

Title: Long intergenic non-coding RNA 271 is predictive of a poorer prognosis of papillary thyroid cancer

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Table S1 The annotated 2773 lncRNAs from the website of HGNC

HGNC ID	Approved Symbol	Chromosome	Accession Numbers	Entrez Gene ID	Ensembl Gene ID	Pubmed IDs	RefSeq IDs
HGNC:37133	A1BG-AS1	19q13.43	BC040926	503538	ENSG00000268895		NR_015380
HGNC:27057	A2M-AS1	12p13.31		144571	ENSG00000245105		NR_026971
HGNC:41022	A2ML1-AS1	12p13.31			ENSG00000256661		
HGNC:41523	A2ML1-AS2	12p13.31			ENSG00000256904		
HGNC:50301	AADACL2-AS1	3q25.1		101928142	ENSG00000242908		
HGNC:51526	AATBC	21q22.3		284837	ENSG00000215458	25473900	NR_026961
HGNC:40053	AATK-AS1	17q25.3		388428	ENSG00000225180		
HGNC:49667	ABALON	20q11.21	KC505631	103021294		24992962	NR_131907
HGNC:39983	ABCA9-AS1	17q24.2			ENSG00000231749		
HGNC:40055	ABCC5-AS1	3q27.1			ENSG00000223882		
HGNC:18289	ABHD11-AS1	7q11.23	BU595969	171022	ENSG00000225969	24984296, 25619660	NR_026690
HGNC:49685	ABHD15-AS1	17q11.2	CN275323		ENSG00000264031	24504737	
HGNC:41426	ACAP2-IT1	3q29			ENSG00000229325		
HGNC:45169	ACTA2-AS1	10q23.31	AK093340, AX748062	100132116	ENSG00000180139	24721325	
HGNC:20131	ACTN1-AS1	14q24.1	DB029126, AI147349	161159	ENSG00000259062		
HGNC:44161	ACVR2B-AS1	3p22.2	AK025619	100128640	ENSG00000229589		NR_028389
HGNC:40625	ADAMTS9-AS1	3p14.1		101929335	ENSG00000241158		
HGNC:42435	ADAMTS9-AS2	3p14.1		100507098	ENSG00000241684	24833086	
HGNC:40797	ADAMTS19-AS1	5q23.3	DA728271		ENSG00000249421		
HGNC:32041	ADAMTSL4-AS1	1q21.2	AK127688		ENSG00000203804		
HGNC:23299	ADARB2-AS1	10p15.3		642394	ENSG00000205696		NR_033387
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HGNC:49543	ADGRA1-AS1	10q26.3			ENSG00000256925		
HGNC:50604	ADGRL3-AS1	4q13.1		101927186	ENSG00000248692		
HGNC:40648	ADIPOQ-AS1	3q27.3		100874095	ENSG00000226482		NR_046662
HGNC:45127	ADIRF-AS1	10q23.2	AK128041	100133190	ENSG00000272734		
HGNC:51227	ADNP-AS1	20q13.13		101927631	ENSG00000259456		NR_110009
HGNC:37122	ADORA2A-AS1	22q11.23	AK091970	646023		19726446	NR_028483
HGNC:44144	ADPGK-AS1	15q24.1	AK127877	100287559	ENSG00000260898		NR_040107
HGNC:28141	AFAP1-AS1	4p16.1	BC004397	84740		23333711	NM_032654
HGNC:41334	AFF2-IT1	Xq28			ENSG00000223516		
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HGNC:48633	AGAP2-AS1	12q14.1	BC039697, BC069024	100130776	ENSG00000255737	25392693	NR_027032
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HGNC:41409	ALG9-IT1	11q23.1			ENSG00000254450		
HGNC:41277	ALG13-AS1	Xq23			ENSG00000229487		
HGNC:48670	ALKBH3-AS1	11p11.2		100507300	ENSG00000244926		
HGNC:41305	ALMS1-IT1	2p13.1	BC041487	100874291	ENSG00000230002		NR_046762
HGNC:51342	ALOX12-AS1	17p13.1	AK074580	100506713	ENSG00000215067		NR_040089
HGNC:41306	AMMECR1-IT1	Xq23			ENSG00000224142		
HGNC:39891	ANKRD10-IT1	13q34		100505494	ENSG00000229152		
HGNC:41298	ANKRD33B-AS1	5p15.2			ENSG00000250106		
HGNC:48618	ANKRD34C-AS1	15q25.1	DA336675, DA364073	729911	ENSG00000259234		NR_038997

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HGNC:33275	ANO1-AS2	11q13.3	AW592641, EF419887	100009613	ENSG00000254417		
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HGNC:43836	APOBEC3B-AS1	22q13.1	CX754295		ENSG00000249310		
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HGNC:39994	ARAP1-AS2	11q13.4		100506020	ENSG00000245148		
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HGNC:39996	ARHGEF19-AS1	1p36.13			ENSG00000234166		
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HGNC:41407	ARID4B-IT1	1q42.3					
HGNC:41008	ARMC2-AS1	6q21	BG504478		ENSG00000230290		
HGNC:41038	ARMCX3-AS1	Xq22.1		100128574	ENSG00000228275		
HGNC:49892	ARNTL2-AS1	12p11.23		101928646	ENSG00000245311		
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HGNC:44146	ASH1L-AS1	1q22	BC017347	645676	ENSG00000235919		NR_027023
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HGNC:51175	ASTN2-AS1	9q33.1	AK097822	100128505	ENSG00000229105		NR_033973
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HGNC:51558	AZIN1-AS1	8q22.3		100506753	ENSG00000253320		NR_126338
HGNC:16424	B3GALT5-AS1	21q22.2	AF426266	114041	ENSG00000184809	12036297	NR_026542
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HGNC:28595	BAALC-AS2	8q22.3	BC029562	157556	ENSG00000236939	12477932	NR_027071
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HGNC:40007	BACH1-IT2	21q21.3			ENSG00000228817		
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HGNC:1022	BCYRN1	2p16	AF020057	618	ENSG00000236824	9858834, 8265590, 17	NR_001568
HGNC:20608	BDNF-AS	11p14.1	AY054391	497258	ENSG00000245573	15666411, 22446693	NR_002832
HGNC:51114	BEAN1-AS1	16q21		101927726	ENSG00000261656		
HGNC:28425	BFSP2-AS1	3q22.1		85003	ENSG00000249993	12477932	
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HGNC:42922	BOLA3-AS1	2p13.1	BC030102, AK123453	100507171	ENSG00000225439		NR_045634
HGNC:13228	BPESC1	3q23	AF196865	60467	ENSG00000232416	10995571	NR_026783
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HGNC:44171	BRE-AS1	2p23.2	BC014088	100302650			NR_028308
HGNC:40614	BRWD1-AS1	21q22.2			ENSG00000238141		
HGNC:16423	BRWD1-AS2	21q22.2	AF426265	103091865	ENSG00000255568	12036297	
HGNC:41920	BRWD1-IT1	21q22.2			ENSG00000237373		
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HGNC:42445	BSN-AS2	3p21.31		100132677	ENSG00000226913		NR_038866
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HGNC:21223	BVES-AS1	6q21	AL137368	154442	ENSG00000203808		NR_037157
HGNC:44148	BZRAP1-AS1	17q22	AK090885	100506779			NR_038410
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HGNC:41063	C3orf67-AS1	3p14.2	AK090895	101929238	ENSG00000242428		
HGNC:39753	C4A-AS1	6p21.33			ENSG00000233627		

