

## Supplementary materials:

**Table S1.** Patients included in the study with division to responders group (RG) and non-responders group (NRG).

Responders Group (RG)			No-Responders Group (NRG)		
Sample ID	OS time (days)	OS event (1-dead; 0-alive)	Sample ID	OS time (days)	OS event (1-dead; 0-alive)
TCGA-BA-5152-01	1288	0	TCGA-BA-4074-01	462	1
TCGA-BA-5558-01	1995	0	TCGA-BA-4076-01	415	1
TCGA-BA-7269-01	1273	0	TCGA-BA-4078-01	276	1
TCGA-BB-4223-01	3221	0	TCGA-BA-5149-01	806	1
TCGA-BB-7862-01	1117	0	TCGA-BA-6868-01	472	1
TCGA-BB-7864-01	1527	0	TCGA-BA-6870-01	451	1
TCGA-BB-7866-01	1368	0	TCGA-BA-6872-01	384	1
TCGA-BB-7870-01	2016	0	TCGA-BA-A6DD-01	173	1
TCGA-BB-7872-01	1168	0	TCGA-BA-A6DF-01	238	1
TCGA-BB-8596-01	2161	0	TCGA-BA-A6DG-01	69	1
TCGA-CN-4727-01	1560	0	TCGA-BA-A6DI-01	336	1
TCGA-CN-4728-01	1724	0	TCGA-BA-A6DJ-01	407	1
TCGA-CN-4734-01	1690	0	TCGA-BB-A5HY-01	321	1
TCGA-CN-4735-01	1737	0	TCGA-BB-A6UO-01	268	1
TCGA-CN-5360-01	2169	0	TCGA-CN-4742-01	397	1
TCGA-CN-5373-01	1584	0	TCGA-CN-5359-01	377	1
TCGA-CN-6010-01	1523	0	TCGA-CN-5364-01	493	1
TCGA-CN-6012-01	1460	0	TCGA-CN-5366-01	360	1
TCGA-CN-6016-01	1443	0	TCGA-CN-5367-01	352	1
TCGA-CN-6023-01	1584	0	TCGA-CN-6013-01	727	1
TCGA-CN-6992-01	1066	0	TCGA-CN-6017-01	853	1
TCGA-CQ-5323-01	1466	0	TCGA-CN-6020-01	205	1
TCGA-CQ-5327-01	1660	0	TCGA-CN-6996-01	530	1
TCGA-CQ-5330-01	1897	0	TCGA-CN-6998-01	357	1
TCGA-CQ-6218-01	1253	0	TCGA-CN-A498-01	773	1
TCGA-CQ-6222-01	2016	0	TCGA-CN-A49A-01	526	1
TCGA-CQ-6224-01	1721	0	TCGA-CN-A63W-01	377	1
TCGA-CQ-7064-01	1973	0	TCGA-CQ-5326-01	89	1
TCGA-CQ-7071-01	1311	0	TCGA-CQ-6228-01	456	1
TCGA-CQ-7072-01	2359	0	TCGA-CQ-A4CH-01	379	1
TCGA-CR-5243-01	2562	0	TCGA-CR-6474-01	564	1
TCGA-CR-5249-01	1152	0	TCGA-CR-6478-01	183	1
TCGA-CR-6467-01	1777	0	TCGA-CR-6493-01	282	1
TCGA-CR-6470-01	1521	0	TCGA-CR-7380-01	606	1
TCGA-CR-6472-01	1050	0	TCGA-CV-5431-01	522	1
TCGA-CR-6473-01	1125	0	TCGA-CV-5439-01	546	1
TCGA-CR-7365-01	1191	0	TCGA-CV-5966-01	545	1

