2.96858	Cis up vs Nor
2562233	RETSAT	7.63E-05	3.31099	Cis up vs Nor
2326049	MAN1C1	7.66E-05	-2.79963	Cis down vs Nor
3278401	FRMD4A	7.70E-05	-2.08979	Cis down vs Nor
2583014	BAZ2B	7.76E-05	-2.66658	Cis down vs Nor
2403158	AHDC1	7.79E-05	-2.97386	Cis down vs Nor
3633460	PTPN9	7.79E-05	-3.04983	Cis down vs Nor
2365210	UCK2	7.96E-05	-2.02944	Cis down vs Nor
3880191	GZF1	8.13E-05	2.49047	Cis up vs Nor
3719474	TADA2A	8.13E-05	-2.08269	Cis down vs Nor
2857204	PPAP2A	8.17E-05	-2.46152	Cis down vs Nor
2327418	MED18	8.37E-05	2.42966	Cis up vs Nor
3716337	CCDC55	8.42E-05	-2.01535	Cis down vs Nor
2998404	RALA	8.42E-05	-2.05769	Cis down vs Nor
2369110	RASAL2	8.54E-05	-2.92316	Cis down vs Nor
2545613	SLC30A3	8.55E-05	2.13403	Cis up vs Nor
3391234	TIMM8B	8.64E-05	2.39805	Cis up vs Nor
3457275	MMP19	8.85E-05	2.05488	Cis up vs Nor
2869880	EFNA5	8.89E-05	-3.53924	Cis down vs Nor
2353988	FAM46C	8.93E-05	3.11332	Cis up vs Nor
3210808	GNAQ	8.95E-05	-2.95894	Cis down vs Nor
2338719	NFIA	8.98E-05	-2.3191	Cis down vs Nor
3710681	MAP2K4	9.03E-05	-2.35811	Cis down vs Nor
2943808	NUP153	9.09E-05	-2.92946	Cis down vs Nor
3687308	KCTD13	9.11E-05	3.00047	Cis up vs Nor
3099089	CHCHD7	9.14E-05	2.94274	Cis up vs Nor
3942179	MTMR3	9.57E-05	-2.55942	Cis down vs Nor
3161566	KDM4C	9.61E-05	-2.89906	Cis down vs Nor
2562867	RNF103	9.66E-05	2.57475	Cis up vs Nor
3381063	CLPB	9.75E-05	-2.44163	Cis down vs Nor
3680213	SOCS1	9.81E-05	2.01229	Cis up vs Nor
3139035	ARFGEF1	9.82E-05	-2.19648	Cis down vs Nor
3178147	CTSL1	9.84E-05	2.37387	Cis up vs Nor
3190035	CDK9	9.85E-05	2.22722	Cis up vs Nor
3395464	ASAM	9.91E-05	-2.07932	Cis down vs Nor
3015147	ZKSCAN1	0.000100467	2.17691	Cis up vs Nor

3201488	CDKN2B	0.000100807	2.43971	Cis up vs Nor
3559192	PRKD1	0.000101085	-2.37024	Cis down vs Nor
3353640	GRAMD1B	0.000101129	-2.62743	Cis down vs Nor
2697564	PIK3CB	0.00010163	-4.47483	Cis down vs Nor
2410158	TESK2	0.000103293	-2.37837	Cis down vs Nor
3213120	GAS1	0.000104543	-2.44022	Cis down vs Nor
3770632	SUMO2	0.000105312	2.11003	Cis up vs Nor
2586845	SLC25A12	0.000106555	-3.70843	Cis down vs Nor
3046197	ELMO1	0.000106655	-3.89016	Cis down vs Nor
3010030	RSBN1L	0.000108134	-2.91002	Cis down vs Nor
2321645	TMEM51	0.00010895	-2.43499	Cis down vs Nor
3177880	DAPK1	0.000110931	-3.83588	Cis down vs Nor
3788270	ELAC1	0.00011117	2.56822	Cis up vs Nor
2739079	SEC24B	0.000111739	-2.15061	Cis down vs Nor
2828146	CDC42SE2	0.000112137	-3.80887	Cis down vs Nor
3928040	RWDD2B	0.000112882	2.87595	Cis up vs Nor
3429566	CHST11	0.000113263	-2.75609	Cis down vs Nor
2549260	MAP4K3	0.000115743	-3.39439	Cis down vs Nor
2463482	OPN3	0.000116494	2.48859	Cis up vs Nor
3132333	TM2D2	0.000116775	2.34865	Cis up vs Nor
3012064	CDK14	0.000117051	-2.38108	Cis down vs Nor
3540136	HSPA2	0.000117302	2.46204	Cis up vs Nor
3962678	PACSLN2	0.000117731	-2.19358	Cis down vs Nor
3882533	CBFA2T2	0.000118151	-2.33093	Cis down vs Nor
2509832	EPC2	0.000118206	-3.20332	Cis down vs Nor
2947077	HIST1H3I	0.000118591	-3.94832	Cis down vs Nor
3483159	PAN3	0.000119508	-2.3785	Cis down vs Nor
3189110	GAPVD1	0.00011956	-2.1429	Cis down vs Nor
3843419	ZNF211	0.000120073	2.85237	Cis up vs Nor
2965206	EPHA7	0.00012214	-2.5066	Cis down vs Nor
3997946	PRKX	0.000122895	-3.38415	Cis down vs Nor
3707990	TXNDC17	0.000123151	2.57068	Cis up vs Nor
3238231	MLLT10	0.000123961	-3.55223	Cis down vs Nor
2748198	KIAA0922	0.000126195	-3.70037	Cis down vs Nor
4045676	S100A13	0.000127148	2.70278	Cis up vs Nor
3482498	CDK8	0.000128566	-2.73529	Cis down vs Nor
3528759	ABHD4	0.000128922	2.01073	Cis up vs Nor
2930418	UST	0.000131721	-4.66766	Cis down vs Nor
2461786	ARID4B	0.000133323	-3.28383	Cis down vs Nor
2687255	CBLB	0.000133617	-2.23126	Cis down vs Nor
3140213	MSC	0.000134161	-2.41037	Cis down vs Nor
3018652	CBLL1	0.000138617	2.06789	Cis up vs Nor
2434124	HIST2H2BE	0.000138764	3.67866	Cis up vs Nor
2711034	C3orf59	0.000139337	-4.12949	Cis down vs Nor
3416344	HOXC9	0.000139749	2.29844	Cis up vs Nor
2645315	SPSB4	0.000140422	-2.62306	Cis down vs Nor
3474697	SPPL3	0.000141067	-2.95132	Cis down vs Nor
2926323	EYA4	0.000142956	-2.36398	Cis down vs Nor
3606304	AKAP13	0.000143799	-3.23867	Cis down vs Nor
3223157	DBC1	0.000145294	-4.20918	Cis down vs Nor
2778856	TSPAN5	0.000146601	-4.9065	Cis down vs Nor
3298738	WAPAL	0.000146617	-2.07393	Cis down vs Nor
3227121	C9orf78	0.00014741	2.207	Cis up vs Nor
3284596	PARD3	0.000147553	-2.4848	Cis down vs Nor
2351854	C1orf162	0.000147751	4.52779	Cis up vs Nor
2901620	HLA-E	0.000148666	2.31057	Cis up vs Nor
2899171	HIST1H1E	0.000148688	-2.84495	Cis down vs Nor
4019570	UPF3B	0.000151861	2.22792	Cis up vs Nor
3201784	ELAVL2	0.000152477	-2.86841	Cis down vs Nor
3283920	ARHGAP12	0.000152485	-2.92059	Cis down vs Nor
3252382	MYST4	0.000154765	-2.93769	Cis down vs Nor
2737717	NFKB1	0.000155255	-2.55575	Cis down vs Nor
3766960	SMURF2	0.00015533	-2.94229	Cis down vs Nor
3764933	TUBD1	0.000157118	-2.51209	Cis down vs Nor
2939213	TUBB2A	0.000160098	3.0547	Cis up vs Nor
3858659	ANKRD27	0.000160421	-2.51924	Cis down vs Nor
2975867	MAP3K5	0.000161323	-2.89776	Cis down vs Nor
3302177	ARHGAP19	0.000162896	-2.89353	Cis down vs Nor
2872047	SEMA6A	0.000163919	-3.93966	Cis down vs Nor
3321055	TEAD1	0.000164684	-3.51781	Cis down vs Nor
3662750	POLR2C	0.000165017	2.13444	Cis up vs Nor
3740664	C17orf91	0.000166649	3.62686	Cis up vs Nor
3094611	LETM2	0.000167378	2.57452	Cis up vs Nor
2943874	KIF13A	0.000167727	-2.01122	Cis down vs Nor

3981164	ACRC	0.000171421	3.49004	Cis up vs Nor
3381377	FCHSD2	0.000171731	-3.69725	Cis down vs Nor
3721400	EIF1	0.000172076	3.79707	Cis up vs Nor
2471384	KCNS3	0.000174042	-2.40087	Cis down vs Nor
3065601	DPY19L2P2	0.000175643	2.2644	Cis up vs Nor
2523045	FZD7	0.000176284	2.69565	Cis up vs Nor
3484768	PDS5B	0.000178399	-2.60702	Cis down vs Nor
3403077	C12orf57	0.000179624	3.06114	Cis up vs Nor
3129465	INTS9	0.000179802	-2.68558	Cis down vs Nor
2498143	NCK2	0.000179871	-2.3364	Cis down vs Nor
2652801	NLGN1	0.000180332	-2.60291	Cis down vs Nor
3906160	CHD6	0.000181123	-2.00651	Cis down vs Nor
2453370	PLXNA2	0.000182296	-2.10806	Cis down vs Nor
2334279	UROD	0.000183761	2.85185	Cis up vs Nor
3719210	DHRS11	0.000184844	2.35684	Cis up vs Nor
3737488	RPTOR	0.000186184	-2.32963	Cis down vs Nor
2932508	TIAM2	0.0001871	-2.97666	Cis down vs Nor
3361971	ST5	0.000187356	-2.07278	Cis down vs Nor
2436228	GATAD2B	0.000188085	-2.23301	Cis down vs Nor
2401333	ZNF436	0.000189336	2.36228	Cis up vs Nor
3453177	C12orf41	0.000190997	2.36506	Cis up vs Nor
4017381	TSC22D3	0.000191083	2.00609	Cis up vs Nor
3843188	ZNF547	0.000191428	4.82616	Cis up vs Nor
3080033	MLL3	0.000191641	-2.09417	Cis down vs Nor
3837001	GRLF1	0.000191837	-2.18556	Cis down vs Nor
3418534	FAM119B	0.000191958	2.80799	Cis up vs Nor
3180263	HIATL1	0.000193365	-2.11261	Cis down vs Nor
2878273	HBEGF	0.000195856	3.96982	Cis up vs Nor
2796384	IRF2	0.000197544	-2.23825	Cis down vs Nor
3378007	C11orf68	0.000197802	2.24289	Cis up vs Nor
3331603	C11orf31	0.000199668	2.49884	Cis up vs Nor
3371339	PHF21A	0.00020369	-2.18218	Cis down vs Nor
2476411	TTC27	0.000205719	-2.32201	Cis down vs Nor
2893130	FARS2	0.000206302	-2.47931	Cis down vs Nor
2933392	SYNJ2	0.00020801	-2.02611	Cis down vs Nor
3908963	B4GALT5	0.000209141	-2.5477	Cis down vs Nor
2478748	EML4	0.000210664	-2.06537	Cis down vs Nor
3063536	TRIM4	0.0002117	2.59006	Cis up vs Nor
3925639	NRIP1	0.000211722	-2.43325	Cis down vs Nor
2979267	ULBP3	0.000213001	2.10836	Cis up vs Nor
3715368	NLK	0.000215354	-2.36332	Cis down vs Nor
3164221	DENND4C	0.000215605	-2.51674	Cis down vs Nor
3300115	PPP1R3C	0.000215743	3.82057	Cis up vs Nor
2579572	ZEB2	0.000216505	-2.05391	Cis down vs Nor
3258260	EXOC6	0.00021699	-2.86289	Cis down vs Nor
2586603	TLK1	0.000218401	-2.64835	Cis down vs Nor
3343546	TMEM135	0.000219473	-2.12868	Cis down vs Nor
3722535	ARL4D	0.00022024	3.43978	Cis up vs Nor
3218041	BAAT	0.000220805	5.53386	Cis up vs Nor
3136888	TOX	0.000221296	-3.33936	Cis down vs Nor
3161167	KIAA1432	0.00022205	-2.04919	Cis down vs Nor
3801943	ZNF521	0.000222278	-2.93638	Cis down vs Nor
4016193	TMSB15A	0.000222535	2.20654	Cis up vs Nor
3167325	UBAP1	0.000224097	-2.12253	Cis down vs Nor
3200982	MLLT3	0.000224101	-3.60754	Cis down vs Nor
3498837	PCCA	0.000225466	-2.40586	Cis down vs Nor
2360700	RAG1AP1	0.000229042	2.08606	Cis up vs Nor
2849960	ZNF622	0.000229273	2.42852	Cis up vs Nor
2401609	HMGCL	0.000229779	3.49375	Cis up vs Nor
3671448	HSBP1	0.000229991	2.87843	Cis up vs Nor
3666897	WWP2	0.000230005	-2.09532	Cis down vs Nor
3304746	USMG5	0.000230075	2.14135	Cis up vs Nor
3405032	ETV6	0.000232134	-2.46941	Cis down vs Nor
2899772	HIST1H2AH	0.000232232	-2.37449	Cis down vs Nor
3998444	HDHD1	0.000232883	-2.18407	Cis down vs Nor
3267036	GRK5	0.000233713	-2.58264	Cis down vs Nor
3510450	LHFP	0.000234324	-2.89461	Cis down vs Nor
3883547	PHF20	0.00023565	-2.12397	Cis down vs Nor
2852274	MTMR12	0.000236229	-2.49511	Cis down vs Nor
2517588	OSBPL6	0.00023674	-2.2032	Cis down vs Nor
2909723	CENPQ	0.00023701	2.25098	Cis up vs Nor
3023483	FAM40B	0.000237226	2.00235	Cis up vs Nor
3538213	DAAM1	0.00023785	-2.57357	Cis down vs Nor
3413927	DNAJC22	0.000238845	2.24746	Cis up vs Nor