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HGNC:39767	C6orf47-AS1	6p21.33			ENSG00000227198		
HGNC:27840	C8orf34-AS1	8q13.2	BC041480	286189	ENSG00000248801	12477932	NR_038877
HGNC:50444	C8orf37-AS1	8q22.1		100616530	ENSG00000253773		
HGNC:51188	C9orf41-AS1	9q21.13	BC043649	101927380	ENSG00000203321		NR_121183
HGNC:48713	C9orf135-AS1	9q21.12		494558	ENSG00000225626		
HGNC:51176	C9orf173-AS1	9q34.3	AK097764	100129722	ENSG00000275549		NR_038389
HGNC:45007	C10orf71-AS1	10q11.23	AL598801, AL598689,	100506769	ENSG00000236208		
HGNC:51422	C15orf59-AS1	15q24.1		101929221	ENSG00000260469		NR_120352
HGNC:26393	C20orf166-AS1	20q13.33	AK054875	253868	ENSG00000174403		NR_033263
HGNC:1290	C21orf62-AS1	21q22.11		54067	ENSG00000205930		NR_024622
HGNC:16729	C21orf91-OT1	21q21.1	AY063452, AY063453	246312	ENSG00000240770	12036297	
HGNC:51657	CA3-AS1	8q21.2		100996348	ENSG00000253549		NR_121630
HGNC:40119	CACNA1C-AS1	12p13.33			ENSG00000246627		
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HGNC:40116	CACNA1C-AS4	12p13.33			ENSG00000256025		
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HGNC:41313	CACNA1C-IT2	12p13.33			ENSG00000256257		
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HGNC:22933	CASC2	10q26.12	AJ535620	255082	ENSG00000177640		
HGNC:49076	CASC6	6q15	BC037927		ENSG00000224944		
HGNC:48905	CASC7	8q24.3	AK092172, BC033700	286109	ENSG00000259758		
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HGNC:49463	CASC18	12q23.3	AK001551	101929110	ENSG00000257859		
HGNC:49476	CASC19	8q24.21	BI223175, JX003871, D	103021165	ENSG00000254166	24594601	
HGNC:49477	CASC20	20p12.3	AY007089	101929244	ENSG00000229876		
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HGNC:50627	CASC22	16q12.1	AK093211	283854		24879036	
HGNC:50865	CASC23	11p15.4	BC027619	103581031	ENSG00000255420		
HGNC:40126	CASK-AS1	Xp11.4			ENSG00000233033		
HGNC:41080	CATIP-AS1	2q35	BC038211	101928513	ENSG00000225062		
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HGNC:28416	CCDC26	8q24.21	BC026098	137196	ENSG00000229140	16449964, 23399484
HGNC:49641	CCDC37-AS1	3q21.3		100506907	ENSG00000249833	
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HGNC:31433	CDH23-AS1	10q22.1			ENSG00000223817	
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HGNC:42399	CDKN1A-AS1	6p21.1	BX332409	100861512		19008947
HGNC:23831	CDKN2A-AS1	9p21.3	AF211119	51198	ENSG00000224854	NR_024274
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HGNC:27055	CEP83-AS1	12q22		144486		12477932 NR_027035
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HGNC:43725	CHRM3-AS2	1q43	AL832284, BI836697	100506915	ENSG00000233355	
HGNC:28588	CIRBP-AS1	19p13.3	BC026041	148046		12477932 NR_027271
HGNC:49426	CISTR	12q13.13	DA125942, HY042141	102216268		23093776 NR_104332
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HGNC:39849	COL4A2-AS2	13q34		100129836	ENSG00000224821		
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HGNC:23132	COL18A1-AS1	21q22.3	AK096071	378832	ENSG00000183535		NR_027498
HGNC:40155	COL18A1-AS2	21q22.3			ENSG00000224574		
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HGNC:39898	CPB2-AS1	13q14.13		100509894	ENSG00000235903		
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HGNC:49082	CPEB2-AS1	4p15.33		441009	ENSG00000247624		
HGNC:30102	CPS1-IT1	2q34		29034		12477932	NR_002763
HGNC:26327	CRHR1-IT1	17q21.31	AK057897	147081			NR_026905
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HGNC:34405	CRYM-AS1	16p12.2		400508	ENSG00000189149		NR_026675
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HGNC:27882	CSTF3-AS1	11p13		338739	ENSG00000247151	12477932	NR_034027
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HGNC:28307	CTBP1-AS2	4p16.3	AK056133	92070	ENSG00000196810	12477932	NR_033339
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HGNC:43715	CYP4A22-AS1	1p33	BQ688560		ENSG00000225506	20887892	
HGNC:31671	CYP17A1-AS1	10q24.32		102724307	ENSG00000203886		
HGNC:50694	CYP51A1-AS1	7q21.2	BC042829	613126	ENSG00000188693	24905231	
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HGNC:49443	DAB1-AS1	1p32.2		101926890	ENSG00000226759		
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HGNC:51429	DALIR	2q12	BE439524, DA337013, EB386236			25415054	
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HGNC:50863	DANT1	Xq23	CD173052	106029310	ENSG00000229335	26188586	
HGNC:50862	DANT2	Xq23		642776	ENSG00000235244	26188586	NR_132337
HGNC:30243	DAOA-AS1	13q33.2	AY138548	282706	ENSG00000232307	12364586, 12647258	
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HGNC:40170	DARS-AS1	2q21.3		101928243	ENSG00000231890		
HGNC:43904	DBET	4q35.2	JQ639078	100419743	ENSG00000281591	22541069	
HGNC:24155	DBH-AS1	9q34.2	AF129263	138948	ENSG00000225756	10686491, 26393879	NR_002783
HGNC:44151	DCTN1-AS1	2p13.1	BC042946	100189589	ENSG00000237737		NR_024463
HGNC:39889	DCUN1D2-AS	13q34	AI203167		ENSG00000233613		
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HGNC:50592	DEPDC1-AS1	1p31.2		101927220	ENSG00000234264		
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HGNC:17226	DGCR11	22q11.21	L77561	25786		8776594	
HGNC:17225	DGCR12	22q11.21	L77562	25784		8776594	
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HGNC:38713	DHRSX-IT1	Xp22.33 and Yp11			ENSG00000223571		
HGNC:16972	DIAPH2-AS1	Xq31.33			ENSG00000236256	8133036, 7736777	
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HGNC:33625	DISC1FP1	11q14.3	AK130626, EU302123	101929222	ENSG00000261645		NR_104190
HGNC:2889	DISC2	1q42.1	AF222981	27184		10814723, 15478311	NR_002227
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HGNC:40672	DOCK9-AS1	13q32.3	AI027206		ENSG00000229918		
HGNC:43696	DOCK9-AS2	13q32.3	AF339771		ENSG00000260992		
HGNC:44147	DPH6-AS1	15q14	BC025664	100507466	ENSG00000248079		NR_038251
HGNC:50706	DPP9-AS1	19p13.3		100131094	ENSG00000205790		
HGNC:40941	DPP10-AS1	2q14.1		389023	ENSG00000235026		
HGNC:40940	DPP10-AS2	2q14.1			ENSG00000235717		
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HGNC:18511	EMX2OS	10q26.11	AY117034	196047	ENSG00000229847	12573261	NR_002791
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HGNC:32290	ERIC1-AS1	8p23.3	BC022082, BC038783	619343	ENSG00000237647	26393913	
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HGNC:41205	ERIC6-AS1	3q25.1	AI146376, AA262424	101928085	ENSG00000240137		
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HGNC:40222	ETV5-AS1	3q27.2			ENSG00000234197		
HGNC:40223	EVX1-AS	7p15.2	DB455833, DB260732		ENSG00000253405		
HGNC:26596	EWSAT1	15q23	AK091087	283673	ENSG00000212766	25401475	NR_026949
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HGNC:40236	FGF12-AS3	3q28			ENSG00000226709		
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HGNC:40239	FLNB-AS1	3p14.3		100506906	ENSG00000244161		
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HGNC:39081	FMR1-AS1	Xq27.3		100126270		17921506, 18213394	NR_024499
HGNC:41333	FMR1-IT1	Xq27.3			ENSG00000236337		
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HGNC:41222	FRMPD4-AS1	Xp22.2			ENSG00000223487		
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HGNC:43758	FTO-IT1	16q12.2	CA450585	100505692			
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HGNC:40249	GABRG3-AS1	15q12	DB073112, BU567553	101928869	ENSG00000228740		NR_120343
HGNC:48336	GACAT1	2q12.3	DB096621		ENSG00000232991	23645148, 24833871	
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HGNC:50847	GACAT3	2p24.3	BX375330, BX107472		ENSG00000236289	24969565, 25077925	
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HGNC:48993	GMDS-AS1	6p25.3		100508120	ENSG00000250903		
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HGNC:40281	HOXA10-AS	7p15.2	AW195063, BM549446	100874323	ENSG00000253187		
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HGNC:43744	HOXB-AS1	17q21.32	BF875734, BE676309, AI292043		ENSG00000230148		
HGNC:40284	HOXB-AS2	17q21.32	DA447098, BF999536		ENSG00000239552		
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HGNC:40285	HOXB-AS4	17q21.32	DB109357, AI940041		ENSG00000242207		
HGNC:43749	HOXC-AS1	12q13.13	BU619815, CA429707	100874363	ENSG00000250451		
HGNC:43750	HOXC-AS2	12q13.13	AI935658, BF195843		ENSG00000250133		
HGNC:43751	HOXC-AS3	12q13.13	BC035260		ENSG00000251151		
HGNC:43753	HOXC13-AS	12q13.13	CN364530	100874366	ENSG00000249641		
HGNC:43756	HOXD-AS2	2q31.1	BC034000	100506783	ENSG00000237380		NR_038435
HGNC:47041	HPN-AS1	19q13.12		100128675	ENSG00000227392		
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HGNC:16071	HPYR1	8q24.22	AF200341	93668	ENSG00000253521		NR_026684
HGNC:41474	HS1BP3-IT1	2p24.1			ENSG00000231948		
HGNC:40870	HS6ST2-AS1	Xq26.2			ENSG00000235849		
HGNC:40289	HTR2A-AS1	13q14.2			ENSG00000224517		
HGNC:41032	HTR3E-AS1	3q27.1			ENSG00000238020		
HGNC:48956	HTR5A-AS1	7q36.2	BC031272, BC045795	100128264	ENSG00000220575		NR_038945
HGNC:37118	HTT-AS	4p16.3		100750326	ENSG00000251075	21672921, 23756188	
HGNC:34232	HULC	6p24.3		728655	ENSG00000251164	17241883, 23728852	NR_004855
HGNC:40631	HUNK-AS1	21q22.11	CD689785		ENSG00000237138		
HGNC:41173	HYI-AS1	1p34.2			ENSG00000229348		
HGNC:5326	HYMAI	6q24.2	AF241534	57061		10936046	NR_002768
HGNC:32062	IBA57-AS1	1q42.13	AK057440	574432	ENSG00000203684		

