

Supplementary Table 5. The target genes of miR-23a-3p predicted by miRWalk.

refseqid	genesymbol	start	end	bindingp	energy	phylopstem	phylopflank	binding_region_length	Target Scan	miRD B
NM_138962	MSI2	5983	5999	0.953846	-17.5	3.210276	2.7640107	16	0	1
NM_020207	ERCC6L2	6008	6061	0.953846	-24.5	-0.356807	-0.471207	26	0	1
NM_183416	KIF1B	6975	7022	0.953846	-21.6	0.3957721	0.2269654	19	0	0
NM_015395	TECPR1	5391	5413	0.953846	-23.5	3.336402	3.8036548	22	1	1
NM_175854	PAN3	5474	5490	0.953846	-17.8	3.25489	2.3439877	16	0	0
NM_172102	CD8B	826	858	0.953846	-19	0.3820287	0.2241418	18	0	0
NM_172213	CD8B	916	948	0.953846	-19	0.3820287	0.2241418	18	0	0
NM_172101	CD8B	970	1002	0.953846	-19	0.3820287	0.2241418	18	0	0
NM_001277145	ZBTB10	6435	6450	0.953846	-18.1	3.6319129	2.5482901	15	0	0
NM_023929	ZBTB10	7672	7687	0.953846	-18.1	1.8226264	2.0123928	15	0	0
NM_004177	STX3	1589	1607	0.953846	-19.6	-0.136031	0.2203603	18	0	1
NM_001178040	STX3	1475	1493	0.953846	-19.6	-0.136031	0.2203603	18	0	1
NM_000112	SLC26A2	6580	6648	0.961538	-23	0.0300475	0.0015723	40	0	0
NM_001291722	CYFIP2	5288	5330	0.961538	-23.2	-0.089222	0.052164	42	0	0
NM_001037333	CYFIP2	5213	5255	0.961538	-23.2	-0.089222	0.052164	42	0	0
NM_001291721	CYFIP2	5135	5177	0.961538	-23.2	-0.089222	0.052164	42	0	0
NM_001134422	CDV3	3787	3807	0.961538	-18.6	0.9350306	1.068965	20	0	0
NM_017548	CDV3	3050	3070	0.961538	-18.6	0.9350306	1.068965	20	0	0
NM_001282764	CDV3	2221	2241	0.961538	-18.6	0.8687536	1.0535	20	0	0
NM_001282765	CDV3	3406	3426	0.961538	-18.6	0.8687536	1.0535	20	0	0
NM_001134423	CDV3	3248	3268	0.961538	-18.6	0.8687536	1.0535	20	0	0
NM_001282763	CDV3	2473	2493	0.961538	-18.6	0.8687536	1.0535	20	0	0
NM_001040061	FOXL2NB	3743	3759	0.961538	-17.3	0.1458427	0.2160978	16	0	0
NM_015595	ARHGEF26	4347	4368	0.961538	-20.5	0.9925019	0.4361226	21	0	0
NM_001185119	MYNN	1792	1838	0.961538	-18.6	0.9062048	2.410847	17	1	1
XM_011536385	WDR89	2848	2872	0.961538	-22.5	0	0	24	0	0
NM_145112	MAX	1842	1862	0.961538	-18.7	1.6946218	2.4574466	20	0	0
NM_002382	MAX	1869	1889	0.961538	-18.7	1.6946218	2.4574466	20	0	0
NM_001320415	MAX	1954	1974	0.961538	-18.7	1.6946218	2.4574466	20	0	0
NM_145113	MAX	1970	1990	0.961538	-18.7	1.6946218	2.4574466	20	0	0
NM_173477	USH1G	2477	2496	0.961538	-20.3	5.054948	4.9698666	19	0	0
NM_006658	PPP1R17	1299	1324	0.961538	-19.8	0.1403641	-0.007332	16	0	1
NM_001145123	PPP1R17	1146	1171	0.961538	-19.8	0.4855252	-0.028403	16	0	1
NM_005020	PDE1C	6987	6999	0.961538	-22.3	2.3883198	1.7052437	12	0	0
NM_001171581	ITM2A	1014	1031	0.961538	-16.9	0	0	17	0	0
NM_004867	ITM2A	1146	1163	0.961538	-16.9	0	0	17	0	0
NM_016823	CRK	2698	2714	0.961538	-17.1	3.0037924	2.1863252	16	1	0
XM_017013622	PKIA	3136	3152	0.961538	-18.5	0	0	16	1	1
NM_001318824	GATD1	1155	1171	0.961538	-20.9	-0.759379	-0.193223	16	0	0
NM_182612	GATD1	1263	1279	0.961538	-20.9	-0.124989	-0.167774	16	0	0
NM_014653	WSCD2	2916	2931	0.961538	-23.9	0.1883645	1.1705099	15	0	0
NM_001304447	WSCD2	2747	2762	0.961538	-23.9	-0.559738	-0.205949	15	0	0
XM_017020246	WSCD2	2572	2587	0.961538	-23.9	0	0	15	0	0
NM_015253	WSCD1	2617	2641	0.961538	-22	-0.180698	0.1110911	15	0	1
NM_018706	DHTKD1	3394	3412	0.961538	-18.6	0.1674644	-0.01723	18	0	0
NM_001004470	ST8SIA6	4272	4285	0.961538	-18.3	0.3567639	0.390185	13	0	0
XM_011519337	MPP7	4690	4705	0.961538	-19	0	0	15	0	0
XM_005245350	LHX9	4688	4740	0.961538	-24.1	0	0	30	0	0

NM_002023	FMOD	1768	1787	0.961538	-18.9	1.7351812	3.8253485	19	0	0
NM_018566	YOD1	5106	5132	0.961538	-20.5	2.1859317	1.9454294	16	1	1
NM_001308102	CYP4A22	1939	1953	0.961538	-18.4	-0.901897	-0.468638	14	0	1
NM_001402	EEF1A1	2978	3012	0.961538	-21.2	5.5928911	5.2402457	19	0	0
NM_024740	ALG9	4152	4165	0.961538	-17.8	0.3608875	0.9492943	13	0	0
NM_000565	IL6R	3083	3133	0.961538	-26.3	-0.044443	-0.059476	25	1	1
NM_181359	IL6R	2989	3039	0.961538	-26.3	-0.044443	-0.059476	25	1	1
NM_001085429	TMEM213	3013	3031	0.961538	-20.2	-0.246954	-0.246061	18	0	0
NM_019841	TRPV5	2589	2630	0.961538	-21.4	0.7725405	0.2615362	17	0	0
NM_001077196	PDE11A	3069	3081	0.961538	-19.1	0.6581472	0.975284	12	0	0
NM_000277	PAH	3744	3794	0.961538	-17.7	0	0	17	0	1
NM_178454	DRAM2	1721	1743	0.961538	-18.6	3.915431	3.569983	16	0	0
XM_024446544	DEK	1745	1770	0.961538	-20	0	0	18	0	0
NM_021912	GABRB3	4126	4144	0.961538	-19.6	1.822102	2.1494166	18	1	0
NM_175610	TJP1	7637	7653	0.961538	-20.4	0.0845066	0.3642206	16	1	1
NM_001355015	TJP1	7697	7713	0.961538	-20.4	0	0	16	1	1
NM_003257	TJP1	7877	7893	0.961538	-20.4	-0.092524	0.4038851	16	1	1
NM_001330239	TJP1	7937	7953	0.961538	-20.4	0	0	16	1	1
NM_001301026	TJP1	7476	7492	0.961538	-20.4	0	0	16	1	1
NM_001277313	FMN1	####	10701	0.961538	-19.1	0.7356002	2.4823705	17	0	0
NM_001308103	EGLN3	1280	1330	0.961538	-21.9	0.8266845	1.2204577	30	0	0
NM_006557	DMRT2	2268	2308	0.961538	-20.9	1.6690625	3.1080508	16	0	0
NM_001130865	DMRT2	1707	1747	0.961538	-20.9	2.446393	2.56978	16	0	0
NM_006019	TCIRG1	2690	2702	0.961538	-21.8	0	0	12	0	0
NM_006053	TCIRG1	2449	2461	0.961538	-21.8	0	0	12	0	0
NM_078481	ADGRE5	3150	3187	0.961538	-21.1	0.7371223	0.1709413	17	0	0
NM_001145160	TPM4	2133	2149	0.961538	-17.5	0.5303144	0.4377567	16	0	0
NM_181686	KRTAP12-1	487	499	0.961538	-17.6	0.5925695	0.3022425	12	0	0
NM_001256113	TDRP	841	859	0.961538	-20.5	-0.899278	-0.208554	18	0	0
NM_025069	ZNF703	2997	3033	0.961538	-20.8	0.0824012	0.2636658	20	0	0
NM_018427	RRN3	2785	2804	0.961538	-18.3	0.584	2.9034151	19	0	0
NM_016641	GDE1	1827	1851	0.961538	-17.9	4.7343419	3.8929784	24	0	0
NM_001185127	VAMP4	4720	4743	0.961538	-18.1	3.0498266	2.7646411	23	0	0
NM_003762	VAMP4	4723	4746	0.961538	-18.1	3.0498266	2.7646411	23	0	0
NM_178136	POLDIP3	2776	2795	0.961538	-19.7	0	0	19	0	0
NM_032311	POLDIP3	2863	2882	0.961538	-19.7	0	0	19	0	0
NM_001278657	POLDIP3	2914	2933	0.961538	-19.7	0	0	19	0	0
NM_001166104	NR3C2	4180	4197	0.961538	-21.7	3.8912598	3.0675449	17	0	0
NM_000901	NR3C2	4531	4548	0.961538	-21.7	3.8912598	3.0675449	17	0	0
XM_011531975	NR3C2	4543	4560	0.961538	-21.7	0	0	17	0	0
NM_024649	BBS1	2717	2737	0.961538	-23.1	-0.188517	-0.028747	20	0	0
NM_080539	COLQ	2113	2126	0.961538	-17.6	3.2509119	2.9784701	13	1	0
NM_080538	COLQ	2344	2357	0.961538	-17.6	3.5858371	3.8415409	13	1	0
NM_001128608	MAPKBP1	5898	5913	0.961538	-21.3	-0.182562	0.0873329	15	0	0
NM_014994	MAPKBP1	5880	5895	0.961538	-21.3	-0.182562	0.0873329	15	0	0
NM_001265611	MAPKBP1	5049	5064	0.961538	-21.3	-0.182562	0.0873329	15	0	0
NM_001252127	AP4E1	4077	4101	0.961538	-17.8	1.7023351	0.5332684	24	0	0
NM_007347	AP4E1	4054	4078	0.961538	-17.8	1.7023351	0.5332684	24	0	0
NM_001171603	PREPL	4898	4916	0.961538	-17.2	1.969494	2.9350546	18	0	0
NM_001322124	PUS10	1680	1716	0.961538	-21.5	0.4953463	0.2505325	36	0	0
NM_020340	ARFGEF3	####	11959	0.961538	-21.3	0.4815177	0.349263	50	0	0
NM_001308238	ANKRD29	1854	1884	0.961538	-23	0.0578032	0.3452052	25	0	0

NM_173505	ANKRD29	1953	1983	0.961538	-23	0.0578037	0.3562592	25	0	0
NM_001256423	ARHGAP19	2464	2482	0.961538	-20.4	0.3788177	0.1860827	18	0	0
NM_001114600	SZRD1	3233	3253	0.969231	-20	1.1783943	1.6692797	20	0	0
NM_001271869	SZRD1	3230	3250	0.969231	-20	1.1783943	1.6692797	20	0	0
NM_006782	ZFPL1	1340	1358	0.969231	-17.6	0.5797201	1.2900465	18	0	0
NM_020997	LEFTY1	1244	1265	0.974359	-18.8	1.9277304	2.2054401	21	0	0
NM_012216	MID2	4194	4217	0.974359	-21.7	0	0	23	0	0
NM_052817	MID2	4104	4127	0.974359	-21.7	0	0	23	0	0
NM_014818	TRIM66	9014	9034	0.974359	-23.2	3.3906305	3.9309277	20	0	0
NM_001318939	EEF1AKMT1	805	843	0.974359	-22.7	3.6314444	2.3388622	38	0	0
NM_174928	EEF1AKMT1	869	907	0.974359	-22.7	0	0	38	0	0
NM_001286273	TPT1	3038	3070	0.974359	-22	-0.620361	-0.671202	22	0	0
NM_003295	TPT1	3112	3144	0.974359	-22	-0.409326	-0.464963	22	0	0
NM_001257195	KLHL3	2243	2259	0.974359	-17.6	-0.028197	0.3789635	16	0	0
NM_001013706	PLIN5	1788	1807	0.974359	-21.3	2.9934455	1.1819469	19	0	0
NM_080823	SRMS	1685	1707	0.974359	-21.2	1.9944628	1.9373067	22	0	0
NM_145866	FZD3	####	12353	0.974359	-20.2	0.5462211	0.3323148	22	0	1
NM_001322814	SOD2	2019	2036	0.974359	-20.8	-0.103938	0.0403625	17	0	0
NM_000636	SOD2	2136	2153	0.974359	-20.8	-0.228813	-0.029013	17	0	0
XM_024447781	NRG3	3880	3904	0.974359	-24.8	0	0	24	0	1
NM_000793	DIO2	6144	6160	0.980769	-19.9	-0.109925	0.1203042	16	1	0
XM_006711353	ZBTB7B	2193	2237	0.980769	-20.5	0	0	14	0	0
NM_153686	LCORL	1999	2044	0.980769	-21.5	-0.02245	0.5490351	23	0	0
NM_145642	APOL3	3123	3161	0.980769	-21	-0.163121	-0.02662	14	0	0
NM_145641	APOL3	3186	3224	0.980769	-21	-0.163121	-0.02662	14	0	0
XM_017028952	APOL3	1523	1561	0.980769	-21	0	0	14	0	0
NM_001168238	ABL2	5512	5547	0.984615	-22.9	0.4893231	0.1197695	20	1	0
NM_001168236	ABL2	5821	5856	0.984615	-22.9	0.7137863	0.5729799	20	1	0
NM_001168237	ABL2	5575	5610	0.984615	-22.9	0.6192752	0.4259706	20	1	0
NM_007314	ABL2	5884	5919	0.984615	-22.9	0.270766	1.016846	20	1	0
NM_001168239	ABL2	5225	5260	0.984615	-22.9	0.2471384	0.4308438	20	1	0
NM_001136000	ABL2	5288	5323	0.984615	-22.9	0.7315075	0.7703456	20	1	0
NM_005158	ABL2	5597	5632	0.984615	-22.9	0.2176034	0.5161253	20	1	0
NM_080666	WDR89	3104	3125	0.989011	-21.3	0	0	18	0	0
NM_001258272	WDR89	3609	3630	0.989011	-21.3	0	0	18	0	0
XM_011536385	WDR89	3048	3069	0.989011	-21.3	0	0	18	0	0
XM_006711334	MEF2D	4912	4956	0.989011	-22.3	0	0	19	0	0
NM_018934	PCDHB14	3605	3627	1	-21.2	-0.422438	-0.41536	22	0	0
NM_001079812	DIAPH1	4423	4439	1	-17.7	1.951602	3.6795542	16	0	0
NM_016580	PCDH12	5672	5691	1	-21.4	-0.107866	1.3378598	19	0	0
NM_001144935	FGF1	3452	3471	1	-18.2	3.8818564	3.9186243	19	0	0
NM_001144934	FGF1	3546	3565	1	-18.2	4.1164918	2.2253767	19	0	0
NM_001257205	FGF1	3743	3762	1	-18.2	0.8986537	0.5413938	19	0	0
NM_001257207	FGF1	3486	3505	1	-18.2	3.9532674	3.2876158	19	0	0
NM_001257208	FGF1	3484	3503	1	-18.2	4.5143544	3.4559418	19	0	0
NM_001257209	FGF1	3499	3518	1	-18.2	3.9838729	3.7415858	19	0	0
NM_001257210	FGF1	3483	3502	1	-18.2	4.4327424	3.4788953	19	0	0
NM_030799	YIPF5	1144	1164	1	-19.5	2.27774	1.4141079	20	0	0
NM_001271732	YIPF5	1275	1295	1	-19.5	0.3925552	0.3699534	20	0	0
NM_001024947	YIPF5	1395	1415	1	-19.5	1.034749	0.5994644	20	0	0
XM_005268468	RBM27	6039	6084	1	-23.9	0	0	21	1	1
NM_001301015	ABLIM3	4088	4134	1	-20.9	0.0812911	0.6785314	14	0	0

NM_001301028	ABLIM3	2489	2546	1	-20.9	0.2873183	0.5117927	14	0	0
NM_001001669	ARHGEF37	4524	4543	1	-19.9	0.7337361	0.6965646	19	0	0
NM_005211	CSF1R	3860	3879	1	-23.1	1.9820518	0.3660296	19	0	0
NM_001301063	NDST1	3772	3794	1	-18	0.9147861	0.3678005	22	1	1
NM_078483	SLC36A1	2216	2238	1	-20.4	0.0511597	-0.025232	22	0	0
NM_000337	SGCD	9555	9582	1	-20.4	2.1075548	2.1075554	27	0	0
NM_001128209	SGCD	9509	9536	1	-20.4	0	0	27	0	0
NM_033274	ADAM19	6336	6356	1	-27.4	0.9891764	0.756708	20	1	1
NM_025153	ATP10B	6841	6859	1	-19.6	0.1988509	-0.231619	18	0	0
XM_011534472	ATP10B	6138	6156	1	-19.6	0	0	18	0	0
NM_030775	WNT5B	1383	1404	1	-21.8	0.3407204	0.8278326	21	0	0
NM_032642	WNT5B	1421	1442	1	-21.8	2.6183593	0.7859052	21	0	0
NM_001163926	LRTM2	3689	3711	1	-24.3	0	0	22	0	0
NM_001163925	LRTM2	3722	3744	1	-24.3	0	0	22	0	0
NM_001039029	LRTM2	3686	3708	1	-24.3	0	0	22	0	0
NM_001129832	CACNA1C	####	11343	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001129842	CACNA1C	####	11283	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001129829	CACNA1C	####	11406	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001129839	CACNA1C	####	11301	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001129836	CACNA1C	####	11334	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001129843	CACNA1C	####	11283	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001129838	CACNA1C	####	11307	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001167624	CACNA1C	####	11353	1	-22.7	-0.079697	0.0843473	41	0	0
NM_001759	CCND2	1390	1412	1	-20.8	2.1540388	2.7022927	22	0	0
NM_020375	TIGAR	7197	7218	1	-19.2	-0.228745	0.1293866	21	0	0
NM_014231	VAMP1	1174	1189	1	-17.8	0.0927164	-0.190514	15	0	0
NM_001244014	PIANP	1471	1496	1	-23	0.091053	0.1781201	25	0	0
NM_004054	C3AR1	3222	3239	1	-18.4	3.0376208	2.519161	17	0	0
NM_001987	ETV6	4855	4874	1	-19.6	-0.132027	-0.149454	19	0	0
NM_001330356	BORCS5	5042	5058	1	-18.7	0	0	16	0	0
NM_001300742	BORCS5	4795	4811	1	-18.7	0	0	16	0	0
NM_015954	DERA	1494	1508	1	-16.9	0.2591954	0.3713825	14	0	0
XM_024449000	DERA	1343	1357	1	-16.9	0	0	14	0	0
NM_020778	ALPK3	####	10885	1	-21.1	0	0	18	0	0
NM_007200	AKAP13	####	12314	1	-23.8	-0.632	-0.3353	20	0	0
NM_006738	AKAP13	####	12326	1	-23.8	-0.632	-0.3353	20	0	0
NM_001270546	AKAP13	8105	8125	1	-23.8	-0.5285	-0.6573	20	0	0
NM_001113378	FANCI	4079	4101	1	-21.2	2.0122509	1.3519679	22	0	1
NM_018193	FANCI	3899	3921	1	-21.2	0.7939762	1.2723802	22	0	1
XM_011521764	FANCI	3923	3945	1	-21.2	0	0	22	0	1
NM_152259	TICRR	5931	5955	1	-22.8	-0.566992	-0.3505	24	0	0
NM_001308025	TICRR	5928	5952	1	-22.8	-0.277233	-0.381546	24	0	0
NM_001199058	C15orf38- AP3S2	5959	5973	1	-19.5	2.8332128	2.4970881	14	0	0
NM_198527	HDDC3	985	998	1	-18.8	2.6155953	3.6010625	13	0	0
NM_014848	SV2B	4607	4620	1	-19.1	0.1378293	0.493767	13	0	1
NM_001323032	SV2B	4519	4532	1	-19.1	0.1378293	0.493767	13	0	1
NM_001167580	SV2B	3677	3690	1	-19.1	0.1378293	0.493767	13	0	1
XM_017022761	SV2B	4151	4164	1	-19.1	0	0	13	0	1
NM_001166283	RGMA	1835	1873	1	-21	4.4433968	4.0266762	15	0	0
NM_001166289	RGMA	1713	1751	1	-21	4.007499	3.1880032	15	0	0
NM_018349	MCTP2	6602	6619	1	-20.7	-0.071244	0.1167389	17	0	0

NM_001159643	MCTP2	6437	6454	1	-20.7	-0.071244	0.1167389	17	0	0
NM_144598	LRRC28	5076	5091	1	-17.5	-0.390142	-0.0685	15	0	0
NM_001284400	LRRC28	4916	4931	1	-17.5	-0.390142	-0.0685	15	0	0
NM_000693	ALDH1A3	3502	3517	1	-17	0	0	15	0	0
NM_001293815	ALDH1A3	3181	3196	1	-17	0	0	15	0	0
XM_006724900	LOC102723502	2449	2468	1	-20.6	0	0	19	0	0
NM_032039	FAM234A	2214	2226	1	-19.4	-0.105271	-0.833272	12	0	0
NM_001284497	FAM234A	2207	2219	1	-19.4	-0.105271	-0.833272	12	0	0
NM_021259	TMEM8A	2783	2822	1	-24.1	1.7571543	1.0251574	21	0	0
NM_194260	UBE2I	1576	1593	1	-20.4	-0.147399	-0.645217	17	0	0
NM_194261	UBE2I	1428	1445	1	-20.4	-0.147399	-0.645217	17	0	0
NM_194259	UBE2I	1713	1730	1	-20.4	-0.462166	-0.395202	17	0	0
NM_003345	UBE2I	1456	1473	1	-20.4	-0.462166	-0.395202	17	0	0
NM_016333	SRRM2	9130	9155	1	-19.1	0	0	25	0	0
NM_001202518	CFLAR	5115	5130	1	-18.9	-0.075102	-0.02647	15	0	0
NM_032976	CASP10	3994	4019	1	-20.4	-0.354193	-0.256839	19	0	1
NM_001044385	TMEM237	3611	3632	1	-18.6	0.8882971	0.8495863	21	0	0
NM_152388	TMEM237	3776	3797	1	-18.6	0.4348427	0.4505108	21	0	0
NM_173511	FAM117B	4620	4636	1	-18.9	0.8898062	0.54686	16	1	0
NM_173511	FAM117B	3136	3155	1	-18.4	0.8045116	1.0413983	19	1	0
NM_006139	CD28	3275	3290	1	-21.7	1.2861603	1.3476972	15	0	0
XM_011512194	CD28	3110	3125	1	-21.7	0	0	15	0	0
NM_001042599	ERBB4	####	10705	1	-22.7	5.7829531	5.2553137	17	1	1
NM_005235	ERBB4	####	10753	1	-22.7	5.7829531	5.2553137	17	1	1
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XM_011511789	ZNF142	5936	5956	1	-19.5	0	0	20	0	0
NM_014640	TTLL4	4296	4314	1	-20.1	1.3891463	1.1391299	18	0	0
NM_000784	CYP27A1	2064	2088	1	-18.8	0	0	17	0	0
NM_025216	WNT10A	2052	2068	1	-18.2	0	0	16	0	0
NM_024293	RETREG2	2827	2844	1	-19.6	-0.208606	0.4782398	17	1	0
NM_001330213	STK16	2185	2197	1	-17.9	2.0180164	1.3600259	12	0	0
NM_001008910	STK16	1911	1923	1	-17.9	2.0180164	1.3600259	12	0	0
NM_001330215	STK16	1557	1569	1	-17.9	2.0180164	1.3600259	12	0	0
NM_001330214	STK16	1747	1759	1	-17.9	1.1622983	1.1645001	12	0	0
NM_004457	ACSL3	3929	3949	1	-16.8	0.1936136	0.1502263	20	0	0
NM_203372	ACSL3	3822	3842	1	-16.8	0.1936136	0.1502263	20	0	0
NM_001039569	AP1S3	2504	2522	1	-19.3	0.7870908	0.1001316	18	0	0
NM_024785	FAM124B	1291	1306	1	-18.7	1.1712827	-0.182749	15	0	0
NM_001257197	CUL3	4622	4644	1	-32.1	5.2248892	5.6979397	22	1	1
XM_005246708	NYAP2	8460	8480	1	-19.3	0	0	20	0	0
NM_005565	LCP2	3863	3886	1	-19.9	2.8481511	2.7279076	23	0	0
NM_001031711	ERGIC1	2544	2560	1	-17.9	0.842617	0.7081636	16	0	0
NM_001159651	BOD1	1557	1576	1	-20.4	-0.231909	-0.158713	19	0	0
NM_001159651	BOD1	1439	1455	1	-18.3	0.2825353	0.8865034	16	0	0
NM_138369	BOD1	1754	1773	1	-20.4	-0.231909	-0.158713	19	0	0
NM_138369	BOD1	1636	1652	1	-18.3	0.2825353	0.8865034	16	0	0
NM_172349	NSD1	8440	8463	1	-25.1	1.3409498	1.2341953	23	0	0
NM_022455	NSD1	9225	9248	1	-25.1	1.3409498	1.2341953	23	0	0
NM_000843	GRM6	3624	3640	1	-21.2	5.2652697	5.3198281	16	0	0
NM_004155	SERPINB9	1544	1561	1	-16.9	-0.010329	-0.205428	17	0	0
XM_017011414	PRPF4B	3738	3759	1	-22	0	0	21	1	1

NM_003913	PRPF4B	3732	3753	1	-22	3.771277	3.0239861	21	1	1
NM_020408	LYRM4	811	825	1	-19	-0.278797	-0.139124	14	0	0
NM_001164841	LYRM4	936	950	1	-19	-0.423988	0.3081722	14	0	0
NM_001168344	RREB1	8106	8124	1	-21	3.447895	2.0238799	18	0	0
NM_001349021	NME9	1690	1704	1	-19.2	1.7772279	1.4036583	14	0	0
XM_011512777	NME9	5332	5350	1	-19.9	0	0	18	0	0
NM_001288967	CEP70	2034	2050	1	-16	0.8107557	1.0821332	16	0	0
NM_001288964	CEP70	2486	2502	1	-16	0.8107557	0.8826086	16	0	0
NM_024491	CEP70	2504	2520	1	-16	0.8107557	0.8870589	16	0	0
NM_001320598	CEP70	2556	2572	1	-16	0.8107557	0.8655485	16	0	0
NM_001134659	PRR23A	980	999	1	-21.2	-0.134152	0.1414932	19	0	0
NM_001104647	SLC25A36	1308	1356	1	-17.8	1.5808517	0.9404497	18	1	1
NM_018155	SLC25A36	1305	1353	1	-17.8	1.5808517	0.9404497	18	1	1
XM_024453830	PXYLP1	1668	1704	1	-17.2	0	0	18	0	0
NM_006506	RASA2	2747	2767	1	-19	1.993058	1.421887	20	1	1
NM_006286	TFDP2	1594	1635	1	-26.5	-0.192969	-0.086105	31	0	0
NM_001039547	GK5	8737	8757	1	-18.7	2.949561	3.872158	20	0	0
NM_001080415	U2SURP	6987	7004	1	-17.6	1.1611761	0.7041713	17	0	0
NM_001320219	U2SURP	6984	7001	1	-17.6	1.1611761	0.7041713	17	0	0
NM_002886	RAP2B	3440	3470	1	-20.4	-0.465299	0.0751518	30	1	1
NM_001251962	ARHGEF26	4420	4441	1	-20.5	0.1367984	-0.256251	21	0	0
NM_001251963	ARHGEF26	4282	4303	1	-20.5	-0.508379	-0.24861	21	0	0
NM_172160	KCNAB1	3674	3691	1	-21.9	0.2608006	0.2456331	17	0	0
NM_003471	KCNAB1	3794	3811	1	-21.9	0.2608006	0.2456331	17	0	0
NM_172159	KCNAB1	4477	4494	1	-21.9	0.2608006	0.2456331	17	0	0
NM_001130002	PQLC2L	1121	1165	1	-21.3	-0.025819	-0.103207	32	0	0
NM_001130001	PQLC2L	1032	1076	1	-21.3	-0.025819	-0.103207	32	0	0
NM_001042705	IQCJ	663	703	1	-21.7	-0.093851	0.0106693	16	0	0
NM_001197100	IQCJ	582	622	1	-21.7	-0.093851	0.0106693	16	0	0
NM_001042706	IQCJ	1006	1024	1	-17.9	0.1090147	0.070321	16	0	0
NM_020800	IFT80	2999	3022	1	-19.3	4.9779935	4.4137779	23	0	0
NM_001190241	IFT80	3219	3242	1	-19.3	5.7228066	4.1445439	23	0	0
NM_001190242	IFT80	2853	2876	1	-19.3	4.683472	4.5325335	23	0	0
NM_001185118	MYNN	2344	2390	1	-18.6	-0.277518	0.4785027	17	1	1
NM_018657	MYNN	2277	2323	1	-18.6	-0.277518	0.4785027	17	1	1
NM_003262	SEC62	3128	3144	1	-19.4	0.3274168	0.4949823	16	0	0
NM_024735	FBXO31	5824	5839	1	-21.1	0.7878112	1.1963651	15	0	0
NM_001018112	FANCA	1147	1184	1	-20.3	0.1033584	1.376474	16	0	0
XM_024452498	LOC102724250	3518	3538	1	-19.8	0	0	20	0	0
NM_207315	CMPK2	2964	2979	1	-20.3	-0.219802	-0.259452	15	0	0
NM_138799	MBOAT2	2410	2431	1	-21.3	0.0378424	-0.089253	21	0	0
NM_003597	KLF11	3020	3039	1	-21.3	-0.323079	-0.323079	19	0	0
NM_001177716	KLF11	2875	2894	1	-21.3	-0.056297	-0.363096	19	0	0
NM_001177718	KLF11	3023	3042	1	-21.3	-0.056297	-0.363096	19	0	0
NM_002149	HPCAL1	1575	1593	1	-17.8	2.1839359	0.935543	18	0	0
NM_134421	HPCAL1	1717	1735	1	-17.8	2.1839359	0.935543	18	0	0
NM_001258357	HPCAL1	1349	1367	1	-17.8	2.1839359	0.935543	18	0	0
NM_001258358	HPCAL1	1361	1379	1	-17.8	2.1839359	0.935543	18	0	0
NM_001258359	HPCAL1	1755	1773	1	-17.8	2.1839359	0.935543	18	0	0
NM_001199103	NT5C1B-RDH14	2465	2489	1	-18.8	1.5931048	1.0099029	24	0	0