2680591	LRIG1	0.00023888	-2.14755	Cis down vs Nor
3542847	SIPA1L1	0.000239172	-2.38309	Cis down vs Nor
3789947	NEDD4L	0.000240008	-2.38743	Cis down vs Nor
2807949	GHR	0.000241194	-4.23297	Cis down vs Nor
3665603	CTCF	0.000242014	-2.61226	Cis down vs Nor
3508644	N4BP2L1	0.00024322	3.44312	Cis up vs Nor
2967650	RTN4IP1	0.000244043	-2.07906	Cis down vs Nor
3247818	BICC1	0.000246455	-2.84303	Cis down vs Nor
2500550	MERTK	0.000247659	-2.02332	Cis down vs Nor
4019160	KLHL13	0.000248011	-2.20055	Cis down vs Nor
2379132	ATF3	0.000248479	3.48667	Cis up vs Nor
2899768	HIST1H4I	0.000249082	2.73845	Cis up vs Nor
3517594	DIS3	0.000249447	2.12525	Cis up vs Nor
2426385	VAV3	0.000249474	-4.80037	Cis down vs Nor
3633191	C15orf17	0.000249804	2.60214	Cis up vs Nor
2874794	RAPGEF6	0.000249975	-2.2262	Cis down vs Nor
3676669	RNPS1	0.000250142	2.22486	Cis up vs Nor
3415915	PFDN5	0.00025016	2.58828	Cis up vs Nor
3260937	C10orf2	0.000250334	2.21437	Cis up vs Nor
3400413	ERC1	0.000251043	-2.14418	Cis down vs Nor
3286921	8-Mar	0.000251555	-2.32929	Cis down vs Nor
3634588	WDR61	0.000255429	2.21525	Cis up vs Nor
3781531	CABLES1	0.000257746	-3.61227	Cis down vs Nor
2976626	REPS1	0.000258293	-2.07233	Cis down vs Nor
3421897	CNOT2	0.000258308	-3.16176	Cis down vs Nor
3157660	TSTA3	0.000260892	2.36195	Cis up vs Nor
3188993	ARPC5L	0.000261839	2.43843	Cis up vs Nor
3464983	ATP2B1	0.000264271	-2.23316	Cis down vs Nor
3852565	ASF1B	0.000265973	2.11185	Cis up vs Nor
2980516	CNKSR3	0.000266763	-2.01011	Cis down vs Nor
3567984	PPP2R5E	0.000270345	-2.83314	Cis down vs Nor
3511817	ENOX1	0.000270427	-3.44188	Cis down vs Nor
2475710	LCLAT1	0.000276306	-2.02109	Cis down vs Nor
2648141	MBNL1	0.000277445	-2.07658	Cis down vs Nor
3256074	BMPR1A	0.000280771	-3.56996	Cis down vs Nor
3200040	BNC2	0.000283043	-2.59199	Cis down vs Nor
3143660	MMP16	0.000283081	-2.11104	Cis down vs Nor
3911217	PMEP A1	0.000284168	-2.98434	Cis down vs Nor
3019565	C7orf53	0.000285026	9.67771	Cis up vs Nor
2695295	ASTE1	0.000285697	2.27573	Cis up vs Nor
3203990	KIAA1161	0.000286392	2.3295	Cis up vs Nor
3887479	EYA2	0.000287904	-3.24099	Cis down vs Nor
3387171	CWC15	0.000288336	2.14663	Cis up vs Nor
2513925	B3GALT1	0.00029209	-6.23851	Cis down vs Nor
2989050	RAC1	0.000292372	2.15619	Cis up vs Nor
3526831	RASA3	0.000294724	-2.25984	Cis down vs Nor
3156307	PTK2	0.000297253	-2.25923	Cis down vs Nor
3862650	SERTAD3	0.000298138	2.3585	Cis up vs Nor
2664452	ANKRD28	0.000298404	-2.58664	Cis down vs Nor
3753690	PEX12	0.000300418	2.51147	Cis up vs Nor
3382972	RSF1	0.000300705	-3.21574	Cis down vs Nor
3536786	FBXO34	0.000302156	-2.05658	Cis down vs Nor
2510713	FMNL2	0.000304459	-2.21853	Cis down vs Nor
3970476	SCML1	0.000306892	2.6369	Cis up vs Nor
3240452	BAMBI	0.000307311	3.55398	Cis up vs Nor
2933331	SNX9	0.00030739	-2.16164	Cis down vs Nor
3770944	H3F3B	0.000308169	2.04728	Cis up vs Nor
3968122	TBL1X	0.000309681	-2.25172	Cis down vs Nor
2963929	RNGTT	0.000310661	-2.78744	Cis down vs Nor
2999303	MRPL32	0.000312459	2.24396	Cis up vs Nor
3362468	SBF2	0.000316674	-2.81737	Cis down vs Nor
3190151	SLC25A25	0.000317236	2.27264	Cis up vs Nor
3696666	NQO1	0.00031758	2.64486	Cis up vs Nor
2694753	C3orf25	0.000318217	2.13916	Cis up vs Nor
3387413	FAM76B	0.000320369	2.50811	Cis up vs Nor
2678116	FAM116A	0.000325043	-3.34712	Cis down vs Nor
2554975	BCL11A	0.000325625	-2.05233	Cis down vs Nor
2618640	RPL14	0.000326343	2.55564	Cis up vs Nor
3253438	RPS24	0.000326412	2.18209	Cis up vs Nor
3253453		0.000326412	2.18209	Cis up vs Nor
2437307	SCAMP3	0.00032689	2.27887	Cis up vs Nor
2486178	MEIS1	0.000330529	-3.40401	Cis down vs Nor
2658595	HES1	0.000330953	3.2538	Cis up vs Nor
2546409	ALK	0.00033096	-2.63956	Cis down vs Nor

2946681	HIST1H2BJ	0.00033101	2.04791	Cis up vs Nor
3706736	TMEM93	0.000332657	2.05101	Cis up vs Nor
3273484	LARP4B	0.000335055	-3.02645	Cis down vs Nor
3019793	FOXP2	0.000339768	-3.51072	Cis down vs Nor
3082503	ZNF596	0.000339841	2.4218	Cis up vs Nor
2358743	SCNM1	0.00034278	2.1447	Cis up vs Nor
3376235	WDR74	0.000343038	2.32755	Cis up vs Nor
2582124	NR4A2	0.000343464	2.20035	Cis up vs Nor
3238466	COMMD3	0.000344207	2.35823	Cis up vs Nor
2782822	NDST4	0.000344625	-2.80595	Cis down vs Nor
2603897	TIGD1	0.000347879	4.34466	Cis up vs Nor
4007617	PIM2	0.000350118	2.71662	Cis up vs Nor
2935475	QKI	0.000350545	-2.23224	Cis down vs Nor
2672467	CCDC12	0.000351027	-2.45729	Cis down vs Nor
3623683	GABPB1	0.000351481	-2.60545	Cis down vs Nor
3672830	MAP1LC3B	0.000352249	2.59451	Cis up vs Nor
3776139	NDC80	0.000354232	-2.01912	Cis down vs Nor
3677164	TCEB2	0.000354282	2.33104	Cis up vs Nor
2866225	MEF2C	0.000354924	-3.05653	Cis down vs Nor
3717539	RHOT1	0.000357414	-2.19358	Cis down vs Nor
3328600	TSPAN18	0.000360806	-3.96113	Cis down vs Nor
3424442	TMTC2	0.000362236	-2.11498	Cis down vs Nor
2980290	RGS17	0.000362608	-2.13598	Cis down vs Nor
2768396	TEC	0.000363082	-2.74927	Cis down vs Nor
2341083	GADD45A	0.000366218	2.10863	Cis up vs Nor
2694931	TMCC1	0.000366798	-2.71219	Cis down vs Nor
3447348	SOX5	0.000370035	-2.25888	Cis down vs Nor
2400177	CAMK2N1	0.000370921	2.06772	Cis up vs Nor
3843180	ZNF304	0.000373692	2.29569	Cis up vs Nor
3081624	LMBR1	0.000373997	-2.57392	Cis down vs Nor
3732230	PITPNC1	0.000374207	-2.94807	Cis down vs Nor
3216671	CTSL2	0.000374321	2.63097	Cis up vs Nor
3348748	C11orf1	0.000374747	2.34412	Cis up vs Nor
3773241	TBC1D16	0.000378597	-2.95901	Cis down vs Nor
3970642	CDKL5	0.000378726	-2.12262	Cis down vs Nor
3303392	BLOC1S2	0.000384793	2.18758	Cis up vs Nor
2600689	EPHA4	0.00038791	-3.49629	Cis down vs Nor
3482845	RASL11A	0.000390709	4.34464	Cis up vs Nor
2946714	HIST1H2BK	0.000390745	3.15789	Cis up vs Nor
3412345	TMEM117	0.00039433	-4.32322	Cis down vs Nor
3453837	TUBA1A	0.000394555	2.06886	Cis up vs Nor
3752424	C17orf79	0.000394758	2.19832	Cis up vs Nor
3251490	CCDC109A	0.000395541	-2.55726	Cis down vs Nor
3227645	UCK1	0.00039594	2.01025	Cis up vs Nor
3322501	MYOD1	0.00039657	-2.50888	Cis down vs Nor
3407229	AEBP2	0.000398385	-2.62089	Cis down vs Nor
3173508	PGM5	0.000399559	-2.25771	Cis down vs Nor
2746693	ARHGAP10	0.000400118	-2.17938	Cis down vs Nor
3649052	MKL2	0.000400616	-2.06119	Cis down vs Nor
2438458	CRABP2	0.00040405	2.11357	Cis up vs Nor
3563317	RPS29	0.000404228	2.13638	Cis up vs Nor
3869847	ZNF468	0.000404728	2.96727	Cis up vs Nor
3105777	WWP1	0.00040584	-2.04789	Cis down vs Nor
2908052	POLR1C	0.000411075	2.29858	Cis up vs Nor
3884612	SNHG11	0.000411308	2.66243	Cis up vs Nor
3937891	FLJ39582	0.000412437	3.21132	Cis up vs Nor
3335736	DRAP1	0.000414209	2.05293	Cis up vs Nor
3441941	VAMP1	0.000416148	3.28076	Cis up vs Nor
3635553	STARD5	0.00041732	3.73355	Cis up vs Nor
3742067	UBE2G1	0.000421251	-2.20848	Cis down vs Nor
2806799	NIPBL	0.000423428	-2.27511	Cis down vs Nor
2947073	HIST1H1B	0.000423813	-4.35829	Cis down vs Nor
2810458	GPBP1	0.000424659	-2.9182	Cis down vs Nor
3735478	SPHK1	0.000426126	2.27832	Cis up vs Nor
2489545	HK2	0.000430383	-2.02541	Cis down vs Nor
3610804	IGF1R	0.000432024	-2.42415	Cis down vs Nor
3791482	PHLPP1	0.00043498	-3.04808	Cis down vs Nor
2544925	ASXL2	0.000437265	-2.42734	Cis down vs Nor
2420790	C1orf52	0.000440861	2.50217	Cis up vs Nor
2460519	EXOC8	0.000443148	3.35906	Cis up vs Nor
4024160	ATP11C	0.000446929	-2.37656	Cis down vs Nor
3631517	THAP10	0.000446963	3.83568	Cis up vs Nor
2860666	TAF9	0.000452991	2.34147	Cis up vs Nor
2430762	WARS2	0.000453428	-2.33703	Cis down vs Nor

