

Supplementary Material

A Minimal lncRNA-mRNA Signature Predicts Sensitivity to Neoadjuvant Chemotherapy in Triple-Negative Breast Cancer

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Supplementary Table 1. Differentially expressed coding genes and lncRNAs between pCR and nCR

Gene stable ID	Transcript stable ID	P.Value	logFC	HGNC symbol	Transcript length (including UTRs and CDS)	Chromosome/scaffold name	Gene start (bp)	Gene end (bp)	Transcript type
ENSG00000140526	ENST00000352732	0.0062368	-1.215811	ABHD2	8735	15	89087459	89202360	protein_coding
ENSG00000178031	ENST00000380548	0.0057017	0.961969	ADAMTSL1	8030	9	17906563	18910950	protein_coding
ENSG00000178038	ENST00000486301	0.0025409	-2.0075106	ALS2CL	4431	3	46668997	46693704	retained_intron
ENSG00000178171	ENST00000423981	0.0034298	-0.6207027	AMER3	6172	2	130755435	130768134	protein_coding
ENSG00000214174	ENST00000430983	0.0092986	-1.2371322	AMZ2P1	3425	17	64966550	64975576	processed_transcript
ENSG00000153930	ENST00000566473	0.0076973	-0.8769936	ANKFN1	3840	17	55882301	56511659	protein_coding
ENSG00000185722	ENST00000341657	0.0054568	1.8571962	ANKFY1	7418	17	4163907	4263977	protein_coding
ENSG00000107890	ENST00000376087	0.002621	1.2558191	ANKRD26	6591	10	26991914	27100498	protein_coding
ENSG00000248546	ENST00000512835	0.0050737	1.0872202	ANP32C	705	4	164197007	164197711	processed_pseudogene
ENSG00000264230	ENST00000616785	0.0063905	0.5505832	ANXA8L1	1700	10	46375627	46537864	processed_transcript
ENSG00000160007	ENST00000404338	0.0074068	1.5642279	ARHGAP35	8889	19	46918676	47005077	protein_coding
ENSG00000102606	ENST00000375723	0.005103	0.6899451	ARHGEF7	4957	13	111114559	111305737	protein_coding
ENSG00000165997	ENST00000377275	0.004181	0.9762795	ARL5B	7196	10	18659405	18681639	protein_coding
ENSG00000141748	ENST00000581554	0.001677	-0.8939588	ARL5C	2412	17	39156894	39167484	retained_intron
ENSG00000144746	ENST00000273258	0.0091618	0.5177921	ARL6IP5	2101	3	69084944	69106066	protein_coding
ENSG00000134108	ENST00000256496	0.0059507	0.5296791	ARL8B	3005	3	5122220	5180912	protein_coding
ENSG00000111875	ENST00000229595	0.0095528	-1.3745795	ASF1A	2362	6	118894220	118909167	protein_coding
ENSG00000119787	ENST00000406122	0.0017352	0.9939358	ATL2	2864	2	38294880	38377285	protein_coding
ENSG00000068650	ENST00000487903	0.0093714	1.028493	ATP11A	8858	13	112690329	112887168	protein_coding
ENSG00000132932	ENST00000381655	0.0084013	1.9380074	ATP8A2	9575	13	25372071	26025851	protein_coding
ENSG00000166148	ENST00000299178	0.0033209	0.7598425	AVPR1A	5963	12	63142759	63150942	protein_coding
ENSG00000170340	ENST00000301998	0.0025238	1.5143644	B3GNT2	2763	2	62196113	62224731	protein_coding
ENSG00000153064	ENST00000504592	0.0008979	-1.6685205	BANK1	3544	4	101411286	102074812	protein_coding
ENSG00000232416	ENST00000418282	0.0020146	0.7245639	BPESC1	3522	3	139104185	139125171	lincRNA
ENSG00000171634	ENST00000306378	0.0007808	0.8423553	BPTF	9688	17	67825524	67984378	protein_coding
ENSG00000165507	ENST00000298295	0.00495	-1.1675076	C10orf10	2120	10	44970981	44978810	protein_coding
ENSG00000106392	ENST00000223122	0.0017497	-0.7725515	C1GALT1	6078	7	7156934	7248651	protein_coding
ENSG00000180044	ENST00000326474	0.0021606	-1.2456557	C3orf80	2718	3	160225496	160228213	protein_coding