NM_001199104	NT5C1B-RDH14	2914	2938	1	-18.8	1.5931048	1.0099029	24	0	0
NM_001282752	PUM2	3990	4033	1	-22.9	5.1362101	5.8122605	16	0	1
NM_001352919	PUM2	3870	3913	1	-22.9	5.3141675	6.0640069	16	0	1
NM_001346880	MFSD2B	1635	1649	1	-20.5	-0.499786	-0.221038	14	0	0
NM_001142319	WDCP	2532	2562	1	-17.8	1.9214726	3.3137301	19	0	0
NM_001322101	CENPO	3710	3759	1	-24.6	-0.439493	-0.511613	15	0	0
NM_001199803	CENPO	3596	3645	1	-24.6	-0.439493	-0.511613	15	0	0
NM_175629	DNMT3A	4215	4238	1	-22.3	1.0425997	0.0823792	23	1	0
NM_022552	DNMT3A	4144	4167	1	-22.3	0.8377895	0.5203362	23	1	0
NM_153759	DNMT3A	3428	3451	1	-22.3	0.1017045	1.975443	23	1	0
NM_033505	SELENOI	4956	4981	1	-23.1	-0.408137	0.459	20	1	0
NM_001271318	ZNF512	3538	3556	1	-21.9	0.9287005	1.5187016	18	0	0
NM_001271318	ZNF512	3442	3457	1	-17.6	0.1630562	1.0044395	15	0	0
NM_032434	ZNF512	3341	3356	1	-17.6	1.710869	1.4096385	15	0	0
NM_001271286	ZNF512	3350	3368	1	-21.9	0.9287005	1.5187016	18	0	0
NM_001271286	ZNF512	3254	3269	1	-17.6	0.1630562	1.0044395	15	0	0
NM_001271287	ZNF512	3378	3396	1	-21.9	0.9287005	1.5187016	18	0	0
NM_001271287	ZNF512	3282	3297	1	-17.6	0.1630562	1.0044395	15	0	0
XM_006711977	FOSL2	4800	4817	1	-19.5	0	0	17	0	0
NM_206876	PPP1CB	1473	1495	1	-18.9	3.582229	3.1373245	22	1	0
NM_002709	PPP1CB	1678	1700	1	-18.9	3.2591157	2.2328681	22	1	0
NM_002709	PPP1CB	2141	2164	1	-18.9	3.7392445	2.3007213	23	1	0
NM_015131	WDR43	3057	3070	1	-17.7	1.6664804	1.7162101	13	0	0
NM_030915	LBH	1700	1742	1	-23.2	-0.151835	-0.310024	14	0	0
NM_177951	PPM1A	3479	3506	1	-22.1	-0.249321	0.0462001	17	1	1
NM_006255	PRKCH	3124	3138	1	-18.7	-0.339799	0.2880109	14	0	0
NM_172375	KCNH5	2140	2161	1	-23.5	-0.220711	0.0545994	21	0	0
NM_080666	WDR89	2904	2928	1	-22.5	1.2997086	1.2160017	24	0	0
NM_015180	SYNE2	####	21153	1	-19.8	0.8000979	0.0326565	18	0	0
NM_001304508	ZBTB25	1307	1318	1	-16.9	0.8853391	0.8615145	11	0	0
NM_004857	AKAP5	2379	2395	1	-21.2	0.261711	0.0063864	16	0	0
XM_017021735	DCAF5	3949	3967	1	-20.5	0	0	18	0	0
NM_001130417	SLC8A3	1358	1389	1	-18.9	0.341996	-0.104195	12	0	0
NM_001005745	NUMB	2366	2380	1	-18.4	4.478385	5.0516917	14	0	0
NM_003744	NUMB	2510	2524	1	-18.4	4.478385	5.0516917	14	0	0
NM_001005744	NUMB	2399	2413	1	-18.4	4.9302132	3.8489098	14	0	0
NM_001005743	NUMB	2543	2557	1	-18.4	4.9302132	3.8489098	14	0	0
NM_001320114	NUMB	2419	2433	1	-18.4	2.358911	3.8555844	14	0	0
NM_001201366	DNAL1	2756	2770	1	-18.8	0.3848167	0.713767	14	0	0
NM_031427	DNAL1	2710	2724	1	-18.8	0.3848167	0.713767	14	0	0
NM_001278593	ALDH6A1	4232	4274	1	-20	3.8597783	4.3498706	13	0	0
NM_005589	ALDH6A1	4271	4313	1	-20	3.3539395	4.3389603	13	0	0
NM_014239	EIF2B2	1188	1232	1	-19.3	-0.139657	-0.001089	17	0	0
NM_005252	FOS	1770	1787	1	-21.3	2.0914784	3.1907815	17	0	0
NM_001135048	JDP2	2255	2302	1	-21.9	0.1931182	0.0445331	16	0	0
NM_015072	TTLL5	4336	4351	1	-18.1	0.3856199	0.1072887	15	0	0
NM_001322027	GPATCH2L	2395	2430	1	-23.5	0.3390076	0.086128	28	0	0
XM_011536553	ESRRB	4037	4056	1	-19.1	0	0	19	0	0
XM_024449508	ESRRB	3087	3106	1	-19.1	0	0	19	0	0
XM_024449509	ESRRB	1919	1938	1	-19.1	0	0	19	0	0
NM_199296	ISM2	2004	2033	1	-23.1	1.2306817	0.7797476	20	0	0

NM_013989	DIO2	5913	5929	1	-19.9	7.115568	5.1530301	16	1	0
NM_001346144	FLRT2	3560	3606	1	-22.7	0.577974	1.1191515	20	0	0
NM_013231	FLRT2	3538	3584	1	-22.7	0.577974	1.1191515	20	0	0
NM_001322237	RPS6KA5	3100	3115	1	-18	0.503697	-0.05903	15	0	0
XM_024451701	DDA1	1950	1963	1	-18.8	0	0	13	0	0
NM_182515	ZNF714	2469	2486	1	-19.6	-0.513835	-1.657949	17	0	0
NM_001348688	ZNF726	1716	1742	1	-19.2	-0.143427	-0.073485	16	0	0
NM_014717	ZNF536	4756	4786	1	-20.9	3.3989965	3.1519316	18	0	0
NM_001172774	DPY19L3	3380	3399	1	-26.1	0.5622044	1.0217703	19	0	0
NM_207325	DPY19L3	3406	3425	1	-26.1	-0.255937	1.2470788	19	0	0
XM_005259392	PDCD5	935	952	1	-17.7	0	0	17	0	0
NM_001127896	CHST8	1757	1767	1	-18	-1.052503	-0.493925	10	0	0
NM_024076	KCTD15	3197	3212	1	-22.4	-0.684273	0.2874062	15	0	0
NM_001129995	KCTD15	2195	2210	1	-22.4	-0.684273	0.2874062	15	0	0
XM_011527298	KCTD15	2267	2282	1	-22.4	0	0	15	0	0
NM_175872	ZNF792	2716	2733	1	-21.8	-0.982097	0.053943	17	0	0
NM_022006	FXDYD7	459	503	1	-19.3	1.2164223	0.9895328	13	0	0
NM_020917	ZFP14	5225	5244	1	-18.7	0.8087473	-0.152089	19	0	0
NM_133466	ZFP82	5515	5532	1	-18.8	1.8652367	0.8375111	17	0	0
XM_005257187	STXBP4	2032	2053	1	-17.2	0	0	21	0	0
NM_178509	STXBP4	1990	2011	1	-17.2	0.4902687	0.2330341	21	0	0
NM_001078166	SRSF1	4195	4213	1	-18.5	2.8478304	3.2613416	18	0	1
NM_080677	DYNLL2	916	963	1	-21.8	2.3641784	0.8062197	17	0	0
NM_080677	DYNLL2	1404	1424	1	-20.2	2.3113438	1.7019303	20	0	0
NM_014906	PPM1E	2610	2626	1	-18.5	1.4797811	1.1061971	16	0	0
NM_001330399	SKA2	2511	2548	1	-20.1	1.2442465	1.5402835	23	0	0
NM_182620	SKA2	2491	2528	1	-20.1	1.2442465	1.6771907	23	0	0
NM_001100595	SKA2	2489	2526	1	-20.1	1.6177672	2.0576835	23	0	0
NM_001005404	YPEL2	1955	1977	1	-23.9	-0.271243	0.0752526	22	0	0
XM_017024621	YPEL2	1973	1995	1	-23.9	0	0	22	0	0
NM_030938	VMP1	2416	2436	1	-20.3	0.9912634	0.2198552	20	1	0
NM_001329402	VMP1	2280	2300	1	-20.3	0.9912634	0.2198552	20	1	0
XM_011525340	BRIP1	3473	3486	1	-19.9	0	0	13	0	0
XM_017024051	TLK2	3127	3147	1	-24.2	0	0	20	0	0
NM_001330418	TLK2	3161	3181	1	-24.2	0	0	20	0	0
NM_006852	TLK2	2854	2874	1	-24.2	4.2340526	3.9675487	20	0	0
NM_001284333	TLK2	2917	2937	1	-24.2	4.2340526	3.9675487	20	0	0
NM_001284363	TLK2	2512	2532	1	-24.2	3.4349955	3.8525331	20	0	0
NM_000334	SCN4A	6140	6168	1	-22.6	2.1756	2.6073226	28	0	0
NM_001433	ERN1	6690	6732	1	-24.5	4.5513027	3.1265957	21	0	0
NM_000442	PECAM1	2698	2714	1	-21	-0.377882	0.0081848	16	0	0
NM_001282425	GNA13	4044	4073	1	-22.9	-0.22982	-0.188306	29	0	0
XM_011525461	SLC16A6	1931	1945	1	-16.7	0	0	14	1	1
NM_017728	TMEM104	2597	2650	1	-23.6	-0.704617	-0.520737	20	0	0
NM_024585	ARMC7	1391	1409	1	-20	-0.0928	-0.339373	18	0	0
NM_001304271	ARMC7	1327	1345	1	-20	-0.0928	-0.339373	18	0	0
NM_015471	NSL1	####	11923	1	-19.7	-0.105817	0.1526611	16	0	0
NM_001042549	NSL1	####	12008	1	-19.7	-0.311335	0.2143163	16	0	0
NM_001286124	MARK1	5253	5276	1	-20.5	1.3350723	0.7607643	23	1	0
NM_018650	MARK1	5250	5273	1	-20.5	1.5860811	0.7928936	23	1	0
NM_001286126	MARK1	5205	5228	1	-20.5	1.3350723	0.7607643	23	1	0
NM_001286128	MARK1	5139	5162	1	-20.5	1.5860811	0.7928936	23	1	0

NM_198551	MIA3	5858	5872	1	-22.8	0.8946795	0.9360762	14	0	0
NM_001300867	MIA3	2633	2670	1	-23	1.2776183	1.0835789	15	0	0
NM_152610	CCDC185	1982	2032	1	-23.5	0.4203948	0.3042895	21	0	0
NM_001003665	STUM	2274	2291	1	-20.5	-0.570708	-0.62114	17	0	0
NM_001010867	IBA57	7557	7580	1	-25.9	-0.127215	-0.120289	18	0	0
NM_021205	RHOU	3454	3487	1	-18.9	0.6885469	0.1734592	19	0	0
NM_019090	MAP10	3938	3955	1	-21.9	0.0773396	0.0157811	17	0	0
NM_003679	KMO	2603	2635	1	-19.7	0.2951705	0.3356186	19	0	0
NM_003679	KMO	4708	4727	1	-17.9	-0.205146	0.0337048	19	0	0
NM_001821	CHML	5153	5178	1	-20.4	2.55255	2.3087016	14	0	0
NM_005465	AKT3	3500	3515	1	-17.3	1.5966517	1.9706174	15	0	0
NM_016076	DESI2	879	892	1	-18	1.6413235	2.3192315	13	0	0
NM_001297746	DESI2	780	793	1	-18	1.6413235	2.3192315	13	0	0
NM_198076	COX20	945	992	1	-19.6	-0.066452	0.1202159	21	0	1
NM_001143943	EFCAB2	2259	2275	1	-16	0.3029529	0.4035505	16	0	0
NM_001350706	DGKB	3272	3308	1	-19	2.1812448	1.4473599	36	0	0
NM_006408	AGR2	785	798	1	-16.3	0.0010786	0.0510099	13	0	0
NM_001163993	ABCB5	1406	1422	1	-17	0.2112853	0.2293525	16	0	0
NM_005020	PDE1C	4809	4829	1	-19.8	0.2490967	0.1102702	20	0	0
NM_001191056	PDE1C	7223	7235	1	-22.3	4.1794888	3.2936274	12	0	0
NM_015060	AVL9	5111	5129	1	-20	0.1274726	-0.003706	18	0	0
NM_001002010	NT5C3A	1617	1636	1	-22.6	-0.431788	1.5447523	19	0	0
NM_001002009	NT5C3A	1648	1667	1	-22.6	3.0529055	1.8434964	19	0	0
NM_016489	NT5C3A	1712	1731	1	-22.6	0	0	19	0	0
NM_001356996	NT5C3A	1793	1812	1	-22.6	0	0	19	0	0
NM_001166118	NT5C3A	1798	1817	1	-22.6	0	0	19	0	0
NM_001011553	7-Sep	3034	3052	1	-16.8	0.0422351	0.1401965	18	0	1
NM_001242956	7-Sep	2929	2947	1	-16.8	0.0422351	0.1401965	18	0	1
NM_017549	EPDR1	2252	2301	1	-20.9	0.3561119	0.382871	33	0	0
NM_003718	CDK13	6538	6558	1	-18.4	0.4116479	0.6855758	20	1	0
NM_001284330	POLM	2314	2327	1	-18.8	2.7224704	1.2077559	13	0	0
NM_001284331	POLM	2390	2403	1	-18.8	2.7224704	1.2077559	13	0	0
NM_013284	POLM	2501	2514	1	-18.8	2.7224704	1.2077559	13	0	0
NM_013284	POLM	1857	1875	1	-18.1	1.3622625	1.1479676	18	0	0
NM_201436	H2AFV	1294	1331	1	-21.3	0.7246828	0.6677749	16	0	0
NM_201517	H2AFV	1258	1295	1	-21.3	0.7246828	0.6677749	16	0	0
NM_201516	H2AFV	1242	1279	1	-21.3	0.7246828	0.6677749	16	0	0
NM_012412	H2AFV	1372	1409	1	-21.3	0.7246828	0.6677749	16	0	0
NM_033224	PURB	5553	5573	1	-21.7	2.5398069	2.8617741	20	1	0
NM_021116	ADCY1	5249	5266	1	-18.6	-0.34456	-0.443618	17	0	1
NM_001100159	C7orf57	1264	1310	1	-18.9	0.8137998	-0.43427	16	0	0
NM_001267866	C7orf57	1048	1094	1	-18.9	0.8137998	-0.43427	16	0	0
XM_011515121	C7orf57	1168	1214	1	-18.9	0	0	16	0	0
NM_022116	FIGNL1	7302	7332	1	-20.8	0.543465	-0.020265	30	0	0
XM_011515316	GRB10	4234	4250	1	-17.2	0	0	16	0	0
XM_017012067	GRB10	4294	4310	1	-17.2	0	0	16	0	0
XM_017012045	GRB10	3896	3912	1	-17.2	0	0	16	0	0
NM_138270	ATRX	8490	8508	1	-19.9	0	0	18	0	0
NM_000489	ATRX	8604	8622	1	-19.9	0	0	18	0	0
NM_144657	HDX	3391	3452	1	-20	0	0	14	1	1
NM_001177478	HDX	3353	3414	1	-20	0	0	14	1	1
NM_001177479	HDX	3500	3561	1	-20	0	0	14	1	1

NM_001167970	TRMT2B	2795	2821	1	-20.5	0	0	14	0	0
NM_001167972	TRMT2B	2738	2764	1	-20.5	0	0	14	0	0
XM_005262214	ZMAT1	3147	3168	1	-17.9	0	0	16	0	0
NM_001011657	ZMAT1	3199	3220	1	-17.9	0	0	16	0	0
NM_207318	FAM199X	6818	6831	1	-20.2	0	0	13	0	0
NM_152423	MUM1L1	3003	3025	1	-18.8	0	0	22	0	0
NM_001171020	MUM1L1	2867	2889	1	-18.8	0	0	22	0	0
XM_005262077	MUM1L1	2784	2806	1	-18.8	0	0	22	0	0
NM_017681	NUP62CL	824	843	1	-19.5	0	0	19	0	0
NM_012216	MID2	6380	6395	1	-18.9	0	0	15	0	0
NM_052817	MID2	6290	6305	1	-18.9	0	0	15	0	0
NM_014289	CAPN6	3045	3068	1	-22.4	0	0	23	1	1
NM_006777	ZBTB33	2919	2935	1	-18.2	0	0	16	0	0
NM_001184742	ZBTB33	3018	3034	1	-18.2	0	0	16	0	0
NM_014060	MCTS1	3882	3897	1	-19	0	0	15	0	0
NM_001137554	MCTS1	3694	3709	1	-19	0	0	15	0	0
NM_001256743	GRIA3	823	837	1	-16.7	0	0	14	0	0
NM_001204401	XIAP	7511	7529	1	-18.2	0	0	18	1	1
NM_001167	XIAP	7544	7562	1	-18.2	0	0	18	1	1
NM_014253	TENM1	8870	8887	1	-20	0	0	17	1	1
NM_001163278	TENM1	8891	8908	1	-20	0	0	17	1	1
XM_006724779	BCORL1	7460	7503	1	-23.6	0	0	20	0	0
NM_021946	BCORL1	6951	6994	1	-23.6	0	0	20	0	0
NM_000331	SAA1	615	632	1	-18.3	-0.362456	0.4816415	17	0	0
NM_001178006	SAA1	529	546	1	-18.3	-0.362456	0.4816415	17	0	0
NM_153347	TMEM86A	2658	2679	1	-22.3	0.337	-0.0304	21	0	0
NM_001288713	NELL1	3154	3173	1	-19.5	1.0573666	1.719335	19	0	0
NM_006157	NELL1	3070	3089	1	-19.5	1.0986108	0.8717685	19	0	0
NM_201551	NELL1	2929	2948	1	-19.5	1.0573666	1.719335	19	0	0
NM_001288714	NELL1	2899	2918	1	-19.5	1.0573666	1.719335	19	0	0
NM_001009909	LUZP2	2233	2250	1	-18.3	0.1158745	-0.313221	17	0	0
NM_001252008	LUZP2	2229	2246	1	-18.3	0.1158745	-0.313221	17	0	0
NM_002901	RCN1	2101	2116	1	-17.5	0.494488	0.2807675	15	1	1
XM_011520207	TCP11L1	2890	2910	1	-24.3	0	0	20	0	1
NM_012194	KIAA1549L	6836	6875	1	-25.2	2.4072869	2.8938231	17	0	0
XM_017017484	KIAA1549L	6854	6893	1	-25.2	0	0	17	0	0
NM_000611	CD59	2731	2758	1	-18.4	0.2828042	-0.056217	27	0	0
NM_203331	CD59	6336	6350	1	-20.2	-0.219575	0.1194869	14	0	0
NM_203329	CD59	6407	6421	1	-20.2	-0.572572	0.0923932	14	0	0
NM_203330	CD59	6452	6466	1	-20.2	-0.423941	-0.157646	14	0	0
NM_001127226	CD59	6285	6299	1	-20.2	-0.182418	-0.167709	14	0	0
NM_001127225	CD59	6350	6364	1	-20.2	-0.467292	0.0397531	14	0	0
NM_001127223	CD59	6457	6471	1	-20.2	0.2077364	-0.212608	14	0	0
NM_001195728	SLC1A2	8677	8700	1	-21.9	0.5486011	0.1215625	23	0	0
NM_001252652	SLC1A2	8742	8765	1	-21.9	-0.200064	0.0796372	23	0	0
XM_011520285	SLC1A2	8553	8576	1	-21.9	0	0	23	0	0
XM_011520285	SLC1A2	5475	5496	1	-21.9	0	0	21	0	0
XM_017018137	SLC1A2	8556	8579	1	-21.9	0	0	23	0	0
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XM_017018138	SLC1A2	8540	8563	1	-21.9	0	0	23	0	0
XM_017018138	SLC1A2	5462	5483	1	-21.9	0	0	21	0	0
NM_004171	SLC1A2	9039	9062	1	-21.9	0.1233594	0.0094127	23	0	0

NM_004171	SLC1A2	5961	5982	1	-21.9	-0.048865	-0.081646	21	0	0
XM_017018139	SLC1A2	8581	8604	1	-21.9	0	0	23	0	0
XM_017018139	SLC1A2	5503	5524	1	-21.9	0	0	21	0	0
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XM_005253067	SLC1A2	8516	8539	1	-21.9	0	0	23	0	0
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NM_145803	TRAF6	3597	3614	1	-19	0.1792201	-0.020855	17	0	0
XM_017018076	LRRC4C	####	10633	1	-19.7	0	0	18	0	0
XM_017018074	LRRC4C	####	10665	1	-19.7	0	0	18	0	0
NM_018259	TTC17	4154	4171	1	-17.5	1.1345406	1.6373256	17	0	0
NM_001127457	CRY2	2425	2444	1	-18.6	-0.605444	-0.565289	19	0	0
NM_021117	CRY2	2561	2580	1	-18.6	-1.237452	-0.145015	19	0	0
NM_001172640	CELF1	2882	2901	1	-19	7.1879218	6.5159063	19	1	1
NM_024783	AGBL2	3363	3395	1	-17.1	0	0	15	0	0
NM_015297	PHF24	1847	1867	1	-20.7	-0.345697	0.1547379	20	0	0
NM_032818	ARHGEF39	3540	3563	1	-17.4	1.8683851	2.189941	23	0	0
NM_001012446	FAM221B	2039	2054	1	-18.1	0.8637259	0.7524246	15	0	0
NM_194330	RNF38	1892	1912	1	-20.7	1.8079714	1.2721541	20	1	1
NM_194332	RNF38	2011	2031	1	-20.7	0.7510844	0.9305093	20	1	1
NM_194328	RNF38	2161	2181	1	-20.7	1.6359184	0.6736616	20	1	1
NM_194329	RNF38	1844	1864	1	-20.7	0.7265054	1.250033	20	1	1
NM_022781	RNF38	1994	2014	1	-20.7	0.8616898	1.0103904	20	1	1
NM_001280551	PAX5	1784	1803	1	-21.9	-0.406355	-0.202479	19	0	0
NM_001280556	PAX5	1973	1992	1	-21.9	0.0523076	-0.138496	19	0	0
NM_001280555	PAX5	1839	1858	1	-21.9	-0.011906	-0.111664	19	0	0
NM_001280554	PAX5	2010	2029	1	-21.9	-0.140331	0.1381375	19	0	0
NM_001280550	PAX5	1820	1839	1	-21.9	-0.277929	-0.111664	19	0	0
NM_001280549	PAX5	1907	1926	1	-21.9	-0.516433	0.0039184	19	0	0
NM_001280547	PAX5	2037	2056	1	-21.9	0.4742761	-0.128487	19	0	0
NM_001280548	PAX5	2052	2071	1	-21.9	-0.015648	-0.08396	19	0	0
XM_011518782	PGM5	2146	2170	1	-23.4	0	0	24	0	0
NM_152573	RASEF	2493	2509	1	-19.9	0.254693	0.0028269	16	0	0
NM_001142287	SEMA4D	3802	3844	1	-19.3	-0.968245	0.0164133	16	0	0
NM_006705	GADD45G	988	1003	1	-17	0.3838009	0.7326784	15	0	0
NM_178324	SPTLC1	624	640	1	-18.8	2.65599	3.4349437	16	0	0
NM_001083536	FGD3	3027	3042	1	-18	-0.404323	-0.470454	15	0	0
NM_001286993	FGD3	3006	3021	1	-18	-0.089362	-0.590592	15	0	0
NM_033086	FGD3	2927	2942	1	-18	-0.089362	-0.590592	15	0	0
NM_001286990	SLC35D2	901	942	1	-19.4	3.7507459	3.2001004	16	0	0
NM_007001	SLC35D2	1165	1206	1	-19.4	3.7507459	3.2001004	16	0	0
NM_001045477	NUTM2G	2998	3030	1	-20.6	0.0874767	-0.016414	32	0	0
NM_005206	CRK	2528	2544	1	-17.1	1.3096927	1.0868682	16	1	0
NM_016532	INPP5K	2509	2555	1	-25.6	2.4893568	1.4261766	21	0	0
NM_001114118	NCBP3	3750	3782	1	-22	-0.279714	-0.116172	22	1	0
NM_001124758	SPNS2	2589	2612	1	-21.3	-0.430382	-0.456529	18	0	0
NM_198501	SMTNL2	1223	1238	1	-18.3	0.2937234	0.274254	15	0	0
NM_004311	ARL3	1776	1790	1	-17.4	0.3192415	0.5892296	14	0	0
NM_017649	CNNM2	3484	3501	1	-18.4	1.261323	0.8159785	17	1	0
NM_199076	CNNM2	3418	3435	1	-18.4	1.261323	0.8159785	17	1	0
NM_014631	SH3PXD2A	8709	8746	1	-23.9	0.5345791	1.5714821	17	1	1
NM_014631	SH3PXD2A	3899	3917	1	-21.3	2.6874379	1.8437341	18	1	1

NM_024928	STN1	2105	2121	1	-20	0.1142596	-0.197228	16	0	0
NM_145247	SFR1	900	942	1	-19.8	0.0391685	0.2480786	20	0	0
NM_001002759	SFR1	829	871	1	-19.8	0.0391685	0.2480786	20	0	0
NM_007373	SHOC2	2723	2736	1	-16.9	3.4376927	1.5363148	13	0	0
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NM_033340	CASP7	2054	2072	1	-18.4	-0.335696	0.2063198	18	1	1
NM_033338	CASP7	2317	2335	1	-18.4	0.5003355	0.3642936	18	1	1
NM_033339	CASP7	2284	2302	1	-18.4	0.5003355	0.3642936	18	1	1
NM_001227	CASP7	2210	2228	1	-18.4	0.5003355	0.3642936	18	1	1
NM_005264	GFRA1	7390	7404	1	-17.7	2.7437003	1.899508	14	0	0
NM_145793	GFRA1	6924	6938	1	-17.7	0.6876222	0.9718337	14	0	0
NM_015892	CHST15	3607	3623	1	-18.6	3.9238636	2.8720898	16	1	1
NM_001083914	CTBP2	2158	2178	1	-18.5	0.0351425	0.3904927	20	0	0
NM_001329	CTBP2	2146	2166	1	-18.5	0.6510942	0.334698	20	0	0
NM_001290214	CTBP2	2143	2163	1	-18.5	0.38083	0.3288322	20	0	0
NM_152311	CLRN3	1025	1061	1	-22.6	-0.290264	0.4558522	26	0	0
NM_174937	TCERG1L	2251	2270	1	-17.6	0.813087	0.1235005	19	0	0
NM_024504	PRDM14	2298	2334	1	-23	0	0	30	0	0
NM_006823	PKIA	3580	3596	1	-18.5	-0.216348	0.1149099	16	1	1
XM_017013622	PKIA	2157	2178	1	-21.5	0	0	21	1	1
XM_011541489	ANKRD65	3065	3085	1	-19.1	0	0	20	0	0
NM_001243536	ANKRD65	1515	1535	1	-19.1	0	0	20	0	0
NM_001243535	ANKRD65	1534	1554	1	-19.1	0	0	20	0	0
NM_014851	KLHL21	2684	2707	1	-23.4	0.1210634	1.4317336	23	0	0
NM_213566	DFFA	1637	1659	1	-21	0.0444393	-0.185483	16	0	0
NM_007375	TARDBP	2502	2540	1	-18.9	4.0352838	3.9874593	15	1	1
NM_001014765	FBXO44	2742	2766	1	-22.5	0.321283	0.0327606	24	0	0
NM_001304790	FBXO44	2275	2299	1	-22.5	0.321283	0.0327606	24	0	0
NM_001330355	FBXO44	2341	2365	1	-22.5	0.321283	0.0327606	24	0	0
NM_183413	FBXO44	2245	2269	1	-22.5	0.321283	0.0327606	24	0	0
NM_002521	NPPB	509	522	1	-18.5	0.2077732	0.3919098	13	0	0
XM_005245795	KAZN	4709	4730	1	-24.5	0	0	21	0	0
XM_005245795	KAZN	5487	5509	1	-23.2	0	0	22	0	0
NM_032996	CASP9	2385	2403	1	-17.3	0.075559	0.16941	18	0	0
NM_001287811	DNAJC16	4774	4796	1	-19	0.1283355	-0.001099	17	0	0
NM_020225	STOX2	4860	4878	1	-20.6	1.5342889	1.5712685	18	1	0
NM_020225	STOX2	8563	8590	1	-20.5	0.4678586	0.4980873	15	1	0
NM_032991	CASP3	1744	1758	1	-17.5	2.6606609	3.839625	14	0	0
NM_004346	CASP3	1911	1925	1	-17.5	3.6026187	2.7665561	14	0	0
XM_024454240	SNX25	3503	3514	1	-17.5	0	0	11	0	1
NM_014476	PDLIM3	2204	2229	1	-22.9	4.7619728	3.7715735	25	0	0
NM_021069	SORBS2	5363	5381	1	-19	3.5399497	2.8124398	18	0	0
NM_001270771	SORBS2	4797	4844	1	-20.8	4.7305368	4.2723934	17	0	0
NM_003603	SORBS2	3190	3237	1	-20.8	2.8679839	3.5775379	17	0	0
NM_003603	SORBS2	3976	3994	1	-19	3.0868354	3.1141478	18	0	0
NM_001145670	SORBS2	3162	3209	1	-20.8	2.9463954	3.8584687	17	0	0
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NM_001145671	SORBS2	3737	3755	1	-19	2.8770338	3.5814847	18	0	0
NM_001145671	SORBS2	2906	2919	1	-17.6	2.965425	3.3652514	13	0	0
NM_001145672	SORBS2	2589	2636	1	-20.8	4.5096211	5.1327722	17	0	0
NM_001145673	SORBS2	4261	4279	1	-19	1.7470283	2.6003034	18	0	0
NM_001145674	SORBS2	3762	3809	1	-20.8	1.4284576	2.3022815	17	0	0

NM_001145674	SORBS2	4548	4566	1	-19	3.9809489	3.438511	18	0	0
XM_005263312	SORBS2	3224	3271	1	-20.8	0	0	17	0	0
NM_001258388	FAM173B	2417	2441	1	-21.4	5.0458538	3.0251589	24	0	0
NM_199133	FAM173B	2468	2492	1	-21.4	5.0458538	3.0251589	24	0	0
NM_138809	CMBL	2676	2697	1	-25.7	-0.211182	0.1065598	21	0	0
NM_001164440	ANKRD33B	3079	3098	1	-21	0.3491585	-0.400007	19	0	1
NM_001164440	ANKRD33B	3609	3628	1	-19.6	-0.0644	-0.166728	19	0	1
NM_001167667	CDH18	2264	2318	1	-22.1	3.2849513	3.8633062	20	0	0
NM_001291957	CDH18	2245	2299	1	-22.1	2.7078345	3.2826846	20	0	0
XM_011513930	CDH18	2246	2300	1	-22.1	0	0	20	0	0
NM_001204376	NPR3	5912	5928	1	-20	0.928473	0.3671939	16	1	1
XM_017009748	AGXT2	1758	1778	1	-22.9	0	0	20	0	0
NM_001306173	AGXT2	1728	1748	1	-22.9	0	0	20	0	0
NM_031900	AGXT2	2224	2244	1	-22.9	0	0	20	0	0
XM_011513958	UGT3A1	1878	1899	1	-20	0	0	21	0	0
NM_001171873	UGT3A1	2686	2733	1	-20.5	-0.411777	0.0064755	20	0	0
NM_003999	OSMR	4340	4364	1	-18.6	0.1300083	-0.027355	24	0	0
NM_001134848	CCDC152	1919	1934	1	-17.5	2.2513407	3.3276224	15	0	0
NM_001178055	PARP8	6293	6310	1	-18.9	-0.014848	-0.007557	17	0	0
NM_024615	PARP8	6269	6286	1	-18.9	0.3725039	0.1446496	17	0	0
NM_001178056	PARP8	6143	6160	1	-18.9	0.3725039	0.1446496	17	0	0
XM_017009851	PARP8	6169	6186	1	-18.9	0	0	17	0	0
NM_001331028	PARP8	6076	6093	1	-18.9	1.4889901	0.7379822	17	0	0
NM_015946	PELO	2735	2753	1	-19.9	0.2212084	0.0128359	18	0	0
NM_052870	SNX18	2869	2884	1	-18.6	-0.42366	-0.26327	15	0	0
NM_004473	FOX E1	3240	3260	1	-18.4	0.1388278	0.4057188	20	0	0
NM_001855	COL15A1	4743	4763	1	-23.9	0.571474	0.88529	20	0	0
NM_017919	STX17	1279	1320	1	-22.6	1.147448	0.4084138	17	1	1
XM_011518821	STX17	1610	1651	1	-22.6	0	0	17	1	1
NM_001127610	BAAT	2713	2732	1	-18	0.2634141	0.8929544	16	0	0
NM_018376	NIPSNAP3B	4962	5011	1	-22.4	-0.091604	-0.00455	18	0	0
XM_011518839	NIPSNAP3B	4812	4861	1	-22.4	0	0	18	0	0
NM_001079802	FKTN	4951	4969	1	-23.1	0.250417	0.01947	18	0	0
NM_006731	FKTN	4859	4877	1	-23.1	0.250417	0.01947	18	0	0
NM_017832	FAM206A	1210	1223	1	-19.4	-0.140134	0.039979	13	0	0
NM_014334	FRRS1L	1755	1771	1	-21.2	-0.200933	-0.020783	16	0	0
NM_002829	PTPN3	5839	5857	1	-20.1	5.0134405	3.5524068	18	0	0
NM_053016	PALM2	4448	4469	1	-23.8	0.4554413	0.4261656	21	0	0
NM_145241	WDR31	1922	1938	1	-18.5	-0.725011	-0.130693	16	1	0
NM_001012361	WDR31	1925	1941	1	-18.5	-0.40036	-0.150029	16	1	0
NM_001270427	PSMD5	2817	2863	1	-23.5	3.519993	3.5486418	16	0	0
NM_005047	PSMD5	2946	2992	1	-23.5	3.519993	3.4060316	16	0	0
NM_016322	RAB14	2311	2348	1	-21.2	2.5877948	2.3782366	26	0	0
NM_016322	RAB14	1961	1974	1	-17	1.5737545	0.7597683	13	0	0
XM_005251719	DAB2IP	4257	4276	1	-22	0	0	19	1	0
XM_024447417	DAB2IP	4266	4285	1	-22	0	0	19	1	0
NM_001354486	RC3H2	2915	2954	1	-22.4	3.0780046	4.5051432	20	0	0
NM_020946	DENND1A	4907	4923	1	-20.1	2.0658629	1.3467145	16	0	0
NM_001144877	SCAI	6922	6940	1	-20.5	-0.24548	-0.218752	18	1	0
NM_001099270	ZBTB34	5094	5138	1	-19.4	1.3560194	2.3113489	16	1	1
XM_017026467	ERCC2	3787	3822	1	-19.4	0	0	15	0	0
NM_001103149	PNMA8A	2936	2954	1	-19	1.0277832	0.9723654	18	1	1