3347831	DDX10	0.000455437	-3.0743	Cis down vs Nor
2934191	PNLDC1	0.000465247	4.1993	Cis up vs Nor
3062193	SLC25A13	0.000467015	-2.11671	Cis down vs Nor
3321150	ARNTL	0.000467128	-4.23592	Cis down vs Nor
4021633	ENOX2	0.000473732	-3.16348	Cis down vs Nor
3980745	FOXO4	0.000474067	2.541	Cis up vs Nor
2966636	ASCC3	0.000474283	-2.25495	Cis down vs Nor
3013178	CASD1	0.000474842	-2.54155	Cis down vs Nor
3587015	KLF13	0.000477781	-2.12641	Cis down vs Nor
3434012	HSPB8	0.000479065	2.6807	Cis up vs Nor
3422215	THAP2	0.000480537	4.6598	Cis up vs Nor
2558976	MCEE	0.000480654	2.50558	Cis up vs Nor
3273578	IDI2	0.000480877	4.3405	Cis up vs Nor
2874696		0.000482229	2.43005	Cis up vs Nor
3510963	SUGT1P3	0.000485296	3.45468	Cis up vs Nor
3182984	NIPSNAP3B	0.000488755	5.19772	Cis up vs Nor
3272205	INPP5A	0.00049037	-2.15732	Cis down vs Nor
3367096	LGR4	0.000492131	-2.83042	Cis down vs Nor
2825514	DMXL1	0.000497873	-2.1637	Cis down vs Nor
2766359	RFC1	0.000498206	-2.06755	Cis down vs Nor
2835715	GPX3	0.000499556	2.4362	Cis up vs Nor
3546924	FLRT2	0.000502255	-3.06202	Cis down vs Nor
2446240	TOR1AIP2	0.000506212	-2.34763	Cis down vs Nor
3354535	PKNOX2	0.000507688	-2.26261	Cis down vs Nor
3605780	SCAND2	0.000511246	2.01139	Cis up vs Nor
3975893	PHF16	0.000512738	-2.22182	Cis down vs Nor
3458857	AVIL	0.000518773	2.16524	Cis up vs Nor
2345617	PKN2	0.00052162	-2.20587	Cis down vs Nor
3796992	C18orf18	0.000522544	2.63157	Cis up vs Nor
3518169	COMMMD6	0.000524212	2.56323	Cis up vs Nor
3507710	SLC7A1	0.000525606	-2.21365	Cis down vs Nor
2356181	RBM8A	0.000529189	2.76454	Cis up vs Nor
3281068	PIP4K2A	0.000529294	-2.08463	Cis down vs Nor
2899206	HIST1H2BF	0.000537666	-2.59889	Cis down vs Nor
2879312	NR3C1	0.000546967	-2.01688	Cis down vs Nor
3903461	FLJ38773	0.000550335	3.16227	Cis up vs Nor
2712040	ACAP2	0.000555913	-2.24493	Cis down vs Nor
3229529	CAMSAP1	0.000559387	-2.11285	Cis down vs Nor
2947100	HIST1H2AM	0.000563281	2.93087	Cis up vs Nor
2769182	SCFD2	0.000566564	-2.30618	Cis down vs Nor
3066297	SRPK2	0.000568568	-2.26194	Cis down vs Nor
3567469	TRMT5	0.000568931	2.34954	Cis up vs Nor
2873897	3-Mar	0.000570902	-3.22068	Cis down vs Nor
2832081	ZMAT2	0.000572402	2.05872	Cis up vs Nor
2549565	SLC8A1	0.000576276	-2.02308	Cis down vs Nor
3375307	CYBASC3	0.000577086	2.63344	Cis up vs Nor
3167220	UBE2R2	0.000579116	-2.50812	Cis down vs Nor
2333667		0.000579239	2.1201	Cis up vs Nor
3410614	FGD4	0.000579447	-2.10425	Cis down vs Nor
2796484	CASP3	0.000580919	2.43428	Cis up vs Nor
2677653	C3orf63	0.000582972	-2.13019	Cis down vs Nor
3631794	MYO9A	0.00058304	-2.08319	Cis down vs Nor
3917938	HUNK	0.000586137	-3.67486	Cis down vs Nor
2708922	IGF2BP2	0.000586733	-2.91591	Cis down vs Nor
3383322	NARS2	0.000587964	-2.06343	Cis down vs Nor
3237788	PLXDC2	0.000590222	-2.30845	Cis down vs Nor
2887164	SH3PXD2B	0.000594135	-3.0754	Cis down vs Nor
3865223	TRAPPC6A	0.000594395	2.06181	Cis up vs Nor
3575567	FOXN3	0.000594447	-4.07765	Cis down vs Nor
3020496	ST7	0.000601429	-2.2175	Cis down vs Nor
3687889	ZNF785	0.000608228	2.01176	Cis up vs Nor
3375648	FTH1	0.000609305	4.23629	Cis up vs Nor
2573641	CLASP1	0.000616918	-2.04273	Cis down vs Nor
3444180	KLRAF1	0.000621793	4.86541	Cis up vs Nor
2896177	JARID2	0.000626051	-2.94972	Cis down vs Nor
3145107	CCNE2	0.000626143	2.03344	Cis up vs Nor
2372858	RGS2	0.000629287	4.20568	Cis up vs Nor
3600713	C15orf34	0.000634396	4.82671	Cis up vs Nor
2380590	TGFB2	0.000637156	-2.85368	Cis down vs Nor
3766716	TEX2	0.000640661	-2.12779	Cis down vs Nor
3761378	HOXB5	0.000645688	2.79497	Cis up vs Nor
2458649	C1orf55	0.000648288	2.40872	Cis up vs Nor
2491386	TCF7L1	0.000652033	-2.03156	Cis down vs Nor
3197140	GLIS3	0.000654234	-2.91738	Cis down vs Nor

2582562	ACVR1	0.000655804	-2.00833	Cis down vs Nor
3392874		0.000657449	2.45817	Cis up vs Nor
2652410	FNDC3B	0.000659429	-3.11135	Cis down vs Nor
3337067	RPS6KB2	0.000661303	2.02277	Cis up vs Nor
3591674	C15orf63	0.000663396	3.53211	Cis up vs Nor
3042849	HOXA5	0.000665558	2.0936	Cis up vs Nor
3753288	CCT6B	0.000666616	2.18793	Cis up vs Nor
2759404	GRPEL1	0.000667163	2.0117	Cis up vs Nor
3365525	SPTY2D1	0.000668681	2.27359	Cis up vs Nor
2717101	KIAA0232	0.00067089	-4.06053	Cis down vs Nor
4014251	CHM	0.000672105	-2.30838	Cis down vs Nor
2736462	BMPR1B	0.000672206	-2.19697	Cis down vs Nor
3423622	SYT1	0.000676439	-4.34615	Cis down vs Nor
2329752	ZMYM4	0.000688428	-2.08375	Cis down vs Nor
3592366	SPATA5L1	0.00069515	2.17137	Cis up vs Nor
3528994	ACIN1	0.00070443	2.11199	Cis up vs Nor
2776372	WDFY3	0.000705671	-2.11714	Cis down vs Nor
3988874	UBE2A	0.000706944	2.25962	Cis up vs Nor
2353237	VANGL1	0.000707339	-2.04331	Cis down vs Nor
2766893	APBB2	0.000710312	-3.21724	Cis down vs Nor
3872983	CHMP2A	0.000719794	2.03538	Cis up vs Nor
2973376	PTPRK	0.000737071	-3.05431	Cis down vs Nor
3264621	TCF7L2	0.000737956	-3.28078	Cis down vs Nor
3042919	HOXA9	0.000739822	2.26592	Cis up vs Nor
3349051	LOC100132686	0.000743301	2.70064	Cis up vs Nor
2629782	EBLN2	0.000746242	-2.10705	Cis down vs Nor
2342738	ST6GALNAC3	0.000750005	-2.45129	Cis down vs Nor
2828796	LEAP2	0.000757459	4.22625	Cis up vs Nor
2878446	NDUFA2	0.000758857	2.35807	Cis up vs Nor
3027961	TAS2R5	0.000761213	2.37813	Cis up vs Nor
3254521	TSPAN14	0.000762044	-2.21401	Cis down vs Nor
3985320	BHLHB9	0.000762128	-2.00089	Cis down vs Nor
2544219	PFN4	0.00077318	2.47883	Cis up vs Nor
2781813	ELOVL6	0.000773223	-3.84523	Cis down vs Nor
3140037	EYA1	0.000773866	-2.52569	Cis down vs Nor
2922972	DCBLD1	0.000779119	-2.04179	Cis down vs Nor
4043943	INPP5B	0.000783765	-2.05236	Cis down vs Nor
2705445	PLD1	0.000787193	-2.09093	Cis down vs Nor
3945225	MAFF	0.000788348	2.02021	Cis up vs Nor
3832978	ZFP36	0.000789362	2.66402	Cis up vs Nor
2807886	FBXO4	0.000794118	2.00039	Cis up vs Nor
2523635	CYP20A1	0.000799943	-2.0456	Cis down vs Nor
3824874	IFI30	0.000800683	2.46919	Cis up vs Nor
3750767	ALDOC	0.000801133	2.91085	Cis up vs Nor
4027708	MTCP1	0.000810062	2.58224	Cis up vs Nor
2482230	ERLEC1	0.000811267	-2.05357	Cis down vs Nor
2686646	SENP7	0.00081922	-2.4697	Cis down vs Nor
3553690	MARK3	0.000822673	-2.0457	Cis down vs Nor
3718555	SLFN5	0.000826022	3.06154	Cis up vs Nor
3430716	FICD	0.000826137	2.16346	Cis up vs Nor
3722182	AOC2	0.000826623	3.85872	Cis up vs Nor
2753880	CDKN2AIP	0.00082916	2.61671	Cis up vs Nor
2812435	ERBB2IP	0.000830165	-2.13397	Cis down vs Nor
2690956	POPDC2	0.000836474	2.83424	Cis up vs Nor
3834599	ZNF574	0.000844066	2.00881	Cis up vs Nor
3315549	PSMD13	0.000844856	2.10807	Cis up vs Nor
2480168	PRKCE	0.000848105	-2.34525	Cis down vs Nor
3882854	ITCH	0.000848365	-2.05288	Cis down vs Nor
3018866	DNAJB9	0.000850842	3.02399	Cis up vs Nor
3286792	C10orf25	0.000851475	2.08084	Cis up vs Nor
3043264	JAZF1	0.000864832	-2.04878	Cis down vs Nor
3079803	PRKAG2	0.000872272	-2.10581	Cis down vs Nor
3669092	TERF2IP	0.000892339	2.17619	Cis up vs Nor
2777487	FAM13A	0.000895821	-2.40593	Cis down vs Nor
3526544	DCUN1D2	0.000904533	2.28606	Cis up vs Nor
3592023	B2M	0.000906097	2.05057	Cis up vs Nor
3382216	ARRB1	0.000907613	-2.34292	Cis down vs Nor
2496536	RPL31	0.000912761	2.34609	Cis up vs Nor
3068476	TMEM168	0.000925772	-2.34015	Cis down vs Nor
3907507	C20orf165	0.00092734	2.11907	Cis up vs Nor
2419046	ZZZ3	0.000931859	-2.3222	Cis down vs Nor
3578069	C14orf139	0.000934835	-2.41674	Cis down vs Nor
2412222		0.000940405	7.86714	Cis up vs Nor
3588658	C15orf41	0.000945609	-2.07874	Cis down vs Nor

2791197	PDGFC	0.000946592	-3.64394	Cis down vs Nor
2340078	CACHD1	0.000956888	-3.0606	Cis down vs Nor
2693081	ZNF148	0.000956958	-2.71084	Cis down vs Nor
2487549	MXD1	0.00095773	2.24702	Cis up vs Nor
3522398	DOCK9	0.000959125	-2.15507	Cis down vs Nor
3449760	DENND5B	0.000961387	-2.29435	Cis down vs Nor
2946259	HIST1H1T	0.000961558	3.3041	Cis up vs Nor
2864849	SSBP2	0.00096198	-3.38302	Cis down vs Nor
2484970	EHP1	0.000962586	-2.53074	Cis down vs Nor
3996083	TMEM187	0.00096259	2.44446	Cis up vs Nor
2460189	PGBD5	0.000964537	-2.34453	Cis down vs Nor
3659931	PAPD5	0.00096602	-3.1824	Cis down vs Nor
3618333	MEIS2	0.000969655	-2.20686	Cis down vs Nor
2648535	ARHGEF26	0.000969753	-2.22883	Cis down vs Nor
3168508	MELK	0.000971678	-2.74529	Cis down vs Nor
2529546	ACSL3	0.000973744	-2.11399	Cis down vs Nor
3571904	NPC2	0.000975192	2.01285	Cis up vs Nor
2844709	CNOT6	0.000986804	-2.17511	Cis down vs Nor
2973694	ARHGAP18	0.000988251	-2.96055	Cis down vs Nor
3524999	LIG4	0.00100674	2.1849	Cis up vs Nor
2961300	COX7A2	0.00100743	2.60473	Cis up vs Nor
2412082	FAF1	0.0010108	-2.06028	Cis down vs Nor
3694657	CDH11	0.00101833	-2.90717	Cis down vs Nor
2599993	ABCB6	0.00102063	2.75377	Cis up vs Nor
3042001	CYCS	0.00102406	2.19783	Cis up vs Nor
2810395	C5orf35	0.00102586	2.20344	Cis up vs Nor
3292779	SLC25A16	0.00103099	2.54809	Cis up vs Nor
2615360	TGFBR2	0.00103389	-2.61836	Cis down vs Nor
3397877	ARHGAP32	0.00103746	-2.12287	Cis down vs Nor
3401828	DYRK4	0.00105095	2.92477	Cis up vs Nor
3851441	ZNF442	0.00105237	2.24782	Cis up vs Nor
3261886	C10orf26	0.0010579	-3.38521	Cis down vs Nor
2758870	CYTL1	0.00107432	2.34358	Cis up vs Nor
3406195	C12orf60	0.00107505	2.95545	Cis up vs Nor
3776193	SMCHD1	0.00107779	-2.20292	Cis down vs Nor
3463727	LIN7A	0.00108593	-2.31476	Cis down vs Nor
2874686	HINT1	0.00109079	2.17044	Cis up vs Nor