HGNC:51103	ID2-AS1	2p25.1		100506299	ENSG00000235092		
HGNC:40292	IDH1-AS1	2q34	AI492612, BE465811	100507475	ENSG00000231908		
HGNC:30885	IDI2-AS1	10p15.3	AF220183	55853	ENSG00000232656	24036268	NR_024628
HGNC:43910	IFNG-AS1	12q15	AK124066, BF510189	100885789	ENSG00000255733	11735227, 24056746	NR_104124
HGNC:49806	IFT74-AS1	9p21.2	AA960898, AI214381	101929602	ENSG00000234676		
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HGNC:40294	IGBP1-AS2	Xq13.1			ENSG00000220925		
HGNC:14062	IGF2-AS	11p15.5	AB030733	51214	ENSG00000099869	10731720	NM_016412
HGNC:32674	IGF2BP2-AS1	3q27.2	AK057462	646600	ENSG00000163915		NR_027317
HGNC:40296	IGFBP7-AS1	4q12		255130	ENSG00000245067		
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HGNC:40299	IL21-AS1	4q27	BC045668		ENSG00000227145		
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HGNC:27115	ILF3-AS1	19p13.2	BC007593, BC044911,	147727		12477932	NR_024333
HGNC:6060	INE1	Xp11.4-p11.3	Y10696	8552	ENSG00000224975	9244435	NR_024616
HGNC:6061	INE2	Xp22.2	Y10697	8551		9244435	NR_002725
HGNC:40303	INHBA-AS1	7p14.1		285954	ENSG00000224116		NR_027118
HGNC:42691	INTS6-AS1	13q14.3	AA397528	100507398	ENSG00000236778		
HGNC:41180	INTS6L-AS1	Xq26.3			ENSG00000225235		
HGNC:40892	IPO9-AS1	1q32.1	BI916758		ENSG00000231871		
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HGNC:41303	IQCJ-SCHIP1-AS	3q25.33			ENSG00000242121		
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HGNC:44313	ISM1-AS1	20p12.1	BC038745, BX092222,	100505536	ENSG00000226263		NR_040043
HGNC:48962	ISPD-AS1	7p21.2		100506025	ENSG00000229688		
HGNC:41188	ISX-AS1	22q12.3		101926957	ENSG00000227895		
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HGNC:41397	ITCH-IT1	20q11.22			ENSG00000231795		
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HGNC:49668	ITGA9-AS1	3p22.2	BC040563	101928153	ENSG00000235257		
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HGNC:40309	ITGB5-AS1	3q21.2			ENSG00000244286		
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HGNC:27203	JAKMIP2-AS1	5q32	AK027578	153469			NR_038902
HGNC:40314	JARID2-AS1	6p22.3	AW340306, AW665239	100506681	ENSG00000235488		
HGNC:41218	JAZF1-AS1	7p15.1		100128081	ENSG00000234336		NR_034097
HGNC:48959	JHDM1D-AS1	7q34		100134229	ENSG00000260231		
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HGNC:37191	JPX	Xq13.2	AV714079	554203	ENSG00000225470	21029862, 21254562	NR_024582
HGNC:43670	JRKL-AS1	11q21	AL706355, BE972282		ENSG00000255679		
HGNC:43740	KANSL1-AS1	17q21.31		644246	ENSG00000214401		NR_034172
HGNC:49510	KANTR	Xp11.22	EF565109, CF994433	102723508	ENSG00000232593	24381249	
HGNC:49147	KBTBD11-OT1	8p23.3	BX104191		ENSG00000253696		