ENSG00000164096	ENST00000399075	0.0015061	2.0216668	C4orf3	2960	4	119296419	119304445	protein_coding
ENSG00000175544	ENST00000438189	0.008142	-2.1461177	CABP4	1426	11	67452406	67460313	protein_coding

ENSG00000110680	ENST00000494746	0.0030895	-2.1290454	CALCA	1837	11	14966668	14972354	retained_intron
ENSG00000143919	ENST00000378494	0.0014988	1.6137704	CAMKMT	1495	2	44361950	44772592	protein_coding
ENSG00000242715	ENST00000379864	0.0087596	0.4780324	CCDC169	5944	13	36222008	36297840	protein_coding
ENSG00000173093	ENST00000545036	0.0042949	-1.5483785	CCDC63	1887	12	110846769	110907535	protein_coding
ENSG00000275528	ENST00000631730	0.0017472	-2.4210434	CCL15	718	CHR_HSCHR17_7_CTG4	35996472	36002080	protein_coding
ENSG00000116815	ENST00000369489	0.0062964	1.4533993	CD58	1098	1	116514535	116571039	protein_coding
ENSG00000085063	ENST00000395850	0.0019102	-1.604531	CD59	1889	11	33698261	33736445	protein_coding
ENSG00000079335	ENST00000336454	0.0090177	1.4403637	CDC14A	4137	1	100345025	100520277	protein_coding
ENSG00000168438	ENST00000606893	0.0052818	1.1645987	CDC40	3372	6	110180141	110254275	retained_intron
ENSG00000183137	ENST00000517392	0.0080689	-1.9082634	CEP57L1	2771	6	109095110	109163932	protein_coding
ENSG00000153774	ENST00000612761	0.0052738	0.6328115	CFDP1	395	16	75293698	75433485	protein_coding
ENSG00000171365	ENST00000376088	0.0085795	-1.9424912	CLCN5	10108	X	49922615	50099235	protein_coding
ENSG00000198178	ENST00000542353	0.0035087	-1.4536404	CLEC4C	1314	12	7729415	7751605	protein_coding
ENSG00000250433	ENST00000513309	0.0058816	0.9714012	CLSTN2-AS1	2693	3	140505611	140508789	antisense_RNA
ENSG00000141367	ENST00000496076	0.0003083	-1.8143678	CLTC	678	17	59619689	59696956	retained_intron
ENSG00000149972	ENST00000524871	0.0072378	1.4509253	CNTN5	6258	11	99020953	100358885	protein_coding
ENSG00000101203	ENST00000422202	0.0033937	-2.4318299	COL20A1	8097	20	63293186	63334851	protein_coding
ENSG00000081052	ENST00000396625	0.0084173	-0.9315895	COL4A4	9895	2	227002711	227164113	protein_coding
ENSG00000139117	ENST00000331366	0.0070347	1.0047822	CPNE8	3489	12	38646822	38907430	protein_coding
ENSG00000127377	ENST00000476631	0.0049263	0.955715	CRYGN	2367	7	151428835	151440813	processed_transcript
ENSG00000169826	ENST00000374466	0.0070005	-1.3374432	CSGALNACT2	3730	10	43138486	43185308	protein_coding
ENSG00000231163	ENST00000425631	0.009892	-1.2947388	CSMD2-AS1	1367	1	33868953	33885458	antisense_RNA
ENSG00000125831	ENST00000377009	0.0019331	-0.6284722	CST11	554	20	23450403	23452857	protein_coding
ENSG00000036257	ENST00000541548	0.0048436	0.627627	CUL3	535	2	224470150	224585397	processed_transcript
ENSG00000226752	ENST00000458394	0.0084799	1.4967117	CUTALP	884	9	120824828	120854385	retained_intron
ENSG00000187893	ENST00000483225	0.0043781	0.680963	CXXC1P1	1897	X	47707191	47753456	processed_transcript
ENSG00000197410	ENST00000357232	0.0049196	-1.5400759	DCHS2	11249	4	154232037	154491716	protein_coding
ENSG00000277594	ENST00000615769	0.003734	1.9903759	DDX52	6359	CHR_HSCHR17_7_CTG4	37614320	37648026	protein_coding
ENSG00000174485	ENST00000443035	0.0023735	-1.1356839	DENND4A	8665	15	65658046	65792293	protein_coding
ENSG00000187726	ENST00000339764	0.0058522	0.6468817	DNAJB13	1875	11	73950319	73970366	protein_coding