Supplementary table S3C: Genes showing alternative splicing and differential expression between normal and cisplatin treated conditions

Transcript Cluster ID	Gene Symbol	p-value(Condition)	Alt-splicing(Condition)	Fold-Change(Cis vs. Nor)	Fold-Change(Cis vs. Nor) (Description)
3995804	SLC6A8	4.14E-07	2.90E-05	2.06006	Cis up vs Nor
3790704	PMAIP1	7.38E-07	4.98E-07	10.709	Cis up vs Nor
2910680	LRRC1	7.44E-07	3.55E-11	-2.03935	Cis down vs Nor
3078493	ZNF425	9.58E-07	2.44E-13	7.15594	Cis up vs Nor
2892979	CDYL	1.26E-06	2.17E-26	-2.49978	Cis down vs Nor
3180717	C9orf102	2.38E-06	1.80E-06	-2.82613	Cis down vs Nor
3407096	PLEKHA5	3.68E-06	1.08E-19	-3.08649	Cis down vs Nor
3858285	TSHZ3	3.70E-06	0.00100915	-7.29249	Cis down vs Nor
3590239	DLL4	3.70E-06	4.02E-09	2.64509	Cis up vs Nor
3289235	SGMS1	3.75E-06	3.46E-16	-2.58304	Cis down vs Nor
2675628	VPRBP	3.97E-06	2.41E-14	-2.44346	Cis down vs Nor
2904329	ANKS1A	4.29E-06	4.57E-17	-2.99869	Cis down vs Nor
2734421	ARHGAP24	4.30E-06	1.22E-18	-4.06693	Cis down vs Nor
3928070	CCT8	5.18E-06	3.77E-09	2.18588	Cis up vs Nor
3501661	ARHGEF7	5.26E-06	4.59E-23	-2.63583	Cis down vs Nor
3544525	FOS	5.31E-06	2.69E-10	9.07852	Cis up vs Nor
2903343	BRD2	5.46E-06	1.90E-20	2.12622	Cis up vs Nor
3176209	TLE4	5.65E-06	7.76E-15	-3.7336	Cis down vs Nor
3757970	PSMC3IP	5.68E-06	0.002618	2.72188	Cis up vs Nor
2509740	MBD5	6.20E-06	1.19E-10	-2.23035	Cis down vs Nor
3099566	FAM110B	6.49E-06	2.22E-05	-4.90272	Cis down vs Nor
3108859	OSR2	6.55E-06	7.67E-09	2.28594	Cis up vs Nor
3571347	NUMB	6.96E-06	6.19E-12	-2.80428	Cis down vs Nor
3211579	TLE1	7.31E-06	3.97E-09	-2.97644	Cis down vs Nor
3404636	GABARAPL1	7.48E-06	5.93E-06	2.45385	Cis up vs Nor
2677723	ARHGEF3	7.51E-06	2.11E-16	-6.75312	Cis down vs Nor
2601648	DOCK10	8.10E-06	1.18E-06	-2.62394	Cis down vs Nor
2863885	LHFPL2	8.76E-06	3.95E-12	-3.16875	Cis down vs Nor
3035892	GNA12	8.98E-06	1.53E-13	-2.28204	Cis down vs Nor
2982319	SOD2	9.32E-06	8.14E-13	4.10009	Cis up vs Nor
2835531	NDST1	1.03E-05	7.65E-08	-2.10048	Cis down vs Nor
2759582	AFAP1	1.03E-05	5.19E-14	-2.14471	Cis down vs Nor
3555300	CCNB1IP1	1.04E-05	0.000669063	2.09824	Cis up vs Nor
3517793	KLF12	1.06E-05	1.55E-24	-3.31697	Cis down vs Nor
2420427	GNG5	1.10E-05	0.00066051	2.35446	Cis up vs Nor
3346147	ARHGAP42	1.12E-05	0.000121083	-6.74962	Cis down vs Nor
2977265	HIVEP2	1.14E-05	0.00961404	-3.06369	Cis down vs Nor
2830861	EGR1	1.15E-05	1.93E-18	3.47423	Cis up vs Nor
2830698	FAM53C	1.17E-05	4.50E-11	2.95936	Cis up vs Nor
3414632	DIP2B	1.18E-05	0.00537374	-2.52023	Cis down vs Nor
3219215	KLF4	1.23E-05	1.32E-06	2.59393	Cis up vs Nor
3320123	ADM	1.24E-05	3.19E-08	2.83297	Cis up vs Nor
3150060	EXT1	1.29E-05	5.92E-32	-2.98092	Cis down vs Nor
3147173	NCALD	1.32E-05	8.36E-08	-2.21482	Cis down vs Nor
3419641	SRGAP1	1.32E-05	4.33E-09	-3.66803	Cis down vs Nor
3488602	LRCH1	1.44E-05	2.55E-12	-2.58557	Cis down vs Nor
3508898	STARD13	1.45E-05	2.80E-45	-3.94034	Cis down vs Nor
3228884	VAV2	1.46E-05	1.03E-10	-2.76453	Cis down vs Nor
3217487	ALG2	1.51E-05	0.000861354	2.43914	Cis up vs Nor
2722377	STIM2	1.53E-05	1.76E-22	-2.84513	Cis down vs Nor
3009198	RHBD2	1.67E-05	2.83E-15	2.40908	Cis up vs Nor
3598959	SMAD3	1.68E-05	1.21E-16	-2.52977	Cis down vs Nor
3376155	NXF1	1.68E-05	5.22E-23	2.73758	Cis up vs Nor
2852742	AMACR	1.69E-05	9.40E-12	3.98849	Cis up vs Nor
3626826	MYO1E	1.72E-05	3.83E-15	-4.14781	Cis down vs Nor
3063083	SMURF1	1.74E-05	2.94E-13	-2.52522	Cis down vs Nor
2409104	SLC2A1	1.79E-05	4.48E-11	-2.37242	Cis down vs Nor
2423422	BCAR3	1.81E-05	9.35E-13	-2.66891	Cis down vs Nor
3887635	NCOA3	1.87E-05	1.80E-15	-2.47846	Cis down vs Nor
2515471	DLX1	1.95E-05	1.03E-05	2.17935	Cis up vs Nor
2402111	C1orf63	1.97E-05	1.24E-08	6.37443	Cis up vs Nor
2842429	C5orf25	1.98E-05	9.01E-06	-2.07788	Cis down vs Nor
2447066	GLUL	2.00E-05	0.00550088	2.23039	Cis up vs Nor
3291682	JMJD1C	2.07E-05	1.40E-18	-2.68373	Cis down vs Nor
2623308	GRM2	2.09E-05	0.000416942	2.3399	Cis up vs Nor
3480657	SAP18	2.09E-05	0.000192506	2.5312	Cis up vs Nor
3723348	HEXIM1	2.11E-05	8.35E-05	6.24285	Cis up vs Nor
2518889	ZNF804A	2.18E-05	1.33E-27	-4.62297	Cis down vs Nor
3219885	PTPN3	2.19E-05	2.17E-20	-2.06709	Cis down vs Nor
3971219	CNKSR2	2.21E-05	3.48E-16	-2.56752	Cis down vs Nor
2556752	SPRED2	2.21E-05	2.68E-14	-2.67497	Cis down vs Nor
2835021	PCYOX1L	2.26E-05	2.72E-09	3.40335	Cis up vs Nor
2957596	ELOVL5	2.39E-05	0.00253118	-2.36114	Cis down vs Nor
2326954	TMEM222	2.48E-05	2.01E-06	2.61579	Cis up vs Nor
3430462	BTBD11	2.53E-05	0.000357244	-2.36748	Cis down vs Nor
3971806	SAT1	2.58E-05	4.96E-07	7.57742	Cis up vs Nor
2506903	MGAT5	2.59E-05	7.12E-09	-3.43383	Cis down vs Nor
3975467	KDM6A	2.61E-05	3.72E-20	-4.39429	Cis down vs Nor
2427208	GSTM3	2.68E-05	2.79E-09	2.50123	Cis up vs Nor
3772525	CYTH1	2.73E-05	6.64E-14	-2.22354	Cis down vs Nor
3773174	CBX4	2.78E-05	1.85E-12	2.11383	Cis up vs Nor
3340697	UVRAG	2.83E-05	1.06E-17	-3.83005	Cis down vs Nor
2643592	EPHB1	2.86E-05	7.41E-12	-2.38138	Cis down vs Nor
3686339	XPO6	2.88E-05	0.00721562	-2.30265	Cis down vs Nor
2375596	ADORA1	2.92E-05	1.13E-11	-2.21867	Cis down vs Nor

3133345	SLC20A2	2.94E-05	4.28E-22	-2.02587	Cis down vs Nor
3636956	WDR73	3.00E-05	9.95E-10	2.03349	Cis up vs Nor
3131881	PPAPDC1B	3.05E-05	3.02E-14	2.86218	Cis up vs Nor
3908149	ZMYND8	3.09E-05	2.46E-27	-2.23391	Cis down vs Nor
4014076	HDX	3.10E-05	0.00154964	-2.34042	Cis down vs Nor
2757347	TMEM129	3.18E-05	3.49E-06	2.01113	Cis up vs Nor
3729002	C17orf71	3.21E-05	0.0153425	2.9463	Cis up vs Nor
2964553	BACH2	3.24E-05	1.60E-17	-2.33195	Cis down vs Nor
3215701	FANCC	3.34E-05	0.000220683	-2.53346	Cis down vs Nor
2749699	RAPGEF2	3.35E-05	1.87E-16	-3.43972	Cis down vs Nor
2880361	JAKMIP2	3.36E-05	1.18E-11	-5.47856	Cis down vs Nor
3822216	IER2	3.40E-05	1.67E-08	2.25056	Cis up vs Nor
2343823	LPHN2	3.42E-05	1.16E-26	-3.55122	Cis down vs Nor
2397695	CASP9	3.55E-05	5.75E-06	-2.11615	Cis down vs Nor
3862640	SERTAD1	3.56E-05	0.00484291	3.64998	Cis up vs Nor
2369484	TOR3A	3.56E-05	5.66E-08	2.02031	Cis up vs Nor
3821893	JUNB	3.69E-05	4.08E-05	3.56231	Cis up vs Nor
2976360	PERP	3.71E-05	0.000235364	2.88854	Cis up vs Nor
3751625	SSH2	3.75E-05	3.09E-06	-6.22236	Cis down vs Nor
3430129	POLR3B	3.78E-05	1.55E-09	-3.48413	Cis down vs Nor
2957227	TRAM2	3.91E-05	6.13E-05	-2.48001	Cis down vs Nor
2434031	HIST2H2BF	3.93E-05	0.00271988	11.3433	Cis up vs Nor
3561039	NFKBIA	4.01E-05	0.000819888	2.51504	Cis up vs Nor
2676518	SFMBT1	4.02E-05	1.99E-19	-2.48909	Cis down vs Nor
2398073	FBXO42	4.05E-05	2.69E-09	-2.42588	Cis down vs Nor
3999395	MID1	4.15E-05	1.17E-16	-2.92842	Cis down vs Nor
2644155	NCK1	4.18E-05	6.33E-06	-2.98265	Cis down vs Nor
4005392	BCOR	4.20E-05	7.54E-05	-2.72158	Cis down vs Nor
3858852	RHPN2	4.25E-05	0.00199772	-2.367	Cis down vs Nor
2583602	RBMS1	4.34E-05	0.00585546	-2.84181	Cis down vs Nor
3762473	TOB1	4.43E-05	1.23E-11	4.78088	Cis up vs Nor
2691014	GSK3B	4.59E-05	3.76E-11	-2.31857	Cis down vs Nor
3978169	TSPYL2	4.69E-05	2.92E-11	4.62009	Cis up vs Nor
3035135	ZFAND2A	4.81E-05	4.11E-05	3.14552	Cis up vs Nor
2327045	GPR3	4.95E-05	0.000159636	2.09063	Cis up vs Nor
3920566	DYRK1A	5.15E-05	3.68E-20	-2.76691	Cis down vs Nor
3977299	CLCN5	5.19E-05	0.0010758	-2.28138	Cis down vs Nor
3888522	SNAI1	5.21E-05	0.0168137	2.06142	Cis up vs Nor
2772876	ADAMTS3	5.23E-05	0.00223431	-3.08649	Cis down vs Nor
2319881	PEX14	5.39E-05	4.32E-14	-2.13883	Cis down vs Nor
2975014	SGK1	5.47E-05	1.09E-05	9.78031	Cis up vs Nor
3258221	HHEX	5.54E-05	2.70E-14	3.62491	Cis up vs Nor
3599280	SKOR1	5.55E-05	2.72E-12	-2.03525	Cis down vs Nor
3959918	TST	5.65E-05	0.000654943	3.23168	Cis up vs Nor
2871241	MCC	5.71E-05	5.72E-11	-2.13784	Cis down vs Nor
2408855	FOXJ3	5.95E-05	1.55E-28	-2.30948	Cis down vs Nor
2807000	WDR70	6.01E-05	3.47E-11	-3.17015	Cis down vs Nor
3329461	ZNF408	6.04E-05	8.90E-07	2.2681	Cis up vs Nor
3020343	MET	6.07E-05	7.63E-22	-2.80193	Cis down vs Nor
3139722	NCOA2	6.13E-05	1.26E-14	-2.87221	Cis down vs Nor
3896078	SLC23A2	6.18E-05	3.53E-15	-2.54526	Cis down vs Nor
2759303	MRFAP1L1	6.20E-05	3.48E-07	2.11546	Cis up vs Nor
2363562	FCER1G	6.21E-05	6.84E-06	4.80948	Cis up vs Nor
3473083	MED13L	6.25E-05	5.50E-22	-2.70191	Cis down vs Nor
3261165	BTRC	6.37E-05	2.54E-22	-3.48414	Cis down vs Nor
2899756	HIST1H2AG	6.37E-05	5.52E-09	2.08298	Cis up vs Nor
3921068	ETS2	6.50E-05	1.04E-06	2.11437	Cis up vs Nor
2360887	RUSC1	6.52E-05	3.46E-12	2.19242	Cis up vs Nor
3548152	TDP1	6.84E-05	4.53E-19	-2.22198	Cis down vs Nor
3872542	ZNF418	6.95E-05	5.09E-08	2.87255	Cis up vs Nor
3540862	GPHN	6.96E-05	1.33E-19	-3.45508	Cis down vs Nor
3697632	ZNF23	7.00E-05	8.18E-06	2.52678	Cis up vs Nor
2969886	FYN	7.13E-05	1.61E-17	-4.51788	Cis down vs Nor
3803290	FAM59A	7.20E-05	4.39E-16	-2.33772	Cis down vs Nor
3730240	TLK2	7.37E-05	3.65E-05	-2.22485	Cis down vs Nor
3323052	NAV2	7.46E-05	0	-2.33621	Cis down vs Nor
3277468	USP6NL	7.48E-05	1.79E-05	-2.65161	Cis down vs Nor
2562233	RETSAT	7.63E-05	8.30E-07	3.31098	Cis up vs Nor
3253683	ZMIZ1	7.64E-05	5.95E-31	-2.73094	Cis down vs Nor
2326049	MAN1C1	7.66E-05	2.31E-26	-2.79963	Cis down vs Nor
3278401	FRMD4A	7.70E-05	1.14E-31	-2.08979	Cis down vs Nor
3490251	WDFY2	7.75E-05	1.89E-06	-2.52865	Cis down vs Nor
2583014	BAZ2B	7.76E-05	2.83E-13	-2.66658	Cis down vs Nor
3633460	PTPN9	7.79E-05	1.79E-10	-3.04983	Cis down vs Nor
2365210	UCK2	7.96E-05	1.91E-09	-2.02945	Cis down vs Nor
3392044	C11orf71	7.97E-05	5.59E-10	3.33548	Cis up vs Nor
3416344	HOXC9	8.01E-05	1.05E-05	2.87937	Cis up vs Nor
3880191	GZF1	8.13E-05	3.18E-14	2.49046	Cis up vs Nor
3719474	TADA2A	8.13E-05	0.00127239	-2.08269	Cis down vs Nor
2857204	PPAP2A	8.17E-05	1.16E-09	-2.46151	Cis down vs Nor
2998404	RALA	8.42E-05	2.90E-06	-2.05769	Cis down vs Nor
2369110	RASAL2	8.54E-05	2.99E-12	-2.92316	Cis down vs Nor
2545613	SLC30A3	8.55E-05	7.49E-07	2.13403	Cis up vs Nor
3457275	MMP19	8.85E-05	6.00E-09	2.05488	Cis up vs Nor
2869880	EFNA5	8.90E-05	2.55E-11	-3.53925	Cis down vs Nor
2353988	FAM46C	8.93E-05	1.29E-06	3.11332	Cis up vs Nor
2338719	NFIA	8.98E-05	2.00E-07	-2.3191	Cis down vs Nor
3710681	MAP2K4	9.03E-05	0.000131748	-2.35811	Cis down vs Nor