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HGNC:39958	KCNC4-AS1	1p13.3			ENSG00000224965		
HGNC:40317	KCND3-AS1	1p13.2			ENSG00000237556		
HGNC:41350	KCND3-IT1	1p13.2			ENSG00000232558		
HGNC:41351	KCNH1-IT1	1q32.2			ENSG00000234233		
HGNC:48680	KCNIP2-AS1	10q24.32		100289509	ENSG00000226009		
HGNC:29895	KCNIP4-IT1	4p15.31	BK000166	359822		12515386	NR_002813
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HGNC:41352	KCNJ6-AS1	21q22.13			ENSG00000233213		
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HGNC:51214	KCNMA1-AS2	10q22.3		101929310	ENSG00000225497		NR_120654
HGNC:51215	KCNMA1-AS3	10q22.3	AA453582, AW510993	101929286	ENSG00000225652		
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HGNC:41354	KCNQ5-IT1	6q13		100507381	ENSG00000233844		
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HGNC:40850	KLHL6-AS1	3q27.1			ENSG00000242522		
HGNC:43431	KLHL7-AS1	7p15.3	AK054880	100775104	ENSG00000230658		NR_046220
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HGNC:27841	LACTB2-AS1	8q13.3		286190	ENSG00000246366		NR_038881
HGNC:40334	LAMA5-AS1	20q13.33		101928158	ENSG00000228812		
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HGNC:32293	NTM-AS1	11q25	AK127362	101929637	ENSG00000224795		NR_126159
HGNC:41437	NTM-IT	11q25	AA398869		ENSG00000238262		
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HGNC:50502	NUP50-AS1	22q13.31		100506714	ENSG00000226328		
HGNC:45161	NUTM2A-AS1	10q23.2	AK311174, AK309777	728190	ENSG00000223482		NR_024397
HGNC:51204	NUTM2B-AS1	10q22.3		101060691	ENSG00000225484		NR_120613
HGNC:40751	OCIAD1-AS1	4p11	AI018597, BG200457		ENSG00000248256		
HGNC:49461	ODF2-AS1	9q34.11	AW303426		ENSG00000225951		
HGNC:40724	OGFR-AS1	20q13.33	BQ187924, CA412981		ENSG00000229873		
HGNC:43563	OIP5-AS1	15q15.1		729082	ENSG00000247556	22196729	NR_026757
HGNC:28060	OLMALINC	10q24.31	BC045787	90271	ENSG00000235823	12477932, 23040067	NR_026762
HGNC:39192	OOEP-AS1	6q13			ENSG00000231332		
HGNC:40421	OPA1-AS1	3q29		100873941	ENSG00000224855		
HGNC:41366	OPCML-IT1	11q25			ENSG00000254896		
HGNC:41365	OPCML-IT2	11q25			ENSG00000255371		
HGNC:49168	OR2A1-AS1	7q35	BC040701	101928492	ENSG00000244479		
HGNC:40767	OSBPL10-AS1	3p23			ENSG00000232490		
HGNC:48585	OSER1-AS1	20q13.12		100505783	ENSG00000223891		
HGNC:41009	OSGEPL1-AS1	2q32.2	BX474356, DB142079		ENSG00000253559		
HGNC:50296	OSMR-AS1	5p13.1		101929768	ENSG00000249740		
HGNC:43666	OSTM1-AS1	6q21	BC031282	100287366	ENSG00000225174		
HGNC:41250	OSTN-AS1	3q28			ENSG00000233308		
HGNC:50466	OTUD6B-AS1	8q21.3		100506365	ENSG00000253738		
HGNC:43906	OTX2-AS1	14q22.3	BC041486	100309464	ENSG00000248550	15703187	NR_029385
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HGNC:40871	PACRG-AS2	6q26		101929239	ENSG00000225437		NR_110871
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HGNC:39932	PAN3-AS1	13q12.2	BC045730	100288730			NR_029383
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HGNC:35160	PAPPA-AS2	9q33.1	AK092105		ENSG00000226604	19531736	
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HGNC:17263	PART1	5q12.1	AF163475	25859	ENSG00000152931	10706094, 23726844	NR_024617
HGNC:50886	PARTICL	2p11.2	BC009563	100630918		25900080	NR_038942
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HGNC:8637	PCA3	9q21.2	AF103907	50652	ENSG00000225937	10606244, 23130941,	NR_015342
HGNC:43022	PCAT1	8q24.21	HQ605084	100750225	ENSG00000253438	21804560, 23640607	NR_045262
HGNC:45089	PCAT2	8q24.21	BU852210	103164619	ENSG00000253264		
HGNC:24853	PCAT4	4q21.21	AF388200	118425	ENSG00000251321	11536302, 15299187,	NR_026555
HGNC:48665	PCAT5	10p11.21	KF154780	102578074	ENSG00000280719	26282172	NR_110138
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HGNC:49150	PCBP2-OT1	12q13.13	KF041153	102157401		21187392	
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HGNC:39901	PCCA-AS1	13q32.3			ENSG00000234650		
HGNC:39897	PCDH9-AS1	13q21.32			ENSG00000234527		
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HGNC:44166	PCED1B-AS1	12q13.11	AK123977	100233209	ENSG00000247774		NR_026544
HGNC:52263	PCF11-AS1	11q14.1	AK092827		ENSG00000269939	26421281	
HGNC:30145	PCGEM1	2q32.3	AF223389	64002	ENSG00000227418	11050243, 16569192,	NR_002769
HGNC:37184	PCNA-AS1	20p12.3		100302739		10488129, 24704293	
HGNC:40430	PCOLCE-AS1	7q22.1	AK097705	100129845	ENSG00000224729		NR_038910
HGNC:51448	PCSK6-AS1	15q26.3	BG505308		ENSG00000259764		
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HGNC:43698	PDX1-AS1	13q12.2	BX383058, CR593175		ENSG00000247381		

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HGNC:19969	PEG13	8q24.3	AK307073		ENSG00000282164	24402520, 24667089, 24980697	
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HGNC:44181	PGM5-AS1	9q21.11	AY343894	572558	ENSG00000224958		NR_015423
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HGNC:51195	PGM5P4-AS1	2q14.1		103344932	ENSG00000231943		NR_121185
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HGNC:40445	PHEX-AS1	Xp22.11			ENSG00000224204		
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HGNC:19725	PICRAR	21q22.3	BC027456	378825	ENSG00000275874	16826516, 27049681	
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HGNC:51334	PIK3CD-AS2	1p36.22	AL523099, BI763597, B	101929074	ENSG00000231789		
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HGNC:38872	PINK1-AS	1p36.12	AK090466		ENSG00000117242	17362513	
HGNC:16671	PISR1	3q23	AW268472	140464			NR_027070
HGNC:44116	PITPNA-AS1	17p13.3	HY016432, DB053306,	100306951	ENSG00000236618		NR_028514
HGNC:44675	PITRM1-AS1	10p15.2	BC050332	100507034	ENSG00000237399		NR_038284
HGNC:51659	PKIA-AS1	8q21.13	BC036404	101927003	ENSG00000254266		NR_125389
HGNC:50597	PKN2-AS1	1p22.2		101927891	ENSG00000237505		
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HGNC:43662	PLCB2-AS1	15q15.1			ENSG00000259307		
HGNC:45193	PLCE1-AS1	10q23.33		100128054	ENSG00000268894		NR_033969
HGNC:51206	PLCE1-AS2	10q23.33	AK098548	101927049	ENSG00000232913		NR_120615
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HGNC:40449	PLCL2-AS1	3p24.3			ENSG00000226441		
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HGNC:40907	PLSCR5-AS1	3q24			ENSG00000241457		
HGNC:49459	POT1-AS1	7q31.33	BX648695		ENSG00000224897		
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HGNC:45029	PRKG1-AS1	10q21.1	BC039504	100506939	ENSG00000236671		NR_038277
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HGNC:50684	PRRX2-AS1	9q34.11		101929437	ENSG00000236024		
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HGNC:39758	PSMB8-AS1	6p21.32		100507463	ENSG00000204261		NR_037173
HGNC:27367	PSMD5-AS1	9q33.2		253039	ENSG00000226752	12477932	
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HGNC:22230	PSMG3-AS1	7p22.3		114796	ENSG00000230487		NR_021487
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HGNC:45036	PYCARD-AS1	16p11.2		100652740	ENSG00000261359		NR_102400
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HGNC:44358	RAMP2-AS1	17q21.31	BC018638, BC041021	100190938	ENSG00000197291		NR_024461

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HGNC:39938	RASA3-IT1	13q34			ENSG00000232487		
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HGNC:39988	RBMS3-AS2	3p24.1			ENSG00000203506		
HGNC:39989	RBMS3-AS3	3p24.1			ENSG00000235904		
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HGNC:51658	RDH10-AS1	8q21.11		101926926	ENSG00000250295		NR_125388
HGNC:39990	RERG-AS1	12p12.3	BF508473, AW197661		ENSG00000255660		
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HGNC:41377	REV3L-IT1	6q21			ENSG00000229276		
HGNC:9978	RFPL1S	22q12	AJ010230	10740	ENSG00000225465	10508838	NR_002727
HGNC:51197	RFX3-AS1	9p24.2	BG720696	101929302	ENSG00000232104		NR_121586
HGNC:48666	RGMB-AS1	5q15		503569	ENSG00000246763	26055877	NR_033932
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HGNC:30963	RNF144A-AS1	2p25.2		386597	ENSG00000228203		NR_033997
HGNC:44127	RNF157-AS1	17q25.1	AK093500	100507218			NR_040017
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HGNC:51410	RORA-AS1	15q22.2	BC035094	101928784	ENSG00000245534		NR_120339
HGNC:51411	RORA-AS2	15q22.2	DB058680, DB033761	100996876	ENSG00000259482		NR_120318
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HGNC:49381	SMAD1-AS2	4q31.21	BC042377	101927659	ENSG00000250582		
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HGNC:44352	SNHG16	17q25.1	BC042949, BC100293,	100507246	ENSG00000163597	19287950, 21147498,	NR_038108
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HGNC:49500	TEX36-AS1	10q26.13		100169752	ENSG00000237675		NR_023362
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HGNC:50629	TGFB2-OT1	1q41	AK021874	103611157	ENSG00000281453	24879147, 25437332	NR_125715
HGNC:40495	TH2LCRR	5q31.1		101927761	ENSG00000223442	25903499	NR_132124
HGNC:41013	THAP7-AS1	22q11.21		439931	ENSG00000230513		NR_027051
HGNC:44172	THAP9-AS1	4q21.22	BC063702	100499177	ENSG00000251022		NR_034075
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HGNC:41390	THRB-IT1	3p24.2			ENSG00000224822		
HGNC:49503	THRIL	12q24.31	AK025766	102659353		24371310	NR_110375
HGNC:51420	THSD4-AS1	15q23	DA243226, DA296094	101929196	ENSG00000259964		NR_120348
HGNC:51421	THSD4-AS2	15q23	AK055527	101929173			NR_120346
HGNC:44478	THUMP3-AS1	3p25.3	BC052961	440944	ENSG00000206573		NR_027007
HGNC:14607	TINCR	19p13.3	BG354568	257000	ENSG00000223573	23201690, 24019000	NR_027064
HGNC:41028	TIPARP-AS1	3q25.31		100287227	ENSG00000243926		NR_027954