ENSG00000115137	ENST00000264711	0.0061569	-1.2461281	DNAJC27	4992	2	24943636	24972094	protein_coding
ENSG00000119772	ENST00000264709	0.0051131	0.8269505	DNMT3A	9501	2	25227855	25342590	protein_coding
ENSG00000186976	ENST00000396231	0.0025848	-1.6497454	EFCAB6	4424	22	43528744	43812337	protein_coding
ENSG00000146648	ENST00000344576	0.0078963	-1.6864721	EGFR	2864	7	55019021	55211628	protein_coding
ENSG00000156976	ENST00000465267	0.0076191	1.3993706	EIF4A2	1054	3	186783205	186789900	retained_intron

ENSG00000204398	ENST00000607406	0.006723	-1.3361254	ENSG00000204398	1741	13	111588201	111672608	lincRNA
ENSG00000226403	ENST00000441028	0.0088208	0.7298455	ENSG00000226403	367	9	547317	549531	sense_intronic
ENSG00000228124	ENST00000438877	0.0089572	0.506473	ENSG00000228124	472	6	89673469	89675783	antisense_RNA
ENSG00000230773	ENST00000447571	0.0045558	-1.5035106	ENSG00000230773	1808	2	47941696	48240983	lincRNA
ENSG00000250328	ENST00000505546	0.0014928	-1.2125367	ENSG00000250328	558	5	122436497	122479087	antisense_RNA
ENSG00000250546	ENST00000513489	0.0043147	-1.8398565	ENSG00000250546	739	4	83796436	84293412	lincRNA
ENSG00000254027	ENST00000518880	0.0074542	1.1049044	ENSG00000254027	620	8	81279871	81281446	antisense_RNA
ENSG00000257894	ENST00000550268	0.0031542	0.5041027	ENSG00000257894	1820	12	79341205	79503396	lincRNA
ENSG00000259267	ENST00000558852	0.0049781	0.9268606	ENSG00000259267	409	10	70939053	70955641	lincRNA
ENSG00000259907	ENST00000561794	0.0042216	0.7812305	ENSG00000259907	651	14	71181456	71182106	lincRNA
ENSG00000260624	ENST00000562667	0.0081274	-0.5506399	ENSG00000260624	316	15	73870950	73873366	antisense_RNA
ENSG00000260832	ENST00000565238	0.0025511	1.4762753	ENSG00000260832	1493	16	82953230	82990298	antisense_RNA
ENSG00000261071	ENST00000566170	0.0035592	-0.8083609	ENSG00000261071	1045	6	13614111	13615155	antisense_RNA
ENSG00000261655	ENST00000562459	0.0051698	-1.252897	ENSG00000261655	1963	8	141353403	141355365	sense_overlapping
ENSG00000262873	ENST00000575647	0.0017475	-1.4035569	ENSG00000262873	351	17	81017969	81020011	lincRNA
ENSG00000263013	ENST00000570440	0.0081579	0.7521529	ENSG00000263013	1159	16	10938886	10940044	sense_intronic
ENSG00000263938	ENST00000582080	0.0099207	-1.4907734	ENSG00000263938	776	17	58965952	58966727	sense_intronic
ENSG00000265460	ENST00000579400	0.0072626	1.6330578	ENSG00000265460	975	17	39238466	39250818	transcribed_processed_pseudogene
ENSG00000267114	ENST00000591646	0.0065644	-1.4683518	ENSG00000267114	361	19	44950044	44954007	lincRNA
ENSG00000267610	ENST00000588095	0.0007684	-1.1455146	ENSG00000267610	1583	19	13069792	13071374	antisense_RNA
ENSG00000268812	ENST00000608354	0.0066496	-1.4342137	ENSG00000268812	794	22	30246205	30246998	antisense_RNA
ENSG00000269973	ENST00000602458	0.0079005	-0.7888395	ENSG00000269973	3231	2	9936360	9939590	lincRNA
ENSG00000270062	ENST00000602615	0.0048161	-1.2063957	ENSG00000270062	496	14	50723777	50724272	sense_intronic
ENSG00000272990	ENST00000609190	0.0062509	-0.9117302	ENSG00000272990	508	3	156523740	156524247	antisense_RNA
ENSG00000282375	ENST00000631653	0.0071387	-1.5006099	ENSG00000282375	1827	8	738548	740374	lincRNA
ENSG00000142627	ENST00000358432	0.0096558	-0.9233631	EPHA2	3964	1	16124337	16156087	protein_coding
ENSG00000177106	ENST00000318562	0.0039287	0.8696866	EPS8L2	3148	11	694438	727727	protein_coding