3139035	ARFGF1	9.07E-05	5.22E-17	-2.22539	Cis down vs Nor
2943808	NUP153	9.09E-05	7.35E-05	-2.92946	Cis down vs Nor
3687308	KCTD13	9.11E-05	2.46E-08	3.00047	Cis up vs Nor
3099089	CHCHD7	9.14E-05	0.000612858	2.94272	Cis up vs Nor
3942179	MTMR3	9.57E-05	8.56E-06	-2.55942	Cis down vs Nor
3161566	KDM4C	9.61E-05	0.000535688	-2.89906	Cis down vs Nor
3381063	CLPB	9.75E-05	2.39E-17	-2.44163	Cis down vs Nor
3680213	SOCS1	9.81E-05	0.00235429	2.01229	Cis up vs Nor
3178147	CTSL1	9.84E-05	0.00360388	2.37387	Cis up vs Nor
3190035	CDK9	9.85E-05	5.18E-06	2.2272	Cis up vs Nor
3395464	ASAM	9.91E-05	7.76E-06	-2.07932	Cis down vs Nor
3201488	CDKN2B	0.000100808	1.58E-13	2.43972	Cis up vs Nor
3559192	PRKD1	0.000101085	1.78E-15	-2.37024	Cis down vs Nor
3353640	GRAMD1B	0.00010113	0.000784849	-2.62743	Cis down vs Nor
2697564	PIK3CB	0.000101631	7.58E-12	-4.47483	Cis down vs Nor
2410158	TESK2	0.0001033	6.82E-11	-2.37836	Cis down vs Nor
3213120	GAS1	0.000104543	1.41E-08	-2.44021	Cis down vs Nor
2586845	SLC25A12	0.000106555	9.41E-10	-3.70844	Cis down vs Nor
3046197	ELMO1	0.000106658	9.14E-32	-3.89017	Cis down vs Nor
3010030	RSBN1L	0.000108138	3.80E-14	-2.91003	Cis down vs Nor
2321645	TMEM51	0.000108953	0.00476786	-2.43499	Cis down vs Nor
3177880	DAPK1	0.000110939	1.44E-32	-3.83588	Cis down vs Nor
3788270	ELAC1	0.00011116	5.50E-09	2.56822	Cis up vs Nor
2739079	SEC24B	0.000111733	1.27E-18	-2.15061	Cis down vs Nor
3429566	CHST11	0.000113263	5.91E-06	-2.75609	Cis down vs Nor
2549260	MAP4K3	0.000115739	2.58E-21	-3.39439	Cis down vs Nor
2463482	OPN3	0.000116502	4.22E-13	2.48858	Cis up vs Nor
3132333	TM2D2	0.000116755	0.000686607	2.34864	Cis up vs Nor
3012064	CDK14	0.000117046	7.10E-11	-2.38108	Cis down vs Nor
3540136	HSPA2	0.000117303	7.01E-07	2.46204	Cis up vs Nor
3962678	PACSLN2	0.000117723	1.32E-24	-2.19358	Cis down vs Nor
3882533	CBFA2T2	0.000118152	7.48E-10	-2.33093	Cis down vs Nor
2509832	EPC2	0.000118207	4.87E-07	-3.20332	Cis down vs Nor
3483159	PAN3	0.000119501	1.21E-19	-2.3785	Cis down vs Nor
3049522	TNS3	0.000122108	3.51E-37	-2.51066	Cis down vs Nor
2965206	EPHA7	0.000122149	8.83E-34	-2.5066	Cis down vs Nor
3997946	PRKX	0.0001229	3.10E-16	-3.38415	Cis down vs Nor
3707990	TXNDC17	0.000123145	0.0153715	2.57068	Cis up vs Nor
3238231	MLLT10	0.000123959	5.97E-14	-3.55223	Cis down vs Nor
2748198	KIAA0922	0.000126195	2.90E-30	-3.70038	Cis down vs Nor
4045676	S100A13	0.000127178	0.00651582	2.70277	Cis up vs Nor
3482498	CDK8	0.000128566	1.47E-08	-2.73528	Cis down vs Nor
3528759	ABHD4	0.000128917	1.38E-05	2.01073	Cis up vs Nor
2930418	UST	0.000131724	2.83E-19	-4.66767	Cis down vs Nor
2461786	ARID4B	0.000133326	3.83E-13	-3.28383	Cis down vs Nor
2687255	CSBLB	0.000133616	1.07E-08	-2.23126	Cis down vs Nor
3140213	MSC	0.000134157	0.0115694	-2.41037	Cis down vs Nor
3606304	AKAP13	0.000136924	0	-3.30542	Cis down vs Nor
2645315	SPSB4	0.000140422	0.000268934	-2.62306	Cis down vs Nor
3474697	SPPL3	0.000141062	6.18E-10	-2.95132	Cis down vs Nor
2926323	EYA4	0.000142945	2.27E-13	-2.36398	Cis down vs Nor
3223157	DBC1	0.000145295	7.65E-15	-4.20918	Cis down vs Nor
2778856	TSPAN5	0.000146599	1.49E-08	-4.9065	Cis down vs Nor
3298738	WAPAL	0.000146619	9.90E-15	-2.07393	Cis down vs Nor
3227121	C9orf78	0.000147427	0.000116023	2.207	Cis up vs Nor
3284596	PAR3	0.000147549	2.08E-11	-2.4848	Cis down vs Nor
3508644	N4BP2L1	0.000147587	6.37E-07	4.49192	Cis up vs Nor
2351854	C1orf162	0.000147752	8.80E-09	4.52778	Cis up vs Nor
2899171	HIST1H1E	0.000148671	0.000513989	-2.84497	Cis down vs Nor
3201784	ELAVL2	0.000152468	2.34E-08	-2.86841	Cis down vs Nor
3283920	ARHGAP12	0.000152497	2.05E-28	-2.92059	Cis down vs Nor
2737717	NFKB1	0.000155258	8.02E-11	-2.55574	Cis down vs Nor
3252382	MYST4	0.000155299	2.52E-12	-3.06791	Cis down vs Nor
3766960	SMURF2	0.00015533	7.11E-10	-2.94229	Cis down vs Nor
3764933	TUBD1	0.000157112	6.71E-08	-2.51209	Cis down vs Nor
2939213	TUBB2A	0.000160101	2.07E-06	3.05469	Cis up vs Nor
2975867	MAP3K5	0.000161323	1.75E-27	-2.89776	Cis down vs Nor
2872047	SEMA6A	0.000163921	1.18E-08	-3.93965	Cis down vs Nor
3321055	TEAD1	0.000164685	0.0184074	-3.51778	Cis down vs Nor
3662750	POLR2C	0.000164994	0.000187347	2.13442	Cis up vs Nor
3740664	C17orf91	0.000166641	3.32E-06	3.62685	Cis up vs Nor
3094611	LETM2	0.000167379	1.08E-10	2.57452	Cis up vs Nor
2943874	KIF13A	0.000167732	3.10E-28	-2.01122	Cis down vs Nor
3484768	PDS5B	0.000169766	9.50E-19	-2.72587	Cis down vs Nor
3981164	ACRC	0.000171418	0.000373375	3.49004	Cis up vs Nor
3381377	FCHSD2	0.000171729	6.95E-06	-3.69725	Cis down vs Nor
3721400	EIF1	0.000172081	6.23E-07	3.79705	Cis up vs Nor
2471384	KCNS3	0.000174043	5.11E-11	-2.40087	Cis down vs Nor
2523045	FZD7	0.000176287	6.08E-07	2.69565	Cis up vs Nor
3403077	C12orf57	0.000179613	8.97E-09	3.06114	Cis up vs Nor
3129465	INTS9	0.000179802	0.00313256	-2.68558	Cis down vs Nor
2498143	NCK2	0.000179866	6.41E-10	-2.3364	Cis down vs Nor
2652801	NLGN1	0.000180333	9.87E-10	-2.60292	Cis down vs Nor
3906160	CHD6	0.00018112	3.76E-23	-2.00651	Cis down vs Nor
2453370	PLXNA2	0.000182302	1.51E-24	-2.10806	Cis down vs Nor
2334279	UROD	0.000183777	6.46E-08	2.85185	Cis up vs Nor
3719210	DHRS11	0.000184847	2.01E-10	2.35685	Cis up vs Nor
3737488	RPTOR	0.000186187	4.04E-35	-2.32963	Cis down vs Nor