HGNC:40720	TLR8-AS1	Xp22.2		349408	ENSG00000233338		
HGNC:37183	TLX1NB	10q24	BC019674	100038246	ENSG00000236311	17303350	NM_00108539
HGNC:40587	TM4SF1-AS1	3q25.1			ENSG00000240541		
HGNC:41085	TM4SF19-AS1	3q29			ENSG00000235897		
HGNC:51424	TMC3-AS1	15q25.1	HY112626, CB134362	101929655	ENSG00000259343		NR_120365
HGNC:49060	TMCC1-AS1	3q22.1		100507032	ENSG00000271270		
HGNC:48910	TMEM5-AS1	12q14.2	DB026756		ENSG00000255850		
HGNC:19230	TMEM9B-AS1	11p15.3	AJ400877	493900	ENSG00000254860	11528127	
HGNC:51209	TMEM26-AS1	10q21.2	BC041470	101928781	ENSG00000237233		NR_120643
HGNC:44272	TMEM44-AS1	3q29	BE071707, BI088778, B	100507297	ENSG00000231770		NR_047573
HGNC:26301	TMEM51-AS1	1p36.21	AK074283	200197	ENSG00000175147		NR_027136
HGNC:27349	TMEM72-AS1	10q11.21		220980	ENSG00000224812		NR_033842
HGNC:50442	TMEM92-AS1	17q21.33	BU687974		ENSG00000251179	24768205	
HGNC:50307	TMEM108-AS1	3q22.1		101927455	ENSG00000251011		
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HGNC:43839	TMEM161B-AS1	5q14.3	AK082072	100505894	ENSG00000247828	21890647	NR_039993
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HGNC:44179	TMPRSS4-AS1	11q23.3		100526771	ENSG00000255274		NR_038318
HGNC:49093	TNK2-AS1	3q29	AK127609	100128262	ENSG00000224614		
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HGNC:29052	TP73-AS1	1p36.32		57212	ENSG00000227372	9455484, 20477830, 2	NR_033708
HGNC:42391	TPRG1-AS1	3q28			ENSG00000234076		
HGNC:41062	TPRG1-AS2	3q28			ENSG00000230115		
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HGNC:40005	TRAF3IP2-AS1	6q21		643749	ENSG00000231889		NR_034108
HGNC:48663	TRAM2-AS1	6p12.2		401264	ENSG00000225791		
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HGNC:48974	TRG-AS1	7p14.1		100506776			NR_040085
HGNC:27471	TRHDE-AS1	12q21.1	BC040230	283392	ENSG00000236333		NR_026836
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HGNC:49006	TRIM52-AS1	5q35.3		100507602	ENSG00000248275		
HGNC:41116	TRMT2B-AS1	Xq22.1			ENSG00000225839		
HGNC:40936	TRPC7-AS1	5q31.1			ENSG00000248211		
HGNC:40937	TRPC7-AS2	5q31.1			ENSG00000250947		
HGNC:50758	TRPM2-AS	21q22.3	AK057275	101928607	ENSG00000230061	18957938, 24931166	NR_109964
HGNC:43684	TSC22D1-AS1	13q14.11	BC040675	641467			NR_038381
HGNC:12377	TSIX	Xq13.2		9383		10192391	NR_003255
HGNC:41462	TSPAN9-IT1	12p13.33			ENSG00000256197		