NM_018215	PNMA8A	3141	3159	1	-19	1.1299079	0.9881347	18	1	1
NM_020709	PNMA8B	3695	3712	1	-23.7	0.0565263	0.1264396	17	0	0
NM_145056	DACT3	2568	2598	1	-18.7	2.2615558	2.0302782	16	0	0
NM_021575	AP2S1	685	724	1	-19.4	0.3844706	0.8811238	14	0	0
NM_004069	AP2S1	799	838	1	-19.4	0.3844706	0.8811238	14	0	0
NM_001301078	AP2S1	841	880	1	-19.4	0.3844706	0.8811238	14	0	0
NM_004491	ARHGAP35	5155	5173	1	-19.9	-0.123864	-0.157389	18	0	0
NM_001184900	CARD8	2762	2786	1	-24.2	0.1845491	0.0077887	19	0	1
NM_001351782	CARD8	3069	3093	1	-24.2	-0.373463	-0.042607	19	0	1
NM_001184901	CARD8	2346	2370	1	-24.2	0.1040945	0.1035314	19	0	1
NM_001184903	CARD8	2354	2378	1	-24.2	-0.240255	0.1187375	19	0	1
XM_006723097	CARD8	2783	2807	1	-24.2	0	0	19	0	1
XM_006723096	CARD8	3000	3024	1	-24.2	0	0	19	0	1
NM_001348178	KLK13	1196	1216	1	-20.1	1.0993683	1.2266895	20	0	0
NM_001348177	KLK13	1433	1453	1	-20.1	0.8267555	1.0035046	20	0	0
NM_015596	KLK13	1652	1672	1	-20.1	0.8267555	1.0035046	20	0	0
NM_001318824	GATD1	1712	1734	1	-21	-0.103913	-0.130706	16	0	0
NM_182612	GATD1	1820	1842	1	-21	0.2122286	-0.262379	16	0	0
NM_001170820	IFITM10	3390	3405	1	-19.4	1.6814129	1.3061711	15	0	0
XM_017018206	TNNT3	1027	1043	1	-17.9	0	0	16	0	0
NM_001297646	TNNT3	1399	1415	1	-17.9	0	0	16	0	0
NM_001042781	TNNT3	1159	1175	1	-17.9	0	0	16	0	0
NM_006757	TNNT3	1165	1181	1	-17.9	0	0	16	0	0
NM_001042780	TNNT3	1141	1157	1	-17.9	0	0	16	0	0
NM_001042782	TNNT3	1141	1157	1	-17.9	0	0	16	0	0
XM_006718300	TNNT3	1032	1048	1	-17.9	0	0	16	0	0
XM_017018219	TNNT3	1014	1030	1	-17.9	0	0	16	0	0
XM_017018214	TNNT3	931	947	1	-17.9	0	0	16	0	0
XM_011519822	TSPAN32	1013	1053	1	-22.6	0	0	19	0	0
XM_011519818	TSPAN32	992	1032	1	-22.6	0	0	19	0	0
NM_003141	TRIM21	1706	1725	1	-18.1	4.0620604	1.4918026	19	0	0
NM_145053	UBQLNL	2223	2260	1	-17.9	2.0107391	0.5707058	37	0	0
NM_001242856	ARFIP2	1330	1344	1	-19.9	0.1105321	0.195971	14	0	0
NM_001242855	ARFIP2	1449	1463	1	-19.9	0.6492534	1.2965378	14	0	0
NM_012402	ARFIP2	1550	1564	1	-19.9	0.8733495	0.7858297	14	0	0
NM_001242854	ARFIP2	1689	1703	1	-19.9	0.0097573	0.3737102	14	0	0
NM_175733	SYT9	3603	3619	1	-22.5	0.1387561	0.5249949	16	0	0
NM_016229	CYB5R2	1311	1327	1	-18.4	0	0	16	0	0
XM_024448582	CYB5R2	1163	1179	1	-18.4	0	0	16	0	0
NM_003320	TUB	4147	4169	1	-22.8	-0.223877	0.2337712	22	0	0
NM_177972	TUB	3890	3912	1	-22.8	-0.223877	0.2337712	22	0	0
NM_001289059	STK33	1627	1638	1	-16.5	3.8486296	3.4827716	11	0	0
NM_001286095	TMEM9B	1010	1030	1	-20.7	1.0691114	0.9797663	20	0	0
NM_018222	PARVA	5943	5963	1	-21.9	0.6264229	-0.145756	20	0	0
NM_001018072	BTBD11	4288	4305	1	-17.6	4.573315	1.2862527	17	0	0
NM_001347943	BTBD11	3931	3948	1	-17.6	4.573315	1.2862527	17	0	0
NM_001017523	BTBD11	2428	2445	1	-17.6	3.8452836	1.3675496	17	0	0
NM_001142344	CMKLR1	4014	4029	1	-20.7	2.8466506	2.9050885	15	0	0
NM_004072	CMKLR1	4151	4166	1	-20.7	2.9865029	3.6620292	15	0	0
NM_001142343	CMKLR1	4227	4242	1	-20.7	3.086394	2.5921737	15	0	0
NM_001142345	CMKLR1	3841	3856	1	-20.7	1.1684463	1.2426177	15	0	0
NM_181724	TMEM119	1395	1428	1	-22.6	-0.45846	-0.399854	19	0	0

NM_130466	UBE3B	3861	3892	1	-22.6	-0.605716	-0.235796	20	0	0
NM_183415	UBE3B	3516	3547	1	-22.6	-0.605716	-0.235796	20	0	0
XM_005253944	BRAP	2116	2132	1	-18	0	0	16	0	0
NM_001330437	PTPN11	2117	2137	1	-18.6	0.4661271	1.210762	20	1	1
NM_002834	PTPN11	2105	2125	1	-18.6	0.4661271	1.210762	20	1	1
XM_011538490	TPCN1	4998	5045	1	-20.9	0	0	16	0	0
NM_001143819	TPCN1	5032	5079	1	-20.9	-0.194973	-0.102521	16	0	0
NM_017901	TPCN1	4939	4986	1	-20.9	-0.194973	-0.102521	16	0	0
NM_001301214	TPCN1	4614	4661	1	-20.9	-0.300297	-0.190292	16	0	0
NM_024738	C12orf49	5099	5118	1	-21.4	0.1979721	-0.288327	19	1	0
NM_024738	C12orf49	934	951	1	-19.7	-0.220902	0.0646451	17	1	0
NM_003806	HRK	746	760	1	-17.6	0.4856409	-0.436231	14	0	0
NM_001278557	WSB2	1415	1462	1	-24.6	0.3615752	0.4500173	16	0	0
NM_001278558	WSB2	1138	1185	1	-24.6	0.0410907	-0.096348	16	0	0
NM_019086	VSIG10	3747	3770	1	-19.2	1.9242201	1.8204359	23	0	0
NM_002567	PEBP1	986	1002	1	-18.4	0.1321444	-0.173665	16	0	0
NM_194286	SRRM4	5540	5583	1	-29.1	0.0235716	0.090846	17	1	0
NM_001167606	RAB35	1850	1869	1	-21.7	4.770768	2.1489029	19	1	0
NM_198202	POP5	537	573	1	-20	3.3478081	2.5994955	16	0	0
NM_015918	POP5	683	719	1	-20	2.6377568	3.2082813	16	0	0
NM_014730	MLEC	1675	1689	1	-22.2	1.839413	0.848342	14	0	0
NM_014730	MLEC	5816	5835	1	-20.5	3.3390422	0.6172947	19	0	0
NM_001303628	MLEC	1440	1454	1	-22.2	1.839413	0.848342	14	0	0
NM_001303628	MLEC	5581	5600	1	-20.5	3.3390422	0.6172947	19	0	0
NM_001080533	UNC119B	1445	1477	1	-18.8	0.9926583	-0.340374	12	0	0
NM_139015	SPPL3	4054	4069	1	-20.1	1.0994075	0.9661694	15	0	0
NM_014938	MLXIP	5452	5471	1	-19.6	-0.126654	-0.032421	19	0	0
XM_006719294	MLXIP	4610	4629	1	-19.6	0	0	19	0	0
NM_001204299	ZNF664- RFLNA	1260	1301	1	-20.4	-0.187469	-0.560565	16	0	0
NM_015347	RIMBP2	4919	4937	1	-18.6	5.5663901	4.0063366	18	0	0
NM_182633	ZNF713	2896	2922	1	-22.1	0.50558	0.3601907	26	0	0
NM_001013746	ZNF107	3632	3651	1	-19.8	0.0419116	-0.761622	19	0	1
NM_001282359	ZNF107	3472	3491	1	-19.8	-1.202384	-0.65888	19	0	1
NM_001282360	ZNF107	3376	3395	1	-19.8	-1.202384	-0.65888	19	0	1
XM_017012286	ZNF107	3494	3513	1	-19.8	0	0	19	0	1
NM_001348050	ERV3-1- ZNF117	3067	3086	1	-19.8	-0.604474	-1.065131	19	0	0
NM_015852	ZNF117	3951	3970	1	-19.8	-0.714935	-0.960877	19	0	1
NM_014478	CRCP	697	712	1	-20.2	0.6799389	0.1407616	15	0	0
NM_001040647	CRCP	598	613	1	-20.2	0.3146246	0.2564448	15	0	0
NM_001040648	CRCP	466	481	1	-20.2	0.3146246	0.2564448	15	0	0
NM_001142414	CRCP	542	557	1	-20.2	0.3146246	0.2564448	15	0	0
NM_001135211	FKBP6	1361	1378	1	-18.1	0.9244017	0.387566	17	0	0
NM_003602	FKBP6	1452	1469	1	-18.1	0.1211072	0.3738512	17	0	0
NM_001281304	FKBP6	1362	1379	1	-18.1	0.1211072	0.3738512	17	0	0
NM_001243198	HIP1	3553	3572	1	-20.7	0.0925131	0.1407892	19	0	0
NM_005338	HIP1	3706	3725	1	-20.7	0.8795725	0.1912387	19	0	0
XM_005250304	HIP1	3707	3726	1	-20.7	0	0	19	0	0
NM_031925	TMEM120A	1226	1270	1	-19.1	2.4424328	2.1944098	44	0	0
NM_152992	POMZP3	1201	1223	1	-17.7	0.084015	0.3698636	14	0	0
NM_012230	POMZP3	1431	1453	1	-17.7	0.0428654	0.5962553	14	0	0

NM_033026	PCLO	####	15966	1	-18.9	3.7594181	2.7397446	20	1	1
NM_001142327	DMTF1	3112	3161	1	-19.1	0.2585859	0.8613643	18	0	0
NM_001142326	DMTF1	2995	3044	1	-19.1	0.2585859	0.8613643	18	0	0
NM_021145	DMTF1	3349	3398	1	-19.1	0.2585859	0.8613643	18	0	0
NM_021723	ADAM22	9209	9228	1	-19	1.7857779	2.1840144	19	0	0
NM_021722	ADAM22	9188	9207	1	-19	1.7857779	2.1840144	19	0	0
NM_016351	ADAM22	9101	9120	1	-19	1.7857779	2.1840144	19	0	0
NM_019004	ANKIB1	4136	4153	1	-18.5	0.7908743	1.43119	17	0	1
NM_001259	CDK6	4490	4511	1	-22.5	-0.196133	-0.037496	21	0	0
NM_001742	CALCR	3320	3351	1	-22.5	0.440874	0.4065667	24	1	1
NM_001164737	CALCR	3439	3470	1	-22.5	0.1952478	0.176251	24	1	1
NM_001172438	PEG10	4968	5002	1	-21	1.3703998	0.2941995	14	0	0
NM_001172438	PEG10	5147	5162	1	-18.9	1.3050431	0.9858863	15	0	0
NM_001184962	PEG10	4957	4991	1	-21	1.3703998	0.2941995	14	0	0
NM_001184962	PEG10	5136	5151	1	-18.9	1.3050431	0.9858863	15	0	0
NM_001040152	PEG10	4957	4991	1	-21	1.3703998	0.2941995	14	0	0
NM_001040152	PEG10	5136	5151	1	-18.9	1.3050431	0.9858863	15	0	0
NM_001159491	BRI3	461	481	1	-15.8	0.4496349	-0.388565	14	0	0
NM_024989	PGAP1	9178	9195	1	-21.1	2.9360448	2.692338	17	0	0
NM_001160125	KLF6	1549	1572	1	-18.3	1.0392862	1.2149338	23	0	0
NM_001300	KLF6	2433	2458	1	-21	1.3467951	2.4660732	16	0	0
NM_017422	CALML5	644	676	1	-21.7	1.4316445	1.2662221	23	0	0
XM_024447775	CELF2	8446	8459	1	-18.7	0	0	13	1	1
NM_001025077	CELF2	8069	8082	1	-18.7	0.3164724	0.2847234	13	1	1
NM_006561	CELF2	6818	6831	1	-18.7	-0.083329	0.2212256	13	1	1
NM_001083591	CELF2	6866	6879	1	-18.7	-0.083329	0.2212256	13	1	1
NM_001025076	CELF2	6872	6885	1	-18.7	-0.083329	0.2212256	13	1	1
NM_153256	PROSER2	2777	2796	1	-19.8	1.1098466	0.9309948	19	0	0
NM_001001484	PTER	2999	3013	1	-17.8	1.1464031	0.847524	14	0	0
NM_001261836	PTER	2865	2879	1	-17.8	1.1464031	0.847524	14	0	0
NM_001261838	PTER	2385	2399	1	-17.8	1.1464031	0.847524	14	0	0
XM_017016930	PTER	2694	2708	1	-17.8	0	0	14	0	0
NM_001081	CUBN	####	11520	1	-19.6	1.543849	2.3842032	24	0	0
NM_213569	NEBL	6114	6129	1	-16.9	3.5605087	3.3349342	15	0	0
NM_006393	NEBL	8389	8404	1	-16.9	3.7963933	2.8027269	15	0	0
NM_153714	C10orf67	657	704	1	-24.5	0.0776091	0.0889972	19	0	0
NM_001145373	OTUD1	2401	2419	1	-19	0.6107636	1.1528484	16	0	0
NM_001282786	PRTFDC1	1303	1323	1	-19.2	4.2054883	2.6041925	20	0	1
NM_020200	PRTFDC1	1380	1400	1	-19.2	4.2054883	2.798896	20	0	1
NM_173496	MPP7	4791	4806	1	-19	3.5007576	1.9818839	15	0	0
NM_016628	WAC	4594	4611	1	-17.5	0.2133664	0.3793093	17	1	0
NM_100486	WAC	4285	4302	1	-17.5	0.2133664	0.3793093	17	1	0
NM_020848	JCAD	6214	6231	1	-20.5	0.0797261	-0.182817	17	1	1
NM_001330068	NRP1	3956	3972	1	-19.5	4.3707449	4.4758508	16	0	0
NM_003873	NRP1	4007	4023	1	-19.5	4.6402494	4.595511	16	0	0
NM_000080	CHRNE	1609	1651	1	-22.2	2.318172	3.8156344	15	0	0
XM_011543527	RASA1	3214	3262	1	-19.8	0	0	17	0	0
NM_017931	TTC38	1758	1774	1	-17.7	0	0	16	0	1
NM_022766	CERK	2420	2437	1	-21.5	0	0	17	0	0
NM_022766	CERK	3061	3078	1	-19.9	0	0	17	0	0
NM_022766	CERK	3464	3480	1	-19.5	0	0	16	0	0
NM_001135101	CRELD2	1381	1404	1	-22.2	0	0	23	0	0

NM_024324	CRELD2	1234	1257	1	-22.2	0	0	23	0	0
NM_001284318	CRELD2	1138	1161	1	-22.2	0	0	23	0	0
NM_001284317	CRELD2	1150	1173	1	-22.2	0	0	23	0	0
XM_017029787	XG	2402	2423	1	-19.4	0	0	21	0	0
NM_001141919	XG	1493	1514	1	-19.4	0	0	21	0	0
NM_175569	XG	1448	1469	1	-19.4	0	0	21	0	0
NM_001001994	GPM6B	2972	2990	1	-19.1	0	0	18	0	0
NM_005278	GPM6B	3170	3188	1	-19.1	0	0	18	0	0
NM_001001995	GPM6B	1696	1714	1	-19.1	0	0	18	0	0
NM_001001996	GPM6B	3290	3308	1	-19.1	0	0	18	0	0
NM_018360	TXLNG	2697	2717	1	-22.6	0	0	20	1	1
NM_001168683	TXLNG	2301	2321	1	-22.6	0	0	20	1	1
NM_015884	MBTPS2	3821	3837	1	-21.6	0	0	16	0	0
NM_000444	PHEx	4535	4551	1	-19	0	0	16	0	0
NM_001142386	PDK3	####	10428	1	-24.4	0	0	30	0	0
NM_144970	CXorf38	3768	3783	1	-19.7	0	0	15	0	0
XM_017029304	CXorf38	4930	4945	1	-19.7	0	0	15	0	0
NM_153207	AEBP2	3327	3361	1	-17.9	1.420799	1.6239958	20	1	0
NM_001114176	AEBP2	2766	2800	1	-17.9	1.420799	1.6239958	20	1	0
NM_134431	SLCO1A2	7484	7502	1	-19.1	0.0458346	-0.178832	15	0	0
XM_011520818	SLCO1A2	6912	6930	1	-19.1	0	0	15	0	0
NM_016072	GOLT1B	2095	2121	1	-22.6	0.7170687	0.5376181	26	0	0
NM_003034	ST8SIA1	3373	3390	1	-19.6	0.0811962	0.2758645	17	1	1
NM_001261414	SOX5	3765	3782	1	-17.9	3.7847925	3.1502249	17	1	0
NM_001178092	BCAT1	2766	2812	1	-17.8	0.0669479	0.0189937	23	0	0
NM_005504	BCAT1	2949	2995	1	-17.8	-0.144603	0.0367164	23	0	0
NM_001001660	ETFRF1	885	919	1	-20.3	0.5220232	0.194591	16	0	0
XM_005253319	ETFRF1	888	922	1	-20.3	0	0	16	0	0
XM_005253320	ETFRF1	992	1026	1	-20.3	0	0	16	0	0
NM_001164748	RASSF8	3508	3523	1	-17.9	1.2283766	0.5100346	15	0	0
XM_017019698	KLHL42	6678	6706	1	-18.6	0	0	15	0	0
NM_020782	KLHL42	6193	6221	1	-18.6	-0.219738	0.4131173	15	0	0
NM_001353179	OVCH1	6590	6606	1	-21	0.5127136	-0.01445	16	0	0
NM_144973	DENND5B	8755	8778	1	-20.7	1.1780096	3.8106636	23	0	0
NM_052885	SLC2A13	3019	3034	1	-17.7	0.5385524	0.4520155	15	0	0
NM_152641	ARID2	7584	7604	1	-24.6	0.1311716	0.1588637	20	0	0
XM_011538025	ARID2	6563	6583	1	-24.6	0	0	20	0	0
NM_001077484	SLC38A1	2888	2902	1	-19.2	0.1679842	-0.033733	14	1	1
NM_001308090	HDAC7	3758	3777	1	-19.3	1.8829169	1.8563974	19	1	1
NM_001098416	HDAC7	3698	3717	1	-19.3	0.7942361	1.076204	19	1	1
NM_015401	HDAC7	3809	3828	1	-19.3	0.7942361	1.076204	19	1	1
NM_001267595	SENPI	2640	2654	1	-18.5	4.2254903	4.0832206	14	0	0
NM_001172681	ZNF641	1533	1549	1	-19.5	-0.195837	-0.033418	16	0	0
NM_020039	ASIC1	2598	2625	1	-21.9	0.0691206	0.7450467	27	0	0
NM_001095	ASIC1	2460	2487	1	-21.9	0.0691206	0.7450467	27	0	0
NM_001256830	ASIC1	2266	2293	1	-21.9	0.3672103	0.7070193	27	0	0
NM_001173453	TFCP2	2643	2658	1	-20.5	2.8946519	4.9924987	15	0	0
NM_002922	RGS1	698	709	1	-18.5	0.487623	0.3159039	11	0	0
NM_001304331	PPFIA4	4343	4363	1	-23.8	0.4283829	0.1432601	20	0	0
XM_011510070	PPFIA4	3909	3927	1	-20.1	0	0	18	0	0
NM_002023	FMOD	2077	2098	1	-21.8	3.0682602	2.9553096	21	0	0
NM_001684	ATP2B4	7724	7748	1	-19.8	0.2378423	-0.164896	24	0	0

NM_017773	LAX1	3151	3173	1	-18.3	0.048445	0.0120825	16	0	0
NM_001136190	LAX1	2880	2902	1	-18.3	0.048445	0.0120825	16	0	0
NM_181644	MFSD4A	2064	2076	1	-18.5	1.1065845	0.2515337	12	0	0
NM_001135662	RAB29	2749	2767	1	-23.4	4.6297204	4.0174476	18	0	0
NM_001135664	RAB29	2596	2614	1	-23.4	4.4297389	3.3989717	18	0	0
NM_003929	RAB29	2850	2868	1	-23.4	4.1114572	3.7171422	18	0	0
NM_001135663	RAB29	2964	2982	1	-23.4	0.0179199	0.0341678	18	0	0
NM_000707	AVPR1B	3407	3422	1	-19.3	1.4885052	0.911471	15	0	0
NM_015326	SRGAP2	4278	4294	1	-20.9	2.070248	0.7211583	16	0	1
NM_001170637	SRGAP2	4275	4291	1	-20.9	2.070248	0.7211583	16	0	1
NM_182663	RASSF5	1412	1431	1	-23.5	0.9820575	0.9621607	19	0	0
NM_182664	RASSF5	1296	1315	1	-23.5	0.9820575	0.9621607	19	0	0
NM_182665	RASSF5	1290	1309	1	-23.5	0.8543282	0.9878294	19	0	0
NM_001083924	C1orf116	3896	3931	1	-22.7	0.9233614	0.2686395	29	0	0
NM_023938	C1orf116	4082	4117	1	-22.7	-0.146687	-0.183401	29	0	0
NM_000573	CR1	8145	8171	1	-19.8	-0.079937	-0.250315	26	0	0
NM_019605	SERTAD4	1894	1929	1	-19.2	0.5778573	0.992286	24	1	0
NM_002238	KCNH1	4452	4475	1	-18.8	0.672617	0.0592207	23	1	1
NM_001136223	RCOR3	2047	2078	1	-18.4	0.4939602	0.961436	16	0	0
NM_001136224	RCOR3	1805	1836	1	-18.4	0.4939602	0.961436	16	0	0
NM_018254	RCOR3	1758	1789	1	-18.4	0.4939602	0.961436	16	0	0
NM_004474	FOXD2	4356	4374	1	-19.9	0.3760317	0.9916812	18	0	0
NM_001286239	SPATA6	4490	4511	1	-20.5	2.7978037	2.8957078	21	0	1
NM_001981	EPS15	2875	2911	1	-21.9	0.8664654	2.3852097	21	1	0
NM_148909	OSBPL9	3828	3849	1	-18.8	0	0	21	0	0
NM_024586	OSBPL9	3798	3819	1	-18.8	0	0	21	0	0
NM_148908	OSBPL9	3759	3780	1	-18.8	0	0	21	0	0
NM_148906	OSBPL9	3747	3768	1	-18.8	0	0	21	0	0
NM_001330580	OSBPL9	3554	3575	1	-18.8	1.0362801	1.3316566	21	0	0
NM_148904	OSBPL9	3515	3536	1	-18.8	1.0362801	1.3316566	21	0	0
NM_148905	OSBPL9	3419	3440	1	-18.8	1.0362801	1.3316566	21	0	0
NM_148907	OSBPL9	3392	3413	1	-18.8	1.0362801	1.3316566	21	0	0
NM_152265	BTF3L4	2617	2647	1	-19.4	0.0888868	-0.071879	22	0	0
NM_003713	PLPP3	1808	1847	1	-22.6	4.7157656	2.9174989	20	0	0
XM_017001363	NFIA	5647	5704	1	-21	0	0	27	1	1
NM_019079	L1TD1	3736	3773	1	-24	-0.136173	-0.158453	22	0	0
NM_015139	SLC35D1	5992	6005	1	-21	0.8941695	1.3726936	13	0	0
XM_024450912	SRSF11	3458	3472	1	-18.6	0	0	14	0	0
NM_198719	PTGER3	2075	2109	1	-18.9	0.7287869	0.3654897	19	0	0
NM_019096	GTPBP2	2140	2163	1	-18.5	5.423691	5.6953208	18	0	0
NM_001286216	GTPBP2	1945	1968	1	-18.5	4.7552825	5.0610439	18	0	0
NM_207499	PTCHD4	1425	1449	1	-25.8	0.0688415	-0.013271	24	0	0
NM_001010904	GLYATL3	1513	1549	1	-19.1	-0.595388	-0.172237	14	0	0
NM_012288	TRAM2	5441	5458	1	-21.8	0.3127411	0.3579638	17	0	0
NM_003643	GCM1	2635	2646	1	-18.7	-0.307825	0.5356046	11	0	0
NM_152731	BEND6	1509	1525	1	-21	0.8464143	1.0400679	16	0	0
NM_133645	MTO1	2819	2842	1	-20.6	0.170793	0.4681569	23	0	0
NM_001123226	MTO1	2864	2887	1	-20.6	0.170793	0.4681569	23	0	0
NM_012123	MTO1	2744	2767	1	-20.6	0.170793	0.4681569	23	0	0
NM_133493	CD109	5426	5449	1	-23.6	0.1252593	-0.005453	17	0	0
NM_001159587	CD109	5375	5398	1	-23.6	-0.34157	-0.065591	17	0	0
NM_001159588	CD109	5195	5218	1	-23.6	-0.34157	-0.065591	17	0	0

NM_001300866	FILIP1	5481	5496	1	-19.2	2.9320099	3.5925737	15	1	1
NM_031469	SH3BGRL2	1294	1322	1	-18.4	0.3505559	0.6422696	28	0	0
NM_001199917	PGM3	5074	5084	1	-15.1	4.5772726	3.3964279	10	0	0
NM_001199918	PGM3	4736	4746	1	-15.1	5.2246238	3.4344912	10	0	0
NM_015599	PGM3	4938	4948	1	-15.1	4.3735106	4.4971584	10	0	0
NM_002526	NT5E	2329	2367	1	-20.7	0.4536938	-0.017807	18	0	0
NM_001204813	NT5E	2179	2217	1	-20.7	0.2822743	0.2301558	18	0	0
NM_030960	SPACA1	1414	1436	1	-18.8	0.0976083	0.1767106	22	0	0
NM_016021	UBE2J1	3213	3231	1	-18.6	1.5478917	2.6408476	18	0	0
NM_021244	RRAGD	2419	2442	1	-18.4	0.3923084	0.0788781	14	0	0
NM_001242809	ANKRD6	4857	4873	1	-20.4	-0.327731	0.0145416	16	0	0
NM_014942	ANKRD6	4842	4858	1	-20.4	0.3639541	-0.073585	16	0	0
NM_001242813	ANKRD6	4752	4768	1	-20.4	0.3639541	-0.073585	16	0	0
NM_001242811	ANKRD6	5240	5256	1	-20.4	0.3639541	-0.073585	16	0	0
NM_001242814	ANKRD6	4457	4479	1	-20.8	0.3576081	-0.047409	17	0	0
XM_005266946	GRIK2	3634	3686	1	-20.5	0	0	21	0	0
NM_025151	RAB11FIP1	3115	3164	1	-18.3	-0.136055	-0.034848	16	0	0
NM_001024381	TM2D2	3075	3092	1	-20.2	0.0097871	0.0795891	17	0	0
NM_078473	TM2D2	2993	3010	1	-20.2	0.1422085	2.2093043	17	0	0
NM_031940	TM2D2	3382	3399	1	-20.2	0.1422085	2.2093043	17	0	0
NM_001190956	ADAM18	1099	1121	1	-20	-0.212843	-0.034224	22	0	0
NM_003012	SFRP1	2356	2381	1	-27.9	0.0953391	0.2429323	20	0	0
XM_017013863	KAT6A	8967	8988	1	-21	0	0	21	0	0
XM_017013864	KAT6A	8922	8943	1	-21	0	0	21	0	0
XM_024447285	KAT6A	8987	9008	1	-21	0	0	21	0	0
NM_001135694	VDAC3	1091	1106	1	-18.2	1.0156417	3.2917389	15	0	0
NM_152419	HGSNAT	3372	3392	1	-25.4	-0.439918	-0.474892	20	0	0
NM_052898	XKR4	2535	2557	1	-18.1	1.0560951	0.995222	22	0	0
NM_002655	PLAG1	4981	4998	1	-21.5	0.8978247	0.7730746	17	1	0
NM_017813	IMPAD1	6399	6448	1	-22.3	4.8249449	4.2876495	19	0	0
XM_006718697	GDPD5	3747	3764	1	-21.6	0	0	17	0	0
NM_001351167	GDPD5	4113	4130	1	-21.6	-0.390589	0.1239501	17	0	0
XM_011545281	GDPD5	2659	2676	1	-21.6	0	0	17	0	0
NM_001300942	EMSY	4585	4613	1	-21.5	1.0141697	1.678314	21	1	0
NM_001300944	EMSY	4543	4571	1	-21.5	1.0141697	1.678314	21	1	0
NM_001300943	EMSY	4543	4571	1	-21.5	1.0141697	1.678314	21	1	0
NM_001128922	LRRC32	3964	3978	1	-22.3	2.6622195	1.4961799	14	0	0
NM_005512	LRRC32	4069	4083	1	-22.3	1.4934382	0.7315496	14	0	0
NM_182833	GDPD4	2233	2248	1	-17.8	1.1380249	0.9459312	15	0	0
NM_003251	THRSP	936	961	1	-17.2	0.9224628	0.165337	19	0	0
NM_080491	GAB2	5708	5731	1	-19.5	3.540862	5.7009818	23	0	0
NM_001286060	RAB30	912	930	1	-20.9	0.0782614	0.3500542	18	0	0
NM_014488	RAB30	1013	1031	1	-20.9	0.3204166	0.2195181	18	0	0
NM_001286061	RAB30	810	828	1	-20.9	0.5676152	0.7416635	18	0	0
NM_001286059	RAB30	1077	1095	1	-20.9	0.5474352	0.2876241	18	0	0
NM_001206769	DLG2	6440	6477	1	-21.1	4.5050576	4.5655153	18	1	1
NM_012193	FZD4	5199	5213	1	-18.9	2.2062377	1.4962107	14	1	0
NM_012193	FZD4	3217	3240	1	-18.3	1.9673211	0.8872058	23	1	0
NM_001098672	HEPHL1	4102	4137	1	-24.5	0.2970656	0.5406594	19	1	0
NM_005590	MRE11	4763	4799	1	-18	1.8457937	1.6665266	36	0	0
NM_001161630	KDM4E	1918	1931	1	-18.4	0.9801933	-0.014868	13	0	0
NM_001271594	SESN3	6636	6666	1	-21.2	2.6795436	2.2133893	30	1	1