2932508	TIAM2	0.000187098	2.36E-19	-2.97666	Cis down vs Nor
3361971	ST5	0.000187348	2.53E-24	-2.07278	Cis down vs Nor
2436228	GATA2B	0.000188085	7.20E-05	-2.23301	Cis down vs Nor
2401333	ZNF436	0.000189362	0.0026038	2.36228	Cis up vs Nor
3453177	C12orf41	0.000190982	4.90E-22	2.36507	Cis up vs Nor
4017381	TSC22D3	0.000191087	2.63E-05	2.06609	Cis up vs Nor
3843188	ZNF547	0.000191425	3.30E-07	4.82616	Cis up vs Nor
3080033	MLL3	0.00019164	4.43E-17	-2.09418	Cis down vs Nor
3837001	GRLF1	0.000191849	1.29E-24	-2.18556	Cis down vs Nor
3418534	FAM119B	0.000191927	0.000313522	2.808	Cis up vs Nor
2796384	IRF2	0.000197539	7.06E-05	-2.23825	Cis down vs Nor
3378007	C11orf68	0.00019783	2.69E-08	2.24289	Cis up vs Nor
3331603	C11orf31	0.000199662	0.00172692	2.49885	Cis up vs Nor
3371339	PHF21A	0.000203687	6.86E-08	-2.18219	Cis down vs Nor
3161167	KIAA1432	0.000205128	3.38E-09	-2.10866	Cis down vs Nor
2476411	TTC27	0.000205712	0.0006463	-2.32201	Cis down vs Nor
2893130	FARS2	0.000206303	0.00143612	-2.47931	Cis down vs Nor
2933392	SYNJ2	0.00020801	1.76E-11	-2.02611	Cis down vs Nor
2478748	EML4	0.000210665	9.41E-12	-2.06538	Cis down vs Nor
3063536	TRIM4	0.000211699	5.09E-06	2.59006	Cis up vs Nor
3925639	NRIP1	0.000211746	8.77E-06	-2.43325	Cis down vs Nor
2979267	ULBP3	0.000213006	0.0108283	2.10837	Cis up vs Nor
3715368	NLK	0.000215357	1.27E-29	-2.36332	Cis down vs Nor
3164221	DENND4C	0.000215608	1.06E-06	-2.51674	Cis down vs Nor
3300115	PPP1R3C	0.000215764	0.000573839	3.82058	Cis up vs Nor
2579572	ZEB2	0.000216498	4.68E-05	-2.05392	Cis down vs Nor
3258260	EXOC6	0.000216987	1.45E-05	-2.86289	Cis down vs Nor
2586603	TLK1	0.000218384	1.70E-12	-2.64835	Cis down vs Nor
3343546	TMEM135	0.00021947	5.18E-11	-2.12868	Cis down vs Nor
3218041	BAAT	0.000220805	9.72E-10	5.53386	Cis up vs Nor
3136888	TOX	0.000221294	2.92E-10	-3.33936	Cis down vs Nor
3801943	ZNF521	0.000222278	1.32E-09	-2.93638	Cis down vs Nor
3200982	MLL3	0.000224102	3.20E-06	-3.60754	Cis down vs Nor
3167325	UBAP1	0.000224104	0.014355	-2.12253	Cis down vs Nor
3498837	PCCA	0.000225469	9.22E-11	-2.40586	Cis down vs Nor
2874794	RAPGEF6	0.000226771	1.07E-26	-2.27093	Cis down vs Nor
2360700	RAG1AP1	0.000229053	0.00581625	2.08606	Cis up vs Nor
2401609	HMGCL	0.000229774	5.39E-11	3.49375	Cis up vs Nor
3671448	HSBP1	0.000229918	7.36E-05	2.87843	Cis up vs Nor
3304746	USMG5	0.000229985	0.00367645	2.14137	Cis up vs Nor
3666897	WWP2	0.000230336	5.06E-06	-2.17336	Cis down vs Nor
3405032	ETV6	0.000232132	2.18E-10	-2.46941	Cis down vs Nor
3998444	HDHD1	0.000232889	2.60E-05	-2.18408	Cis down vs Nor
3267036	GRK5	0.000233714	7.60E-18	-2.58264	Cis down vs Nor
3510450	LHFP	0.000234354	1.14E-08	-2.89461	Cis down vs Nor
3883547	PHF20	0.000235653	5.85E-22	-2.12397	Cis down vs Nor
2517588	OSBPL6	0.000236743	3.05E-17	-2.2032	Cis down vs Nor
3023483	FAM40B	0.00023722	0.000208557	2.00235	Cis up vs Nor
2852274	MTMR12	0.000237746	4.92E-09	-2.56172	Cis down vs Nor
3538213	DAAM1	0.000237852	0.00796713	-2.57357	Cis down vs Nor
2680591	LRIG1	0.000238883	8.28E-17	-2.14755	Cis down vs Nor
3542847	SIPA1L1	0.00023917	2.32E-15	-2.38309	Cis down vs Nor
3789947	NEDD4L	0.00024001	1.36E-09	-2.38744	Cis down vs Nor
2807949	GHR	0.000241191	4.57E-11	-4.23297	Cis down vs Nor
2967650	RTN4IP1	0.000244042	5.31E-07	-2.07906	Cis down vs Nor
3247818	BICC1	0.000246453	6.85E-08	-2.84303	Cis down vs Nor
2500550	MERTK	0.000247662	7.00E-12	-2.02331	Cis down vs Nor
4019160	KLHL13	0.000247996	0.0160617	-2.20055	Cis down vs Nor
2379132	ATF3	0.000248489	1.46E-14	3.48667	Cis up vs Nor
2899768	HIST1H4I	0.000249082	0.000293909	2.73845	Cis up vs Nor
3517594	DIS3	0.000249447	5.44E-15	2.12525	Cis up vs Nor
3633191	C15orf17	0.000249809	0.00212671	2.60214	Cis up vs Nor
3676669	RNPS1	0.000250099	0.0132565	2.22483	Cis up vs Nor
3415915	PFDN5	0.000250176	0.000148541	2.58828	Cis up vs Nor
3400413	ERC1	0.000251048	1.11E-24	-2.14418	Cis down vs Nor
3286921	8-Mar	0.000251551	2.00E-10	-2.32929	Cis down vs Nor
3634588	WDR61	0.000255429	0.000620675	2.21525	Cis up vs Nor
2426385	VAV3	0.000255824	3.95E-11	-5.02179	Cis down vs Nor
3781531	CABLES1	0.000257748	7.47E-12	-3.61228	Cis down vs Nor
2976626	REPS1	0.000258285	3.13E-06	-2.07233	Cis down vs Nor
3421897	CNOT2	0.00025831	0.000644056	-3.16176	Cis down vs Nor
3157660	TSTA3	0.000260897	1.77E-05	2.36196	Cis up vs Nor
3188993	ARPC5L	0.000261863	0.0146143	2.43844	Cis up vs Nor
3464983	ATP2B1	0.000264261	2.43E-31	-2.23315	Cis down vs Nor
3852565	ASF1B	0.000266029	0.000435434	2.11183	Cis up vs Nor
2980516	CNKSR3	0.000266763	4.75E-05	-2.01011	Cis down vs Nor
2694753	C3orf25	0.000269374	9.92E-09	2.23863	Cis up vs Nor
3567984	PPP2R5E	0.000270336	1.13E-08	-2.83315	Cis down vs Nor
3511817	ENOX1	0.000270427	8.30E-05	-3.44187	Cis down vs Nor
2475710	LCLAT1	0.000276303	4.07E-09	-2.02109	Cis down vs Nor
2648141	MBNL1	0.000277441	2.55E-15	-2.07658	Cis down vs Nor
3256074	BMPR1A	0.000280754	0.00547808	-3.56999	Cis down vs Nor
3200040	BNC2	0.000283042	6.12E-16	-2.59199	Cis down vs Nor
3911217	PMEP1A	0.000284162	8.53E-19	-2.98434	Cis down vs Nor
3019565	C7orf53	0.00028503	1.89E-05	9.67771	Cis up vs Nor
3887479	EYA2	0.000287903	9.00E-23	-3.241	Cis down vs Nor
2513925	B3GALT1	0.000292087	7.70E-06	-6.2385	Cis down vs Nor
2989050	RAC1	0.000292351	0.000677995	2.15618	Cis up vs Nor

3526831	RASA3	0.000294719	3.41E-14	-2.25984	Cis down vs Nor
2664452	ANKRD28	0.000298411	7.03E-11	-2.58663	Cis down vs Nor
3753690	PEX12	0.000300407	0.0123892	2.51148	Cis up vs Nor
3536786	FBXO34	0.000302147	1.21E-12	-2.05658	Cis down vs Nor
2510713	FMNL2	0.000304462	2.36E-12	-2.21853	Cis down vs Nor
3970476	SCML1	0.00030689	0.000106791	2.6369	Cis up vs Nor
3240452	BAMBI	0.000307314	3.34E-06	3.55398	Cis up vs Nor
2933331	SNX9	0.000307395	6.74E-11	-2.16164	Cis down vs Nor
3770944	H3F3B	0.000308202	1.74E-09	2.0473	Cis up vs Nor
3968122	TBL1X	0.000309681	1.95E-19	-2.25172	Cis down vs Nor
3302187	ARHGAP19	0.00031067	5.27E-07	-1.80059	Cis down vs Nor
2999303	MRPL32	0.000312491	0.00011722	2.24398	Cis up vs Nor
3362468	SBF2	0.00031667	1.33E-12	-2.81737	Cis down vs Nor
3190151	SLC25A25	0.000317233	0.000268295	2.27264	Cis up vs Nor
3387413	FAM76B	0.000320359	3.22E-09	2.50812	Cis up vs Nor
3970642	CDKL5	0.000322346	2.65E-12	-2.18861	Cis down vs Nor
3665603	CTCF	0.000323698	3.29E-11	-2.73766	Cis down vs Nor
2678116	FAM116A	0.000325044	1.92E-07	-3.34713	Cis down vs Nor
2554975	BCL11A	0.000325627	1.31E-26	-2.05233	Cis down vs Nor
2437307	SCAMP3	0.000326849	4.99E-05	2.27887	Cis up vs Nor
2486178	MEI1	0.000330526	4.48E-15	-3.40401	Cis down vs Nor
2546409	ALK	0.000330957	4.32E-18	-2.63956	Cis down vs Nor
2658595	HES1	0.000330958	8.47E-09	3.2538	Cis up vs Nor
2946681	HIST1H2BJ	0.000331006	3.56E-09	2.04791	Cis up vs Nor
3706736	TMEM93	0.000332635	0.00115676	2.05102	Cis up vs Nor
2768396	TEC	0.000333486	5.97E-08	-2.99682	Cis down vs Nor
2963929	RNGTT	0.000334602	1.40E-18	-2.93626	Cis down vs Nor
3019793	FOXP2	0.000339778	1.19E-06	-3.51073	Cis down vs Nor
3082503	ZNF596	0.000339847	0.00131447	2.4218	Cis up vs Nor
2358743	SCNM1	0.000342776	0.000113039	2.1447	Cis up vs Nor
3376235	WDR74	0.000343032	5.80E-27	2.32754	Cis up vs Nor
3238466	COMMD3	0.0003442	0.00658307	2.35823	Cis up vs Nor
2782822	NDST4	0.00034463	4.13E-06	-2.80595	Cis down vs Nor
2603897	TIGD1	0.000347896	2.01E-05	4.34465	Cis up vs Nor
4007617	PIM2	0.000350104	1.57E-13	2.71662	Cis up vs Nor
2935475	QKI	0.000350502	4.23E-15	-2.23223	Cis down vs Nor
2672467	CCDC12	0.000351016	0.000335816	-2.45729	Cis down vs Nor
2866225	MFC2C	0.000354924	2.63E-09	-3.05653	Cis down vs Nor
3143660	MMP16	0.000356887	1.25E-05	-2.31528	Cis down vs Nor
3717539	RHOT1	0.000357404	3.00E-08	-2.19359	Cis down vs Nor
3328600	TSPAN18	0.00036081	1.25E-09	-3.96113	Cis down vs Nor
2341083	GADD45A	0.000366218	0.000936486	2.10863	Cis up vs Nor
2694931	TMCC1	0.000366818	1.65E-09	-2.71219	Cis down vs Nor
3447348	SOX5	0.00037003	9.39E-21	-2.25888	Cis down vs Nor
2400177	CAMK2N1	0.000370895	5.97E-08	2.06772	Cis up vs Nor
3081624	LMBR1	0.000373952	3.55E-10	-2.57393	Cis down vs Nor
3732230	PITPNC1	0.000374201	6.88E-08	-2.94807	Cis down vs Nor
3216671	CTSL2	0.000374327	1.84E-07	2.63096	Cis up vs Nor
3773241	TBC1D16	0.000378601	0.0140765	-2.95902	Cis down vs Nor
3776139	NDC80	0.000381932	0.00185206	-2.12429	Cis down vs Nor
3303392	BLOC1S2	0.000384775	0.0109959	2.18759	Cis up vs Nor
2600689	EPHA4	0.000387923	4.81E-25	-3.49629	Cis down vs Nor
3482845	RASL11A	0.000390707	8.04E-09	4.34463	Cis up vs Nor
3156307	PTK2	0.000394114	6.29E-33	-2.31601	Cis down vs Nor
3412345	TMEM117	0.000394328	4.31E-07	-4.32322	Cis down vs Nor
3453837	TUBA1A	0.000394488	8.53E-08	2.06886	Cis up vs Nor
3251490	CCDC109A	0.000395544	4.43E-07	-2.55725	Cis down vs Nor
3227645	UCK1	0.000395912	3.83E-06	2.01025	Cis up vs Nor
3322501	MYOD1	0.000396566	3.76E-09	-2.50888	Cis down vs Nor
3407229	AEBP2	0.000398379	2.09E-26	-2.62089	Cis down vs Nor
2746693	ARHGAP10	0.000400112	1.37E-09	-2.17938	Cis down vs Nor
3649052	MKL2	0.000400613	5.13E-07	-2.06119	Cis down vs Nor
2438458	CRABP2	0.000404047	0.00450152	2.11357	Cis up vs Nor
3105777	WWP1	0.000405887	2.48E-05	-2.04789	Cis down vs Nor
3884612	SNHG11	0.00041131	1.55E-05	2.66243	Cis up vs Nor
3335736	DRAP1	0.000414164	0.0186012	2.05296	Cis up vs Nor
3441941	VAMP1	0.000416115	0.0055706	3.28076	Cis up vs Nor
3635553	STARD5	0.000417316	2.53E-11	3.73355	Cis up vs Nor
3742067	UBE2G1	0.000421258	1.93E-16	-2.20849	Cis down vs Nor
2806799	NIPBL	0.000423426	5.73E-09	-2.2751	Cis down vs Nor
2810458	GPBP1	0.000424719	8.72E-09	-2.91821	Cis down vs Nor
3735478	SPHK1	0.000426129	0.000147334	2.27832	Cis up vs Nor
3126191	PSD3	0.000426469	4.77E-10	-1.80992	Cis down vs Nor
2489545	HK2	0.000430397	4.29E-08	-2.02541	Cis down vs Nor
3610804	IGF1R	0.00043199	7.43E-21	-2.42415	Cis down vs Nor
3791482	PHLPP1	0.000434982	1.96E-19	-3.04808	Cis down vs Nor
2909723	CENPO	0.000435762	4.88E-06	2.40195	Cis up vs Nor
2420790	C1orf52	0.000440854	0.000627772	2.50217	Cis up vs Nor
2460519	EXOC8	0.000443163	9.19E-07	3.35906	Cis up vs Nor
4024160	ATP11C	0.000446927	1.08E-08	-2.37656	Cis down vs Nor
3631517	THAP10	0.000446978	8.38E-07	3.83568	Cis up vs Nor
2860666	TAF9	0.000453013	0.00271491	2.34146	Cis up vs Nor
2430762	WARS2	0.000453426	0.0181057	-2.33703	Cis down vs Nor
3347831	DDX10	0.000455451	1.00E-05	-3.07431	Cis down vs Nor
3410614	FGD4	0.000459235	8.18E-06	-2.24499	Cis down vs Nor
2934191	PNLDC1	0.00046525	1.31E-19	4.1993	Cis up vs Nor
3062193	SLC25A13	0.000466998	0.000331429	-2.11672	Cis down vs Nor
3321150	ARNTL	0.000467125	1.20E-05	-4.23592	Cis down vs Nor