HGNC:1271	TSPEAR-AS1	21q22.3		54082	ENSG00000235890		
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HGNC:41392	TSSC1-IT1	2p25.3			ENSG00000224885		
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HGNC:41115	TTC21B-AS1	2q24.3		100506134	ENSG00000224490		
HGNC:29336	TTC28-AS1	22q12.1		284900	ENSG00000235954	11258795	NR_026962
HGNC:40851	TTC39A-AS1	1p32.3	CB128747		ENSG00000261664		
HGNC:51321	TTC39C-AS1	18q11.2	DB448536, DB513641,	102724246	ENSG00000264745		NR_110796
HGNC:41486	TTL7-IT1	1p31.1			ENSG00000233061		
HGNC:41159	TTL10-AS1	1p36.33	AK128833	100506376	ENSG00000205231		
HGNC:24214	TTL11-IT1	9q34.11		401550	ENSG00000237548		
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HGNC:14022	TTY1	Yp11.2	AF000990	50858	ENSG00000129845		NR_001538
HGNC:37981	TTY1B	Yp11.2		100101116	ENSG00000129816		NR_003589
HGNC:14023	TTY2	Yp11.2	AF000991	60439	ENSG00000212855		NR_001536
HGNC:37982	TTY2B	Yp11.2		100101117	ENSG00000212856		NR_003590
HGNC:16480	TTY3	Yq11.23	AF332230	114760	ENSG00000231141		NR_001524
HGNC:31888	TTY3B	Yq11.23		474148	ENSG00000280961		NR_002176
HGNC:16481	TTY4	Yq11.2	AF332231	114761	ENSG00000226906		NR_001525
HGNC:31891	TTY4B	Yq11.223		474149	ENSG00000235412		NR_002178
HGNC:31892	TTY4C	Yq11.223		474150	ENSG00000228296		NR_002177
HGNC:16482	TTY5	Yq11.222	AF332236	83863	ENSG00000215560		NR_001541
HGNC:16483	TTY6	Yq11.223	AF332237	84672	ENSG00000131538		NR_001527
HGNC:31887	TTY6B	Yq11.223	AY597808	441543	ENSG00000131548		NR_002175
HGNC:18488	TTY7	Yp11.2	AF332232	246122	ENSG00000147753		NR_001534
HGNC:37463	TTY7B	Yp11.2	BX089948	100101120	ENSG00000147761		NR_003592
HGNC:18489	TTY8	Yp11.2	AF332234	84673	ENSG00000183385		NR_001533
HGNC:37622	TTY8B	Yp11.2		100101118	ENSG00000185700		NR_003591
HGNC:18490	TTY9A	Yq11.222	AF332238	83864			NR_001530
HGNC:32425	TTY9B	Yq11.221		425057	ENSG00000131007	12815422	NR_002159
HGNC:18491	TTY10	Yq11.221	AF332239	246119	ENSG00000229236		NR_001542
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HGNC:18567	TTY15	Yq11.1	AL080135	64595	ENSG00000233864		NR_001545
HGNC:18840	TTY16	Yp11.2		252948	ENSG00000225520		NR_001552
HGNC:18841	TTY17A	Yq11.2	AF527829	252949	ENSG00000228240		NR_001526
HGNC:31889	TTY17B	Yq11.223		474151	ENSG00000227439		NR_002180
HGNC:31890	TTY17C	Yq11.223		474152	ENSG00000223641		NR_002179
HGNC:18842	TTY18	Yp11.2		252950	ENSG00000233699		NR_001550
HGNC:18843	TTY19	Yp11.2		252952	ENSG00000232419		NR_001549
HGNC:18844	TTY20	Yp11.2		252951	ENSG00000232808		NR_001546
HGNC:18845	TTY21	Yp11.2		252953	ENSG00000228890		NR_001535
HGNC:37980	TTY21B	Yp11.2		100101115	ENSG00000237563		NR_003588
HGNC:18846	TTY22	Yp11.2		252954	ENSG00000224075		NR_001539
HGNC:18847	TTY23	Yp11.2		252955	ENSG00000239225		NR_001540
HGNC:37983	TTY23B	Yp11.2		100101121	ENSG00000237069		NR_003593
HGNC:51120	TUB-AS1	11p15.4		101927917	ENSG00000248332		
HGNC:26066	TUG1	22q12.2	AK057695	55000	ENSG00000253352	15797018, 22961206,	NR_002323
HGNC:44088	TUNAR	14q32.2	AK023027	100507043	ENSG00000250366	24530304, 22196729,	NR_038861
HGNC:27701	TUSC7	3q13.31	BC035185	285194	ENSG00000243197	20048075, 23680400	NR_015391
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HGNC:44512	UBE2E2-AS1	3p24.3		100505877	ENSG00000233153		
HGNC:40722	UBE2Q1-AS1	1q21.3	AW070285		ENSG00000229780		
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HGNC:40600	UCHL1-AS1	4p13	DB169394, CN277289		ENSG00000251173		
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HGNC:39962	USP12-AS2	13q12.13			ENSG00000230641		
HGNC:27249	USP27X-AS1	Xp11.23		158572	ENSG00000234390		
HGNC:40909	USP30-AS1	12q24.11		100131733	ENSG00000256262		NR_038996
HGNC:43991	USP46-AS1	4q12	BX354350, CN313378	643783	ENSG00000248866		
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HGNC:40608	VAV3-AS1	1p13.3	AA425131, BG193383		ENSG00000230489		
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HGNC:44879	VIM-AS1	10p13	BC078172	100507347	ENSG00000229124		
HGNC:40610	VIPR1-AS1	3p22.1			ENSG00000232354		
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HGNC:41393	WARS2-IT1	1p12			ENSG00000224238		
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HGNC:27437	WDR11-AS1	10q26.12	AK094649	283089	ENSG00000227165		NR_033850
HGNC:41186	WDR86-AS1	7q36.1	AK095986	100131176	ENSG00000243836		NR_034012
HGNC:48669	WEE2-AS1	7q34		285962	ENSG00000228775		
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HGNC:41041	WWC2-AS1	4q35.1			ENSG00000251128		
HGNC:26390	WWC2-AS2	4q35.1	AK054839	152641	ENSG00000251359		
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HGNC:40679	XIRP2-AS1	2q24.3			ENSG00000254552		
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HGNC:38798	ZFY-AS1	Yp11.31		100506003	ENSG00000233070		
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HGNC:51304	ZIM2-AS1	19q13.43		101929059	ENSG00000269793	19539734	NR_110744
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HGNC:50736	ZNF341-AS1	20q11.22		101929746	ENSG00000230753		
HGNC:41423	ZNF346-IT1	5q35.2			ENSG00000251666		
HGNC:48598	ZNF350-AS1	19q13.41	BC014606, DA066128	101669766	ENSG00000269235		
HGNC:41136	ZNF385D-AS1	3p24.3			ENSG00000225542		

HGNC:42420	ZNF385D-AS2	3p24.3			ENSG00000223351		
HGNC:25122	ZNF436-AS1	1p36.12	BC028411	148898	ENSG00000249087	12477932	NR_033691
HGNC:27370	ZNF503-AS1	10q22.2		253264	ENSG00000226051		
HGNC:23525	ZNF503-AS2	10q22.3	BC029963	100131213	ENSG00000237149		NR_024422
HGNC:51305	ZNF528-AS1	19q13.41		102724105	ENSG00000269834		NR_125345
HGNC:51275	ZNF529-AS1	19q13.12		101927599	ENSG00000233527		NR_110705
HGNC:27613	ZNF561-AS1	19p13.2		284385	ENSG00000267106		NR_122038
HGNC:44324	ZNF571-AS1	19q13.12	BC042488, BX647800	100507433	ENSG00000267470		NR_038247
HGNC:25213	ZNF582-AS1	19q13.43	AW160702, BC036928	386758		12477932	NR_037159
HGNC:41215	ZNF630-AS1	Xp11.23			ENSG00000277541		
HGNC:41434	ZNF638-IT1	2p13.2	BC044944	100507113			
HGNC:51285	ZNF649-AS1	19q13.41		101928571	ENSG00000268095		NR_110733
HGNC:44321	ZNF667-AS1	19q13.43	AW955601, BC110411	100128252	ENSG00000166770		NR_036521
HGNC:44266	ZNF674-AS1	Xp11.23	BC034616, DA707714	401588	ENSG00000230844		NR_015378
HGNC:27617	ZNF790-AS1	19q13.12		284408			NR_040027
HGNC:51303	ZNF793-AS1	19q13.12		101927720	ENSG00000266916		NR_110723
HGNC:41927	ZNRF3-AS1	22q12.1			ENSG00000177993		
HGNC:41440	ZNRF3-IT1	22q12.1			ENSG00000235786		
HGNC:43594	ZRANB2-AS1	1p31.1	BC070115	100132618	ENSG00000235079		NR_038420
HGNC:43595	ZRANB2-AS2	1p31.1	BC054887	100852410	ENSG00000229956		
HGNC:48982	ZSCAN16-AS1	6p22.1		100129195	ENSG00000269293		
HGNC:45103	ZSWIM8-AS1	10q22.2		100507331	ENSG00000272589		NR_038357

Variables	N	LINC00271		P value
		High	Low	
Age (years)				0.962
<45	99	48 (48.5%)	51 (51.5%)	
≥45	86	42 (48.8%)	44 (51.2%)	
Gender				0.006
Male	43	13 (30.2%)	30 (69.8%)	
Female	142	77 (54.2%)	65 (45.8%)	
Maximum size of tumor (cm)	185	1.10±0.72	1.34±0.86	0.038
Multifocality				0.375
Unifocal	135	63 (46.7%)	72 (53.3%)	
Multifocal	50	27 (54.0%)	23 (46.0%)	
Coexistent HT				0.370
Yes	44	24 (54.5%)	20 (45.5%)	
No	141	66 (46.8%)	75 (53.2%)	
PTMC				0.030
Yes	100	56 (56.0%)	44 (44.0%)	
No	85	34 (40.0%)	51 (60.0%)	
ETE				0.378
Yes	17	10 (58.3%)	7 (41.2%)	
No	168	80 (47.6%)	88 (52.4%)	
T Stage				0.714
T1-T2	166	80 (48.2%)	86 (51.8%)	
T3-T4	19	10 (52.6%)	9 (47.4%)	
LNM				0.024
N0	85	49 (57.6%)	36 (42.4%)	
N1	100	41 (41.0%)	59 (59.0%)	
TNM Stage				0.685
I-II	152	75 (49.3%)	77 (50.7%)	
III-IV	33	15 (45.5%)	18 (54.5%)	
<i>BRAF</i>^{V600E}				0.625
Mutation	103	52 (50.5%)	51 (49.5%)	
Wild-type	79	37 (46.8%)	42 (53.2%)	