NM_032427	MAML2	5944	5959	1	-17.6	1.651998	1.1772007	15	1	1
NM_001318736	CCDC82	2010	2029	1	-18.4	0.4141873	0.8074978	19	1	1
NM_000926	PGR	####	12737	1	-26.6	-0.375858	-0.32513	25	1	0
NM_001271162	PGR	####	10657	1	-26.6	2.1534902	1.9148851	25	1	0
NM_001271161	PGR	####	11681	1	-26.6	0.7841299	0.2643333	25	1	0
NM_152433	KBTBD3	3518	3549	1	-18.1	2.6585254	2.564694	17	0	0
NM_152434	CWF19L2	3040	3068	1	-21.2	1.8334568	2.7089278	28	0	0
XM_011543055	ZC3H12C	7703	7725	1	-19.4	0	0	22	1	1
NM_033390	ZC3H12C	7590	7612	1	-19.4	0.4263252	0.2572783	22	1	1
XM_017018477	ZC3H12C	####	12373	1	-19.4	0	0	22	1	1
NM_001077692	ALG9	4408	4421	1	-17.8	1.6033095	3.8574474	13	0	0
NM_001276506	SDHD	1432	1450	1	-19	0.9726125	0.621534	18	1	1
NM_003002	SDHD	1302	1320	1	-19	0.9726125	0.621534	18	1	1
NM_001276503	SDHD	1157	1175	1	-19	0.9726125	0.621534	18	1	1
NM_001276504	SDHD	1185	1203	1	-19	0.9726125	0.621534	18	1	1
NM_152263	TPM3	4532	4557	1	-19.7	0.1877439	0.064555	25	1	0
NM_014847	UBAP2L	3731	3744	1	-19.8	1.463417	3.301618	13	0	0
NM_001252406	ZBTB7B	2646	2659	1	-20.3	0.7976451	0.9046266	13	0	0
NM_001256455	ZBTB7B	2375	2419	1	-20.5	1.7156847	1.0756483	14	0	0
NM_020897	HCN3	3798	3817	1	-19.3	0.9838549	0.6972723	19	0	0
XM_011509533	LMNA	2610	2628	1	-17.6	0	0	18	0	0
NM_001271629	MEF2D	3798	3814	1	-20.2	2.2120603	2.427342	16	0	0
XM_006711334	MEF2D	4072	4088	1	-20.2	0	0	16	0	0
XM_011510119	CD1B	1467	1501	1	-19.1	0	0	15	0	0
NM_003564	TAGLN2	1245	1267	1	-19.2	4.7423031	2.9396597	14	0	0
NM_145021	8-Mar	2708	2725	1	-19.8	0.0683535	0.0795825	17	0	0
NM_001002266	8-Mar	2220	2237	1	-19.8	1.2365303	0.2675771	17	0	0
NM_001282866	8-Mar	3066	3083	1	-19.8	2.9157033	0.9525104	17	0	0
XM_006718011	SYT15	2775	2791	1	-17.3	0	0	16	0	0
XM_005277644	NPY4R2	4346	4366	1	-20.5	0	0	20	0	0
XM_006717545	NPY4R2	4190	4210	1	-20.5	0	0	20	0	0
NM_001098512	PRKG1	6327	6343	1	-20.8	0.670851	1.6481258	16	0	0
NM_006258	PRKG1	6261	6277	1	-20.8	1.7388873	1.3909282	16	0	0
NM_000242	MBL2	1893	1910	1	-18.7	0.096504	-0.098242	17	0	0
NM_032804	ADO	2169	2199	1	-19.4	0.1173415	0.2356481	16	0	0
NM_002778	PSAP	2334	2355	1	-20.7	1.8558338	2.8767742	21	0	0
NM_014767	SPOCK2	1861	1876	1	-21	-0.398544	0.1290938	15	0	0
NM_001244950	SPOCK2	1978	1993	1	-21	-0.075488	0.0347539	15	0	0
XM_011540404	SPOCK2	1796	1811	1	-21	0	0	15	0	0
NM_017626	DNAJB12	1415	1462	1	-22.4	0.5174641	0.4097337	47	0	0
NM_004922	SEC24C	3747	3787	1	-20	1.7074583	2.512103	40	0	0
NM_198597	SEC24C	3660	3700	1	-20	1.7074583	2.512103	40	0	0
NM_203298	CHCHD1	797	813	1	-16.9	0.0424119	0.206769	16	0	0
NM_014000	VCL	4201	4215	1	-19.2	0.2422588	0.4110718	14	0	0
NM_003373	VCL	3997	4011	1	-19.2	0.3011761	0.3897962	14	0	0
NM_144660	SAMD8	5248	5270	1	-21.3	0.1241576	-0.078957	17	0	1
NM_001174156	SAMD8	5021	5043	1	-21.3	0.1241576	-0.078957	17	0	1
NM_178562	TSPAN33	1897	1945	1	-20	0.3897598	0.5365021	14	0	0
NM_182697	UBE2H	3635	3655	1	-21.7	0.0911517	0.8385196	20	0	0
XM_024446767	MKLN1	####	10936	1	-22.3	0	0	17	0	1
NM_013255	MKLN1	####	10752	1	-22.3	-0.150394	-0.184816	17	0	1
NM_020911	PLXNA4	9871	9889	1	-20.8	2.9545343	3.4153706	18	0	0

XM_005250686	PLXNA4	####	10160	1	-20.8	0	0	18	0	0
NM_130841	ATP6V0A4	2940	2962	1	-22.5	-0.603353	-0.660967	22	0	0
NM_020119	ZC3HAV1	4324	4338	1	-17.5	3.3911717	0.5951892	14	0	0
NM_173569	UBN2	6285	6303	1	-20.2	0.0744386	0.1337782	18	1	1
NM_001031690	FAM131B	3271	3304	1	-23	3.1453302	1.9933494	33	0	0
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XM_011516441	ZNF398	3139	3163	1	-19.7	0	0	19	0	0
NM_170686	ZNF398	3303	3327	1	-19.7	-0.680667	-0.1778	19	0	0
NM_152557	ZNF746	3607	3625	1	-24.6	0.6067093	0.7254439	18	0	0
NM_145230	ATP6V0E2	2174	2192	1	-20	-0.512821	-0.227247	18	0	0
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NM_001199577	GIMAP1- GIMAP5	1965	2014	1	-25	-0.668965	-0.156912	17	0	0
NM_018384	GIMAP5	1580	1629	1	-25	-0.668965	-0.156912	17	0	0
XM_024446666	RNF32	1219	1261	1	-21.7	0	0	15	0	0
NM_001308274	RNF32	1087	1129	1	-21.7	-0.961465	-0.414505	15	0	0
NM_001166600	FAM122B	2628	2657	1	-18	0	0	29	0	0
NM_001166599	FAM122B	3388	3417	1	-18	0	0	29	0	0
NM_145284	FAM122B	3391	3420	1	-18	0	0	29	0	0
NM_001170756	FAM122B	3445	3474	1	-18	0	0	29	0	0
NM_001078173	RTL8B	1250	1307	1	-20.7	0	0	24	0	0
NM_001078172	RTL8A	915	937	1	-18.4	0	0	14	0	0
NM_152695	ZNF449	3915	3931	1	-17.6	0	0	16	0	0
NM_001324276	CXorf40A	1126	1143	1	-19.1	0	0	17	0	0
XM_024452480	CXorf40A	1053	1070	1	-19.1	0	0	17	0	0
NM_001171909	CXorf40A	1054	1071	1	-19.1	0	0	17	0	0
XM_011531181	CXorf40B	1060	1077	1	-19.1	0	0	17	0	0
NM_001080485	ZNF275	3403	3420	1	-23.4	0	0	17	0	0
XM_024452386	ATP2B3	5766	5781	1	-24	0	0	15	0	0
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NM_001001344	ATP2B3	5336	5351	1	-24	0	0	15	0	0
NM_001282312	FAM3A	1133	1151	1	-19.3	0	0	18	0	0
NM_001171133	FAM3A	1078	1096	1	-19.3	0	0	18	0	0
NM_001171132	FAM3A	1192	1210	1	-19.3	0	0	18	0	0
NM_001171134	FAM3A	1238	1256	1	-19.3	0	0	18	0	0
NM_021806	FAM3A	1289	1307	1	-19.3	0	0	18	0	0
XM_005274716	FAM3A	1237	1255	1	-19.3	0	0	18	0	0
NM_020994	CTAG2	761	776	1	-18	0	0	15	0	0
NM_001303544	VBP1	1373	1394	1	-19.7	0	0	21	0	1
NM_003372	VBP1	1284	1305	1	-19.7	0	0	21	0	1
NM_001077619	UBXN2B	2566	2593	1	-20.1	0	0	16	0	0
NM_052832	SLC26A7	4372	4391	1	-23.1	-0.192504	0.0724465	19	0	1
NM_001198628	RUNX1T1	7178	7193	1	-18.4	2.4299064	3.3430315	15	1	0
NM_001198634	RUNX1T1	7185	7219	1	-18.6	0	0	16	1	0
NM_175635	RUNX1T1	7131	7146	1	-18.4	2.7715757	3.5430315	15	1	0
NM_004349	RUNX1T1	7295	7329	1	-18.6	0	0	16	1	0
NM_175636	RUNX1T1	7194	7228	1	-18.6	1.7402127	1.6738267	16	1	0
XM_017013350	TRIQQ	2749	2774	1	-18.4	0	0	25	0	0
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NM_001171798	TRIQQ	1873	1888	1	-18.4	0.1477093	0.191643	15	0	0
NM_001171795	TRIQQ	1874	1889	1	-18.4	0.4795175	0.1688311	15	0	0

NM_001171797	TRIQQ	1877	1892	1	-18.4	0.4119272	0.0311154	15	0	0
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NM_001191035	TRIQQ	1969	1984	1	-18.4	0.1661426	0.2144547	15	0	0
NM_001191036	TRIQQ	1824	1839	1	-18.4	0.2583115	0.1519334	15	0	0
NM_033285	TP53INP1	2085	2106	1	-17.7	0.6304514	0.6526713	21	0	0
NM_001135733	TP53INP1	2123	2144	1	-17.7	0.6257481	0.5067141	21	0	0
NM_001001557	GDF6	1955	1997	1	-21.8	0.045446	0.5646654	19	0	0
NM_006281	STK3	2359	2386	1	-18.1	5.3088892	5.62662	27	0	0
NM_001256313	STK3	2007	2043	1	-18.1	5.512784	5.7812619	28	0	0
NM_001270379	ANKRD46	1244	1271	1	-19.2	6.627435	5.5223452	17	0	0
NM_024812	BAALC	2495	2520	1	-23.4	0.43678	0.1964102	16	0	0
NM_001024372	BAALC	2328	2353	1	-23.4	0.43678	0.1964102	16	0	0
XM_017014024	RIMS2	6062	6078	1	-17.8	0	0	16	0	0
NM_014677	RIMS2	4866	4882	1	-17.8	0.2760629	1.4027907	16	0	0
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XM_017014036	RIMS2	5367	5383	1	-17.8	0	0	16	0	0
NM_001282882	RIMS2	2229	2245	1	-17.8	0.5520318	1.2423839	16	0	0
NM_001135703	LRP12	3459	3471	1	-17.9	4.5955218	3.9042612	12	0	0
NM_001330599	TRPS1	4800	4827	1	-19	1.535719	1.753674	17	1	1
NM_001330599	TRPS1	9230	9246	1	-18.6	2.684547	2.5416868	16	1	1
NM_014112	TRPS1	4958	4985	1	-19	1.023848	0.8445567	17	1	1
NM_001282902	TRPS1	8885	8901	1	-18.6	2.4104551	2.7709261	16	1	1
XM_005251059	COL14A1	6054	6069	1	-21.2	0	0	15	0	0
NM_058229	FBXO32	1747	1769	1	-19.2	1.1746883	0.8770567	22	1	1
NM_003882	WISP1	3607	3628	1	-20.5	-0.445237	-0.405158	21	1	1
NM_080838	WISP1	3346	3367	1	-20.5	-0.445237	-0.405158	21	1	1
NM_001204869	WISP1	3152	3173	1	-20.5	-0.445237	-0.405158	21	1	1
NM_001204870	WISP1	2872	2893	1	-20.5	-0.445237	-0.405158	21	1	1
NM_003724	JRK	3502	3520	1	-21.2	-0.268268	-0.184115	18	0	0
NM_017527	LY6K	1318	1357	1	-18.8	0.1160138	-0.226757	17	0	0
NM_001160355	LY6K	1286	1325	1	-18.8	0.1160138	-0.226757	17	0	0
NM_001026213	CYP11B1	2483	2513	1	-22.9	-0.064782	1.0263855	30	0	0
NM_001263	CDS1	2209	2239	1	-22.7	0.3926339	0.2425255	14	0	0
NM_002753	MAPK10	2658	2678	1	-17.6	0.6874324	1.4141453	20	0	0
NM_001130679	EIF4E	7175	7196	1	-19.5	-0.226495	0.3538254	15	0	0
NM_001354435	C4orf54	9234	9252	1	-20.3	0.1824117	0.741419	18	1	0
NM_003340	UBE2D3	3527	3553	1	-19.1	1.4239934	1.4925087	26	1	1
NM_181886	UBE2D3	3735	3761	1	-19.1	0.5815187	0.8572195	26	1	1
NM_181891	UBE2D3	3692	3718	1	-19.1	2.151139	2.2832166	26	1	1
NM_181887	UBE2D3	3505	3531	1	-19.1	1.0315362	1.6413159	26	1	1
NM_181892	UBE2D3	3767	3793	1	-19.1	0.550122	0.9602394	26	1	1
XM_011532333	COL25A1	3707	3727	1	-20.4	0	0	20	0	0
XM_011532358	COL25A1	2878	2898	1	-20.4	0	0	20	0	0
NM_003360	UGT8	3656	3699	1	-18.4	2.3068854	1.390111	14	0	0
XM_017008693	QRFPR	1343	1390	1	-22.2	0	0	31	0	0
NM_001172173	CSRNP3	8146	8185	1	-19.3	0.4009971	0.3746662	39	0	0
NM_001199290	PHOSPHO2- KLHL23	2783	2807	1	-17.8	0.2239277	0.8689253	19	0	0
NM_133646	MAP3K20	6681	6702	1	-23.4	1.7593358	0.9378902	21	0	1
NM_001011708	OLA1	1810	1853	1	-21.8	-0.139634	-0.000916	19	1	1
NM_013341	OLA1	1911	1954	1	-21.8	0.5645598	-0.201993	19	1	1
NM_001267051	GPR155	4709	4725	1	-21.2	4.010704	3.6464371	16	0	1

NM_152529	GPR155	4793	4809	1	-21.2	4.5635595	3.4789677	16	0	1
NM_001267050	GPR155	4839	4855	1	-21.2	4.1380592	3.8848392	16	0	1
NM_194247	HNRNPA3	2631	2648	1	-18.7	0.2543847	0.543782	17	0	0
NM_001330247	HNRNPA3	2565	2582	1	-18.7	0.2543847	0.543782	17	0	0
XM_011510492	UBE2E3	2650	2664	1	-17.8	0	0	14	0	0
NM_001316312	ITGA4	1566	1609	1	-20.7	0.1428161	-0.186414	17	0	0
NM_001463	FRZB	2420	2441	1	-22.5	4.8027258	3.7387043	21	0	0
NM_001329240	TFPI	3484	3506	1	-18.5	0.4426532	0.8215189	22	0	0
NM_032168	WDR75	2558	2588	1	-21.2	0.4088859	0.3897062	23	0	0
NM_017694	MFSD6	3956	3977	1	-18.8	-0.219582	-0.116562	21	0	0
NM_001190964	ZMYM2	5518	5556	1	-18.3	2.1611192	0.9228608	38	1	1
XM_005266416	CRYL1	960	978	1	-22.9	0	0	18	0	0
NM_000209	PDX1	2513	2530	1	-19.6	-0.390061	0.0838756	17	0	0
XM_005266333	PAN3	5160	5176	1	-17.8	0	0	16	0	0
NM_001135919	SLC46A3	2241	2269	1	-19.4	1.5571115	0.9338512	12	0	0
NM_181785	SLC46A3	2785	2813	1	-19.4	1.5571115	0.9338512	12	0	0
NM_001033602	MTUS2	6433	6449	1	-19.9	1.4441271	0.5855029	16	0	0
NM_020751	COG6	2964	3009	1	-22.2	-0.469724	-0.07209	24	0	0
NM_014252	SLC25A15	3511	3529	1	-21.1	-0.357527	-0.354953	18	0	0
NM_182508	FAM216B	1192	1207	1	-19.7	0.3146113	0.2262954	15	0	0
NM_012345	NUFIP1	2434	2460	1	-22.9	1.3718501	1.0571707	20	0	0
NM_001286272	TPT1	2732	2750	1	-18.2	0.6239237	0.153754	18	0	0
NM_002298	LCP1	3564	3579	1	-21.4	0.4261584	1.790003	15	0	0
NM_001270629	MED4	1129	1169	1	-17.8	0.3779796	0.1924341	14	0	1
NM_014166	MED4	1235	1275	1	-17.8	-0.238753	-0.007829	14	0	1
NM_213590	TRIM13	6525	6548	1	-23.2	0.1933224	0.06439	23	0	1
NM_001007278	TRIM13	6189	6212	1	-23.2	0.1933224	0.06439	23	0	1
NM_052811	TRIM13	6075	6098	1	-23.2	0.1933224	0.06439	23	0	1
NM_005798	TRIM13	5990	6013	1	-23.2	0.1933224	0.06439	23	0	1
NM_020951	ZNF529	4888	4917	1	-18.2	0.3422159	0.2744026	15	0	0
NM_001321351	ZNF529	4989	5018	1	-18.2	0.3422159	0.2744026	15	0	0
NM_032825	ZNF382	2706	2747	1	-17.9	-0.016628	0.1190977	19	0	0
NM_001256838	ZNF382	2681	2722	1	-17.9	-0.016628	0.1190977	19	0	0
NM_001037232	ZNF829	1954	1969	1	-19.6	0.0146197	0.0055991	15	0	0
NM_001171979	ZNF829	1899	1914	1	-19.6	0.0852845	0.1201337	15	0	0
NM_001013659	ZNF793	2471	2488	1	-19.8	0.0811261	0.4179639	17	1	1
XM_006723213	ZNF793	2493	2510	1	-19.8	0	0	17	1	1
NM_001146202	RASGRP4	2344	2358	1	-17.1	2.3419153	3.5569061	14	0	0
NM_001014831	PAK4	2533	2566	1	-22.8	0.1268455	-0.135893	21	0	0
NM_001014835	PAK4	1848	1881	1	-22.8	0.1268455	-0.135893	21	0	0
NM_001014832	PAK4	2234	2267	1	-22.8	0.1268455	-0.135893	21	0	0
NM_001014834	PAK4	1775	1808	1	-22.8	0.1268455	-0.135893	21	0	0
XM_011526316	PAK4	2310	2343	1	-22.8	0	0	21	0	0
XM_011526318	PAK4	2254	2287	1	-22.8	0	0	21	0	0
NM_001001563	TIMM50	4705	4723	1	-20.5	-0.263665	0.0094694	18	0	0
NM_001256440	C19orf47	1521	1535	1	-17.6	1.3285198	3.0248046	14	0	0
NM_001289979	NUMBL	2788	2828	1	-20.1	5.4260879	5.0958258	40	0	0
NM_004756	NUMBL	2873	2913	1	-20.1	5.6445256	5.3720029	40	0	0
NM_001289980	NUMBL	2714	2754	1	-20.1	4.8476545	3.5308122	40	0	0
NM_002483	CEACAM6	2031	2047	1	-17.8	-0.006142	0.1004171	16	0	0
NM_002698	POU2F2	1496	1517	1	-24.4	1.44736	1.0067387	21	0	0
NM_001207025	POU2F2	1544	1565	1	-24.4	1.2075529	0.8746543	21	0	0

NM_001007561	IRGQ	8221	8253	1	-22.7	-0.43057	0.5216337	32	0	0
XM_005258786	ZNF283	6329	6349	1	-20.2	0	0	20	0	0
XM_024451459	ZNF283	6176	6196	1	-20.2	0	0	20	0	0
NM_001278510	ZNF229	2924	2946	1	-24.6	-5.310846	-0.252266	22	0	0
NM_014518	ZNF229	3053	3075	1	-24.6	-0.383576	-1.840096	22	0	0
NM_001278509	ZNF180	3427	3453	1	-21	-0.021286	-0.015117	26	0	0
NM_001278508	ZNF180	3424	3450	1	-21	-0.183622	-0.009273	26	0	0
NM_001193461	MSRB3	838	850	1	-17.6	0.7491423	1.0760962	12	0	0
NM_032338	LLPH	1108	1123	1	-19.1	0.0929133	0.0834303	15	0	0
NM_001282609	TMBIM4	1741	1754	1	-16	0.0331096	0.112841	13	0	0
NM_016056	TMBIM4	1776	1789	1	-16	0.0331096	0.112841	13	0	0
NM_198320	CPM	4118	4133	1	-16.3	0.0550631	0.114275	15	0	0
NM_201550	LRRRC10	2209	2226	1	-21	3.6855213	3.4764529	17	0	0
NM_018279	TMEM19	1824	1842	1	-19.6	0.1027933	-0.082525	18	0	0
NM_001146214	TBC1D15	4490	4512	1	-19.2	1.0745827	0.4168997	22	1	1
NM_022771	TBC1D15	4449	4471	1	-19.2	1.0745827	0.4168997	22	1	1
NM_001146213	TBC1D15	4398	4420	1	-19.2	1.0745827	0.4168997	22	1	1
NM_013381	TRHDE	3685	3702	1	-19	2.0046516	0.837793	17	0	1
NM_001307924	NAP1L1	2018	2056	1	-22.5	4.2180053	3.1557523	21	1	0
NM_015336	ZDHHC17	4233	4254	1	-19.2	0.257651	0.3014286	21	0	1
NM_002583	PAWR	2872	2888	1	-19.3	0.3273859	0.6384965	16	0	0
NM_018057	SLC6A15	2726	2743	1	-21.3	0.0864961	0.3051605	17	0	1
NM_181783	TMTC3	3229	3247	1	-21.3	0.1458943	0.5754898	18	0	0
NM_001199781	POC1B- GALNT4	3104	3133	1	-21.6	0.5071808	0.3397356	22	0	0
NM_003774	GALNT4	3003	3032	1	-21.6	-0.037017	0.3736802	22	0	0
NM_001320100	CRADD	887	907	1	-22.7	1.0226268	0.3211409	20	0	0
NM_020698	TMCC3	1854	1878	1	-19.7	-0.638761	-0.200693	24	1	1
NM_152905	NEDD1	2356	2372	1	-21.8	1.4653253	0.4793145	16	0	0
NM_001135177	NEDD1	2117	2133	1	-21.8	1.4653253	0.4793145	16	0	0
NM_001135176	NEDD1	2103	2119	1	-21.8	1.4653253	0.4793145	16	0	0
NM_001135175	NEDD1	2184	2200	1	-21.8	0.5249036	1.1439398	16	0	0
NM_001301068	ARL1	2703	2746	1	-23.5	4.7565574	6.0405225	21	0	0
NM_003211	TDG	1587	1603	1	-17.4	1.7859308	1.2284163	16	0	0
NM_018413	CHST11	2132	2160	1	-18.7	0.7228276	0.4857223	28	1	1
NM_001173982	CHST11	2117	2145	1	-18.7	0.7228276	0.4857223	28	1	1
NM_152624	DCP2	2933	2951	1	-17.1	1.849308	0.8461876	18	1	1
NM_001242377	DCP2	2828	2846	1	-17.1	1.849308	0.8461876	18	1	1
NM_001085377	MCC	6859	6873	1	-19.5	3.1192285	4.0825117	14	0	0
NM_002387	MCC	6403	6417	1	-19.5	3.8825597	4.3535421	14	0	0
NM_022828	YTHDC2	6101	6116	1	-18.1	0.8908313	0.9478016	15	0	0
NM_152546	SRFBP1	2402	2433	1	-19.5	0.6756343	0.1908678	21	0	0
NM_003100	SNX2	6045	6059	1	-18.9	0.3451005	0.1440556	14	0	0
NM_032177	PHAX	3154	3169	1	-17.1	0.3347648	-0.032642	15	0	0
NM_181705	LYRM7	1940	1956	1	-21.2	0.0159871	-0.068734	16	0	0
NM_001293735	LYRM7	1858	1874	1	-21.2	0.0159871	-0.068734	16	0	0
NM_016340	RAPGEF6	5205	5222	1	-18.6	4.025706	5.266636	17	0	1
NM_001164388	RAPGEF6	4914	4931	1	-18.6	4.025706	5.266636	17	0	1
NM_001164386	RAPGEF6	5229	5246	1	-18.6	4.025706	5.266636	17	0	1
NM_004887	CXCL14	1237	1250	1	-16	4.8628356	4.4174271	13	0	0
NM_017415	KLHL3	3717	3731	1	-18.6	-0.005187	0.2789449	14	0	0
NM_001257194	KLHL3	3521	3560	1	-19.5	0.3604068	0.1895234	18	0	0

NM_001257195	KLHL3	3097	3136	1	-19.5	0.3985264	-0.126604	18	0	0
NM_001257195	KLHL3	3468	3482	1	-18.6	-0.064802	0.0096827	14	0	0
NM_001101801	FAM13B	3797	3853	1	-21.9	1.1639131	2.0270447	23	0	0
NM_001101800	FAM13B	3923	3979	1	-21.9	3.0387914	1.8873024	23	0	0
NM_016603	FAM13B	4007	4063	1	-21.9	3.0387914	1.8873024	23	0	0
NM_001135647	FAM53C	4244	4266	1	-19.5	2.3847544	3.0196945	22	0	0
NM_005859	PURA	2910	2952	1	-20.5	1.8626795	2.1513608	18	1	0
NM_138467	TYW3	2332	2365	1	-19.1	0.6083892	0.3382732	14	0	0
NM_001270384	MIGA1	2107	2125	1	-18.7	0.3753652	0.6782394	18	1	1
NM_001270384	MIGA1	3578	3605	1	-17.9	0.2785708	0.3626049	14	1	1
NM_198549	MIGA1	2104	2122	1	-18.7	0.3753652	0.6782394	18	1	1
NM_198549	MIGA1	3575	3602	1	-17.9	0.2785708	0.3626049	14	1	1
NM_002731	PRKACB	2102	2123	1	-18.7	1.3846337	0.5714494	16	0	0
NM_182948	PRKACB	2006	2027	1	-18.7	0.5108823	0.753547	16	0	0
NM_001242857	PRKACB	2001	2022	1	-18.7	1.3846337	0.5714494	16	0	0
NM_001242859	PRKACB	1992	2013	1	-18.7	1.3846337	0.5714494	16	0	0
NM_001242858	PRKACB	1944	1965	1	-18.7	1.3846337	0.5714494	16	0	0
NM_001242860	PRKACB	2136	2157	1	-18.7	1.3846337	0.5714494	16	0	0
NM_001242861	PRKACB	2028	2049	1	-18.7	1.3846337	0.5714494	16	0	0
NM_001242862	PRKACB	1740	1761	1	-18.7	1.3846337	0.5714494	16	0	0
XM_024446289	SPATA1	1618	1657	1	-21.9	0	0	15	0	0
NM_001166293	SSX2IP	5134	5170	1	-19.3	4.4414342	3.6974304	19	0	0
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XM_024446128	LPAR3	2360	2376	1	-21.5	0	0	16	0	0
XM_005270719	MCOLN2	2229	2244	1	-18.5	0	0	15	0	0
NM_018298	MCOLN3	2150	2178	1	-19	3.5906861	2.168547	28	0	0
NM_182976	ZNF326	6254	6293	1	-22.9	0.0918383	0.0138562	20	0	0
NM_182976	ZNF326	3841	3859	1	-19.2	0.2075481	-0.209787	18	0	0
NM_001320185	ZNF326	5987	6026	1	-22.9	0.0918383	0.0138562	20	0	0
NM_001320185	ZNF326	3574	3592	1	-19.2	0.2075481	-0.209787	18	0	0
NM_001199691	TMEM56- RWDD3	1019	1029	1	-15.9	-0.115515	1.6597739	10	0	0
NM_014839	PLPPR4	4179	4195	1	-18.6	3.4793552	1.5177442	16	0	0
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NM_014917	NTNG1	4684	4714	1	-23	0.6943284	0.3645854	24	0	0
XM_017000683	NTNG1	4624	4654	1	-23	0	0	24	0	0
NM_001113226	NTNG1	4705	4735	1	-23	2.0306058	1.7675834	24	0	0
NM_020141	TMEM167B	525	558	1	-22.1	0.8898789	0.6744325	18	0	0
NM_000757	CSF1	2165	2180	1	-18	0.0971693	0.3245052	15	0	1
NM_172211	CSF1	1271	1286	1	-18	0.0971693	0.3245052	15	0	1
NM_001242673	AHCYL1	3888	3904	1	-19	1.4849986	0.6711863	16	0	0
NM_006621	AHCYL1	3517	3533	1	-19	1.4849986	0.6711863	16	0	0
NM_001242675	AHCYL1	3612	3628	1	-19	1.1964831	0.7000379	16	0	0
NM_001349881	DRAM2	1932	1954	1	-18.6	-0.486129	0.0158306	16	0	0
NM_001007794	CEPT1	2295	2328	1	-19.7	2.9096728	2.0945166	33	0	0
NM_006090	CEPT1	2061	2094	1	-19.7	1.9171004	2.3157143	33	0	0
NM_001271833	DENND2D	1750	1766	1	-20.4	3.172259	2.5943597	16	0	0
NM_001271833	DENND2D	1645	1660	1	-19.4	1.7517574	1.4617113	15	0	0
NM_024901	DENND2D	1818	1834	1	-20.4	4.1920824	2.1529221	16	0	0
NM_024901	DENND2D	1713	1728	1	-19.4	1.1957451	3.3475724	15	0	0
NM_001007246	BRWD1	1862	1898	1	-20.7	1.3951281	1.0658465	21	1	1
NM_012105	BACE2	7756	7772	1	-20.8	0.2389927	-0.260907	16	0	0