4021633	ENOX2	0.000473735	2.73E-13	-3.16348	Cis down vs Nor
2558976	MCEE	0.000473813	4.50E-07	3.02773	Cis up vs Nor
3980745	FOXO4	0.000474069	9.83E-06	2.54099	Cis up vs Nor
2966636	ASCC3	0.000474278	3.79E-06	-2.25495	Cis down vs Nor
3013178	CASD1	0.000474868	1.24E-21	-2.54155	Cis down vs Nor
3587015	KLF13	0.000477806	5.36E-12	-2.12641	Cis down vs Nor
3422215	THAP2	0.00048054	0.00343774	4.6598	Cis up vs Nor
3273578	IDI2	0.000480883	1.72E-05	4.34049	Cis up vs Nor
3182984	NIPSNAP3B	0.000488755	4.11E-06	5.19772	Cis up vs Nor
3272205	INPP5A	0.000490367	1.60E-17	-2.15732	Cis down vs Nor
2825514	DMXL1	0.000497872	4.96E-15	-2.1637	Cis down vs Nor
2766359	RFC1	0.000498232	6.23E-09	-2.06756	Cis down vs Nor
2835715	GPX3	0.000499559	6.00E-08	2.4362	Cis up vs Nor
3546924	FLRT2	0.000502258	1.49E-05	-3.06202	Cis down vs Nor
3367096	LGR4	0.000502972	5.15E-17	-2.94737	Cis down vs Nor
3753288	CCT6B	0.000504261	4.05E-06	2.44181	Cis up vs Nor
3354535	PKNOX2	0.00050769	2.30E-11	-2.26261	Cis down vs Nor
3605780	SCAND2	0.000511243	0.00729789	2.01139	Cis up vs Nor
3975893	PHF16	0.000512766	2.42E-05	-2.22182	Cis down vs Nor
3458857	AVIL	0.00051879	7.26E-28	2.16524	Cis up vs Nor
2345617	PKN2	0.000521613	6.38E-17	-2.20587	Cis down vs Nor
3796992	C18orf18	0.000522532	5.47E-06	2.63157	Cis up vs Nor
3507710	SLC7A1	0.000525603	1.92E-15	-2.21366	Cis down vs Nor
2356181	RBM8A	0.000529167	0.0161738	2.76454	Cis up vs Nor
3281068	PIP4K2A	0.000529253	1.85E-09	-2.08463	Cis down vs Nor
2879312	NR3C1	0.000546974	1.02E-18	-2.01688	Cis down vs Nor
2712040	ACAP2	0.000555885	2.22E-08	-2.24493	Cis down vs Nor
3229529	CAMSAP1	0.00055943	2.66E-25	-2.11285	Cis down vs Nor
2947100	HIST1H2AM	0.000563287	2.86E-10	2.93087	Cis up vs Nor
2769182	SCFD2	0.000566605	1.43E-08	-2.30618	Cis down vs Nor
3066297	SRPK2	0.000568582	2.32E-26	-2.26195	Cis down vs Nor
3567469	TRMT5	0.000568994	0.00260955	2.34954	Cis up vs Nor
2873897	3-Mar	0.000570914	0.00012119	-3.2207	Cis down vs Nor
2832081	ZMAT2	0.000572393	0.00917448	2.05873	Cis up vs Nor
2549565	SLC8A1	0.000576239	4.35E-14	-2.02308	Cis down vs Nor
3375307	CYBASC3	0.000577127	0.0127409	2.63345	Cis up vs Nor
3167220	UBE2R2	0.000579124	4.26E-12	-2.50812	Cis down vs Nor
3917938	HUNK	0.00058614	3.03E-14	-3.67486	Cis down vs Nor
2708922	IGF2BP2	0.000586725	0.00643486	-2.91591	Cis down vs Nor
3383322	NARS2	0.000587986	8.25E-10	-2.06343	Cis down vs Nor
3237788	PLXDC2	0.000590216	3.74E-06	-2.30845	Cis down vs Nor
2887164	SH3PXD2B	0.000594127	0.00187564	-3.0754	Cis down vs Nor
3575567	FOXN3	0.000594428	3.50E-13	-4.07766	Cis down vs Nor
3631794	MYO9A	0.000598772	2.15E-13	-2.11892	Cis down vs Nor
3020496	ST7	0.000601425	4.20E-13	-2.2175	Cis down vs Nor
2573641	CLASP1	0.000616932	1.79E-05	-2.04273	Cis down vs Nor
2896177	JARID2	0.000626046	1.95E-20	-2.94971	Cis down vs Nor
3145107	CCNE2	0.000626109	9.44E-06	2.03344	Cis up vs Nor
2372858	RGS2	0.00062929	0.0047605	4.20568	Cis up vs Nor
2380590	TGFB2	0.000637118	2.70E-07	-2.85367	Cis down vs Nor
3766716	TEX2	0.000640675	2.70E-21	-2.12779	Cis down vs Nor
3761378	HOXB5	0.00064569	0.000233262	2.79497	Cis up vs Nor
2491386	TCF7L1	0.000652038	9.66E-24	-2.03155	Cis down vs Nor
2582562	ACVR1	0.000655812	3.32E-25	-2.00833	Cis down vs Nor
2652410	FNDC3B	0.000659431	7.43E-44	-3.11135	Cis down vs Nor
3337067	RPS6KB2	0.000661299	3.51E-13	2.02278	Cis up vs Nor
3591674	C15orf63	0.000663403	2.54E-12	3.53211	Cis up vs Nor
3042849	HOXA5	0.000665621	0.00143067	2.09361	Cis up vs Nor
4014251	CHM	0.000672112	9.39E-17	-2.30839	Cis down vs Nor
2736462	BMPR1B	0.000672208	0.0031148	-2.19698	Cis down vs Nor
3423622	SYT1	0.000676442	3.41E-05	-4.34615	Cis down vs Nor
2329752	ZMYM4	0.000688446	6.44E-10	-2.08375	Cis down vs Nor
3592366	SPATA5L1	0.00069515	0.00717627	2.17137	Cis up vs Nor
3528994	ACIN1	0.000704438	0.000149285	2.11199	Cis up vs Nor
2776372	WDFY3	0.000705697	7.33E-32	-2.11714	Cis down vs Nor
3988874	UBE2A	0.000706853	0.0114043	2.25963	Cis up vs Nor
2353237	VANGL1	0.000707323	8.88E-07	-2.04332	Cis down vs Nor
2766893	APBB2	0.000710343	6.30E-14	-3.21724	Cis down vs Nor
3264621	TCF7L2	0.000737955	1.64E-10	-3.28078	Cis down vs Nor
3042919	HOXA9	0.000739831	2.05E-07	2.26592	Cis up vs Nor
2342738	ST6GALNAC3	0.000749997	1.33E-06	-2.45129	Cis down vs Nor
3254521	TSPAN14	0.000762034	2.40E-05	-2.21401	Cis down vs Nor
2544219	PFN4	0.000773145	0.0154468	2.47883	Cis up vs Nor
2781813	ELOVL6	0.000773234	9.10E-07	-3.84523	Cis down vs Nor
3140037	EYA1	0.00077385	1.05E-37	-2.52569	Cis down vs Nor
4043943	INPP5B	0.000783727	0.000192974	-2.05236	Cis down vs Nor
2705445	PLD1	0.000787195	3.37E-07	-2.09093	Cis down vs Nor
3945225	MAFF	0.000788366	0.00301888	2.02021	Cis up vs Nor
3832978	ZFP36	0.000789357	0.000486464	2.66402	Cis up vs Nor
2807886	FBXO4	0.000794103	2.89E-07	2.00039	Cis up vs Nor
2523635	CYP20A1	0.000799943	6.09E-08	-2.0456	Cis down vs Nor
3750767	ALDOC	0.000801119	3.09E-06	2.91085	Cis up vs Nor
3414561	DIP2B	0.000801957	2.77E-11	-1.91859	Cis down vs Nor
4027708	MTCP1	0.000810061	0.000246142	2.58225	Cis up vs Nor
2482230	ERLEC1	0.000811216	2.28E-10	-2.05357	Cis down vs Nor
3553690	MARK3	0.000822677	1.71E-09	-2.0457	Cis down vs Nor
3718555	SLFN5	0.000826026	5.02E-08	3.06154	Cis up vs Nor
3430716	FICD	0.000826147	0.00515996	2.16346	Cis up vs Nor