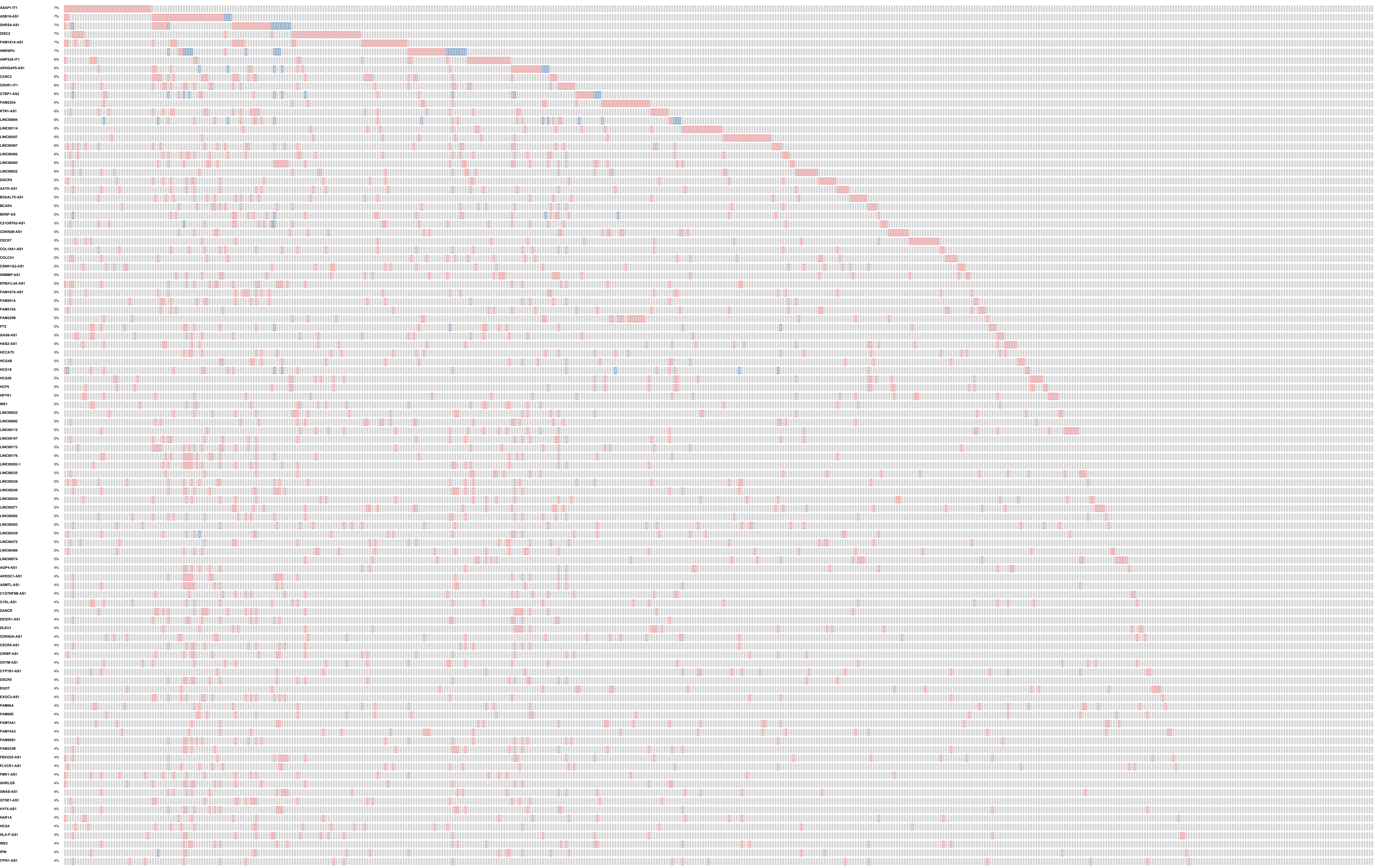
Table S2. Clinicopathological correlations of LINC00271 expression in the FUSCC cohort.

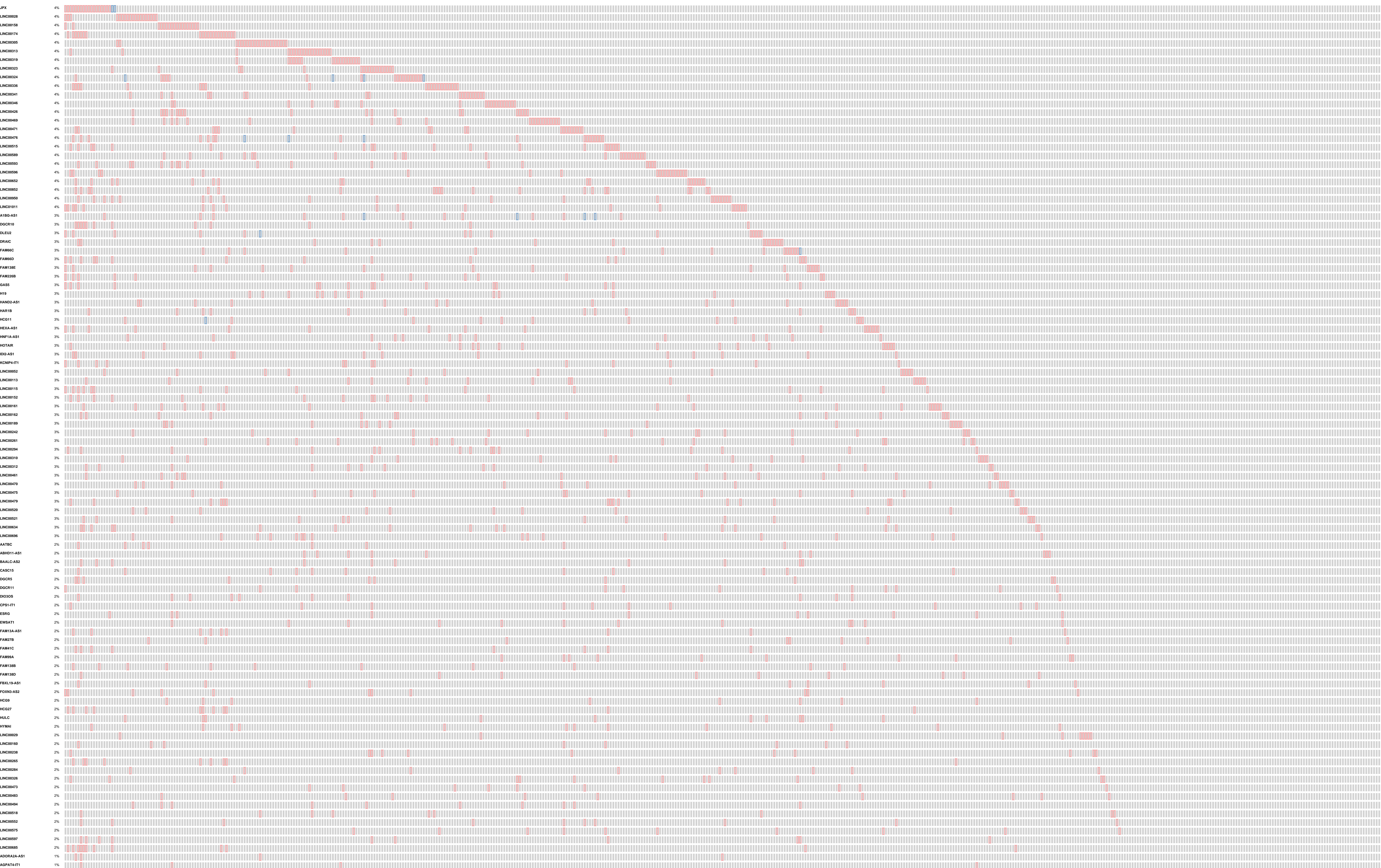
Notes: Italic and bold type indicates statistical significance. Abbreviations: PTC, papillary thyroid cancer; PTMC, papillary thyroid microcarcinoma; HT, Hashimoto's thyroiditis; ETE, extrathyroidal extension; LNM, lymph node metastasis; TNM, tumor–node–metastasis