ENSG00000120160	ENST00000380032	0.0065646	-1.2439879	EQTN	1033	9	27284659	27297139	protein_coding
ENSG00000117480	ENST00000243167	0.0009024	-1.8980197	FAAH	2094	1	46394265	46413848	protein_coding
ENSG00000138439	ENST00000392238	0.0064775	-1.5720905	FAM117B	5763	2	202635188	202769757	protein_coding
ENSG00000233334	ENST00000448422	0.0079827	-1.7148789	FAM53B-AS1	1491	10	124703625	124714217	antisense_RNA
ENSG00000235879	ENST00000427163	0.0010667	1.8968322	FAR1P1	934	13	90170866	90171799	processed_pseudogene
ENSG00000157107	ENST00000430046	0.0073028	-0.9014125	FCHO2	4981	5	72955981	73090522	protein_coding
ENSG00000128573	ENST00000462331	0.0055459	-0.54226	FOXP2	1388	7	114086327	114693772	protein_coding
ENSG00000100350	ENST00000397224	0.0058541	0.7659521	FOXRED2	4967	22	36487190	36507101	protein_coding

ENSG00000163820	ENST00000433878	0.0025468	0.8117986	FYC01	4317	3	45917899	45995824	protein_coding
ENSG00000113327	ENST00000640500	0.0040851	1.6132732	GABRG2	2849	5	162000057	162162977	processed_transcript
ENSG00000116717	ENST00000370986	0.004437	2.3949949	GADD45A	1496	1	67685061	67688338	protein_coding
ENSG00000141012	ENST00000568311	0.0047132	1.0944891	GALNS	703	16	88813734	88856970	protein_coding
ENSG00000234741	ENST00000449289	0.0087032	-1.3682608	GAS5	542	1	173863900	173868882	lincRNA
ENSG00000187210	ENST00000488136	0.0011588	1.5846307	GCNT1	541	9	76419850	76507416	processed_transcript
ENSG00000119125	ENST00000358399	0.0010967	-1.2973679	GDA	5340	9	72114595	72257193	protein_coding
ENSG00000197858	ENST00000526341	0.008819	1.3832179	GPAA1	557	8	144082590	144086216	processed_transcript
ENSG00000246705	ENST00000544848	0.0029107	-1.3043398	H2AFJ	644	12	14774383	14778002	protein_coding
ENSG00000213931	ENST00000380237	0.0097798	0.42236	HBE1	913	11	5268345	5505617	protein_coding
ENSG00000112339	ENST00000367837	0.0058384	0.5624326	HBS1L	7163	6	134960378	135103056	protein_coding
ENSG00000010704	ENST00000397022	0.0086554	-1.2076232	HFE	1280	6	26087281	26098343	protein_coding
ENSG00000187475	ENST00000338379	0.0001495	1.7956977	HIST1H1T	718	6	26107419	26108136	protein_coding
ENSG00000177733	ENST00000314940	0.0094499	2.1863895	HNRNPA0	8726	5	137745651	137754376	protein_coding
ENSG00000099783	ENST00000597813	0.0099778	0.6522693	HNRNPM	630	19	8444767	8489114	retained_intron
ENSG00000115756	ENST00000307845	0.0011272	-1.4851886	HPCAL1	1751	2	10302889	10427617	protein_coding
ENSG00000096384	ENST00000371646	0.0069513	0.7749192	HSP90AB1	2572	6	44246166	44253888	protein_coding
ENSG00000115604	ENST00000410040	0.0042777	1.6195931	IL18R1	1749	2	102311529	102398775	protein_coding
ENSG00000136694	ENST00000259211	0.0000653	-1.7929924	IL36A	888	2	113005461	113008044	protein_coding
ENSG00000115274	ENST00000233331	0.0027466	-1.8660227	INO80B	1261	2	74455023	74457960	protein_coding
ENSG00000169592	ENST00000563197	0.0069784	1.8433096	INO80E	2103	16	29995294	30005793	protein_coding
ENSG00000188487	ENST00000379554	0.0029603	1.5299501	INSC	2954	11	15112424	15247208	protein_coding
ENSG00000068745	ENST00000340879	0.0087591	-1.7928199	IP6K2	1185	3	48688003	48740353	protein_coding
ENSG00000164171	ENST00000296585	0.0035473	0.7667675	ITGA2	7869	5	52989326	53094779	protein_coding
ENSG00000177807	ENST00000368089	0.0044396	-0.9967711	KCNJ10	5528	1	159998651	160070483	protein_coding