3722182	AOC2	0.000826623	0.000752934	3.85873	Cis up vs Nor
2753880	CDKN2AIP	0.000829165	0.000105517	2.61671	Cis up vs Nor
2686646	SENP7	0.000829564	8.66E-08	-2.54762	Cis down vs Nor
2812435	ERBB2IP	0.000830162	6.15E-14	-2.13397	Cis down vs Nor
2690956	POPODC2	0.000836478	0.012748	2.83424	Cis up vs Nor
2973376	PTPRK	0.000842233	9.24E-35	-3.12999	Cis down vs Nor
3834599	ZNF574	0.00084404	0.0022468	2.00881	Cis up vs Nor
3315549	PSMD13	0.000844825	9.01E-08	2.10807	Cis up vs Nor
2480168	PRKCE	0.000848108	1.08E-15	-2.34525	Cis down vs Nor
3882854	ITCH	0.000848339	3.69E-08	-2.05288	Cis down vs Nor
3018866	DNAJB9	0.000850848	0.000186127	3.02398	Cis up vs Nor
3286792	C10orf25	0.000851461	0.00322233	2.08085	Cis up vs Nor
3043264	JAZF1	0.000864816	5.72E-12	-2.04877	Cis down vs Nor
3079803	PRKAG2	0.000872264	3.13E-11	-2.10582	Cis down vs Nor
3669092	TERF2IP	0.000892215	6.98E-05	2.17619	Cis up vs Nor
2777487	FAM13A	0.000895814	1.50E-08	-2.40593	Cis down vs Nor
3526544	DCUN1D2	0.00090452	9.35E-07	2.28606	Cis up vs Nor
3592023	B2M	0.000905971	4.19E-05	2.05057	Cis up vs Nor
3382216	ARRB1	0.000907551	0.000153627	-2.34292	Cis down vs Nor
2419046	ZZZ3	0.00093177	2.73E-11	-2.3222	Cis down vs Nor
2412222		0.000940412	0.0132014	7.86714	Cis up vs Nor
3588658	C15orf41	0.000945603	3.90E-10	-2.07875	Cis down vs Nor
2340078	CACHD1	0.000956891	3.80E-08	-3.0606	Cis down vs Nor
2487549	MXD1	0.000957755	0.000939571	2.24703	Cis up vs Nor
3522398	DOCK9	0.000959142	9.84E-18	-2.15507	Cis down vs Nor
3449760	DENND5B	0.000961379	5.48E-19	-2.29435	Cis down vs Nor
2946259	HIST1H1T	0.000961559	7.15E-05	3.30409	Cis up vs Nor
2864849	SSBP2	0.000961992	2.84E-15	-3.38302	Cis down vs Nor
2484970	EHBP1	0.000962579	1.42E-14	-2.53074	Cis down vs Nor
2460189	PGBD5	0.000964541	1.27E-07	-2.34453	Cis down vs Nor
3618333	MEIS2	0.000969683	1.09E-23	-2.20685	Cis down vs Nor
2648535	ARHGFE26	0.000969757	6.81E-18	-2.22883	Cis down vs Nor
3168508	MELK	0.000971674	3.51E-10	-2.74529	Cis down vs Nor
3592401	C15orf48	0.000973347	4.24E-06	4.71535	Cis up vs Nor
2529546	ACSL3	0.00097366	5.97E-10	-2.11399	Cis down vs Nor
2810395	C5orf35	0.00098409	0.000166951	2.37025	Cis up vs Nor
2844709	CNOT6	0.000986741	2.97E-15	-2.17511	Cis down vs Nor
2973694	ARHGAP18	0.000988241	1.28E-14	-2.96055	Cis down vs Nor
3524999	LIG4	0.00100674	1.82E-07	2.1849	Cis up vs Nor
2412082	FAF1	0.00101078	4.09E-06	-2.06028	Cis down vs Nor
3694657	CDH11	0.00101833	2.01E-17	-2.90717	Cis down vs Nor
2599993	ABCB6	0.00102064	9.73E-11	2.75377	Cis up vs Nor
3042001	CYCS	0.00102398	0.00131854	2.19784	Cis up vs Nor
2615360	TGFBR2	0.00103384	8.77E-14	-2.61836	Cis down vs Nor
3397877	ARHGAP32	0.00103746	2.06E-12	-2.12287	Cis down vs Nor
3065963	ORC5	0.00104848	2.67E-05	-2.371	Cis down vs Nor
3401828	DYRK4	0.00105092	1.24E-12	2.92477	Cis up vs Nor
3851441	ZNF442	0.00105238	0.000142266	2.24782	Cis up vs Nor
3489212	FNDC3A	0.00106748	0.0019756	-2.14724	Cis down vs Nor
3463727	LIN7A	0.00108588	0.0011829	-2.31476	Cis down vs Nor
2953974	GUCA1B	0.00110062	0.000476986	2.05665	Cis up vs Nor
3830993	HCST	0.00110624	0.000142288	2.33587	Cis up vs Nor
3113894	ZHX2	0.00110653	4.50E-10	-2.83132	Cis down vs Nor
2739267	RRH	0.00111205	2.51E-06	5.22657	Cis up vs Nor
2473149	NCOA1	0.0011226	5.45E-10	-2.64805	Cis down vs Nor
3653317	RBBP6	0.00112702	6.83E-15	2.27999	Cis up vs Nor
3711262	HS3ST3B1	0.00112854	0.00309481	-3.36498	Cis down vs Nor
3154263	SLA	0.00114185	0.011067	-2.20417	Cis down vs Nor
2794792	VEGFC	0.00116751	3.28E-15	-2.18141	Cis down vs Nor
3988365	WDR44	0.00117694	3.23E-10	-2.13717	Cis down vs Nor
2532510	GIGYF2	0.0011796	7.95E-25	-2.15973	Cis down vs Nor
2551905	C2orf61	0.00118311	0.00782211	3.24812	Cis up vs Nor
2645579	RASA2	0.00118891	1.44E-07	-2.26973	Cis down vs Nor
2915357	RWDD2A	0.00119032	3.34E-05	2.28733	Cis up vs Nor
3576937	NDUFB1	0.00120332	1.74E-05	2.02973	Cis up vs Nor
2346863	RPL5	0.00123111	0.00158115	2.26867	Cis up vs Nor
2402493	PAFAH2	0.00123799	6.02E-08	-2.49642	Cis down vs Nor
3883013	TP53INP2	0.00123816	1.05E-06	2.01923	Cis up vs Nor
2379399	RPS6KC1	0.0012529	4.80E-11	-2.22469	Cis down vs Nor
3367338	KIF18A	0.00126043	2.94E-08	-2.04873	Cis down vs Nor
3589697	BUB1B	0.00126832	4.73E-05	-2.28169	Cis down vs Nor
3877809	OTOR	0.00126971	2.45E-06	2.82029	Cis up vs Nor
3996467	PLXNA3	0.00127849	6.36E-08	2.07183	Cis up vs Nor
3259785	FRAT1	0.00127985	0.00109588	2.02514	Cis up vs Nor
3005444	TPST1	0.00129032	4.36E-07	-2.14331	Cis down vs Nor
2510056	LYPD6	0.00130317	4.66E-10	-2.16307	Cis down vs Nor
3221646	POLE3	0.00131349	0.00296683	2.13032	Cis up vs Nor
3654175	IL4R	0.00131777	0.00567404	-2.02651	Cis down vs Nor
3587495	SCG5	0.00132468	0.000119406	2.74715	Cis up vs Nor
2540477	ROCK2	0.00133106	1.18E-06	-2.31244	Cis down vs Nor
3534201	PRPF39	0.00136796	0.00188831	2.08459	Cis up vs Nor
3707383	ENO3	0.00137103	0.00046879	2.02666	Cis up vs Nor
3258168	KIF11	0.00138434	0.000154463	-2.79957	Cis down vs Nor
3141755	HEY1	0.00138502	0.0126793	2.28179	Cis up vs Nor
3816509	GADD45B	0.00138684	6.79E-06	3.24647	Cis up vs Nor
3176933	C9orf103	0.00139346	0.00679615	2.70893	Cis up vs Nor
3774418	MAFG	0.00140119	0.00130365	2.08482	Cis up vs Nor
3507465	SLC46A3	0.00141682	0.00309971	-2.3269	Cis down vs Nor

2629782	EBLN2	0.00141891	0.00370556	-2.41035	Cis down vs Nor
2332583	CCDC30	0.00145771	1.66E-05	2.36874	Cis up vs Nor
2454378	SLC30A1	0.00146311	0.000352719	2.25893	Cis up vs Nor
3784509	ZNF271	0.00146954	0.0127826	-2.43528	Cis down vs Nor
3765167	USP32	0.00147679	2.35E-17	-2.40726	Cis down vs Nor
3471753	C12orf47	0.00150361	2.03E-06	2.23456	Cis up vs Nor
3987029	TMEM164	0.00151046	2.45E-07	-2.00322	Cis down vs Nor
3843934		0.00151305	6.95E-05	1.52929	Cis up vs Nor
3251393	DDIT4	0.00151658	3.31E-08	2.08255	Cis up vs Nor
3023279	TP1P2	0.00151765	0.000104067	2.10986	Cis up vs Nor
3349437		0.00153179	0.00190018	-2.9564	Cis down vs Nor
3954545	ZNF280A	0.00153204	0.00965186	3.9904	Cis up vs Nor
2734018	MRPS18C	0.00153438	0.000325818	2.81404	Cis up vs Nor
3146103	STK3	0.00153878	0.00144844	-2.19676	Cis down vs Nor
2696764	MSL2	0.00155696	1.12E-05	-2.15684	Cis down vs Nor
2912860	C6orf57	0.0015618	1.92E-05	2.43768	Cis up vs Nor
2978044		0.00156435	0.00492906	9.21755	Cis up vs Nor
3587457	ARHGAP11A	0.00157349	1.21E-06	-2.53528	Cis down vs Nor
2754582	SNX25	0.00158978	9.74E-07	-2.39864	Cis down vs Nor
2856634	ARL15	0.00159051	0.000550789	-2.43605	Cis down vs Nor
3869396	ZNF841	0.00161181	0.0125293	2.58051	Cis up vs Nor
2642995	TMEM108	0.00161174	0.000254295	-2.4631	Cis down vs Nor
3336351	CCS	0.00161796	6.81E-06	2.05744	Cis up vs Nor
2518743	NUP35	0.0016344	1.19E-05	-2.41194	Cis down vs Nor
3576284	RP56KA5	0.00163441	1.38E-07	-2.28167	Cis down vs Nor
3262490	C10orf78	0.00164941	0.00516401	2.38577	Cis up vs Nor
2514122	LASS6	0.00165848	0.000246243	-2.20832	Cis down vs Nor
2403557	SNORA44	0.00167756	3.75E-11	2.1826	Cis up vs Nor
2866704	ARRDC3	0.00168488	3.60E-08	4.75492	Cis up vs Nor
2868523	CHD1	0.00169291	6.68E-08	-2.31001	Cis down vs Nor
3310041	FGFR2	0.00170035	1.56E-25	-3.81608	Cis down vs Nor
3459120	LRIG3	0.00171118	1.94E-11	-2.90069	Cis down vs Nor
2758658	TMEM128	0.00173442	4.17E-05	2.72131	Cis up vs Nor
2862380	ANKRA2	0.00174674	0.00364036	2.59711	Cis up vs Nor
2818212	ATG10	0.00176557	9.97E-05	-3.27197	Cis down vs Nor
3836266	FOSB	0.00177215	1.85E-14	2.8371	Cis up vs Nor
3872310	ZNF550	0.00177396	8.38E-06	2.06364	Cis up vs Nor
2899233	HIST1H3E	0.00177451	0.000289337	2.49096	Cis up vs Nor
2891092	TRIM52	0.00178154	0.0137718	2.00206	Cis up vs Nor
2933536	TULP4	0.00179835	9.03E-35	-2.06319	Cis down vs Nor
3445908	EPS8	0.00181123	3.27E-08	-2.14447	Cis down vs Nor
2850071	MYO10	0.00181975	1.57E-17	-2.01432	Cis down vs Nor
3862068	EID2B	0.00183939	2.44E-05	2.00705	Cis up vs Nor
2592598	TMEFF2	0.00188692	2.98E-08	-2.00052	Cis down vs Nor
3559497	STRN3	0.00190969	9.55E-13	-2.10774	Cis down vs Nor
3466826	CDK17	0.00191345	5.35E-11	-3.03907	Cis down vs Nor
3238962	KIAA1217	0.00192702	1.50E-20	-2.43848	Cis down vs Nor
3105600	CA2	0.00197754	2.88E-07	2.97172	Cis up vs Nor
3891447	EDN3	0.00199372	4.66E-23	-2.4993	Cis down vs Nor
3998247	NLGN4X	0.00202571	3.45E-13	-2.61201	Cis down vs Nor
3303059	SLC25A28	0.00204993	7.85E-10	2.53588	Cis up vs Nor
3543673	ACOT2	0.00206271	0.0114634	2.26376	Cis up vs Nor
4005859	CASK	0.00206981	0.00460162	-2.18286	Cis down vs Nor
3716664	SUZ12P	0.00207158	0.00284976	2.19918	Cis up vs Nor
2625793	SLMAP	0.00210577	2.17E-06	-2.2873	Cis down vs Nor
3193339	RXRA	0.00212239	1.77E-11	-2.52408	Cis down vs Nor
3407453	PDE3A	0.00213342	1.04E-05	-2.07386	Cis down vs Nor
2478928	MTA3	0.00213564	3.61E-07	-2.00188	Cis down vs Nor
3557947	CHMP4A	0.00218157	6.15E-07	2.06232	Cis up vs Nor
2495555	UNC50	0.00219481	4.66E-09	2.35061	Cis up vs Nor
4045665	S100A14	0.00222144	3.11E-06	3.41326	Cis up vs Nor
2544895		0.00222899	0.00098877	-2.081	Cis down vs Nor
3038617	NDUFA4	0.00227329	0.00831742	3.37272	Cis up vs Nor
3557350	SLC22A17	0.00228269	1.35E-05	2.01309	Cis up vs Nor
2706297	TBL1XR1	0.00228619	6.09E-06	-2.52823	Cis down vs Nor
3384321	RAB30	0.00228898	0.000144691	-2.22552	Cis down vs Nor
2511820	PKP4	0.00230419	4.49E-06	-2.54169	Cis down vs Nor
2899176	HIST1H2BD	0.00232885	2.63E-05	3.39881	Cis up vs Nor
3144740	FP6628	0.00233399	0.000490308	4.98491	Cis up vs Nor
3168990	FRMPD1	0.00235342	2.74E-05	-2.11702	Cis down vs Nor
3463571	PPP1R12A	0.00235367	5.24E-10	-2.13193	Cis down vs Nor
2374746	NAV1	0.00238302	1.02E-22	-2.40505	Cis down vs Nor
2519480	GULP1	0.00238342	0.000376962	-2.48632	Cis down vs Nor
3392996	SIK3	0.00241509	0.000115183	-2.40658	Cis down vs Nor
3651639	TMEM159	0.00241676	0.00391474	2.11746	Cis up vs Nor
2566711	LYG1	0.00242532	0.00235246	2.22284	Cis up vs Nor
2883878	EBF1	0.00243235	3.06E-25	-2.43101	Cis down vs Nor
2427898	OVGP1	0.00244221	3.05E-06	4.11141	Cis up vs Nor
3204721	TPM2	0.00246517	6.14E-08	2.01109	Cis up vs Nor
2520138	MFSD6	0.00246743	4.11E-06	-2.46382	Cis down vs Nor
2788143	ANAPC10	0.00249831	0.00254162	-2.76114	Cis down vs Nor
4001369	SCML2	0.00254568	0.000274438	-2.09479	Cis down vs Nor
2407985	HEYL	0.00256932	0.00057879	-2.11254	Cis down vs Nor
2946194	HIST1H1A	0.00256964	0.00192278	2.20726	Cis up vs Nor
3884830	PPP1R16B	0.00257361	1.02E-16	-2.20651	Cis down vs Nor
3047660	GLI3	0.0025823	1.72E-17	-2.01301	Cis down vs Nor
3842315	ZNF580	0.00259462	0.000969447	2.08246	Cis up vs Nor