NM_138992	BACE2	7587	7603	1	-20.8	0.2389927	-0.260907	16	0	0
NM_138991	BACE2	7606	7622	1	-20.8	0.2389927	-0.260907	16	0	0
NM_001286209	GAS8	2147	2164	1	-19.1	2.0576122	0.2840851	17	0	0
NM_001286205	GAS8	2255	2272	1	-19.1	2.0576122	0.2840851	17	0	0
NM_001481	GAS8	2132	2149	1	-19.1	-0.040741	0.3301613	17	0	0
NM_004397	DDX6	3311	3335	1	-18.3	2.8199	3.8758555	24	0	0
NM_001257191	DDX6	3239	3263	1	-18.3	3.7752592	3.4949992	24	0	0
NM_001243259	HINFP	1967	1986	1	-20.8	0.419573	0.1357531	19	0	0
NM_198971	HINFP	1905	1924	1	-20.8	0.2009071	0.1013968	19	0	0
NM_001330382	TRIM29	2053	2075	1	-21.2	3.2078168	1.8313981	16	0	0
NM_012101	TRIM29	2715	2737	1	-21.2	1.2906942	1.0230988	16	0	0
NM_001198671	TMEM136	1876	1909	1	-19.8	0.5246938	0.0562476	16	1	0
NM_152715	TBCEL	2623	2663	1	-22.2	0.3056322	0.2012017	25	0	0
NM_152715	TBCEL	3352	3370	1	-17.8	0.8977033	0.8929535	18	0	0
NM_001130047	TBCEL	2486	2526	1	-22.2	0.3056322	0.2012017	25	0	0
NM_001130047	TBCEL	3215	3233	1	-17.8	0.8977033	0.8929535	18	0	0
XM_005271619	GRAMD1B	3849	3866	1	-16.9	0	0	17	0	0
NM_001258241	TMEM218	3130	3156	1	-22.7	0.2488959	0.0040174	26	0	1
NM_001258247	TMEM218	3005	3031	1	-22.7	0.0687557	0.1921999	26	0	1
NM_001080546	TMEM218	3151	3177	1	-22.7	-0.047049	-0.043028	26	0	1
XM_017017323	TMEM218	3043	3069	1	-22.7	0	0	26	0	1
XM_024448389	TMEM218	3161	3187	1	-22.7	0	0	26	0	1
NM_001161707	KIRREL3	2235	2249	1	-19.4	1.2006806	0.9730145	14	0	0
NM_001195195	TP53AIP1	948	964	1	-17.7	-0.28658	-0.43315	16	0	0
NM_001142685	ARHGAP32	7332	7348	1	-21.6	0.4026949	1.7223179	16	0	0
NM_014715	ARHGAP32	6664	6680	1	-21.6	0.8107098	0.464038	16	0	0
NM_004693	KRT75	2063	2102	1	-20.4	0.7182293	0.4919282	15	0	0
NM_005555	KRT6B	2169	2190	1	-19.9	1.1277012	0.8601749	21	0	0
NM_015848	KRT76	2469	2486	1	-19	0.7034072	0.2128025	17	0	0
NM_173352	KRT78	2362	2381	1	-19.4	0.901339	-0.070345	19	0	0
NM_001300814	KRT78	1980	1999	1	-19.4	1.0621074	1.3376485	19	0	0
NM_138473	SP1	6637	6651	1	-21.2	0.4635654	0.6817477	14	1	0
NM_003109	SP1	6574	6588	1	-21.2	0.6402144	0.4623558	14	1	0
NM_017410	HOXC13	1638	1687	1	-22.3	-0.020307	0.5586252	20	0	0
NM_012117	CBX5	3189	3210	1	-19.7	0.3449448	-0.162121	21	1	1
NM_002898	RBMS2	2343	2369	1	-21.4	0.9860186	0.1768883	19	0	0
XM_017019778	RBMS2	1651	1677	1	-21.4	0	0	19	0	0
NM_001351156	BAZ2A	6102	6114	1	-19.1	4.0011025	3.0889056	12	0	0
NM_001300905	BAZ2A	6051	6063	1	-19.1	3.0934431	3.2199489	12	0	0
NM_001282603	PTGES3	1047	1063	1	-18.1	2.7803238	2.3568997	16	0	0
NM_001122772	AGAP2	5554	5584	1	-21.5	0.8208022	0.7972462	30	0	0
NM_001165034	RNF182	2204	2222	1	-17.5	0.3549768	0.0049797	18	0	0
NM_001165032	RNF182	2317	2335	1	-17.5	0.3549768	0.0049797	18	0	0
NM_152737	RNF182	2234	2252	1	-17.5	0.0773344	-0.098505	18	0	0
NM_001165033	RNF182	2096	2114	1	-17.5	0.3549768	0.0049797	18	0	0
NM_001143942	RBM24	1280	1294	1	-16.2	2.6985675	3.2599293	14	0	0
NM_001143941	RBM24	1264	1278	1	-16.2	2.0858421	3.100387	14	0	0
NM_153020	RBM24	1212	1226	1	-16.2	2.0858421	3.100387	14	0	0
NM_001134709	DEK	1638	1663	1	-20	4.24855	2.7531275	18	0	0
NM_003472	DEK	1740	1765	1	-20	0.9028303	2.1051703	18	0	0
NM_001080480	MBOAT1	3758	3784	1	-18.2	4.499782	3.0397959	26	0	1
NM_017774	CDKAL1	2745	2788	1	-20.9	0.2514661	0.1218491	25	0	0

NM_005835	SLC17A2	1922	1936	1	-18.9	0.1578152	0.1835527	14	0	0
NM_001286123	SLC17A2	1620	1634	1	-18.9	2.1842319	2.1932113	14	0	0
NM_006995	BTN2A2	2362	2391	1	-18.7	0.1029136	-0.028929	18	0	0
NM_001197240	BTN2A2	2233	2262	1	-18.7	0.1029136	-0.028929	18	0	0
NM_181531	BTN2A2	2014	2043	1	-18.7	0.1029136	-0.028929	18	0	0
NM_001197239	BTN2A2	1732	1761	1	-18.7	0.1029136	-0.028929	18	0	0
NM_001197237	BTN2A2	2384	2413	1	-18.7	0.1602368	-0.408406	18	0	0
NM_019110	ZKSCAN4	3667	3685	1	-19	-0.142395	0.4584875	18	0	0
NM_019110	ZKSCAN4	3437	3460	1	-18.7	0.1532811	0.1631266	23	0	0
NM_030899	ZSCAN31	2154	2170	1	-18	0.6450207	0.2495625	16	0	0
NM_001243243	ZSCAN31	1689	1705	1	-18	0.588812	-0.090426	16	0	0
NM_001135216	ZSCAN31	2165	2181	1	-18	0.5460543	0.3346237	16	0	0
XM_011514455	GABBR1	3130	3163	1	-24.5	0	0	33	0	0
NM_052828	TRIM10	2446	2490	1	-23	0.3990629	0.9989853	16	0	0
NM_006778	TRIM10	2993	3029	1	-23	0.2471738	1.0222667	16	0	0
NM_033229	TRIM15	1904	1951	1	-22.1	0	0	16	0	0
NM_003449	TRIM26	2629	2639	1	-18.3	1.3536368	1.9908925	10	0	0
NM_001318763	ATAT1	1212	1242	1	-23.8	-0.241146	-0.435291	23	0	0
NM_001318762	ATAT1	1143	1173	1	-23.8	-0.252168	-0.41677	23	0	0
NM_007109	TCF19	3084	3106	1	-20.7	-0.237932	-0.336158	22	0	0
NM_001077511	TCF19	2838	2860	1	-20.7	-0.449638	-0.370003	22	0	0
NM_000594	TNF	1493	1508	1	-18.1	0.8719019	1.2704108	15	0	0
NM_016442	ERAP1	3345	3393	1	-20.1	2.020211	3.9858195	19	0	0
NM_080391	PTP4A2	1550	1568	1	-17.6	0.3103542	0.7970198	18	1	1
NM_001195100	PTP4A2	2020	2036	1	-17.5	0.8767636	0.8655473	16	1	1
NM_001195100	PTP4A2	1074	1092	1	-17.6	1.4928575	0.6718129	18	1	1
NM_001319142	AK2	1643	1677	1	-21.6	-0.08452	0.2074987	22	0	0
NM_013411	AK2	1769	1803	1	-21.6	0.7049553	0.0239996	22	0	0
NM_001319141	AK2	1818	1852	1	-21.6	0.3592348	0.0768963	22	0	0
NM_001319143	AK2	736	757	1	-19.1	0.2072948	1.2549375	21	0	0
NM_001330483	TRIM62	1765	1786	1	-20.3	2.12595	1.9670362	21	0	0
NM_152493	ZNF362	1843	1865	1	-20.3	2.061779	1.6181695	22	0	0
NM_001320261	SMIM12	4717	4735	1	-20.7	0.8825103	0.8476283	18	0	0
NM_001320261	SMIM12	3174	3192	1	-19	0.0988462	0.0843955	18	0	0
NM_001164825	SMIM12	3292	3310	1	-19	-0.360129	0.138421	18	0	0
NM_001164824	SMIM12	4942	4960	1	-20.7	-0.133213	0.1509852	18	0	0
NM_001164824	SMIM12	5316	5331	1	-19.3	0.3177181	2.0187631	15	0	0
XM_005270403	SMIM12	3632	3650	1	-19	0	0	18	0	0
NM_024874	KIAA0319L	4712	4732	1	-18.5	1.6481557	1.0878995	20	0	0
NM_178548	TFAP2E	1710	1725	1	-17.8	0.7532019	0.3982101	15	0	0
NM_002794	PSMB2	3390	3407	1	-17.7	-0.064957	0.1730949	15	0	0
NM_001199780	PSMB2	2866	2883	1	-17.7	0.2245755	0.2132914	15	0	0
NM_017629	AGO4	5138	5153	1	-16.7	4.2710409	1.9293741	15	0	0
NM_024700	SNIP1	4505	4546	1	-20.2	0.6943366	0.9737817	18	0	0
NM_024640	YRDC	1202	1218	1	-17.9	3.6881019	3.9462569	16	0	0
NM_024595	AKIRIN1	1764	1790	1	-19.1	0.0084807	0.1220383	26	0	0
NM_024595	AKIRIN1	1125	1143	1	-19.3	3.22685	2.4211816	18	0	0
NM_001136275	AKIRIN1	1589	1611	1	-20.3	-0.066867	0.0865176	22	0	0
NM_001136275	AKIRIN1	990	1008	1	-19.3	3.4690346	2.5374306	18	0	0
NM_016257	HPCAL4	4818	4835	1	-20.5	0	0	17	0	0
NM_002840	PTPRF	6799	6834	1	-21.4	1.17688	1.4336613	35	0	0
NM_130440	PTPRF	6772	6807	1	-21.4	0.9768346	1.4659104	35	0	0

NM_018150	RNF220	3034	3052	1	-18.4	0	0	16	0	0
NM_001319956	RNF220	3030	3048	1	-18.4	1.9264341	2.3850262	16	0	0
NM_004392	DACH1	4535	4552	1	-18	3.0139135	2.301388	17	0	0
NM_080760	DACH1	4697	4714	1	-18	3.0139135	2.301388	17	0	0
NM_080759	DACH1	5141	5158	1	-18	3.0139135	2.301388	17	0	0
NM_007249	KLF12	4156	4168	1	-17.8	0.7412617	1.1519152	12	0	0
NM_001922	DCT	3368	3385	1	-19.4	6.1052031	3.9670513	17	0	0
NM_001129889	DCT	3467	3484	1	-19.4	3.2437328	4.140851	17	0	0
NM_006260	DNAJC3	4960	4988	1	-19.6	0.2678693	-0.159534	13	0	0
NM_153456	HS6ST3	4501	4517	1	-17.8	0.2857902	-0.276012	16	1	1
NM_004800	TM9SF2	2665	2703	1	-17.8	3.3271131	2.8810171	38	0	0
NM_033132	ZIC5	2262	2299	1	-19.5	3.3373492	1.8978884	37	1	1
XM_005254042	DAOA	1002	1017	1	-19.5	0	0	15	0	0
XM_024449381	ANKRD10	961	986	1	-18.7	0	0	20	0	0
NM_001113513	ARHGEF7	4744	4775	1	-21.2	0.0095477	0.0821812	15	0	0
NM_001113513	ARHGEF7	4356	4372	1	-18.1	-0.246219	0.0709023	16	0	0
XM_017020755	GRTP1	1182	1196	1	-18.7	0	0	14	0	0
XM_017020910	CFAP97D2	5083	5102	1	-21.1	0	0	19	0	0
NM_023011	UPF3A	2081	2116	1	-18	0.2239757	-0.022736	20	0	0
NM_080687	UPF3A	1982	2017	1	-18	0.2239757	-0.022736	20	0	0
NM_001256588	SLC39A2	1109	1139	1	-22	-0.346484	0.6740409	23	0	0
NM_012232	CAVIN1	2222	2239	1	-17.1	0.4500035	1.7850474	17	0	0
NM_001330229	PSME3	1735	1772	1	-19.1	0.4791169	0.2962029	13	0	0
NM_031862	NBR1	3378	3394	1	-18.6	0.6554963	0.7632635	16	0	0
NM_005899	NBR1	3570	3586	1	-18.6	0.0992757	0.1614589	16	0	0
NM_001291572	NBR1	3343	3359	1	-18.6	0.0992757	0.1614589	16	0	0
NM_001168324	CD300LG	861	885	1	-20.7	-0.254285	-0.119798	17	0	0
NM_005474	HDAC5	4653	4672	1	-18.8	4.3752459	3.3857901	19	0	0
NM_006695	RUNDC3A	1542	1558	1	-18.2	1.1830108	0.9788894	11	0	0
NM_001144826	RUNDC3A	1527	1543	1	-18.2	1.1830108	0.9788894	11	0	0
NM_021079	NMT1	1592	1633	1	-23.3	1.3928406	1.0773926	20	0	0
NM_021079	NMT1	3917	3957	1	-23.1	-0.179582	-0.058856	20	0	0
NM_030753	WNT3	2349	2368	1	-19.5	6.2183892	4.9428532	19	0	0
NM_001321133	GOSR2	932	981	1	-22.6	0.0402084	0.3320314	17	0	0
XM_017025389	GOSR2	1044	1058	1	-17.2	0	0	14	0	0
XM_017025395	GOSR2	1244	1258	1	-17.2	0	0	14	0	0
NM_000212	ITGB3	4228	4253	1	-20.2	0.4762425	0.258244	25	0	0
NM_001198754	GNGT2	583	609	1	-20.5	2.9552632	3.8302625	26	0	0
NM_001198755	GNGT2	610	636	1	-20.5	2.9228947	3.21065	26	0	0
NM_031498	GNGT2	627	653	1	-20.5	3.4019474	2.8355	26	0	0
NM_002204	ITGA3	4179	4194	1	-21	-0.039474	-0.288068	15	0	0
NM_003971	SPAG9	8164	8188	1	-19.7	0.9537654	0.676428	24	0	0
NM_001130527	SPAG9	8176	8200	1	-19.7	0.9537654	0.676428	24	0	0
NM_001130528	SPAG9	8206	8230	1	-19.7	0.9537654	0.676428	24	0	0
NM_001345967	ZNF394	1482	1504	1	-18.9	1.0149113	1.0036473	22	0	0
NM_178831	CASTOR3	930	945	1	-21.3	0.1421876	-0.012805	15	0	0
NM_006234	POLR2J	613	631	1	-21.1	5.29523	4.8793001	18	0	0
NM_032959	POLR2J2	886	928	1	-23.6	0.0340497	0.1319225	23	0	0
NM_198990	NAPEPLD	4232	4252	1	-20.5	2.302594	3.3597307	20	0	0
NM_001122838	NAPEPLD	4533	4553	1	-20.5	2.302594	3.3597307	20	0	0
NM_006754	SYPL1	1505	1526	1	-20	2.6184782	2.5938266	21	0	0
NM_000108	DLD	3361	3413	1	-22.8	-0.119933	0.2859092	22	1	0

NM_001127500	MET	5809	5831	1	-18.5	0.2681057	0.1484547	22	1	1
NM_000245	MET	5755	5777	1	-18.5	0.2681057	0.1484547	22	1	1
NM_000492	CFTR	4750	4794	1	-19.8	0.470163	0.4894564	31	0	0
NM_001199671	CALU	3673	3691	1	-19.5	0.535033	0.4327255	18	0	0
NM_001199672	CALU	3673	3691	1	-19.5	0.535033	0.4327255	18	0	0
NM_001219	CALU	2858	2876	1	-19.5	0.535033	0.4327255	18	0	0
NM_001199673	CALU	2658	2676	1	-19.5	0.535033	0.4327255	18	0	0
NM_001130674	CALU	2858	2876	1	-19.5	0.535033	0.4327255	18	0	0
NM_001458	FLNC	8565	8613	1	-25	1.0485257	-0.051001	17	0	0
NM_001127487	FLNC	8466	8514	1	-25	-0.876335	0.2840959	17	0	0
NM_001195150	LOC100130705	1295	1342	1	-28.6	-0.339903	0.2776148	21	0	0
NM_152721	DOK6	8321	8343	1	-18.7	1.12167	0.6258111	22	1	1
NM_004232	SOCS6	2120	2148	1	-19	1.9021656	2.6968076	28	1	1
XM_017025560	CBLN2	2975	3023	1	-22.7	0	0	23	0	0
NM_001306089	ZNF236	5804	5820	1	-19.3	0.4221258	0.6082352	16	0	1
NM_007345	ZNF236	5995	6011	1	-19.3	0.4221258	0.6082352	16	0	1
NM_024805	RBFA	4730	4748	1	-18.8	0.0241993	-0.07285	18	0	1
NM_001171967	RBFA	4645	4663	1	-18.8	0.0241993	-0.07285	18	0	1
XM_017026927	PLEKHJ1	1561	1579	1	-22.3	0	0	18	0	0
NM_018049	PLEKHJ1	1155	1173	1	-22.3	-1.226017	0.7216342	18	0	0
NM_001145640	ZFR2	704	753	1	-20.4	-0.026747	-0.14548	18	0	0
NM_001017921	VMAC	1518	1535	1	-18.4	0.4188905	-0.161418	17	0	0
NM_134433	RFX2	2491	2513	1	-18.6	4.8373705	4.2309825	22	0	0
NM_001289133	BTBD7	4005	4026	1	-20.1	-0.070436	0.1858017	21	1	1
NM_001002860	BTBD7	5273	5294	1	-20.1	4.6496921	2.9736351	21	1	1
NM_178013	PRIMA1	3357	3378	1	-20.8	2.5405826	2.5285766	16	0	0
XM_017021353	SERPINA10	4959	4977	1	-18.7	0	0	18	0	0
NM_030621	DICER1	8680	8702	1	-19.8	5.1662712	5.5315471	22	0	0
NM_177438	DICER1	8626	8648	1	-19.8	5.7618192	5.5490296	22	0	0
NM_001271282	DICER1	8621	8643	1	-19.8	6.1354695	5.5996453	22	0	0
NM_001195573	DICER1	8270	8292	1	-19.8	6.0685507	5.6924041	22	0	0
NM_024734	CLMN	6943	6969	1	-19.8	0.0305459	-0.0379	26	0	0
NM_032233	SETD3	2715	2737	1	-18.4	2.9014961	2.4832891	15	0	0
XM_011536540	EML1	2647	2664	1	-17.7	0	0	17	0	0
NM_003403	YY1	2946	2957	1	-19.2	0.5291321	0.5663934	11	0	0
NM_213645	WARS	2397	2417	1	-23.7	1.1648755	1.3522472	20	0	0
NM_173701	WARS	2569	2589	1	-23.7	0.2289575	-0.134564	20	0	0
NM_213646	WARS	2621	2641	1	-23.7	0	0	20	0	0
NM_004184	WARS	2793	2813	1	-23.7	0	0	20	0	0
XM_017021629	WARS	2765	2785	1	-23.7	0	0	20	0	0
NM_014844	TECPR2	6433	6450	1	-19.6	-0.717896	-0.164498	17	0	0
NM_001969	EIF5	2505	2517	1	-15.3	1.3533165	0.8370454	12	0	0
XM_005268046	XRCC3	2289	2325	1	-18.3	0	0	16	0	0
NM_001242787	BRF1	2396	2410	1	-21.7	2.5507399	3.9859305	14	0	0
NM_001242786	BRF1	2462	2476	1	-21.7	2.5507399	3.9859305	14	0	0
NM_001242789	BRF1	1886	1900	1	-21.7	2.3941662	2.6266123	14	0	0
NM_019066	MAGEL2	4131	4146	1	-17.5	0.2119709	0.9759034	15	0	0
NM_021912	GABRB3	2101	2123	1	-23.4	0.7720392	1.8038505	22	1	0
NM_000814	GABRB3	2151	2173	1	-23.4	0.901016	1.444866	22	1	0
NM_000814	GABRB3	4176	4194	1	-19.6	2.2884113	1.9282178	18	1	0
NM_001191320	GABRB3	3974	3992	1	-19.6	3.185731	1.542249	18	1	0

NM_001191321	GABRB3	4024	4042	1	-19.6	0.3244995	1.8684348	18	1	0
NM_001144757	SCG5	881	898	1	-19.6	1.3534452	0.8773386	17	0	1
NM_003020	SCG5	878	895	1	-19.6	1.3534452	0.8773386	17	0	1
XM_011521506	FMN1	####	10439	1	-19.1	0	0	17	0	0
XM_017022132	FMN1	####	10649	1	-19.1	0	0	17	0	0
NM_001103184	FMN1	9659	9676	1	-19.1	0	0	17	0	0
NM_032499	C15orf41	2480	2496	1	-17	0.3967006	1.1430947	16	0	1
XM_024450088	C15orf41	2883	2899	1	-17	0	0	16	0	1
NM_001271854	GPR176	2468	2490	1	-23.8	1.7368964	2.4125091	22	0	0
NM_001271855	GPR176	1629	1651	1	-23.8	0.2025236	-0.10095	22	0	0
NM_001002914	KCTD11	2466	2501	1	-22.2	-0.1125	-0.096	21	0	0
NM_020899	ZBTB4	3870	3884	1	-19.4	0	0	14	0	0
NM_001358699	RNF227	1827	1867	1	-21.1	1.4386303	0.3416921	18	0	0
XM_024450803	PER1	2982	3004	1	-20.7	0	0	22	0	0
NM_001251855	PIK3R5	2822	2837	1	-19.9	2.1184569	3.4097132	15	0	0
NM_001251853	PIK3R5	2821	2858	1	-20.3	2.1184569	3.4097132	16	0	0
NM_001142633	PIK3R5	2997	3012	1	-19.9	1.3567397	0.3913473	15	0	0
XM_005256580	PIK3R5	2989	3004	1	-19.9	0	0	15	0	0
NM_001105571	DHRS7C	977	1005	1	-19.9	2.2715184	1.2672316	28	0	0
NM_001220493	DHRS7C	980	1008	1	-19.9	2.2715184	1.2672316	28	0	0
NM_000304	PMP22	1698	1715	1	-18.3	0.6403723	0.6068213	17	0	0
NM_153321	PMP22	1655	1672	1	-18.3	0.6989706	1.0051069	17	0	0
NM_001281455	PMP22	1659	1676	1	-18.3	0.7886116	0.9180684	17	0	0
NM_001033551	TOM1L2	4081	4096	1	-19.6	-0.277581	1.280951	15	0	0
NM_001288787	TOM1L2	4096	4111	1	-19.6	0.0764563	1.8660302	15	0	0
NM_014683	ULK2	8335	8365	1	-19.8	4.961063	4.7420103	14	1	1
XM_011523831	KCNJ12	3666	3685	1	-20.2	0	0	19	0	0
NM_001076680	LYRM9	1375	1414	1	-19.6	1.5767166	1.9021886	15	0	0
XM_017024325	LYRM9	1558	1597	1	-19.6	0	0	15	0	0
NM_015077	SARM1	3830	3863	1	-22.5	0.0020425	0.1671576	19	0	0
NM_001904	CTNNB1	2774	2816	1	-17.7	1.8103308	1.5199402	24	0	0
NM_001265609	TRAK1	3265	3283	1	-21	-0.78389	-0.371679	18	0	0
NM_014965	TRAK1	3205	3223	1	-21	-0.321967	-0.344568	18	0	0
NM_001251882	VIPR1	2959	2997	1	-21.3	-0.259254	0.1782127	16	0	0
NM_004624	VIPR1	2582	2620	1	-21.3	0.7178086	-0.235986	16	0	0
NM_001251884	VIPR1	2473	2511	1	-21.3	-0.259254	0.1782127	16	0	0
NM_001251883	VIPR1	2219	2257	1	-21.3	-0.259254	0.1782127	16	0	0
XM_024453816	SEC22C	3972	3987	1	-19.1	0	0	15	0	0
NM_001129908	FAM198A	2721	2736	1	-19.7	0.2698938	-0.13814	15	0	0
NM_001204833	ANO10	2009	2025	1	-22.5	1.7524697	3.1849516	16	0	0
NM_001204834	ANO10	1772	1788	1	-22.5	3.872543	2.4315923	16	0	0
NM_001204831	ANO10	2345	2361	1	-22.5	3.872543	2.4315923	16	0	0
NM_147129	ALS2CL	3225	3238	1	-22.6	3.0673701	2.519561	13	0	0
NM_014159	SETD2	8026	8050	1	-20	2.4604783	2.3888	17	1	1
NM_001272066	SHISA5	1790	1805	1	-20.8	0.3719099	0.0579729	15	0	0
NM_001272065	SHISA5	1803	1818	1	-20.8	-0.138217	0.3777039	15	0	0
NM_001272082	SHISA5	1679	1694	1	-20.8	2.0944821	1.9255836	15	0	0
NM_001006115	IP6K1	3065	3115	1	-21.4	1.8310839	1.2247627	16	0	0
NM_144499	GNAT1	1727	1743	1	-18.7	0.0637127	0.3636076	16	0	0
NM_153215	LSMEM2	602	615	1	-18.4	-0.448058	0.057142	13	0	0
NM_015106	RAD54L2	5505	5553	1	-23	0.75636	0.508985	35	0	0
NM_001322256	RAD54L2	5443	5491	1	-23	0.75636	0.508985	35	0	0

NM_001204094	MOB4	3172	3185	1	-18.3	0.0805826	0.1445547	13	0	0
NM_001354640	LMLN2	2541	2571	1	-18.8	0.1692747	0.4318678	12	0	0
NM_004050	BCL2L2	2611	2631	1	-21.5	1.7731552	1.2052826	20	0	0
NM_001146028	JPH4	2756	2770	1	-17.7	2.5655418	2.2835727	14	0	0
NM_025081	NYNRIN	6214	6257	1	-22.4	0.2258589	0.0285085	16	0	0
NM_015299	KHNYN	3197	3218	1	-21.5	0.3367006	0.710654	21	0	0
NM_001290257	KHNYN	3069	3090	1	-21.5	0.3367006	0.710654	21	0	0
NM_001304476	STXBP6	3237	3265	1	-16.7	3.7737912	4.9563337	11	1	1
NM_001308103	EGLN3	521	540	1	-18.5	0.2275118	0.0977135	19	0	0
NM_001354154	MIA2	3143	3161	1	-18.5	0.0848284	0.0157042	18	1	1
XM_017021377	GNG2	3915	3931	1	-18.6	0	0	16	1	1
XM_011536846	GNG2	3214	3230	1	-18.6	0	0	16	1	1
XM_017021376	GNG2	3978	3994	1	-18.6	0	0	16	1	1
NM_053064	GNG2	3676	3692	1	-18.6	0	0	16	1	1
NM_001243774	GNG2	3635	3651	1	-18.6	0	0	16	1	1
NM_144578	MAPK1IP1L	2185	2218	1	-19.8	0.4140236	0.1949481	33	1	1
NM_019099	FAM212B	2892	2911	1	-21.5	0.2429972	-0.436126	19	0	0
NM_015836	WARS2	1351	1399	1	-19.8	0.2176302	0.190499	25	0	0
NM_024408	NOTCH2	####	11016	1	-19.9	2.9640761	2.3497028	12	0	0
NM_001329984	SRGAP2C	5065	5087	1	-21.3	0.1385513	-0.062165	17	0	0
NM_173638	NBPF15	3103	3123	1	-19.8	0.0644524	0.0629503	20	0	0
NM_153713	LIX1L	3761	3777	1	-17	1.6370513	1.5115175	16	0	0
NM_032305	POLR3GL	898	914	1	-18.2	-0.535509	-0.024626	16	0	0
NM_203458	NOTCH2NL	1777	1803	1	-21.3	0.0231845	0.0037208	26	0	0
NM_001145415	SETDB1	4210	4229	1	-20.7	0.3693512	0.5121987	19	0	0
NM_012432	SETDB1	4207	4226	1	-20.7	0.3693512	0.5121987	19	0	0
NM_021222	PRUNE1	2647	2661	1	-19.6	0.9133225	0.6616757	14	0	0
NM_001303229	PRUNE1	2444	2458	1	-19.6	0.9133225	0.6616757	14	0	0
XM_017001956	PRUNE1	2245	2259	1	-19.6	0	0	14	0	0
XM_011509832	PRUNE1	2336	2350	1	-19.6	0	0	14	0	0
XM_005245393	PRUNE1	2482	2496	1	-19.6	0	0	14	0	0
NM_020239	CDC42SE1	2799	2841	1	-22.6	-0.031717	0.2178921	23	0	0
NM_001258289	SELENBP1	1838	1856	1	-22.2	0.2258974	-0.13483	18	0	0
NM_014988	LIMCH1	4516	4538	1	-19.8	0.4801902	0.4991136	16	0	0
NM_014988	LIMCH1	3512	3525	1	-18	0.6888467	0.5912089	13	0	0
NM_001112717	LIMCH1	4438	4460	1	-19.8	0.4801902	0.4991136	16	0	0
NM_001112717	LIMCH1	3434	3447	1	-18	0.6888467	0.5912089	13	0	0
NM_001112718	LIMCH1	4435	4457	1	-19.8	0.4801902	0.4991136	16	0	0
NM_001112718	LIMCH1	3431	3444	1	-18	0.6888467	0.5912089	13	0	0
NM_001330784	LIMCH1	4207	4229	1	-19.8	0.4801902	0.4991136	16	0	0
NM_001330784	LIMCH1	3203	3216	1	-18	0.6888467	0.5912089	13	0	0
NM_001289122	LIMCH1	4474	4496	1	-19.8	0.4801902	0.4991136	16	0	0
NM_001330786	LIMCH1	3147	3160	1	-18	1.2719158	1.0202048	13	0	0
NM_001330793	LIMCH1	3203	3216	1	-18	1.2719158	1.0202048	13	0	0
NM_001112719	LIMCH1	3125	3138	1	-18	1.2719158	1.0202048	13	0	0
NM_001029955	DCAF4L1	4000	4022	1	-18.3	0.3698495	0.0114838	22	0	0
NM_006345	SLC30A9	2596	2615	1	-17.3	0.3881318	0.8189175	19	1	0
NM_198353	KCTD8	1771	1798	1	-20.3	1.3844467	2.5841798	27	0	0
NM_020846	SLAIN2	2867	2911	1	-20.3	0.6103525	1.3963358	17	0	0
NM_020722	KIAA1211	5784	5799	1	-17.3	0.4249898	0.4381626	15	0	0
XM_011534397	KIAA1211	6533	6548	1	-17.3	0	0	15	0	0
XM_017008473	KIAA1211	5520	5535	1	-17.3	0	0	15	0	0

XM_017007940	ADGRL3	4390	4432	1	-20.2	0	0	15	0	0
XM_017007941	ADGRL3	4363	4405	1	-20.2	0	0	15	0	0
XM_005265653	EPHA5	5167	5186	1	-19.1	0	0	19	0	0
NM_001301239	UGT2A1	1519	1564	1	-16.3	2.6796256	2.7668786	22	0	0
NM_002092	GRSF1	6335	6346	1	-18.7	0.3138427	0.1685528	11	0	0
NM_001278538	RCHY1	1884	1911	1	-21.5	0.0024906	0.1379678	17	1	1
NM_001278537	RCHY1	1781	1808	1	-21.5	-0.10627	-0.0857	17	1	1
NM_001278537	RCHY1	831	851	1	-18.1	0.179866	0.100037	20	1	1
NM_001278536	RCHY1	1808	1835	1	-21.5	-0.314333	0.0332862	17	1	1
NM_001278536	RCHY1	858	878	1	-18.1	0.0675557	-0.097526	20	1	1
NM_001009922	RCHY1	1901	1928	1	-21.5	-0.021153	0.1048074	17	1	1
NM_001009922	RCHY1	951	971	1	-18.1	0.0369268	-0.047561	20	1	1
NM_015436	RCHY1	1928	1955	1	-21.5	0.2389248	0.224444	17	1	1
NM_003948	CDKL2	2896	2955	1	-20.1	0.3733996	1.4996451	23	0	0
NM_001330724	CDKL2	3127	3186	1	-20.1	0.3733996	1.4996451	23	0	0
NM_203505	G3BP2	2615	2629	1	-19.6	3.4214875	3.8065813	14	1	1
NM_001204255	SCARB2	1468	1497	1	-19.6	0.182707	0.0270693	16	0	0
NM_005506	SCARB2	1897	1926	1	-19.6	0.3038683	0.3052046	16	0	0
NM_001288996	LIN54	5212	5230	1	-18.4	2.3642461	3.1482728	18	0	1
NM_194282	LIN54	5479	5497	1	-18.4	2.3642461	3.1482728	18	0	1
NM_000497	CYP11B1	2681	2711	1	-22.9	-0.064782	1.0263855	30	0	0
NM_173832	ZFP41	4590	4606	1	-19	-0.615903	-0.670219	16	0	0
NM_023080	C8orf33	1123	1141	1	-18.2	-0.320792	-0.10593	18	0	0
NM_021951	DMRT1	1936	1954	1	-17.1	0.7697972	0.6948377	18	0	0
NM_014143	CD274	3058	3076	1	-24.6	0.1704164	0.0679064	18	0	0
NM_014143	CD274	2156	2175	1	-20.5	-0.236667	0.0080128	19	0	0
NM_001267706	CD274	2716	2734	1	-24.6	0.3743871	0.1819647	18	0	0
NM_001267706	CD274	1814	1833	1	-20.5	0.0178671	-0.060339	19	0	0
NM_152896	UHRF2	3171	3187	1	-19.7	0.8770607	1.7677595	16	0	0
XM_024447425	TTC39B	2715	2739	1	-21.8	0	0	24	0	1
NM_173550	CCDC171	4946	4962	1	-21.3	4.6714567	5.0043818	16	1	0
NM_001317939	BNC2	####	11218	1	-24.7	3.8208975	4.1131169	20	1	1
NM_017637	BNC2	####	11288	1	-24.7	5.4133836	5.2242307	20	1	1
NM_002451	MTAP	3643	3663	1	-20.9	-0.570813	0.0113514	20	0	0
NM_001351472	ELAVL2	3412	3451	1	-18.7	5.9399688	5.0281559	22	0	0
NM_004432	ELAVL2	3415	3454	1	-18.7	5.3978808	5.1321	22	0	0
NM_001351475	ELAVL2	3130	3169	1	-18.7	5.3600091	5.9183298	22	0	0
NM_001171197	ELAVL2	3147	3168	1	-18.3	6.4708594	5.5482455	21	0	0
NM_001195250	APTX	1563	1601	1	-21.3	1.8303049	1.5137924	18	0	0
NM_001195252	APTX	1509	1547	1	-21.3	4.7740244	3.6725199	18	0	0
NM_001195248	APTX	1725	1763	1	-21.3	4.7740244	3.6725199	18	0	0
NM_175069	APTX	1761	1799	1	-21.3	4.7740244	3.6725199	18	0	0
NM_175073	APTX	1831	1869	1	-21.3	4.2421052	3.5441045	18	0	0
NM_001195254	APTX	1585	1623	1	-21.3	0.673183	2.183924	18	0	0
NM_173519	CLVS1	2054	2103	1	-18.7	0.8791781	0.7728012	19	0	0
NM_024798	SNX22	2137	2172	1	-20.9	2.5189067	2.0408372	14	1	0
XM_011521660	RASL12	2054	2066	1	-17.9	0	0	12	0	0
NM_017743	DPP8	3887	3900	1	-20.7	1.8680156	1.7959139	13	0	0
NM_130434	DPP8	4187	4200	1	-20.7	0.6199747	0.5572491	13	0	0
NM_197961	DPP8	4170	4183	1	-20.7	0.8721698	0.5203899	13	0	0
NM_197960	DPP8	4228	4241	1	-20.7	0.8075035	0.9452419	13	0	0
NM_005744	ARIH1	3832	3853	1	-19.7	1.573575	2.2293499	21	0	0