ENSG00000151364	ENST00000353172	0.0004994	1.8216045	KCTD14	1691	11	78015715	78046191	protein_coding
ENSG00000250423	ENST00000402510	0.0003334	-2.3259555	KIAA1210	7824	X	119078635	119150579	protein_coding
ENSG00000250305	ENST00000524591	0.0092765	0.4685815	KIAA1456	9587	8	12945642	13031503	protein_coding
ENSG00000129250	ENST00000320785	0.0081618	-1.223255	KIF1C	7919	17	4997948	5028401	protein_coding
ENSG00000172059	ENST00000305883	0.000657	0.835924	KLF11	4030	2	10042849	10054836	protein_coding
ENSG00000186081	ENST00000252242	0.0017909	1.2395085	KRT5	2531	12	52514575	52520687	protein_coding
ENSG00000264707	ENST00000578427	0.0025603	-0.6437771	L3MBTL4-AS1	2044	18	6256747	6260934	lincRNA
ENSG00000196878	ENST00000356082	0.0030171	0.805209	LAMB3	4055	1	209614870	209652466	protein_coding
ENSG00000058085	ENST00000264144	0.0023787	-1.5953131	LAMC2	5147	1	183186238	183244900	protein_coding
ENSG00000229373	ENST00000609661	0.0073864	0.6295851	LINC00452	2896	13	113888306	113923512	lincRNA

ENSG00000259703	ENST00000558385	0.0081518	-1.3197202	LINC00593	763	15	69835234	69843120	lincRNA
ENSG00000214900	ENST00000623502	0.0042058	0.7498328	LINC01588	975	14	49927571	50092643	lincRNA
ENSG00000253658	ENST00000518540	0.0081764	-1.0189537	LINC01592	2367	8	68911803	69104190	lincRNA
ENSG00000253311	ENST00000522627	0.0006538	-2.5433758	LINC01847	5607	5	159698586	159937766	antisense_RNA
ENSG00000224137	ENST00000429730	0.0010968	0.8139984	LINC01857	492	2	207662375	207667024	lincRNA
ENSG00000256232	ENST00000541749	0.0085127	0.5701361	LINC02387	868	12	31363481	31369301	lincRNA
ENSG00000165131	ENST00000458732	0.0089106	1.1921701	LLCFC1	717	7	142939343	142940868	protein_coding
ENSG00000160959	ENST00000292524	0.0053789	1.4547881	LRRC14	5328	8	144517992	144525178	protein_coding
ENSG00000127399	ENST00000323078	0.005216	0.9893384	LRRC61	1684	7	150322639	150338150	protein_coding
ENSG00000062524	ENST00000355166	0.0020974	-1.3393527	LTK	2940	15	41503638	41513887	protein_coding
ENSG00000061337	ENST00000522290	0.0061411	-1.6512778	LZTS1	1614	8	20246165	20303963	protein_coding
ENSG00000187601	ENST00000342972	0.0048945	1.8349354	MAGEH1	1462	X	55452105	55453566	protein_coding
ENSG00000108984	ENST00000590474	0.0087119	0.6664236	MAP2K6	2870	17	69414698	69543331	protein_coding
ENSG00000069020	ENST00000403625	0.0035096	0.6965847	MAST4	10711	5	66596361	67169595	protein_coding
ENSG00000170948	ENST00000595891	0.0013471	0.7640848	MBD3L1	872	19	8832398	8843340	protein_coding
ENSG00000180182	ENST00000324817	0.0034224	-2.2007876	MED14	7984	X	40648306	40735858	protein_coding
ENSG00000116691	ENST00000478749	0.0010443	0.8319606	MIIP	779	1	12019466	12032045	processed_transcript
ENSG00000137674	ENST00000260228	0.0092325	-0.8095069	MMP20	1956	11	102576835	102625332	protein_coding
ENSG00000073146	ENST00000354853	0.0044613	0.9659558	MOV10L1	1701	22	50089879	50161690	protein_coding
ENSG00000181991	ENST00000559125	0.0022644	-1.5093432	MRPS11	453	15	88467453	88480773	retained_intron
ENSG00000186301	ENST00000457982	0.0023791	-0.9034521	MST1P2	2291	1	16645622	16650289	unprocessed_pseudogene
ENSG00000215041	ENST00000315614	0.0053404	2.2241018	NEURL4	5182	17	7315628	7329393	protein_coding
ENSG00000082641	ENST00000362042	0.0048628	0.8802049	NFE2L1	4774	17	48048329	48061487	protein_coding