Variables	FUSCC cohort			TCGA cohort		
	<i>P</i> value ^a	OR	95.0% CI for OR	<i>P</i> value ^a	OR	95.0% CI for OR
Age ^b	0.067	1.034	0.998-1.072	0.535	1.008	0.983-1.034
Gender ^b						
Male		1			1	
Female	0.034	0.422	0.190-0.935	0.884	1.056	0.507-2.199
Multifocality ^b						
Unifocal		1			1	
Multifocal	0.463	0.767	0.378-1.558	0.087	0.557	0.285-1.088
Histological subtypes ^b						
Classical PTC		1			1	
Follicular PTC		NA		0.704	0.824	0.304-2.234
Tall-cell PTC		NA		0.011	7.903	1.602-38.994
Coexistent HT ^b						
No		1			1	
Yes	0.700	0.863	0.408-1.825	0.405	0.674	0.266-1.708
ETE ^b						
No		1			1	
Yes	0.205	0.422	0.111-1.601	0.685	1.352	0.314-5.819
T stage ^b						
T1-T2		1			1	
T3-T4	0.385	2.415	0.331-17.622	0.654	0.710	0.159-3.178
LN ^b						

	N0		1			1	
M^b	N1	<i>0.013</i>	2.646	1.225-5.714	<i>0.034</i>	2.158	1.060-4.394
	M0		1			1	
TNM stage^b	M1		NA		0.644	1.705	0.178-16.337
	I-II		1			1	
	III-IV	<i>0.349</i>	0.592	0.197-1.777	<i>0.687</i>	1.225	0.458-3.278
<i>BRAF</i>^{V600E}^b							
	Wild-type		1			1	
	Mutation	0.400	0.761	0.402-1.439	<i>0.077</i>	1.842	0.936-3.626

Table S3. Multivariate analysis of factors that might affect LINC00271 expression in PTC in the TCGA and FUSCC cohorts. Notes: a, Italic and bold type indicates statistical significance; b, adjusted by all factors in multivariate analysis. Abbreviations: PTC, papillary thyroid cancer; FUSCC, Fudan University Shanghai Cancer Center; TCGA, The Cancer Genomics Atlas; OR, odds ratio; CI, confidence interval; HT, Hashimoto's thyroiditis; ETE, extrathyroidal extension; LNM, lymph node metastasis; M, metastasis; NA, not available; TNM, tumor-node-metastasis





Genetic Alteration mRNA Upregulation mRNA Downregulation

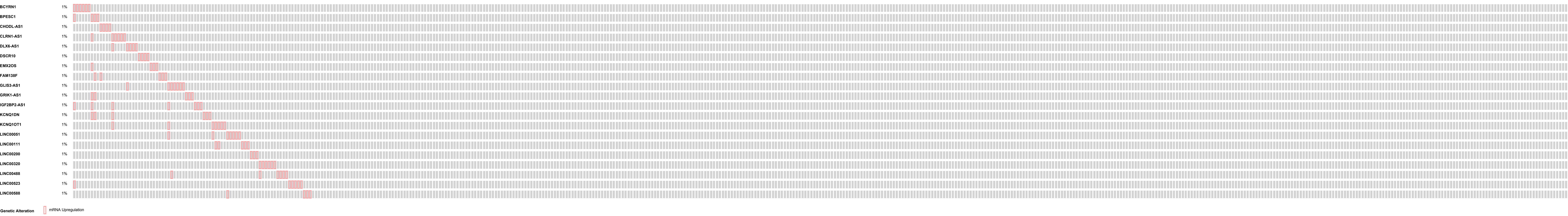


Figure S1. The expression alteration frequency of the 220 lncRNAs ranged from 1% to 7% in 486 PTC patients with RNA sequencing data

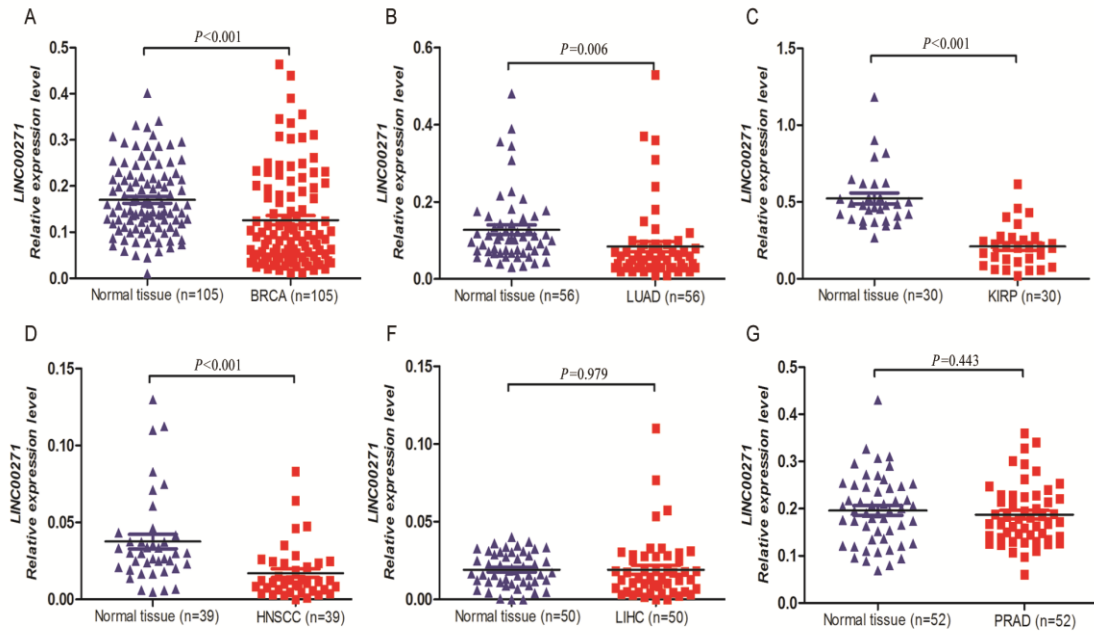


Figure S2. A comparison of LINC00271 expression between carcinomas and normal tissues in BRCA, LUAD, KIRP, HNSCC, LIHC and PRAD. A-D showed LINC00271 expression was significantly suppressed in carcinomas compared with normal tissues in BRCA, LUAD, KIRP and HNSCC. F and G indicated no significant difference in LINC00271 expression between carcinomas and normal tissues in LIHC and PRAD.

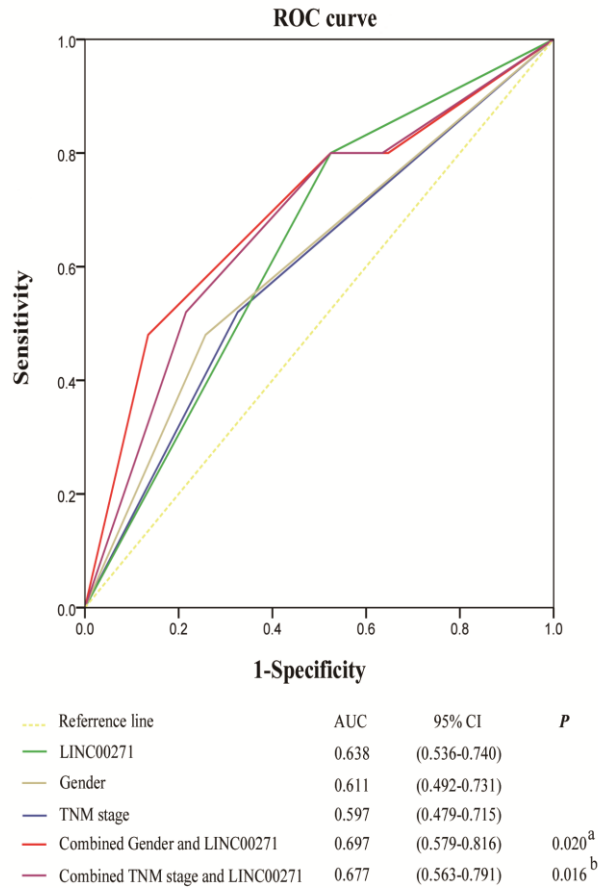


Figure S3. ROC analysis for the predictive values of LINC00271, gender and TNM stage for PTC recurrence. a, comparison between Gender and combined gender and LINC00271; b, comparison between TNM stage and combined TNM stage and LINC00271. After combining LINC00271, the AUC values of gender and TNM stage for predicting recurrence were significantly elevated from 0.611 to 0.697 ($P=0.020$) and 0.597 to 0.677 ($P=0.016$), respectively.