NM_001038640	GOLGA6A	2845	2860	1	-18.9	3.3129161	2.5811619	15	0	0
NM_003992	CLK3	1764	1781	1	-19.1	1.6363076	2.9150874	17	1	1
NM_001130028	CLK3	2614	2631	1	-19.1	1.6363076	2.9150874	17	1	1
NM_198902	TSPAN3	2665	2679	1	-17.4	0.8417904	-0.004788	14	0	0
NM_006441	MTHFS	876	927	1	-19	0.0796227	-0.046906	20	0	1
NM_015154	MESD	2966	3003	1	-22.1	-0.843896	-0.849457	31	0	0
NM_015154	MESD	2552	2568	1	-20.2	-0.306913	0.1835813	16	0	0
NM_172217	IL16	5750	5769	1	-21.5	0.1214093	-0.234205	19	0	0
NM_172217	IL16	5641	5658	1	-19.8	-0.140049	-0.077797	17	0	0
NM_001172128	IL16	5732	5751	1	-21.5	0.1214093	-0.234205	19	0	0
NM_001172128	IL16	5623	5640	1	-19.8	-0.140049	-0.077797	17	0	0
NM_004513	IL16	3487	3506	1	-21.5	-0.213195	-0.168062	19	0	0
NM_004513	IL16	3346	3395	1	-20	-0.202301	-0.029552	18	0	0
NM_001080532	TMC3	4144	4164	1	-18.5	4.0161369	4.2675297	20	0	0
NM_001011885	BTBD1	1497	1508	1	-18.9	1.1522233	1.1930843	11	0	1
NM_212469	CHKA	2264	2275	1	-17.5	0.9523138	0.6451075	11	0	0
NM_001277	CHKA	2318	2329	1	-17.5	0.9523138	0.6451075	11	0	0
XM_005274035	KMT5B	4052	4072	1	-21.6	0	0	20	0	0
NM_017635	KMT5B	4106	4126	1	-21.6	3.0314237	3.3720483	20	0	0
NM_152476	ZNF560	2586	2605	1	-21	-0.111982	0.0227531	19	0	0
XM_005259847	C19orf38	1068	1113	1	-22.7	0	0	23	0	0
NM_001136482	C19orf38	894	939	1	-22.7	0.1752758	-0.110871	23	0	0
NM_052876	NACC1	4423	4446	1	-19.2	2.8079359	1.2195879	23	1	1
NM_001128932	CYP4F11	2050	2060	1	-17.3	0.5253228	1.0946233	10	0	0
NM_003290	TPM4	2148	2164	1	-17.5	0.8394401	1.4774619	16	0	0
NM_024881	SLC35E1	1845	1863	1	-20.1	-0.537011	-0.238005	18	0	0
NM_130766	INPP5K	2740	2786	1	-25.6	0.733894	0.4992386	21	0	0
NM_001135642	INPP5K	2899	2945	1	-25.6	0.733894	0.4992386	21	0	0
NM_145350	SCARF1	2693	2705	1	-21.8	1.0847858	1.4084722	12	0	0
NM_003693	SCARF1	2730	2742	1	-21.8	1.0847858	1.4084722	12	0	0
NM_001282430	LBX2	961	978	1	-18	3.434523	0.7019455	17	0	0
NM_024993	LRRTM4	3209	3227	1	-18.1	3.7073165	1.9915123	18	0	0
NM_001307978	TRABD2A	3143	3162	1	-17.9	3.8254657	3.3939906	19	0	0
NM_020122	KCMF1	3425	3447	1	-23.3	0.5232485	1.0379202	22	0	0
NM_001013649	C2orf68	3551	3576	1	-17.9	0.1180551	0.2769905	25	0	0
NM_001354229	ST3GAL5	2110	2148	1	-24.6	0.0872247	0.2948222	38	0	0
NM_003896	ST3GAL5	1979	2017	1	-24.6	0.0416492	0.0597943	38	0	0
XM_017005202	ST3GAL5	1959	1997	1	-24.6	0	0	38	0	0
NM_015425	POLR1A	7231	7262	1	-21.8	4.0888012	2.085374	31	0	0
NM_001164732	REEP1	3203	3241	1	-19.6	0.7898568	2.4761117	18	1	1
NM_001032392	PLGLB1	1871	1885	1	-20.8	0.0164982	0.0352004	14	0	0
NM_002665	PLGLB2	1875	1889	1	-20.8	-0.085979	-0.00762	14	0	0
NM_032788	ZNF514	1786	1803	1	-20	-0.162845	0.2595705	17	0	0
NM_000682	ADRA2B	2387	2405	1	-22	0.8146352	0.4290319	18	0	0
NM_020184	CNNM4	3895	3926	1	-21.6	-0.520805	-0.000274	19	0	0
NM_182911	TSGA10	2945	2962	1	-19.8	2.170257	2.399627	17	0	0
NM_001349012	TSGA10	2583	2600	1	-19.8	3.1868898	3.0136453	17	0	0
XM_017003147	TXNDC9	1135	1173	1	-19.4	0	0	15	0	0
NM_198461	LONRF2	####	12719	1	-19.7	1.534125	0.5937375	19	0	1
NM_000877	IL1R1	2990	3031	1	-18.7	0.0801236	-0.295638	13	0	0
NM_001301778	SS18L1	1583	1598	1	-19.5	0.6905525	1.442113	15	1	0
NM_001301778	SS18L1	2800	2819	1	-18.7	-0.151085	-0.13773	19	1	0

NM_198935	SS18L1	1478	1493	1	-19.5	0.6905525	1.442113	15	1	0
NM_198935	SS18L1	2695	2714	1	-18.7	-0.151085	-0.13773	19	1	0
NM_000744	CHRNA4	4052	4072	1	-24.4	1.0264182	0.606958	20	0	0
XM_011528811	KCNQ2	2952	2970	1	-22.8	0	0	18	0	0
NM_172108	KCNQ2	2891	2909	1	-22.8	-0.799733	-0.679332	18	0	0
NM_172106	KCNQ2	2930	2948	1	-22.8	-0.458044	-0.457381	18	0	0
NM_172107	KCNQ2	2984	3002	1	-22.8	-0.128137	-0.22306	18	0	0
NM_001330065	KCNE1B	2880	2897	1	-20.6	0.0794638	0.1233357	17	0	0
NM_175085	GART	1854	1876	1	-20.6	2.1334036	3.4383353	22	0	0
NM_032476	MRPS6	872	887	1	-17.8	0.133	0.19865	15	0	0
NM_006933	SLC5A3	8487	8508	1	-19.1	0.7566448	0.3903113	21	0	0
NM_000219	KCNE1	3227	3244	1	-20.6	0.1198784	0.1505273	17	0	0
NM_000219	KCNE1	2637	2657	1	-19.7	1.4657803	1.3941073	20	0	0
NM_001270404	KCNE1	2891	2908	1	-20.6	0.7630588	0.1281857	17	0	0
NM_001270404	KCNE1	2301	2321	1	-19.7	0.2718198	0.1493977	20	0	0
NM_001270402	KCNE1	3002	3019	1	-20.6	-0.278011	-0.446446	17	0	0
NM_001270402	KCNE1	2412	2432	1	-19.7	-0.12265	-0.103606	20	0	0
NM_001270403	KCNE1	2950	2967	1	-20.6	-0.30314	0.1023073	17	0	0
NM_001270403	KCNE1	2360	2380	1	-19.7	-0.095445	0.1194725	20	0	0
NM_001270405	KCNE1	2803	2820	1	-20.6	2.9196899	1.9261844	17	0	0
NM_001127669	KCNE1	2811	2828	1	-20.6	1.0699951	1.9924182	17	0	0
NM_001127668	KCNE1	2839	2856	1	-20.6	-0.117364	1.270311	17	0	0
NM_001127670	KCNE1	3076	3093	1	-20.6	-0.229398	-0.319264	17	0	0
XM_024452141	ABCG1	3968	3987	1	-26.2	0	0	19	0	0
NM_018669	WDR4	1677	1712	1	-20.7	4.5324909	2.6717269	20	0	0
XM_011529447	HSF2BP	1156	1169	1	-20.4	0	0	13	0	0
NM_001271440	C21orf2	1663	1685	1	-19.5	3.3358858	2.6855209	22	0	0
NM_001271441	C21orf2	2023	2045	1	-19.5	3.3358858	2.6855209	22	0	0
NM_004928	C21orf2	1666	1688	1	-19.5	3.3358858	2.6855209	22	0	0
NM_014339	IL17RA	7727	7778	1	-18.8	-0.423521	-0.016189	20	0	0
NM_001163079	TMEM121B	3332	3346	1	-18.1	2.707236	1.8265311	14	0	0
NM_031890	TMEM121B	4396	4410	1	-18.1	-0.018849	0.3614596	14	0	0
NM_001290046	CECR2	6471	6489	1	-20.2	-0.348783	-0.418258	18	0	0
NM_001290047	CECR2	6943	6961	1	-20.2	-0.15533	-0.422211	18	0	0
NM_001270734	BCL2L13	873	889	1	-20	4.3845394	3.7039727	16	0	0
NM_001270732	BCL2L13	860	876	1	-20	4.3845394	3.7039727	16	0	0
NM_001270735	BCL2L13	716	732	1	-20	4.3845394	3.7039727	16	0	0
NM_001270728	BCL2L13	752	768	1	-20	4.3845394	3.7039727	16	0	0
NM_017414	USP18	1769	1790	1	-19	0.3670665	-0.236774	21	0	0
NM_024627	RTL10	3659	3675	1	-20.7	-0.194994	-0.154222	16	0	0
NM_001352300	TXNRD2	2968	2987	1	-25.7	3.6287181	2.9011714	19	0	0
NM_001352303	TXNRD2	1538	1560	1	-20	4.9064501	3.2914212	22	0	0
NM_004327	BCR	6147	6164	1	-19.1	0.3157224	-0.060316	17	0	0
NM_021574	BCR	6015	6032	1	-19.1	0.3157224	-0.060316	17	0	0
NM_001355	DDT	535	556	1	-24.6	0	0	21	0	0
NM_001355	DDT	496	517	1	-22.4	0	0	21	0	0
NM_001084392	DDT	484	505	1	-24.6	1.3216459	2.1508644	21	0	0
NM_004175	SNRPD3	1902	1917	1	-18.2	-0.068575	-0.115278	15	0	0
NM_001349896	HPS4	3976	3995	1	-21.4	2.5745593	3.051561	19	0	0
NM_022081	HPS4	4067	4086	1	-21.4	1.4722902	2.2926657	19	0	0
NM_022081	HPS4	3663	3683	1	-19.1	-0.408165	0.3279855	20	0	0
NM_152841	HPS4	3684	3703	1	-21.4	1.0965768	0.7101762	19	0	0

NM_019886	CHST7	1933	1954	1	-18.6	0	0	21	1	1
NM_006915	RP2	3215	3256	1	-17.7	0	0	17	0	1
NM_006743	RBM3	1195	1217	1	-21	0	0	16	0	0
NM_024859	MAGIX	2031	2051	1	-19.1	0	0	20	0	0
NM_001099681	MAGIX	1803	1823	1	-19.1	0	0	20	0	0
NM_001099682	MAGIX	1788	1808	1	-19.1	0	0	20	0	0
NM_001013742	DGKK	6612	6627	1	-20.6	0	0	15	0	0
NM_007250	KLF8	2077	2112	1	-18.7	0	0	16	0	0
NM_001159296	KLF8	1525	1560	1	-18.7	0	0	16	0	0
NM_001324099	KLF8	1061	1096	1	-18.7	0	0	16	0	0
NM_001319967	NLRP2B	477	512	1	-20.4	0	0	20	0	0
NM_001319967	NLRP2B	2700	2718	1	-18.2	0	0	18	0	0
NM_138737	HEPH	4309	4347	1	-20.7	0	0	14	0	0
NM_001130860	HEPH	4219	4257	1	-20.7	0	0	14	0	0
NM_001282141	HEPH	3646	3684	1	-20.7	0	0	14	0	0
NM_014799	HEPH	4042	4080	1	-20.7	0	0	14	0	0
NM_002547	OPHN1	5367	5381	1	-18	0	0	14	0	0
NM_015686	FAM155B	3046	3061	1	-18.7	0	0	15	0	0
NM_001399	EDA	1947	1969	1	-26.4	0	0	22	0	0
NM_001005609	EDA	1941	1963	1	-26.4	0	0	22	0	0
NM_001005612	EDA	1932	1954	1	-26.4	0	0	22	0	0
NM_052957	GCNA	2639	2655	1	-22.3	0	0	16	0	0
XM_006724716	GCNA	2192	2208	1	-22.3	0	0	16	0	0
NM_001007	RPS4X	891	906	1	-17.6	0	0	15	0	0
NM_152338	ZG16	803	821	1	-18.9	-0.635556	0.1672271	18	0	0
NM_001142305	ZNF771	1348	1383	1	-21.5	-0.576667	-0.497753	21	0	0
NM_001308301	MYLK3	6982	6996	1	-18.6	1.4616488	1.1624157	14	0	0
NM_182493	MYLK3	7801	7815	1	-18.6	2.4434471	1.5353737	14	0	0
NM_001348660	C16orf87	5931	5947	1	-21.2	2.2413749	2.5785126	16	0	0
NM_001001436	C16orf87	6114	6130	1	-21.2	1.3008154	0.8616801	16	0	0
NM_153337	SNX20	2721	2743	1	-22.2	-0.115848	0.0678805	13	0	0
XM_017022979	CYLD	8008	8033	1	-20.3	0	0	17	0	0
NM_005611	RBL2	4518	4535	1	-21.7	1.0994038	1.2099133	17	1	1
NM_015993	PLLP	934	953	1	-18.8	3.1482133	2.1373642	19	0	0
NM_001331037	GPBP1	3026	3046	1	-19	4.2597526	3.4355263	20	1	1
NM_022913	GPBP1	4398	4418	1	-18.1	0.2601434	0.0206914	20	1	1
NM_001203246	GPBP1	2831	2851	1	-19	4.2597526	3.4355263	20	1	1
NM_001127235	GPBP1	2663	2683	1	-19	4.2597526	3.4355263	20	1	1
NM_001127236	GPBP1	1755	1775	1	-19	4.2597526	3.4355263	20	1	1
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NM_020726	NLN	2296	2312	1	-18.8	1.0444958	1.9697736	16	0	0
XM_005248542	PIK3R1	3993	4009	1	-19.6	0	0	16	0	0
NM_181523	PIK3R1	3970	3986	1	-19.6	2.1594625	1.867106	16	0	0
NM_181504	PIK3R1	2670	2686	1	-19.6	2.7418178	1.3972598	16	0	0
NM_001242466	PIK3R1	2533	2549	1	-19.6	2.1508967	1.7034252	16	0	0
XM_005248445	MARVELD2	2572	2588	1	-26.1	0	0	16	0	0
NM_032175	UTP15	3899	3917	1	-23	-0.27373	-0.059817	18	0	0
NM_001284430	UTP15	3842	3860	1	-23	-0.308894	-0.090585	18	0	0
NM_001284431	UTP15	3726	3744	1	-23	-0.308894	-0.090585	18	0	0
XM_011543696	ENC1	4255	4310	1	-21.5	0	0	23	1	1
NM_001130105	COL4A3BP	4879	4900	1	-18.2	3.358597	5.0752523	21	1	0
NM_031361	COL4A3BP	4702	4723	1	-18.2	0.5759878	0.5832705	21	1	0

NM_005713	COL4A3BP	4780	4801	1	-18.2	0.8474646	0.7709871	21	1	0
NM_016218	POLK	5754	5793	1	-19.1	-0.002337	0.1512637	18	0	0
NM_014979	SV2C	####	10319	1	-20	-0.009709	0.7050946	16	0	0
XM_024454324	LHFPL2	5706	5746	1	-22.6	0	0	40	1	1
XM_011543393	ARSB	1373	1395	1	-17.3	0	0	15	1	1
NM_001202485	HSPE1-MOB4	3722	3735	1	-18.3	0.2697759	0.0733656	13	0	0
NM_199482	MOB4	3228	3241	1	-18.3	1.0458578	0.1800801	13	0	0
XM_005246516	AGFG1	3137	3161	1	-19	0	0	24	0	0
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NM_024409	NPPC	613	638	1	-19.3	2.8991026	2.058333	25	0	0
NM_030803	ATG16L1	2133	2165	1	-20.9	0	0	16	0	0
NM_017974	ATG16L1	2076	2108	1	-20.9	0.5532861	-0.242665	16	0	0
NM_198890	ATG16L1	1644	1676	1	-20.9	-0.29905	-0.418213	16	0	0
XM_005246086	ATG16L1	1609	1641	1	-20.9	0	0	16	0	0
XM_011510933	SNED1	4321	4340	1	-23.2	0	0	19	0	0
NM_001080437	SNED1	6949	6963	1	-20.3	-0.291414	-0.354439	14	0	0
XM_017003387	MTERF4	2675	2691	1	-21.9	0	0	16	0	0
NM_203346	HDLBP	4549	4568	1	-23.6	4.4434739	5.71309	19	0	0
NM_012145	DTYMK	990	1024	1	-27.7	2.0835587	1.0939707	20	0	0
NM_001320904	DTYMK	933	967	1	-27.7	2.0835587	1.0939707	20	0	0
NM_001256748	SSUH2	1271	1286	1	-17	1.5906168	1.7648741	15	0	0
NM_020165	RAD18	3260	3272	1	-19.3	0.1210729	0.0313044	12	0	0
NM_001033117	SRGAP3	8524	8579	1	-23.5	1.1210882	0.6235643	16	1	1
NM_014850	SRGAP3	8596	8651	1	-23.5	1.1210882	0.6235643	16	1	1
NM_001292043	SETD5	6737	6765	1	-18.5	1.1186452	2.4823935	28	0	0
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NM_001198793	ARPC4-TLL3	3616	3634	1	-19.3	0.0924756	-0.280536	18	0	0
NM_001142547	RPUSD3	1172	1205	1	-18.5	-1.965178	-0.340512	18	0	0
NM_173659	RPUSD3	1217	1250	1	-18.5	-1.965178	-0.340512	18	0	0
NM_001351738	RPUSD3	1245	1278	1	-18.5	-1.965178	-0.340512	18	0	0
NM_153483	IL17RE	2211	2227	1	-18.6	-0.380409	-0.500806	16	0	0
NM_001193380	IL17RE	2265	2281	1	-18.6	-0.365277	-0.556985	16	0	0
NM_153480	IL17RE	2192	2208	1	-18.6	-0.365277	-0.556985	16	0	0
NM_001122681	SH3BP2	6239	6265	1	-22.7	0.1215896	-0.050053	17	0	0
NM_001145855	SH3BP2	6382	6408	1	-22.7	-0.343493	-0.018031	17	0	0
NM_002337	LRPAP1	5825	5843	1	-18.5	0.2488351	0.3046622	18	0	0
NM_152293	TADA2B	3515	3541	1	-21.2	0.4053031	0.2738552	19	0	0
NM_001177384	CPEB2	3990	4042	1	-21.7	0	0	23	1	1
NM_182485	CPEB2	4071	4123	1	-21.7	0	0	23	1	1
NM_001177383	CPEB2	4005	4057	1	-21.7	0	0	23	1	1
NM_182646	CPEB2	3981	4033	1	-21.7	0	0	23	1	1
NM_031911	C1QTNF7	1843	1887	1	-22.6	-0.335841	0.0877892	22	0	0
NM_022346	NCAPG	3918	3937	1	-20.3	0.2477439	0.3601526	19	0	0
NM_013261	PPARGC1A	4645	4680	1	-22.9	4.0159295	4.1017404	19	1	1
NM_001354828	PPARGC1A	1082	1117	1	-20.6	-0.362041	-0.009525	20	1	1
NM_003102	SOD3	1477	1501	1	-20.1	0	0	24	0	0
NM_001170700	DTHD1	2570	2591	1	-17.9	2.4344056	1.675678	16	0	0
XM_011513670	TBC1D1	2378	2422	1	-23.9	0	0	17	0	0
NM_016531	KLF3	5354	5370	1	-18	0.2056314	0.1760664	16	1	1
NM_001317896	SMIM14	3208	3239	1	-22.8	-0.030635	0.0128471	23	0	0
NM_001278368	RHOH	1417	1465	1	-20.7	0.1939057	0.2272943	24	0	0

NM_001278364	RHOH	1608	1656	1	-20.7	0.1559638	-0.167113	24	0	0
NM_001278367	RHOH	1246	1294	1	-20.7	0.1559638	-0.167113	24	0	0
NM_001278369	RHOH	1253	1301	1	-20.7	0.1559638	-0.167113	24	0	0
NM_018994	FBXO42	6027	6051	1	-20.5	0.8178792	1.8052252	24	0	0
NM_001114600	SZRD1	3483	3500	1	-18.3	0	0	17	0	0
NM_001271869	SZRD1	3480	3497	1	-18.3	0	0	17	0	0
NM_012387	PADI4	2064	2083	1	-19.1	0	0	19	0	0
NM_001136265	IFFO2	3631	3654	1	-20.4	0.9916456	0.9257259	23	0	0
NM_001204089	MINOS1- NBL1	1049	1076	1	-21.9	0.0709607	-0.053073	22	0	0
NM_182744	NBL1	1085	1112	1	-21.9	0.093011	-0.090283	22	0	0
NM_001278165	NBL1	1133	1160	1	-21.9	0.093011	-0.090283	22	0	0
NM_001204084	NBL1	1157	1184	1	-21.9	0.093011	-0.090283	22	0	0
NM_005380	NBL1	1190	1217	1	-21.9	0.0819852	-0.675996	22	0	0
NM_001204085	NBL1	1075	1102	1	-21.9	0.093011	-0.090283	22	0	0
NM_001204086	NBL1	1184	1211	1	-21.9	0.093011	-0.090283	22	0	0
NM_001278166	NBL1	977	1004	1	-21.9	0.093011	-0.090283	22	0	0
NM_000871	HTR6	2381	2429	1	-21.1	-0.614185	-0.241369	20	0	0
NM_015207	OTUD3	5857	5890	1	-22.1	0.2147686	-0.016208	21	0	0
NM_001271814	PLA2G2D	911	928	1	-21.6	-0.131655	-0.428678	17	0	0
NM_012400	PLA2G2D	1018	1035	1	-21.6	0.1018615	-0.368542	17	0	0
NM_001256416	NBPF3	2722	2742	1	-19.8	-0.224553	-0.006176	20	0	0
NM_032264	NBPF3	2758	2778	1	-19.8	-0.224553	-0.006176	20	0	0
NM_001256417	NBPF3	2548	2568	1	-19.8	-0.224553	-0.006176	20	0	0
XM_017002499	NBPF3	2390	2410	1	-19.8	0	0	20	0	0
NM_004442	EPHB2	9653	9685	1	-22.1	-0.187032	-0.326394	17	1	1
NM_017449	EPHB2	9650	9682	1	-22.1	-0.187032	-0.326394	17	1	1
NM_001309193	EPHB2	9557	9589	1	-22.1	-0.230189	-0.354267	17	1	1
NM_001166059	HMGCL	1234	1270	1	-18	3.7308704	2.6221085	36	0	0
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NM_001322862	NIPAL3	2799	2819	1	-17.9	0.0805707	-0.345784	20	0	0
NM_020448	NIPAL3	2684	2704	1	-17.9	0.2151003	-0.21229	20	0	0
NM_001010980	NCMAP	1431	1471	1	-19.8	-0.125579	0.2128921	17	0	0
NM_001145454	STMN1	1094	1110	1	-18.6	-0.142792	-0.199892	16	0	0
NM_021969	NR0B2	947	962	1	-17.9	1.8570093	2.2194682	15	0	0
NM_001282561	EYA3	3037	3055	1	-18.2	0.1719197	0.1051187	18	0	0
NM_001990	EYA3	3175	3193	1	-18.2	0.3962393	0.2626373	18	0	0
NM_001003682	TMEM200B	1703	1749	1	-21.7	0.9109231	1.1692597	46	0	0
NM_001171868	TMEM200B	1787	1833	1	-21.7	0.6077002	0.7772656	46	0	0
NM_001085454	GIT1	2650	2667	1	-19	3.7678177	4.7844368	17	0	0
NM_001346712	ADAP2	1551	1565	1	-20.9	-0.075618	-0.006224	14	0	0
NM_018404	ADAP2	1533	1547	1	-20.9	-0.119893	0.0837103	14	0	0
NM_001270482	PSMD11	3373	3399	1	-21.8	-0.568855	-0.11354	17	0	0
NM_002815	PSMD11	3252	3278	1	-21.8	-0.568855	-0.11354	17	0	0
NM_005623	CCL8	818	835	1	-18.4	0.4987562	-0.031019	17	0	0
NM_001017368	RFFL	3971	3991	1	-21.4	0.008656	0.5704538	20	1	0
XM_017024578	SLFN14	4250	4270	1	-18.2	0	0	20	0	0
NM_001282	AP2B1	4036	4056	1	-19.4	0.1212311	-0.036137	20	0	0
XM_017024551	SOCS7	6864	6878	1	-19	0	0	14	0	0
NM_198993	STAC2	2251	2270	1	-22.7	2.1560255	2.2503119	19	0	0
NM_133264	WIPF2	5287	5313	1	-26.7	0.5895248	0.6701994	20	1	0
XM_005257083	WIPF2	5289	5315	1	-26.7	0	0	20	1	0

XM_005257083	WIPF2	6934	6965	1	-25.4	0	0	23	1	0
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XM_005257084	WIPF2	6892	6923	1	-25.4	0	0	23	1	0
NM_001301716	CCR7	1913	1935	1	-21.5	2.8844038	2.8730439	22	0	0
NM_001165252	KRTAP2-3	652	664	1	-17	1.6176292	1.6604619	12	0	0
NM_031961	KRTAP9-2	941	953	1	-17.6	0.8860862	0.4775784	12	0	0
NM_001079871	HAP1	2526	2542	1	-20.9	0.6028071	-0.043219	16	0	0
NM_177977	HAP1	2601	2617	1	-20.9	0.7573312	0.4428719	16	0	0
NM_001079870	HAP1	2550	2566	1	-20.9	0.4972208	0.0631271	16	0	0
NM_002230	JUP	3381	3396	1	-17.4	1.2017504	1.594337	15	0	0
NM_033133	CNP	3365	3382	1	-19.9	0.1743444	-0.165446	17	0	0
NM_175075	TDRP	1797	1815	1	-20.5	0.2875575	0.4705764	18	0	0
XM_006716232	TDRP	1777	1795	1	-20.5	0	0	18	0	0
NM_001346810	DLGAP2	8252	8268	1	-20.5	-0.344008	-0.155022	16	1	0
NM_178857	RP1L1	7626	7650	1	-19.8	4.127827	2.348417	20	0	0
NM_020844	TRMT9B	4201	4217	1	-19.5	0.1826936	0.246831	16	0	0
NM_001322879	SGCZ	4882	4937	1	-20	0.9878499	2.0980707	20	0	1
NM_139167	SGCZ	4984	5039	1	-20	2.4945643	2.0819298	20	0	1
NM_006765	TUSC3	2767	2813	1	-22.8	0.4269814	0.0939118	18	0	0
NM_178234	TUSC3	2702	2748	1	-22.8	0.0546138	0.0754	18	0	0
NM_138716	MSR1	2789	2814	1	-18.8	0.8196312	0.6925995	25	0	0
NM_138715	MSR1	2978	3003	1	-18.8	0.8575179	0.5532055	25	0	0
NM_001330470	MTUS1	2685	2698	1	-15.3	1.4921477	2.5210958	13	0	0
XM_024447113	PSD3	7741	7767	1	-20.6	0	0	26	1	1
NM_206909	PSD3	4842	4868	1	-20.6	-0.319013	-0.426343	26	1	1
NM_015024	XPO7	4739	4760	1	-20.8	2.5208045	2.835121	21	0	0
NM_015024	XPO7	4343	4360	1	-19.9	2.9114448	1.4845905	17	0	0
NM_001013842	C8orf58	1447	1474	1	-27.1	1.0083779	-0.10213	27	1	1
NM_173686	C8orf58	1423	1450	1	-27.1	1.0083779	-0.10213	27	1	1
NM_001198827	C8orf58	1340	1367	1	-27.1	1.0804795	-0.127984	27	1	1
NM_006158	NEFL	2218	2257	1	-20.7	2.0088578	2.5322923	20	0	1
NM_007257	PNMA2	2646	2684	1	-23.8	0.4090523	0.0351385	20	1	1
NM_000680	ADRA1A	2954	2975	1	-20.3	0.5872909	-0.236125	21	0	0
NM_001017420	ESCO2	2866	2881	1	-18.6	0.1340825	0.1600317	15	0	0
NM_173833	SCARA5	3412	3437	1	-19.5	2.2962276	2.6307373	25	0	0
NM_024567	HMBOX1	2822	2869	1	-19.1	1.7640394	1.6417935	20	0	0
NM_001324382	HMBOX1	2648	2695	1	-19.1	1.6814414	1.6599652	20	0	0
NM_002095	GTF2E2	1596	1648	1	-20.5	0.1678273	0.0673451	34	0	0
NM_013357	PURG	1872	1890	1	-19.9	1.7350246	1.9598757	18	0	0
XM_011544512	NRG1	8416	8433	1	-19.2	0	0	17	0	0
NM_080872	UNC5D	7507	7541	1	-21.5	2.653211	1.6938627	34	0	0
NM_007175	ERLIN2	1632	1667	1	-19.9	1.1398897	-0.038409	35	1	0
NM_024793	CLUAP1	835	848	1	-18.8	0.2278209	1.7510646	13	0	0
NM_178844	NLRC3	4557	4577	1	-21.2	2.7525028	3.8767914	20	0	0
NM_001193452	NUDT16L1	783	805	1	-22.1	-0.394519	-0.186059	22	0	0
NM_032349	NUDT16L1	713	735	1	-22.1	-0.394519	-0.186059	22	0	0
NM_019109	ALG1	1825	1861	1	-17.8	-0.307748	-0.462519	15	0	0
XM_017023458	ALG1	1947	1983	1	-17.8	0	0	15	0	0
NM_001330504	ALG1	1632	1668	1	-17.8	0.0589568	-0.514289	15	0	0
NM_000303	PMM2	1355	1367	1	-18.5	-0.949324	-0.303814	12	0	0
NM_001042476	CARHSP1	1203	1222	1	-19.3	-0.244941	-0.030848	16	0	0
NM_001278263	CARHSP1	862	904	1	-19.3	-0.015787	-0.043657	16	0	0