ENSG00000237928	ENST00000438559	0.0086284	-1.2386211	NFIA-AS2	1275	1	60940239	60970776	antisense_RNA
ENSG00000167034	ENST00000380871	0.004649	0.5849414	NKX3-1	3271	8	23678693	23682927	protein_coding
ENSG00000103024	ENST00000564252	0.0005613	2.0986212	NME3	599	16	1770286	1771730	retained_intron
ENSG00000143156	ENST00000493481	0.0028845	-1.3203136	NME7	424	1	169132531	169367967	processed_transcript
ENSG00000143257	ENST00000367983	0.0085973	-1.5131106	NR1I3	1473	1	161229666	161238302	protein_coding
ENSG00000198400	ENST00000392302	0.0095641	-1.2374075	NTRK1	2609	1	156815640	156881850	protein_coding
ENSG00000148053	ENST00000277120	0.0070391	-1.3749928	NTRK2	8633	9	84668551	85027070	protein_coding
ENSG00000094661	ENST00000641398	0.0075893	0.6365399	OR1I1	5984	19	15082211	15092970	protein_coding
ENSG00000233687	ENST00000450817	0.0064596	-0.6513029	OR2B3	1007	CHR_HSCHR6_MHC_MCF_CTG1	29086444	29087450	protein_coding
ENSG00000203663	ENST00000642011	0.0078246	-1.0676392	OR2L2	4225	1	248030070	248042305	protein_coding
ENSG00000076641	ENST00000220597	0.0091822	-0.7170659	PAG1	10744	8	80967810	81112068	protein_coding
ENSG00000171815	ENST00000306549	0.0006523	2.9264221	PCDHB1	8210	5	141051135	141059344	protein_coding

ENSG00000205861	ENST00000382133	0.0050616	-2.0201631	PCOTH	805	13	23888889	23897263	protein_coding
ENSG00000175087	ENST00000374271	0.0037411	-1.1041713	PDIK1L	4279	1	26111165	26125543	protein_coding
ENSG00000142102	ENST00000474221	0.0087809	-1.1634	PGGHG	4418	11	289135	296107	retained_intron
ENSG00000165434	ENST00000298198	0.0095103	1.4959394	PGM2L1	8515	11	74330318	74398473	protein_coding
ENSG00000013375	ENST00000513973	0.008635	-1.6305388	PGM3	6107	6	83161150	83193936	protein_coding
ENSG00000106443	ENST00000403050	0.0078184	1.1189755	PHF14	4276	7	10973872	11169630	protein_coding
ENSG00000172943	ENST00000338154	0.0005842	0.7523211	PHF8	6062	X	53936676	54048958	protein_coding
ENSG00000078142	ENST00000262039	0.0037943	1.6454236	PIK3C3	9443	18	41955206	42087830	protein_coding
ENSG00000008710	ENST00000262304	0.0000318	0.803687	PKD1	14138	16	2088710	2135898	protein_coding
ENSG00000184363	ENST00000533249	0.0018978	-1.1750415	PKP3	1111	11	392614	404908	protein_coding
ENSG00000187583	ENST00000379410	0.0077346	-1.8242329	PLEKHN1	2404	1	966497	975865	protein_coding
ENSG00000183837	ENST00000619635	0.0021912	-1.5821194	PNMA3	3627	X	153056409	153060467	protein_coding
ENSG00000256525	ENST00000539111	0.0020434	1.9243996	POLG2	1564	17	64477785	64497036	protein_coding
ENSG00000064835	ENST00000350375	0.0071673	-1.0376717	POU1F1	1491	3	87259404	87276587	protein_coding
ENSG00000279782	ENST00000581138	0.0051378	-1.272033	PPIAL4F	660	1	144592868	144593527	protein_coding
ENSG00000071677	ENST00000165524	0.0038558	1.8233398	PRLH	264	2	237566574	237567175	protein_coding
ENSG00000186654	ENST00000432186	0.0050846	1.2515586	PRR5	905	22	44668547	44737681	protein_coding
ENSG00000010017	ENST00000011619	0.0035025	1.7912323	RANBP9	3113	6	13621498	13711564	protein_coding
ENSG00000101265	ENST00000478553	0.000273	-2.1420711	RASSF2	5201	20	4780023	4823645	processed_transcript
ENSG00000224657	ENST00000451071	0.0098275	-0.983782	RBMY2BP	1156	Y	22649245	22658878	transcribed_unprocessed_pseudogene