XM_005255229	CARHSP1	849	891	1	-19.3	0	0	16	0	0
NM_000833	GRIN2A	8655	8671	1	-18.7	1.4831498	0.7428662	16	0	0
NM_001134407	GRIN2A	8893	8909	1	-18.7	1.4735699	1.8699929	16	0	0
NM_001136472	LITAF	1690	1720	1	-18	0.8301408	0.5630124	20	0	0
NM_001130007	GSPT1	2850	2873	1	-17.6	1.7977696	0.6911774	23	0	0
NM_001130006	GSPT1	2826	2849	1	-17.6	1.101731	0.7158	23	0	0
NM_002094	GSPT1	2829	2852	1	-17.6	0.8624675	0.651597	23	0	0
NM_001301064	RRN3	2695	2714	1	-18.3	0	0	19	0	0
NM_017668	NDE1	2575	2590	1	-21.9	0.054705	-0.428572	15	0	0
NM_002474	MYH11	6569	6590	1	-22	3.7939768	5.2578628	15	0	0
NM_022844	MYH11	6608	6629	1	-22	3.7939768	5.2578628	15	0	0
NM_001040114	MYH11	6590	6611	1	-22	3.7939768	5.2578628	15	0	0
NM_001040113	MYH11	6629	6650	1	-22	3.6971403	5.1151185	15	0	0
XM_017023241	ABCC1	4912	4944	1	-20.7	0	0	14	0	0
XM_011522497	ABCC1	5110	5142	1	-20.7	0	0	14	0	0
XM_006721052	GPRC5B	1933	1953	1	-24.6	0	0	20	1	1
XM_006721051	GPRC5B	1903	1923	1	-24.6	0	0	20	1	1
NM_001502	GP2	1819	1848	1	-19.7	-0.220068	0.881885	13	0	0
NM_001007240	GP2	1828	1857	1	-19.7	1.4020227	0.920326	13	0	0
NM_001318890	ACSM1	1972	2012	1	-21.9	0.9673824	-0.027064	40	0	0
NM_001288659	METTL9	2773	2798	1	-24.1	0.3488621	0.5877876	20	0	0
NM_016025	METTL9	3116	3141	1	-24.1	0.7661148	0.535136	20	0	0
NM_019116	UBFD1	4491	4529	1	-23	0.0922792	1.0186142	33	0	0
NM_001199743	DCTN5	4261	4290	1	-19.5	-0.236669	0.3410078	21	0	0
NM_032486	DCTN5	4231	4260	1	-19.5	-0.236669	0.3410078	21	0	0
NM_001286051	FAM168A	4246	4257	1	-18.7	0.9363067	0.5065602	11	0	0
NM_015159	FAM168A	4564	4575	1	-18.7	0.5732205	0.1803497	11	0	0
NM_001286050	FAM168A	4591	4602	1	-18.7	0.6299536	0.4441549	11	0	0
NM_001098638	RNF169	3276	3296	1	-21.2	2.5507721	1.9382571	20	0	0
NM_001105539	ZBTB10	7744	7759	1	-18.1	2.7584629	1.8240558	15	0	0
NM_001033723	ZNF704	####	11737	1	-22.8	0.9439628	0.2893881	24	0	0
NM_001033723	ZNF704	9667	9689	1	-22.2	0.0749817	-0.08347	22	0	0
NM_001265612	CNOT1	7721	7741	1	-21.7	6.5386288	5.3660411	20	0	0
NM_016284	CNOT1	7736	7756	1	-21.7	6.5386288	5.3660411	20	0	0
NM_018231	SLC38A7	1963	1996	1	-19.2	-0.231103	-0.055938	13	0	0
NM_001796	CDH8	3574	3605	1	-21.1	-0.133978	-0.062441	22	0	0
NM_001172644	TK2	1628	1668	1	-23.7	-0.37426	-0.17387	21	1	0
NM_001172645	TK2	1649	1689	1	-23.7	-0.078931	-0.133262	21	1	0
NM_004614	TK2	1703	1743	1	-23.7	-0.136713	-0.21536	21	1	0
NM_001271935	TK2	1098	1138	1	-23.7	0.100834	-0.044102	21	1	0
NM_001172643	TK2	1267	1307	1	-23.7	0.0045311	-0.105013	21	1	0
NM_001172643	TK2	3313	3335	1	-22.9	0.2268348	-0.181557	22	1	0
NM_001272050	TK2	1477	1517	1	-23.7	0.0366322	0.1801232	21	1	0
NM_001272050	TK2	3523	3545	1	-22.9	0.2021029	0.1384167	22	1	0
NM_181521	CMTM4	3876	3921	1	-26.6	0.2139816	-0.093731	17	0	0
XM_011522882	CMTM4	3784	3829	1	-26.6	0	0	17	0	0
XM_011523030	CES4A	2110	2133	1	-19.4	0	0	23	0	0
NM_001243650	GFOD2	5041	5057	1	-17.7	4.3744778	3.4733904	16	0	0
NM_001199280	HAS3	3019	3052	1	-22	0.5231959	0.5706481	33	0	0
NM_005652	TERF2	2228	2261	1	-21.7	2.9455419	2.670511	19	0	0
NM_005652	TERF2	2126	2175	1	-19.6	3.0098274	2.0603983	19	0	0
NM_001137675	ATXN1L	6802	6837	1	-19.6	1.5078355	2.3674213	35	0	0

NM_001145666	GLG1	4606	4625	1	-18.9	0.4674542	0.3990382	19	0	0
NM_032268	ZNRF1	3517	3533	1	-19	2.6803204	1.276707	16	0	0
XM_017023793	ZNRF1	2350	2368	1	-19.8	0	0	18	0	0
XM_017022941	TMEM170A	4448	4463	1	-19.3	0	0	15	1	1
NM_001304997	TMEM170A	4547	4562	1	-19.3	2.5223209	3.9842041	15	1	1
NM_012091	ADAT1	4519	4539	1	-23	0.6192805	3.1059568	20	0	0
NM_030629	CMIP	2248	2278	1	-20.7	0.5175122	1.5925362	18	1	0
NM_024731	KLHL36	4312	4331	1	-21.4	0.0123827	-0.546317	19	0	0
NM_001303451	KLHL36	4123	4142	1	-21.4	0.0123827	-0.546317	19	0	0
NM_198491	FAM92B	1329	1360	1	-22.7	3.0799308	2.2506251	16	0	0
NM_002241	KCNJ10	4886	4904	1	-22.8	4.7978983	2.6618437	18	0	0
NM_002241	KCNJ10	2820	2841	1	-20.1	0.1560096	0.360516	21	0	0
NM_005598	NHLH1	2224	2240	1	-18.5	0.1390781	0.2949064	16	0	0
NM_020335	VANGL2	5003	5026	1	-19.7	1.050477	0.7067317	23	0	0
NM_001039711	DEDD	2214	2230	1	-17.6	1.2835115	0.9758824	16	0	0
NM_032998	DEDD	2247	2263	1	-17.6	1.2037058	1.2032927	16	0	0
XM_005245599	DEDD	2291	2307	1	-17.6	0	0	16	0	0
NM_001039712	DEDD	2185	2201	1	-17.6	1.1140346	1.0315855	16	0	0
NM_001184763	UHMK1	7758	7780	1	-20.5	1.4834017	0.6405065	22	1	1
NM_175866	UHMK1	8099	8121	1	-20.5	0.990552	0.8386145	22	1	1
NM_144624	UHMK1	8010	8032	1	-20.5	1.4834017	0.6405065	22	1	1
NM_001014796	DDR2	7258	7281	1	-20.3	0.2668301	0.2548822	23	0	0
NM_006182	DDR2	7178	7201	1	-20.3	0.2668301	0.2548822	23	0	0
NM_017542	POGK	4332	4351	1	-21.6	-0.555823	-0.18062	19	0	0
NM_053053	TADA1	1359	1375	1	-18.1	3.5826387	3.3741566	16	1	1
NM_001286378	MAEL	1535	1564	1	-17.4	0.4558422	0.7400255	18	0	0
NM_032858	MAEL	1774	1791	1	-17.2	0	0	17	0	0
NM_001286377	MAEL	1681	1698	1	-17.2	0.5345397	0.6368449	17	0	0
NM_002697	POU2F1	####	11021	1	-18	4.187424	2.3828935	18	1	1
NM_001198786	POU2F1	####	10832	1	-18	4.187424	2.3828935	18	1	1
NM_001198783	POU2F1	####	11154	1	-18	1.1013111	2.4362557	18	1	1
XM_017000991	DNM3	1898	1911	1	-17	0	0	13	1	1
XM_024450302	ZBTB37	####	17603	1	-24.3	0	0	17	1	0
XM_024450302	ZBTB37	####	16727	1	-24	0	0	24	1	0
XM_017002556	ZBTB37	####	17693	1	-24.3	0	0	17	1	0
XM_017002556	ZBTB37	####	16817	1	-24	0	0	24	1	0
NM_004841	RASAL2	3615	3661	1	-18.6	0.1227118	1.0020878	20	0	0
NM_032126	TEX35	871	897	1	-18.9	-0.402169	-0.107059	15	0	0
NM_001286247	RALGPS2	4959	4974	1	-18.4	0.3739598	0.4033238	15	0	0
NM_001205293	CACNA1E	8059	8080	1	-21.5	-0.312299	-0.226027	21	0	0
NM_000721	CACNA1E	7930	7951	1	-21.5	-0.312299	-0.226027	21	0	0
NM_001205294	CACNA1E	7873	7894	1	-21.5	-0.312299	-0.226027	21	0	0
NM_021133	RNASEL	2526	2540	1	-19.3	2.407323	1.4233504	14	0	0
NM_001002877	THOC5	2389	2420	1	-22.5	0.3044565	0.0424047	19	0	0
NM_181832	NF2	3982	3999	1	-21.5	-0.103008	-0.052988	17	0	0
NM_016418	NF2	3967	3984	1	-21.5	-0.449297	-0.073532	17	0	0
NM_000268	NF2	3922	3939	1	-21.5	-0.449297	-0.073532	17	0	0
NM_181833	NF2	2632	2649	1	-21.5	-0.449297	-0.073532	17	0	0
NM_181829	NF2	3844	3861	1	-21.5	-0.103008	-0.052988	17	0	0
NM_181828	NF2	3841	3858	1	-21.5	-0.103008	-0.052988	17	0	0
NM_181830	NF2	3718	3735	1	-21.5	-0.103008	-0.052988	17	0	0
NM_001037666	CASTOR1	1496	1521	1	-21.9	0.2803561	1.2174578	17	0	0

NM_174975	SEC14L3	1871	1887	1	-20.5	4.7252467	3.1162056	16	0	0
NM_001257379	SEC14L3	1895	1935	1	-21	2.5925157	2.6446738	17	0	0
NM_001257378	SEC14L3	2065	2105	1	-21	2.5925157	2.6446738	17	0	0
NM_030758	OSBP2	3577	3595	1	-18.8	0.3503039	0.4574231	18	0	0
NM_001282739	OSBP2	3574	3592	1	-18.8	0.3503039	0.4574231	18	0	0
NM_016733	LIMK2	2480	2529	1	-29.5	0.5970517	0.7630023	22	1	0
NM_145639	APOL3	1774	1812	1	-21	-0.061434	-1.218632	14	0	0
NM_030643	APOL4	2983	3022	1	-22.1	-0.583102	-0.353092	22	0	0
XM_017028724	APOL2	2112	2150	1	-21	0	0	14	0	0
NM_052906	ELFN2	4461	4488	1	-19.9	0	0	14	0	0
NM_014293	NPTXR	3785	3802	1	-19.7	0	0	17	0	0
NM_145731	SYNGR1	888	908	1	-19.4	0	0	20	0	0
NM_145738	SYNGR1	854	874	1	-19.4	0	0	20	0	0
NM_001024843	TNRC6B	####	13757	1	-23.2	0	0	25	1	1
NM_001162501	TNRC6B	####	16078	1	-23.2	0	0	25	1	1
NM_015088	TNRC6B	####	15748	1	-23.2	0	0	25	1	1
NM_016272	TOB2	2479	2497	1	-19.9	0	0	18	0	0
NM_016272	TOB2	2892	2904	1	-19.8	0	0	12	0	0
NM_014460	CSDC2	1444	1455	1	-19.2	0	0	11	0	0
NM_001003796	SNU13	1043	1072	1	-19	0	0	17	0	1
NM_005008	SNU13	1275	1304	1	-19	0	0	17	0	1
NM_004599	SREBF2	5005	5028	1	-22	0	0	23	0	0
NM_145912	NFAM1	3985	4023	1	-22.8	0	0	38	0	0
NM_032287	RTL6	3842	3865	1	-21.7	0	0	23	0	0
NM_001009880	KIAA0930	2465	2483	1	-20.3	0	0	18	0	0
NM_015264	KIAA0930	2537	2555	1	-20.3	0	0	18	0	0
XM_011530017	KIAA0930	2500	2518	1	-20.3	0	0	18	0	0
XM_005260661	TBC1D20	2913	2930	1	-19.5	0	0	17	0	0
NM_015985	ANGPT4	4255	4287	1	-19.7	3.8524612	2.1211088	19	0	0
NM_001009612	C20orf202	1184	1245	1	-19.6	0.3068974	0.2534725	32	0	0
NM_080836	STK35	1721	1756	1	-21.6	0.4834277	1.7452295	18	1	1
NM_001318207	TMEM239	2418	2435	1	-20.2	0.1268793	-0.092099	15	0	0
NM_023935	DDRGK1	1087	1103	1	-18	1.0172438	0.9452905	16	0	0
NM_001009984	C20orf194	3717	3767	1	-20.6	3.2520738	3.154339	18	0	0
NM_139321	ATRNL	5976	5990	1	-20.4	0.2230476	0.3268573	14	1	1
NM_024960	PANK2	1363	1386	1	-21.8	0.269061	0.6664315	17	0	0
NM_024960	PANK2	5456	5473	1	-21.3	1.2528872	1.5962578	17	0	0
XM_017028079	PANK2	5342	5359	1	-21.3	0	0	17	0	0
NM_153638	PANK2	6185	6202	1	-21.3	0.6410626	0.3538792	17	0	0
NM_153640	PANK2	5521	5538	1	-21.3	0.6410626	0.3538792	17	0	0
NM_007219	RNF24	6753	6775	1	-20.6	4.5347131	1.7571923	22	0	1
NM_007219	RNF24	3978	3994	1	-20.1	-0.219947	-0.135605	16	0	1
XM_017027621	RNF24	3792	3808	1	-20.1	0	0	16	0	1
NM_001200	BMP2	2437	2451	1	-18.1	0.8007197	2.1756855	14	0	0
NM_001200	BMP2	3121	3134	1	-17.7	1.9237957	1.379279	13	0	0
XM_017027728	BTBD3	3158	3197	1	-25.7	0	0	16	0	0
NM_001282550	BTBD3	2882	2921	1	-25.7	0.6916628	0.8003298	16	0	0
NM_014962	BTBD3	3300	3339	1	-25.7	0.9967757	1.1486275	16	0	0
NM_001282551	BTBD3	2978	3017	1	-25.7	0.6916628	0.8003298	16	0	0
NM_006606	RBBP9	2552	2568	1	-18.5	0.117154	-0.027629	16	0	0
NM_032985	SEC23B	3207	3228	1	-20.1	0	0	21	0	0
NM_001172746	SEC23B	3153	3174	1	-20.1	0	0	21	0	0

NM_006363	SEC23B	3189	3210	1	-20.1	0	0	21	0	0
NM_032986	SEC23B	2886	2907	1	-20.1	-0.024049	0.3434348	21	0	0
NM_001172745	SEC23B	3051	3072	1	-20.1	-0.012383	0.4280143	21	0	0
NM_172236	POFUT1	824	843	1	-17.4	0.328368	0.7636956	19	0	0
NM_001256798	NOL4L	3491	3536	1	-24.1	0.6896538	-0.268059	18	1	0
XM_024451878	C20orf203	1916	1931	1	-20.8	0	0	15	0	0
NM_001324197	ITCH	3300	3320	1	-19.4	1.0622687	1.1833395	20	0	0
NM_001324197	ITCH	3383	3404	1	-18.8	0.6763739	1.1207259	16	0	0
NM_001324198	ITCH	3177	3197	1	-19.4	1.0622687	1.1833395	20	0	0
NM_001324198	ITCH	3260	3281	1	-18.8	0.6763739	1.1207259	16	0	0
NM_001257137	ITCH	3279	3299	1	-19.4	1.0622687	1.1833395	20	0	0
NM_001257137	ITCH	3362	3383	1	-18.8	0.6763739	1.1207259	16	0	0
NM_031483	ITCH	3156	3176	1	-19.4	1.0622687	1.1833395	20	0	0
NM_031483	ITCH	3239	3260	1	-18.8	0.6763739	1.1207259	16	0	0
NM_001257138	ITCH	3014	3034	1	-19.4	1.0622687	1.1833395	20	0	0
NM_001257138	ITCH	3097	3118	1	-18.8	0.6763739	1.1207259	16	0	0
XM_017028090	ITCH	3315	3336	1	-18.8	0	0	16	0	0
NM_001322494	GSS	1778	1796	1	-17.4	1.2861315	1.9120208	18	0	0
NM_001322495	GSS	2540	2558	1	-17.4	-0.462868	-0.024324	18	0	0
NM_024900	JADE1	2413	2435	1	-20.5	-0.121468	0.1302957	17	1	0
NM_001287441	JADE1	2292	2314	1	-20.5	1.5450427	-0.056099	17	1	0
NM_014331	SLC7A11	9032	9048	1	-21.2	5.4761969	4.4676565	16	0	0
NM_057175	NAA15	3397	3415	1	-17.3	1.0137156	2.9935466	18	1	1
NM_207123	GAB1	3766	3787	1	-17.9	0.4780981	0.6134967	21	1	1
NM_002039	GAB1	3676	3697	1	-17.9	0.4780981	0.6134967	21	1	1
NM_172250	MMAA	1546	1587	1	-22.5	0.307259	-0.1055	16	0	0
XM_011531684	MMAA	1625	1666	1	-22.5	0	0	16	0	0
NM_001039580	MAP9	2813	2832	1	-17.8	-0.368485	-0.429749	19	0	0
NM_001012967	DDX60L	6324	6345	1	-20.5	1.1285866	1.2890819	14	0	0
NM_001040157	CEP44	1878	1893	1	-18.4	1.0072546	0.3356228	15	0	1
XM_017008655	CEP44	1728	1743	1	-18.4	0	0	15	0	1
XM_024454232	CEP44	1715	1765	1	-18.6	0	0	16	0	1
NM_001080477	TENM3	####	10183	1	-21.7	3.5422244	2.4428987	19	0	0
NM_033036	GAL3ST3	2948	2963	1	-18.9	1.4614228	2.2288587	15	0	0
NM_145039	CENPBD1	2955	2968	1	-18.6	-0.512794	-0.027459	13	0	0
NM_173547	TRIM65	2869	2887	1	-18.6	0.0914407	0.4070457	18	0	0
XM_017024344	TRIM65	2630	2648	1	-18.6	0	0	18	0	0
NM_001012271	BIRC5	1175	1194	1	-20.5	0.4037019	-0.107516	13	0	0
NM_001168	BIRC5	1106	1125	1	-20.5	0.4037019	-0.107516	13	0	0
NM_001012270	BIRC5	988	1007	1	-20.5	0.4037019	-0.107516	13	0	0
NM_004514	FOXK2	3001	3013	1	-20.1	1.5607497	1.9582726	12	0	0
NM_001320743	B3GNTL1	2132	2148	1	-18.2	2.0723981	2.0002866	16	0	0
NM_001099733	ADCYAP1	2641	2686	1	-21.7	1.5916816	2.0206325	22	1	0
NM_001117	ADCYAP1	1650	1670	1	-19.8	1.6695145	2.2774413	20	1	0
NM_006868	RAB31	3329	3347	1	-19.6	0.2307657	0.4558954	18	0	0
NM_006868	RAB31	3546	3586	1	-19	-0.134	-0.343007	19	0	0
NM_001278065	GRM1	5226	5251	1	-19.5	0.8688041	1.2561589	25	0	0
NM_001278066	GRM1	5144	5169	1	-19.5	0.7569014	1.2862863	25	0	0
NM_001278064	GRM1	5094	5119	1	-19.5	1.0366579	1.6973676	25	0	0
NM_001278067	GRM1	5059	5084	1	-19.5	0.7569014	1.2862863	25	0	0
NM_001164695	IYD	7045	7059	1	-18.6	0.1494693	0.3507324	14	0	0
NM_001164694	IYD	7096	7110	1	-18.6	0.1494693	0.3507324	14	0	0

NM_203395	IYD	6984	6998	1	-18.6	0.1494693	0.3507324	14	0	0
NM_001145279	OPRM1	####	14150	1	-18.9	0.1782742	0.3589735	11	0	0
NM_001145280	OPRM1	####	13581	1	-18.9	0.1782742	0.3589735	11	0	0
NM_001145281	OPRM1	####	13122	1	-18.9	0.1782742	0.3589735	11	0	0
NM_000914	OPRM1	####	13791	1	-18.9	0.1782742	0.3589735	11	0	0
NM_001145287	OPRM1	####	14356	1	-18.9	0.1782742	0.3589735	11	0	0
NM_001285526	OPRM1	####	14337	1	-18.9	0.1782742	0.3589735	11	0	0
NM_015553	IPCEF1	2233	2283	1	-20.7	-0.290575	-0.414735	17	1	0
NM_001130700	IPCEF1	2236	2286	1	-20.7	-0.121951	-0.387635	17	1	0
NM_001130699	IPCEF1	2276	2326	1	-20.7	-0.611765	-0.319884	17	1	0
NM_015718	NOX3	1815	1839	1	-20	2.2822646	2.6956057	24	0	0
NM_031924	RSPH3	5312	5341	1	-22.2	1.967736	3.5262606	21	0	0
XM_011535387	PDE10A	7549	7594	1	-20.8	0	0	19	0	1
NM_001130690	PDE10A	5435	5480	1	-20.8	0.2203427	0.125096	19	0	1
XM_024446311	PDE10A	5544	5589	1	-20.8	0	0	19	0	1
XM_024446312	PDE10A	5894	5939	1	-20.8	0	0	19	0	1
NM_001037165	FOXK1	5249	5263	1	-20.8	-0.40057	-0.841975	14	1	0
NM_003088	FSCN1	1968	1986	1	-20.9	-0.234661	-0.435038	18	0	0
NM_207111	RNF216	5151	5191	1	-18.4	2.1402186	1.3896847	33	0	0
NM_014660	PHF14	3492	3511	1	-17	2.8019571	2.3813734	19	0	0
NM_018374	TMEM106B	4258	4271	1	-18.5	-0.256947	0.0278317	13	0	0
NM_001134232	TMEM106B	4064	4077	1	-18.5	-0.256947	0.0278317	13	0	0
NM_018462	BRK1	703	745	1	-25.9	0.3589843	0.469138	19	0	0
NM_001134382	IQSEC1	6436	6449	1	-21.1	3.1927407	3.04042	13	0	0
NM_014869	IQSEC1	4534	4547	1	-21.1	2.8503158	3.5912525	13	0	0
XM_024453846	IQSEC1	6287	6300	1	-21.1	0	0	13	0	0
NM_001330619	IQSEC1	6326	6339	1	-21.1	2.9565861	3.8958911	13	0	0
NM_003043	SLC6A6	5272	5290	1	-21.1	-0.126439	-0.2591	18	0	0
NM_001134367	SLC6A6	5268	5286	1	-21.1	-0.126439	-0.2591	18	0	0
XM_017007120	NR2C2	3128	3158	1	-19.1	0	0	17	0	0
NM_001302378	RBSN	4283	4301	1	-20.2	0.1126339	0.4306851	18	0	0
NM_022340	RBSN	4439	4457	1	-20.2	0.9746415	1.5185984	18	0	0
NM_001018009	SH3BP5	1478	1496	1	-21.6	0.0421539	0.6908602	16	1	0
NM_004844	SH3BP5	1597	1615	1	-21.6	1.2813516	1.300926	16	1	0
NM_005677	COLQ	2215	2228	1	-17.6	4.1372452	4.5464524	13	1	0
NM_001351	DAZL	1207	1225	1	-18.7	1.1841208	0.9166426	18	0	0
NM_001252634	THRB	2016	2052	1	-20.4	3.0066116	2.8495254	30	1	0
NM_001278183	EOMES	2524	2538	1	-19.9	0.4531373	0.138079	14	1	1
NM_005442	EOMES	3483	3497	1	-19.9	0	0	14	1	1
NM_001278182	EOMES	3540	3554	1	-19.9	0	0	14	1	1
NM_001003793	RBMS3	6480	6497	1	-18.7	0.4470336	0.8112089	17	0	0
NM_001177711	RBMS3	6432	6449	1	-18.7	0.4470336	0.8112089	17	0	0
NM_001003792	RBMS3	6426	6443	1	-18.7	0.4470336	0.8112089	17	0	0
NM_006371	CRTAP	3374	3395	1	-23.2	-0.093825	-0.321488	21	1	0
NM_001329998	TRANK1	####	10022	1	-20.6	1.7699216	1.3337067	18	0	1
NM_014805	EPM2AIP1	5685	5723	1	-19.2	0.7649057	0.6793252	17	0	0
NM_002207	ITGA9	3696	3718	1	-18.8	3.177072	3.7230813	22	0	0
NM_001284423	MYRIP	4273	4306	1	-18.5	1.6635141	1.2790432	33	0	0
NM_001284425	MYRIP	4325	4358	1	-18.5	1.6635141	1.2790432	33	0	0
NM_001284426	MYRIP	4083	4116	1	-18.5	1.6635141	1.2790432	33	0	0
NM_052849	CCDC32	1036	1054	1	-17.4	-0.025349	0.7838851	15	0	0
NM_006293	TYRO3	3208	3229	1	-20	0.8451245	0.3569612	21	0	0

NM_213600	PLA2G4F	3336	3379	1	-24.2	1.9375651	2.2216641	25	0	0
NM_001286487	TMEM87A	2495	2538	1	-24.3	1.4694213	2.3780885	19	0	0
NM_001286487	TMEM87A	2592	2610	1	-19.8	1.0047051	1.9695347	18	0	0
NM_015497	TMEM87A	2556	2599	1	-24.3	1.4735915	2.1352086	19	0	0
NM_015497	TMEM87A	2653	2671	1	-19.8	2.8493807	1.9379626	18	0	0
NM_001284307	ZNF106	6103	6136	1	-19.2	3.4620221	2.098978	13	0	0
NM_022473	ZNF106	8531	8564	1	-19.2	0.9665669	1.1815297	13	0	0
NM_174916	UBR1	7114	7132	1	-21	2.8624421	2.7493108	18	0	0
NM_001324366	ADAL	3918	3935	1	-17.7	0.0945224	0.136584	17	0	0
NM_001159280	ADAL	3837	3854	1	-17.7	0.0945224	0.136584	17	0	0
NM_001198999	SEMA6D	5003	5055	1	-22	0.8359134	1.6242666	23	1	1
NM_001358351	SEMA6D	5118	5170	1	-22	1.411617	1.5902641	23	1	1
NM_020858	SEMA6D	4991	5043	1	-22	0.5192766	0.6545669	23	1	1
NM_153618	SEMA6D	5177	5229	1	-22	0.5192766	0.6545669	23	1	1
NM_153617	SEMA6D	5009	5061	1	-22	0.5192766	0.6545669	23	1	1
NM_153619	SEMA6D	4987	5039	1	-22	2.7021507	1.7766482	23	1	1
NM_153616	SEMA6D	4952	5004	1	-22	0.5192766	0.6545669	23	1	1
NM_002009	FGF7	3721	3733	1	-16.5	0.2766085	0.3489037	12	0	0
NM_001174117	DMXL2	8553	8570	1	-18.2	0.3587132	0.4173391	17	0	0
NM_015263	DMXL2	####	10478	1	-18.2	0.3587132	0.4173391	17	0	0
NM_001174116	DMXL2	####	10481	1	-18.2	0.3587132	0.4173391	17	0	0
NM_001204451	CCPG1	2420	2450	1	-20.2	0.326339	0.4731975	15	0	0
NM_001204450	CCPG1	3569	3599	1	-20.2	0.326339	0.4731975	15	0	0
NM_020739	CCPG1	6698	6728	1	-20.2	0	0	15	0	0
NM_004748	CCPG1	6954	6968	1	-19.8	0.4408009	0.5467802	14	0	0
NM_207037	TCF12	3527	3539	1	-16.5	1.6426678	2.1780651	12	0	0
NM_003205	TCF12	3455	3467	1	-16.5	1.6426678	2.1780651	12	0	0
NM_207036	TCF12	3517	3529	1	-16.5	1.6426678	2.1780651	12	0	0
NM_207038	TCF12	3445	3457	1	-16.5	1.6426678	2.1780651	12	0	0
NM_001306219	TCF12	2815	2827	1	-16.5	3.8294285	1.8982821	12	0	0
NM_001306220	TCF12	2603	2615	1	-16.5	3.8294285	1.8982821	12	0	0
NM_207040	TCF12	2716	2728	1	-16.5	1.1191948	2.4555267	12	0	0
NM_001040450	MINDY2	3198	3251	1	-22.3	-0.036433	-0.025023	23	0	1
NM_001040453	MINDY2	3025	3078	1	-22.3	0.0697084	0.1635115	23	0	1
NM_024611	ICE2	6269	6315	1	-20.2	1.7153891	1.5469557	17	0	0
NM_171846	LACTB	1844	1866	1	-21.3	-0.438407	-0.196278	17	0	0
NM_001282558	HHLA2	1572	1587	1	-17.2	-0.020474	-0.079155	15	0	0
NM_001282559	HHLA2	1361	1376	1	-17.2	-0.020474	-0.079155	15	0	0
NM_001282556	HHLA2	1545	1560	1	-17.2	-0.020474	-0.079155	15	0	0
XM_005247080	HHLA2	1606	1621	1	-17.2	0	0	15	0	0
NM_007072	HHLA2	1736	1751	1	-17.2	-0.020474	-0.079155	15	0	0
NM_001282557	HHLA2	1476	1491	1	-17.2	-0.020474	-0.079155	15	0	0
NM_014981	MYH15	6367	6399	1	-18.9	2.6853036	2.4131279	32	0	0
NM_001164496	CFAP44	9284	9301	1	-21.3	3.7996043	3.7141494	17	0	0
NM_024638	QTRT2	2053	2073	1	-26.3	0.4908383	-0.001844	20	0	0
NM_024638	QTRT2	2003	2015	1	-21.8	-0.371872	0.1815855	12	0	0
NM_001256835	QTRT2	1945	1965	1	-26.3	0.4908383	-0.001844	20	0	0
NM_001256835	QTRT2	1895	1907	1	-21.8	-0.371872	0.1815855	12	0	0
NM_001256837	QTRT2	1689	1709	1	-26.3	0.4908383	-0.001844	20	0	0
NM_001256837	QTRT2	1639	1651	1	-21.8	-0.371872	0.1815855	12	0	0
NM_001256836	QTRT2	1591	1611	1	-26.3	0.4908383	-0.001844	20	0	0
NM_001256836	QTRT2	1541	1553	1	-21.8	-0.371872	0.1815855	12	0	0