ENSG00000076344	ENST00000397770	0.0029619	2.6504708	RGS11	2390	16	268301	275980	protein_coding
ENSG00000079841	ENST00000370419	0.0013574	-1.0416571	RIMS1	6674	6	71886703	72403143	retained_intron
ENSG00000111913	ENST00000259698	0.0071348	-1.005268	RIPOR2	5471	6	24804282	25042018	protein_coding
ENSG00000111880	ENST00000369485	0.0036279	-1.6262618	RNGTT	4553	6	88610272	88963721	protein_coding
ENSG00000144713	ENST00000429711	0.0021842	1.7625668	RPL32	2117	3	12834485	12841588	protein_coding
ENSG00000108443	ENST00000225577	0.0029721	-0.7490248	RPS6KB1	5375	17	59893046	59950564	protein_coding
ENSG00000133318	ENST00000538995	0.005067	-0.9045289	RTN3	814	11	63681446	63759891	processed_transcript
ENSG00000163221	ENST00000368737	0.0075601	-2.187476	S100A12	518	1	153373706	153375649	protein_coding
ENSG00000169439	ENST00000302190	0.0017661	0.7935229	SDC2	3759	8	96493351	96611780	protein_coding
ENSG00000135919	ENST00000409304	0.0068184	-0.8270277	SERPINE2	2161	2	223975112	224039319	protein_coding
ENSG00000175793	ENST00000339276	0.002554	-1.8910838	SFN	1320	1	26863138	26864457	protein_coding
ENSG00000197860	ENST00000381007	0.0094207	-1.1051598	SGTB	5469	5	65665928	65723035	protein_coding
ENSG00000125900	ENST00000429387	0.009936	0.8613715	SIRPD	416	20	1534251	1558843	protein_coding
ENSG00000165970	ENST00000525748	0.0082668	0.6616278	SLC6A5	7084	11	20599400	20659285	protein_coding
ENSG00000111850	ENST00000608353	0.0063024	0.6935524	SMIM8	2111	6	87322583	87399749	protein_coding

ENSG00000252213	ENST00000516404	0.0016505	1.0263515	SNORA74D	141	5	139276180	139276320	snoRNA
ENSG00000174226	ENST00000311812	0.0011697	0.817201	SNX31	2457	8	100572882	100663415	protein_coding
ENSG00000224243	ENST00000421423	0.006632	-1.6216781	SOX1-OT	545	13	112107119	112108015	lincRNA
ENSG00000170469	ENST00000509959	0.0024584	-1.2654043	SPATA24	641	5	139396563	139404088	protein_coding
ENSG00000189419	ENST00000558307	0.0020814	-0.8095427	SPATA41	1252	15	100344457	100349655	lincRNA
ENSG00000197912	ENST00000268704	0.0011945	1.1707205	SPG7	3076	16	89490917	89557768	protein_coding
ENSG00000116350	ENST00000634348	0.0095778	-0.7340492	SRSF4	8128	1	29147743	29181987	retained_intron
ENSG00000173465	ENST00000309328	0.0067506	-0.6684215	SSSCA1	698	11	65570430	65573942	protein_coding
ENSG00000110080	ENST00000524834	0.0081752	0.8592141	ST3GAL4	788	11	126355640	126440344	processed_transcript
ENSG00000136840	ENST00000335791	0.0065646	-0.6704392	ST6GALNAC4	1691	9	127907886	127917038	protein_coding
ENSG00000169302	ENST00000397936	0.0072386	1.0220744	STK32A	5393	5	147234963	147387852	protein_coding
ENSG00000015592	ENST00000350889	0.0082775	0.771778	STMN4	2288	8	27235323	27258420	protein_coding
ENSG00000166263	ENST00000405898	0.0069576	-1.4287104	STXBP4	2229	17	54968727	55173632	protein_coding
ENSG00000198203	ENST00000251481	0.0085813	0.5512296	SULT1C2	2795	2	108288639	108309915	protein_coding
ENSG00000198203	ENST00000495441	0.0059995	-1.7078343	SULT1C2	6366	2	108288639	108309915	retained_intron
ENSG00000183379	ENST00000554823	0.0052452	0.5231526	SYNDIG1L	2420	14	74405893	74426102	protein_coding
ENSG00000131018	ENST00000490135	0.0059562	1.3838999	SYNE1	5707	6	152121684	152637801	retained_intron
ENSG00000120498	ENST00000374333	0.0081029	-1.3011843	TEX11	3032	X	70528940	70908731	protein_coding
ENSG00000196407	ENST00000453881	0.0071332	-0.9100214	THEM5	355	1	151847263	151853697	protein_coding
ENSG00000126768	ENST00000472645	0.0089102	-0.6028201	TIMM17B	804	X	48893447	48898143	processed_transcript
ENSG00000152128	ENST00000281924	0.0049292	-0.9523146	TMEM163	1892	2	134455759	134719000	protein_coding
ENSG00000120802	ENST00000546828	0.0059809	-1.3823407	TMP0	564	12	98515512	98550379	processed_transcript
ENSG00000064419	ENST00000265388	0.0061163	-0.5911121	TNP03	4153	7	128954180	129055173	protein_coding
ENSG00000219491	ENST00000510120	0.0028242	1.7183558	TPT1P8	555	8	36888482	36889307	unprocessed_pseudogene
ENSG00000186439	ENST00000334268	0.0096558	0.6102648	TRDN	4770	6	123216339	123637093	protein_coding
ENSG00000146054	ENST00000274773	0.0057676	-1.5843516	TRIM7	2840	5	181193924	181205293	protein_coding
ENSG00000182912	ENST00000330490	0.005334	2.5428537	TSPEAR-AS2	823	21	44517216	44525952	antisense_RNA
ENSG00000187189	ENST00000420283	0.0082257	1.1322526	TSPYL4	4180	6	116249961	116254140	protein_coding
ENSG00000215845	ENST00000462952	0.0088328	1.2386243	TSTD1	591	1	161037631	161038990	retained_intron
ENSG00000162571	ENST00000379290	0.0022575	-1.2919938	TTL10	2283	1	1173884	1197935	protein_coding
ENSG00000228247	ENST00000376781	0.0071144	-1.3104437	UBBP2	231	1	217850403	217850633	processed_pseudogene
ENSG00000140367	ENST00000267938	0.009589	0.5227303	UBE2Q2	3130	15	75843285	75901078	protein_coding
ENSG00000163794	ENST00000296099	0.007923	-0.6559443	UCN	795	2	27307400	27308445	protein_coding
ENSG00000014123	ENST00000461673	0.0069004	0.6356761	UFL1	458	6	96521595	96555276	processed_transcript
ENSG00000100483	ENST00000569518	0.0011097	1.572896	VCPKMT	1827	14	50108632	50116600	retained_intron

ENSG00000136709	ENST00000322313	0.0084585	-1.3345497	WDR33	9471	2	127701022	127811187	protein_coding
ENSG00000047056	ENST00000381329	0.00057	-1.5361912	WDR37	1307	10	1049538	1132297	protein_coding
ENSG00000166415	ENST00000396328	0.0052822	-2.4617008	WDR72	7507	15	53513741	53762878	protein_coding
ENSG00000166415	ENST00000567224	0.0049788	-1.3023523	WDR72	4333	15	53513741	53762878	processed_transcript
ENSG00000101443	ENST00000372676	0.0034861	-1.2732492	WFDC2	614	20	45469706	45481532	protein_coding
ENSG00000119820	ENST00000238831	0.001154	-1.5278308	YIPF4	11949	2	32277910	32316594	protein_coding
ENSG00000126804	ENST00000358738	0.0097947	-0.5040302	ZBTB1	4119	14	64503712	64533690	protein_coding
ENSG00000175048	ENST00000340347	0.0063443	1.5906101	ZDHC14	328	6	157381133	157678146	protein_coding
ENSG00000136866	ENST00000374227	0.0099195	0.6114836	ZFP37	6266	9	113038380	113056759	protein_coding
ENSG00000196418	ENST00000472531	0.0083488	-0.8492916	ZNF124	2243	1	247121975	247172016	protein_coding
ENSG00000131116	ENST00000300811	0.0003238	-1.7346598	ZNF428	1412	19	43607219	43619874	protein_coding
ENSG00000187187	ENST00000596894	0.0033315	0.794344	ZNF546	714	19	39984134	40021041	protein_coding
ENSG00000142556	ENST00000356322	0.0026299	2.3727183	ZNF614	1293	19	52012765	52030240	protein_coding
ENSG00000196757	ENST00000254321	0.0056615	-1.4782409	ZNF700	2882	19	11925068	11950773	protein_coding
ENSG00000274352	ENST00000632731	0.0026731	0.6810009	ZNF707	1252	3	143671459	143700905	processed_transcript
ENSG00000278091	ENST00000625004	0.0019562	-1.081228	ZNF85	506	1	20929638	20957113	protein_coding