NM_015642	ZBTB20	7696	7715	1	-21.5	1.309488	0.921345	19	0	0
NM_001164345	ZBTB20	8758	8773	1	-21.5	1.2917446	0.9562319	15	0	0
NM_001164344	ZBTB20	8804	8819	1	-21.5	0.6429951	1.2217902	15	0	0
NM_001164346	ZBTB20	8397	8412	1	-21.5	0.7824021	0.4261062	15	0	0
NM_001164346	ZBTB20	7491	7510	1	-21.5	0.515994	1.2768638	19	0	0
NM_001164342	ZBTB20	7472	7491	1	-21.5	1.2330063	1.3061418	19	0	0
NM_002338	LSAMP	4548	4578	1	-20.9	0.317296	0.4959418	18	1	1
NM_001318915	LSAMP	4617	4647	1	-20.9	0.7021994	0.3801572	18	1	1
NM_003778	B4GALT4	1598	1618	1	-18.6	2.278616	1.412828	17	0	1
NM_212543	B4GALT4	1681	1701	1	-18.6	0.5347214	0.8957112	17	0	1
XM_006713800	B4GALT4	1642	1662	1	-18.6	0	0	17	0	1
NM_016589	TIMMDC1	1482	1512	1	-19.8	-0.081748	0.151199	22	0	0
NM_001168331	NDUFB4	1383	1435	1	-17.8	0.6485176	0.7667692	16	0	0
NM_014980	STXBP5L	7432	7452	1	-19.5	0.2506928	0.0830885	20	0	0
NM_001308330	STXBP5L	7360	7380	1	-19.5	0.2506928	0.0830885	20	0	0
NM_001348343	STXBP5L	7369	7389	1	-19.5	0.2064412	0.2294519	20	0	0
NM_012430	SEC22A	1556	1589	1	-19.6	0.6569399	0.6961316	33	0	0
NM_053026	MYLK	6573	6602	1	-20.2	2.1968056	0.5441987	21	0	0
NM_053027	MYLK	6627	6656	1	-20.2	0.9172082	1.2030674	21	0	0
NM_053025	MYLK	6780	6809	1	-20.2	0.9172082	1.2030674	21	0	0
XM_017006472	MYLK	1342	1371	1	-20.2	0	0	21	0	0
NM_001024660	KALRN	9469	9489	1	-20.6	0.2112635	0.5625983	20	0	0
XM_011513281	KALRN	9442	9462	1	-20.6	0	0	20	0	0
NM_007064	KALRN	4384	4404	1	-20.6	0.2208726	0.5573133	20	0	0
NM_000373	UMPS	6211	6241	1	-21.4	-0.023893	0.2906987	30	0	0
NM_020733	HEG1	6921	6958	1	-22.6	0.5692143	0.0999	37	0	0
NM_007283	MGLL	2613	2632	1	-18.9	0.6395898	-0.126822	14	0	0
XM_024453334	MGLL	2148	2167	1	-18.9	0	0	14	0	0
XM_017005665	MGLL	2336	2355	1	-18.9	0	0	14	0	0
NM_004637	RAB7A	2068	2083	1	-20.9	2.6989764	1.8009072	15	0	0
NM_001204890	ISY1-RAB43	2492	2510	1	-22.5	-0.270708	-0.494536	18	0	0
NM_001204884	RAB43	1627	1645	1	-22.5	-0.362801	-0.30694	18	0	0
NM_001204885	RAB43	1617	1635	1	-22.5	-0.452177	-0.525726	18	0	0
NM_001204886	RAB43	1654	1672	1	-22.5	-0.429833	-0.365594	18	0	0
NM_198490	RAB43	1905	1923	1	-22.5	-0.459625	-0.341388	18	0	0
NM_001204887	RAB43	1999	2017	1	-22.5	-0.184048	-0.315031	18	0	0
NM_016724	FOLR1	1073	1091	1	-19.8	0	0	18	0	0
NM_016725	FOLR1	1007	1025	1	-19.8	0	0	18	0	0
NM_016729	FOLR1	842	860	1	-19.8	-0.021682	0.0500522	18	0	0
NM_001322373	CEBPZOS	607	637	1	-17.9	-0.28061	-0.049868	16	0	0
NM_001322374	CEBPZOS	428	458	1	-17.9	-0.28061	-0.049868	16	0	0
XM_017003106	CEBPZOS	636	666	1	-17.9	0	0	16	0	0
NM_172069	PLEKHH2	6241	6257	1	-19.2	0.8421999	0.6868587	16	1	1
NM_001171617	PREPL	4644	4662	1	-17.2	1.9059864	2.2876145	18	0	0
NM_005400	PRKCE	2703	2720	1	-20.5	2.0928923	1.2416211	17	1	1
NM_001143960	C2orf74	845	875	1	-17.6	0.479996	0.6980034	15	0	0
NM_001316317	C2orf74	731	761	1	-17.6	0.479996	0.6980034	15	0	0
NM_001143959	C2orf74	832	862	1	-17.6	-0.088244	0.4035777	15	0	0
NM_198276	TMEM17	1057	1086	1	-18.7	1.9346783	2.1488439	29	0	0
NM_173177	C1D	1048	1063	1	-15.6	0.9020729	0.0630302	15	0	0
NM_006333	C1D	1061	1076	1	-15.6	0.2003367	0.111918	15	0	0
NM_002056	GFPT1	5713	5730	1	-18.4	0.8069305	0.5089839	17	0	0

NM_144582	TEX261	2351	2370	1	-20.8	0.0675676	0.0803036	19	0	0
NM_001286111	ATG5	1766	1797	1	-20.5	1.7061882	2.4553031	14	0	0
NM_001286107	ATG5	2008	2039	1	-20.5	2.0871606	1.9853084	14	0	0
NM_004849	ATG5	2136	2167	1	-20.5	5.2748844	5.0991711	14	0	0
NM_001286106	ATG5	2019	2032	1	-20.1	1.3796404	1.9736461	13	0	0
NM_201559	FOXO3	3677	3693	1	-17.6	2.6478869	2.1413829	16	0	1
NM_001455	FOXO3	3704	3720	1	-17.6	2.353407	1.2481321	16	0	1
XM_005266868	FOXO3	2949	2965	1	-17.6	0	0	16	0	1
NM_001033564	FAM229B	1118	1161	1	-20.3	0.3743198	0.4235528	19	0	0
NM_003309	TSPYL1	3243	3270	1	-18.5	-0.094177	0.3156571	27	0	0
NM_153711	CALHM5	1379	1394	1	-18.4	-0.361971	-0.19206	15	0	0
NM_182645	VGLL2	1395	1437	1	-20	0.7173062	0.7973396	28	1	0
NM_153453	VGLL2	888	915	1	-20	0.6369772	0.8613077	27	1	0
NM_001029858	SLC35F1	3968	4016	1	-20.4	2.2151786	2.4415564	24	0	0
NM_001178035	CEP85L	3153	3174	1	-19	0.6093903	0.257482	21	1	1
NM_001105545	ECHDC1	1203	1236	1	-15.5	5.0443539	2.4863342	12	0	1
NM_018479	ECHDC1	1425	1458	1	-15.5	2.3110929	2.4119505	12	0	1
NM_014702	KIAA0408	7967	8023	1	-22	0.5732603	0.7021149	25	0	0
NM_003569	STX7	1385	1401	1	-17.8	-0.050589	0.1776517	16	0	0
NM_172105	EYA4	2616	2631	1	-18	3.2818874	2.3901895	15	0	0
NM_004100	EYA4	2616	2631	1	-18	3.2818874	2.3901895	15	0	0
NM_172103	EYA4	2547	2562	1	-18	3.2818874	2.3901895	15	0	0
NM_001301013	EYA4	2492	2507	1	-18	3.2818874	2.3901895	15	0	0
NM_001301012	EYA4	2312	2327	1	-18	3.2818874	2.3901895	15	0	0
NM_001301038	BCLAF1	6261	6284	1	-19.8	2.8026434	3.3952739	23	1	0
NM_001077441	BCLAF1	5748	5771	1	-19.8	2.4973266	3.0354834	23	1	0
NM_014739	BCLAF1	6267	6290	1	-19.8	2.4973266	3.2118908	23	1	0
NM_022121	PERP	2557	2591	1	-22.4	0.6831911	0.8111781	16	0	0
NM_020464	NHSL1	5579	5604	1	-20.8	3.6800635	2.4158793	15	0	0
NM_001144060	NHSL1	5099	5124	1	-20.8	2.5291388	1.9433175	15	0	0
NM_016485	VTA1	3039	3070	1	-19.6	-0.104467	0.1728612	31	0	0
NM_001128627	SPIRE1	4631	4647	1	-17.7	3.836874	3.4956872	16	0	0
NM_181482	LDLRAD4	2081	2100	1	-17.1	1.5144236	2.2138066	19	0	0
NM_181481	LDLRAD4	1876	1895	1	-17.1	1.8485778	1.840891	19	0	0
NM_001003674	LDLRAD4	2540	2559	1	-17.1	1.8485778	1.840891	19	0	0
NM_001003675	LDLRAD4	2486	2505	1	-17.1	1.8485778	1.840891	19	0	0
NM_001276249	LDLRAD4	1530	1549	1	-17.1	1.8485778	1.840891	19	0	0
NM_001276251	LDLRAD4	2074	2093	1	-17.1	1.8485778	1.840891	19	0	0
NM_145287	ZNF519	1919	1940	1	-17.6	0.1460201	0.0423534	21	0	0
NM_024421	DSC1	3526	3567	1	-17.9	2.3569029	1.8933641	26	0	0
NM_004948	DSC1	3572	3613	1	-17.9	2.3569029	1.8933641	26	0	0
NM_001942	DSG1	5038	5053	1	-18.9	0.0225643	0.0416079	15	0	0
NM_198995	CCDC178	2987	3018	1	-17.5	-0.172769	0.1369577	20	0	0
NM_001105528	CCDC178	3032	3063	1	-17.5	-0.022809	0.5648073	20	0	0
NM_001308126	CCDC178	3104	3135	1	-17.5	-0.022809	0.5648073	20	0	0
NM_001198549	NOL4	1699	1714	1	-18.3	2.2504016	3.11185	15	1	1
NM_032981	DTNA	2928	2957	1	-16.4	0.3001679	0.2086502	13	1	1
NM_001322286	ZNF396	1594	1612	1	-20	0.7426169	0.1177039	18	0	0
NM_007163	SLC14A2	3943	3976	1	-21.1	0.3944751	0.586724	33	0	0
NM_001308278	SLC14A1	1999	2012	1	-20.2	0.2886965	0.1505706	13	0	0
NM_001308279	SLC14A1	1809	1822	1	-20.2	0.2886965	0.1505706	13	0	0
NM_001128588	SLC14A1	2325	2338	1	-20.2	0.4747981	0.1470004	13	0	0

NM_001146036	SLC14A1	2254	2267	1	-20.2	0.4747981	0.1470004	13	0	0
NM_015865	SLC14A1	2167	2180	1	-20.2	0.4747981	0.1470004	13	0	0
NM_001146037	SLC14A1	2422	2435	1	-20.2	0.719199	0.2739674	13	0	0
NM_004671	PIAS2	6732	6750	1	-18.4	0.2768032	0.1481811	18	0	1
NM_004671	PIAS2	5267	5280	1	-17.8	0.0287804	0.1488784	13	0	1
XM_017025749	SMAD2	4358	4373	1	-18.5	0	0	15	0	0
NM_017653	DYM	4565	4609	1	-22.1	2.9060641	2.3177557	44	0	0
NM_001204141	MBD1	2212	2229	1	-17.9	2.1221264	1.4288582	17	0	0
NM_001204139	MBD1	2434	2451	1	-17.9	2.1221264	1.4288582	17	0	0
XM_017025770	MBD1	2173	2200	1	-23.5	0	0	21	0	0
XM_005258271	MBD1	2341	2368	1	-23.5	0	0	21	0	0
NM_001204137	MBD1	2695	2722	1	-23.5	1.5100633	2.2194316	21	0	0
NM_005215	DCC	8214	8241	1	-20.7	0.1619914	-0.062979	27	0	0
XM_011525844	DCC	7102	7129	1	-20.7	0	0	27	0	0
NM_001257964	BOD1L2	1930	1941	1	-16.8	-0.519169	-0.170863	11	0	0
NM_000140	FECH	1754	1767	1	-21.3	0.1886681	-0.147253	13	0	0
NM_001012515	FECH	1772	1785	1	-21.3	0.1018663	-0.254875	13	0	0
XM_011525881	FECH	1644	1657	1	-21.3	0	0	13	0	0
NM_003839	TNFRSF11A	3388	3407	1	-20.4	-0.220572	-0.003232	19	0	0
NM_001270949	TNFRSF11A	2604	2623	1	-20.4	-0.265851	-0.048048	19	0	0
NM_001270950	TNFRSF11A	2551	2570	1	-20.4	-0.265851	-0.048048	19	0	0
NM_001270951	TNFRSF11A	2437	2456	1	-20.4	-0.220572	-0.003232	19	0	0
NM_000633	BCL2	1681	1730	1	-20.9	0.2351084	0.1385216	18	1	0
NM_144641	PPM1M	1633	1660	1	-22	-0.585186	-0.054232	17	0	0
NM_144641	PPM1M	1461	1481	1	-21	0.0299685	0.152449	20	0	0
NM_001122870	PPM1M	1267	1294	1	-22	-0.32339	-0.152406	17	0	0
XM_017006807	IL17RB	2987	3001	1	-18	0	0	14	0	0
XM_011534249	ACTR8	####	10262	1	-22.2	0	0	34	0	0
NM_001311179	SLMAP	1140	1162	1	-17.3	0.5761492	0.5859891	22	0	0
NM_001349340	FOXP1	4969	4981	1	-17.1	1.7576857	1.2218391	12	0	0
NM_001349341	FOXP1	4196	4230	1	-22.1	2.1397502	1.5033492	34	0	0
NM_001349341	FOXP1	5061	5073	1	-17.1	2.0975907	1.6152999	12	0	0
NM_001244808	FOXP1	4196	4230	1	-22.1	2.1397502	1.5033492	34	0	0
NM_001244808	FOXP1	5061	5073	1	-17.1	2.0975907	1.6152999	12	0	0
NM_001349338	FOXP1	4199	4233	1	-22.1	1.9315903	1.5174777	34	0	0
NM_001349338	FOXP1	5064	5076	1	-17.1	2.0027325	1.4772623	12	0	0
NM_001244812	FOXP1	3496	3530	1	-22.1	4.0280088	2.742876	34	0	0
NM_001244814	FOXP1	3893	3927	1	-22.1	3.1412646	1.9675134	34	0	0
NM_001349343	FOXP1	3502	3536	1	-22.1	4.3207204	2.6777692	34	0	0
NM_001349342	FOXP1	3505	3539	1	-22.1	4.2575867	2.6564616	34	0	0
NM_001349344	FOXP1	3385	3419	1	-22.1	3.6176379	2.7996966	34	0	0
NM_001349344	FOXP1	4250	4262	1	-17.1	1.2833975	1.5359552	12	0	0
NM_001244813	FOXP1	4253	4265	1	-17.1	1.4335884	1.5218255	12	0	0
XM_011533256	FRG2C	2194	2232	1	-17.4	0	0	17	0	0
NM_001124759	FRG2C	1509	1547	1	-17.4	-0.100184	-0.127786	17	0	0
NM_001128929	ROBO2	6768	6784	1	-19.8	0.031769	-0.106886	16	1	1
NM_001290040	ROBO2	7259	7275	1	-19.8	0.5733355	0.0063453	16	1	1
NM_002942	ROBO2	7064	7080	1	-19.8	0.5733355	0.0063453	16	1	1
NM_022072	NSUN3	2187	2219	1	-18.8	-0.058742	0.5648644	32	0	0
NM_153182	RIOX2	3914	3930	1	-20.3	2.1563321	3.157836	16	0	0
NM_178523	ZNF616	2821	2837	1	-21.1	1.1837649	-1.219707	16	0	0
NM_001351773	ZNF320	4652	4686	1	-22.9	-0.826326	-1.290852	14	0	0

NM_001081443	LILRB5	1957	1969	1	-19.1	0.3742581	-0.498267	12	0	0
NM_006840	LILRB5	2254	2266	1	-19.1	-0.411242	-0.299309	12	0	0
NM_001278426	LILRB4	3398	3418	1	-19.8	-0.398795	-0.033674	20	0	0
NM_001278427	LILRB4	3395	3415	1	-19.8	-0.398795	-0.045455	20	0	0
NM_173804	TMEM86B	1542	1557	1	-18.4	0	0	15	0	0
NM_013333	EPN1	2342	2361	1	-21.8	1.5822746	0.7736026	19	1	0
NM_001130071	EPN1	2883	2902	1	-21.8	1.5822746	0.7736026	19	1	0
NM_020813	ZNF471	5921	5950	1	-21.8	-0.029901	0.2814609	29	1	0
NM_001277092	ZNF550	2239	2259	1	-18.4	0.8773846	-0.90292	20	0	0
NM_001277091	ZNF550	2586	2606	1	-18.4	0.8773846	-0.90292	20	0	0
NM_001277090	ZNF550	3172	3192	1	-18.4	0.8773846	-0.90292	20	0	0
NM_003435	ZNF134	2107	2122	1	-17.7	-0.165349	-0.249278	15	0	0
NM_197956	NAIF1	1654	1675	1	-17.6	-0.028389	0.3460915	21	0	0
NM_004486	GOLGA2	4194	4213	1	-20.9	2.7582387	2.0423622	16	0	0
NM_203434	IER5L	2314	2367	1	-21.8	2.3900694	2.4287207	23	0	0
NM_001136558	GPR107	3952	3995	1	-21.1	-0.075081	-0.246114	28	0	0
NM_001316898	SPACA9	2086	2125	1	-19.2	0.316	0.477525	17	0	0
NM_001316897	SPACA9	2093	2132	1	-19.2	-0.117889	0.1269625	17	0	0
NM_000368	TSC1	6471	6489	1	-22.3	2.4028268	3.7117597	18	0	0
NM_181491	MED22	885	905	1	-19.8	0	0	20	0	0
NM_001018049	PAEP	798	818	1	-20	-0.082172	-0.106458	17	0	0
NM_002571	PAEP	769	789	1	-20	-0.082172	-0.106458	17	0	0
NM_144653	NACC2	5058	5072	1	-19.8	1.6935404	1.6879625	14	1	1
NM_001004354	NRARP	1289	1307	1	-16.8	0.9922755	1.6523363	18	0	0
NM_023016	SOWAHC	2297	2323	1	-18.8	0.416126	0.6134508	26	1	1
NM_005721	ACTR3	2819	2846	1	-21	-0.020566	0.3138553	19	0	0
NM_001277140	ACTR3	2619	2637	1	-21	0.4441074	0.5214351	18	0	0
NM_002830	PTPN4	9955	9975	1	-20.5	1.2508482	0.6684328	20	1	1
NM_001184939	EPB41L5	5241	5281	1	-17.8	-0.111903	-0.03302	17	0	0
NM_001184938	EPB41L5	5531	5571	1	-17.8	-0.044813	-0.253947	17	0	0
NM_024121	TMEM185B	5607	5650	1	-23	-0.573984	-0.3408	21	0	0
NM_004622	TSN	3259	3295	1	-22.9	-0.171972	-0.003283	20	0	0
NM_031445	AMMECR1L	2983	2998	1	-20.8	2.7876793	3.2771574	15	0	0
NM_181742	ORC4	4491	4512	1	-26.9	0.1500864	0.0675023	21	0	0
NM_181741	ORC4	4596	4617	1	-26.9	-0.448559	0.0258497	21	0	0
NM_005843	STAM2	2855	2871	1	-19.5	-0.010234	0.3618859	16	0	0
NM_005452	WDR46	2253	2285	1	-21.5	0	0	21	0	0
NM_006772	SYNGAP1	4557	4593	1	-22.4	2.4525357	2.1336037	16	1	0
NM_152735	ZBTB9	1815	1861	1	-19.7	0.0374178	0.2199879	15	1	0
NM_015245	ANKS1A	4547	4567	1	-22.2	0.1313379	-0.13228	20	0	0
NM_001145776	FKBP5	1881	1912	1	-21.4	0.5924185	0.2183692	31	1	1
NM_139012	MAPK14	2547	2581	1	-18.5	2.6306963	1.0176864	34	0	0
NM_139014	MAPK14	2468	2502	1	-18.5	2.6306963	1.0176864	34	0	0
NM_001315	MAPK14	2547	2581	1	-18.5	2.6306963	1.0176864	34	0	0
NM_007271	STK38	1847	1867	1	-17.4	0.196307	0.724234	20	0	0
NM_020737	LRFN2	2986	3006	1	-19.8	1.0784057	1.1946484	20	0	0
NM_001242590	TREM1	2861	2906	1	-24.5	1.0496909	-0.824024	17	0	0
NM_018643	TREM1	3060	3099	1	-24.5	1.8099544	-0.680765	17	0	0
XM_017010241	TAF8	4307	4336	1	-20.5	0	0	16	0	0
NM_001318819	BICRAL	6501	6518	1	-17.9	4.8410211	4.5510145	17	0	0
NM_000287	PEX6	3163	3187	1	-21.9	0.5062372	0.902772	24	0	0
NM_001318942	MEA1	672	696	1	-18.3	3.8448432	3.0145666	19	0	0

NM_001258331	EPB41L1	5269	5286	1	-18.9	0.5710162	0.1331771	17	0	0
NM_001258330	EPB41L1	5042	5059	1	-18.9	0.8084579	0.6664328	17	0	0
NM_177996	EPB41L1	5264	5281	1	-18.9	0.8084579	0.6664328	17	0	0
NM_001258329	EPB41L1	5624	5641	1	-18.9	0.8084579	0.6664328	17	0	0
NM_012156	EPB41L1	5573	5590	1	-18.9	0.8084579	0.6664328	17	0	0
NM_183006	DLGAP4	2809	2823	1	-19.2	0.033525	-0.097342	14	0	0
NM_080627	SOGA1	####	13220	1	-21.7	3.1701246	4.561774	18	0	0
NM_024855	ACTR5	1895	1910	1	-20.8	0.0314433	-0.076335	15	0	0
NM_015568	PPP1R16B	3511	3531	1	-19.2	1.1995685	0.9402216	20	1	1
NM_001172735	PPP1R16B	3385	3405	1	-19.2	1.1995685	0.9402216	20	1	1
NM_015035	ZHX3	3924	3945	1	-22	-0.240067	-0.033116	15	0	1
XM_024451862	ZHX3	4336	4350	1	-24.6	0	0	14	0	1
XM_024451862	ZHX3	3898	3919	1	-22	0	0	15	0	1
XM_005260341	ZHX3	4157	4171	1	-24.6	0	0	14	0	1
XM_005260341	ZHX3	3719	3740	1	-22	0	0	15	0	1
NM_007050	PTPRT	5503	5531	1	-21.7	0.7542818	0.6123952	15	0	0
NM_133170	PTPRT	5560	5588	1	-21.7	0.1906092	0.2907575	15	0	0
NM_001256738	GDAP1L1	1038	1081	1	-21.6	2.2560328	4.655684	23	0	0
NM_001256737	GDAP1L1	1248	1291	1	-21.6	2.2560328	4.655684	23	0	0
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NM_181805	PKIG	828	845	1	-22.7	1.1133409	0.6175387	17	0	0
NM_001281444	PKIG	998	1015	1	-22.7	1.1133409	0.6175387	17	0	0
NM_181804	PKIG	723	740	1	-22.7	1.1133409	0.6175387	17	0	0
NM_001352385	STK4	2052	2073	1	-19	1.244838	1.5259819	21	1	1
NM_006282	STK4	1957	1978	1	-19	1.244838	1.5259819	21	1	1
NM_080614	WFDC3	824	849	1	-18.6	0.7204897	0.5513237	25	0	0
NM_005244	EYA2	2268	2305	1	-23.6	1.1290766	0.8925344	23	0	0
NM_172110	EYA2	2031	2068	1	-23.6	0.0439639	0.2887754	23	0	0
XM_017027721	EYA2	1915	1952	1	-23.6	0	0	23	0	0
NM_198596	SULF2	3964	3983	1	-19.9	0.7600838	1.1499428	19	0	0
NM_001161841	SULF2	3973	3992	1	-19.9	0.7600838	1.1499428	19	0	0
NM_018837	SULF2	3634	3653	1	-19.9	0.3076455	0.5043297	19	0	0
NM_018837	SULF2	3575	3605	1	-19.3	0.0145047	0.8006726	30	0	0
NM_181442	ADNP	6092	6110	1	-21.4	1.4010433	1.1531654	18	1	1
NM_015339	ADNP	6267	6285	1	-21.4	1.4010433	1.1531654	18	1	1
NM_001282531	ADNP	6351	6369	1	-21.4	1.4010433	1.1531654	18	1	1
NM_001258294	NFATC2	3853	3873	1	-23.7	-0.066109	-0.025682	20	0	0
NM_001258292	NFATC2	4279	4299	1	-23.7	0.4343164	0.6355795	20	0	0
NM_001136021	NFATC2	4367	4387	1	-23.7	0.990475	0.9652529	20	0	0
NM_001258296	NFATC2	3931	3951	1	-23.7	-0.558496	-0.052221	20	0	0
NM_173091	NFATC2	4357	4377	1	-23.7	1.3352011	0.9827192	20	0	0
NM_012340	NFATC2	4445	4465	1	-23.7	3.3897719	2.6231419	20	0	0
NM_001193421	TSHZ2	3574	3589	1	-17.4	1.2808201	1.2978038	15	0	0
NM_004738	VAPB	1679	1697	1	-19	2.9226649	1.4548778	18	1	1
NM_001195677	VAPB	1317	1335	1	-19	2.9226649	1.4548778	18	1	1
NM_014394	GHITM	1349	1389	1	-20.9	1.0853732	0.9095159	18	1	1
NM_000043	FAS	3430	3448	1	-17.3	0.8987517	0.5427336	18	1	1
NM_152872	FAS	3405	3423	1	-17.3	0.8987517	0.5427336	18	1	1
NM_001320619	FAS	3347	3365	1	-17.3	0.8987517	0.5427336	18	1	1
NM_152871	FAS	3367	3385	1	-17.3	0.8987517	0.5427336	18	1	1
NM_001013848	EXOC6	3623	3642	1	-18.2	0	0	19	0	1
XM_017016345	EXOC6	3645	3677	1	-18.7	0	0	20	0	1

NM_019053	EXOC6	3564	3596	1	-18.7	0	0	20	0	1
NM_001134658	SLC35G1	2809	2831	1	-19.2	0.4093485	0.5698719	22	0	0
NM_153226	SLC35G1	2806	2828	1	-19.2	0.4093485	0.5698719	22	0	0
NM_006434	SORBS1	3183	3193	1	-17.8	1.1526709	1.043028	10	0	0
XM_024448004	CC2D2B	6362	6410	1	-22.6	0	0	18	0	0
NM_020123	TM9SF3	2372	2396	1	-19.8	0.5076726	0.7581788	24	0	0
NM_152309	PIK3AP1	3969	4009	1	-23.7	2.469729	2.564694	15	0	0
NM_001346516	LCOR	6254	6297	1	-20.9	0.3658683	0.3611371	18	0	0
NM_002629	PGAM1	1413	1429	1	-17.7	0.4051133	0.647958	16	0	0
NM_020354	ENTPD7	2693	2728	1	-21.3	0.597905	0.8107211	24	0	0
NM_001282438	BLOC1S2	1041	1062	1	-18.9	0.4250885	0.2578106	21	1	0
NM_017902	HIF1AN	3955	3975	1	-22.1	0.3368366	0.3884166	20	1	0
NM_001282735	SPATS2L	3992	4008	1	-17.8	1.6103433	0.9335984	16	0	0
NM_001282743	SPATS2L	3931	3947	1	-17.8	1.6103433	0.9335984	16	0	0
NM_015535	SPATS2L	3860	3876	1	-17.8	1.326363	0.97834	16	0	0
NM_001100422	SPATS2L	3920	3936	1	-17.8	1.6103433	0.9335984	16	0	0
NM_001100424	SPATS2L	3713	3729	1	-17.8	1.6103433	0.9335984	16	0	0
NM_001100423	SPATS2L	3870	3886	1	-17.8	2.4800313	1.0816523	16	0	0
NM_001282744	SPATS2L	3721	3737	1	-17.8	1.6103433	0.9335984	16	0	0
NM_001005210	LRRC55	3622	3666	1	-26.7	0.4639648	0.8026313	24	0	0
NM_170746	SELENOH	724	766	1	-22.8	0.1450714	0.2184625	16	0	0
NM_201648	GLYAT	1342	1355	1	-20.5	1.2366578	0.8967059	13	0	0
XM_017018188	STX3	1033	1051	1	-19.6	0	0	18	0	1
XM_017018195	STX3	922	940	1	-19.6	0	0	18	0	1
NM_206893	MS4A10	1230	1248	1	-19.6	-0.187921	-0.159521	18	0	0
NM_024811	CPSF7	3051	3068	1	-17.9	2.5582908	3.6297393	17	0	0
XM_017018345	CPSF7	2833	2850	1	-17.9	0	0	17	0	0
XM_011545259	CPSF7	2905	2922	1	-17.9	0	0	17	0	0
NM_001271686	RAB3IL1	1927	1962	1	-22.1	0.0575977	1.0420341	15	0	0
NM_001083926	ASRGL1	2212	2229	1	-19.3	0.6534332	0.6847393	17	0	0
NM_025080	ASRGL1	2135	2152	1	-19.3	0.6534332	0.6847393	17	0	0
NM_001079559	HNRNPUL2	4835	4853	1	-18.2	1.5135023	1.8687817	18	0	0
NM_178443	FERMT3	2341	2375	1	-27.6	-0.358082	-0.08294	25	0	0
NM_020390	EIF5A2	1157	1178	1	-14.6	0.0572393	0.5912076	21	0	0
NM_022763	FNDC3B	6497	6553	1	-22.9	1.0659253	0.916808	33	0	0
NM_001135095	FNDC3B	6424	6480	1	-22.9	0.8620367	0.6771453	33	0	0
NM_024665	TBL1XR1	2656	2681	1	-17.1	0.6992781	1.3102364	17	0	0
NM_001321193	TBL1XR1	2595	2620	1	-17.1	0.7485064	0.9744783	17	0	0
NM_001256753	PEX5L	3861	3880	1	-22.6	-0.141335	-0.131025	19	0	0
NM_001256751	PEX5L	3966	3985	1	-22.6	0.3973764	0.1632993	19	0	0
NM_001256750	PEX5L	4032	4051	1	-22.6	0.1494738	-0.001234	19	0	0
NM_001256752	PEX5L	3933	3952	1	-22.6	0.521328	-0.062197	19	0	0
NM_016559	PEX5L	4038	4057	1	-22.6	-0.274821	0.0387519	19	0	0
NM_001256756	PEX5L	3663	3682	1	-22.6	-0.558354	-0.041061	19	0	0
NM_001256755	PEX5L	3573	3592	1	-22.6	0.4023388	0.0180611	19	0	0
NM_001256754	PEX5L	3768	3787	1	-22.6	0.1780777	0.1600217	19	0	0
NM_001177800	ADIPOQ	2155	2169	1	-23.5	-0.167645	0.1380799	14	0	0
NM_004797	ADIPOQ	2104	2118	1	-23.5	-0.167645	0.1380799	14	0	0
NM_003722	TP63	4332	4351	1	-19.7	0.3881222	0.420021	19	0	0
NM_001114978	TP63	4238	4257	1	-19.7	0.3881222	0.420021	19	0	0
NM_001329144	TP63	4093	4112	1	-19.7	0.3881222	0.420021	19	0	0
NM_001329148	TP63	4320	4339	1	-19.7	0.3881222	0.420021	19	0	0

NM_001114980	TP63	4102	4121	1	-19.7	0.7122779	0.4977833	19	0	0
NM_001114981	TP63	4008	4027	1	-19.7	0.7122779	0.4977833	19	0	0
NM_001329145	TP63	3863	3882	1	-19.7	0.7122779	0.4977833	19	0	0
NM_001329146	TP63	3847	3866	1	-19.7	0.7122779	0.4977833	19	0	0
NM_0211101	CLDN1	2051	2062	1	-15.5	0.0332523	0.2297482	11	0	0
NM_001166306	TMEM44	1594	1608	1	-22.8	0.857709	1.2583637	14	0	0
NM_001011655	TMEM44	1598	1612	1	-22.8	0.857709	1.2583637	14	0	0
NM_138399	TMEM44	1628	1642	1	-22.8	0.857709	1.2583637	14	0	0
NM_001166305	TMEM44	1739	1753	1	-22.8	0.857709	1.2583637	14	0	0
XM_005269270	TNK2	3815	3857	1	-23.4	0	0	42	0	0
XM_017005508	TNK2	3861	3903	1	-23.4	0	0	42	0	0
NM_001010938	TNK2	3871	3913	1	-23.4	3.4997501	2.7138492	42	0	0
NM_001313965	TFRC	4417	4437	1	-21.2	0.4380309	2.0856582	20	1	0
NM_003234	TFRC	4760	4780	1	-21.2	0.6735337	1.8585047	20	1	0
NM_005929	MELTF	3564	3581	1	-22.2	3.3404384	2.552937	17	0	0
NM_001145642	RUBCN	5443	5459	1	-21.2	0.2814694	-0.138268	16	0	0
NM_014687	RUBCN	5239	5255	1	-21.2	-0.201228	0.132266	16	0	0
XM_005269374	RUBCN	5279	5295	1	-21.2	0	0	16	0	0
NM_001011537	FYTDD1	2023	2046	1	-17.5	0.2246534	0.56087	23	0	0
NM_032288	FYTDD1	2082	2105	1	-17.5	0.5424277	0.5625722	23	0	0
NM_001289057	PIGG	1750	1798	1	-25.1	0.4029531	0.4153668	23	0	0