TCGA-CR-7367-01	1440	0	TCGA-CV-6936-01	166	1
TCGA-CR-7368-01	1245	0	TCGA-CV-6941-01	342	1
TCGA-CR-7386-01	1430	0	TCGA-CV-6950-01	459	1
TCGA-CR-7390-01	1508	0	TCGA-CV-6952-01	185	1
TCGA-CR-7392-01	1425	0	TCGA-CV-6962-01	126	1
TCGA-CR-7394-01	1346	0	TCGA-CV-7252-01	151	1
TCGA-CR-7404-01	1472	0	TCGA-CV-7418-01	789	1
TCGA-CV-5430-01	4241	0	TCGA-CV-7429-01	107	1
TCGA-CV-5440-01	3270	0	TCGA-CV-7433-01	601	1
TCGA-CV-5441-01	2886	0	TCGA-CV-A45X-01	198	1
TCGA-CV-5973-01	2641	0	TCGA-CV-A468-01	464	1
TCGA-CV-5977-01	1840	0	TCGA-CV-A6JD-01	182	1
TCGA-CV-5979-01	1315	0	TCGA-CV-A6JO-01	197	1
TCGA-CV-7090-01	5252	0	TCGA-CV-A6K2-01	317	1
TCGA-CV-7235-01	2347	0	TCGA-D6-6515-01	403	1
TCGA-CV-7238-01	2727	0	TCGA-DQ-5631-01	548	1
TCGA-CV-7261-01	1512	0	TCGA-HD-8224-01	446	1
TCGA-CV-A45R-01	5480	0	TCGA-IQ-A61K-01	161	1
TCGA-CX-A4AQ-01	1555	0	TCGA-IQ-A61O-01	421	1
TCGA-DQ-5624-01	1778	0	TCGA-KU-A66S-01	406	1
TCGA-DQ-7589-01	1409	0	TCGA-KU-A6H8-01	327	1
TCGA-DQ-7590-01	1413	0	TCGA-P3-A5Q6-01	480	1
TCGA-DQ-7592-01	1143	0	TCGA-P3-A5QF-01	330	1
TCGA-DQ-7593-01	1224	0	TCGA-P3-A6T3-01	577	1
TCGA-DQ-7594-01	1218	0	TCGA-P3-A6T6-01	395	1
TCGA-DQ-7595-01	1190	0	TCGA-P3-A6T7-01	487	1
TCGA-DQ-7596-01	1265	0	TCGA-QK-A6IG-01	222	1
TCGA-F7-7848-01	1131	0	TCGA-QK-A6II-01	284	1
TCGA-IQ-A61E-01	1147	0	TCGA-QK-A8Z9-01	449	1
TCGA-P3-A5QA-01	2182	0	TCGA-QK-A8ZA-01	371	1
TCGA-P3-A5QE-01	1559	0	TCGA-RS-A6TO-01	387	1
TCGA-P3-A6SW-01	1120	0	TCGA-T2-A6WX-01	209	1
TCGA-P3-A6T2-01	2298	0	TCGA-T2-A6WZ-01	484	1
TCGA-UF-A71B-01	1506	0	TCGA-UF-A7JC-01	546	1
TCGA-UF-A71D-01	1461	0	TCGA-UF-A7JD-01	739	1
TCGA-UF-A7J9-01	1358	0	TCGA-UF-A7JK-01	424	1
TCGA-UF-A7JA-01	2265	0	TCGA-UF-A7JO-01	631	1
TCGA-UF-A7JF-01	1686	0	TCGA-UF-A7JS-01	680	1

**Table S2.** Main clinical and pathological parameters describing RG and NRG groups;  $p < 0.05$  considered as statistically significant.

Parameter	Group	RG (cases)	NRG (cases)	p-value
Gender	Male	60	55	0.3344
	Female	15	20	
Alcohol	Yes	61	57	0.4253
	no	14	18	
Smoking	Yes	27	34	0.2424
	No/ex	47	40	
Cancer stage	I, II	9	6	0.4142
	III, IV	66	69	
T-stage	T1+T2	21	12	0.0761
	T3+T4	54	63	
N-stage	N0	24	25	0.8621
	N1/2/3	50	48	
Grade	G1+G2	45	55	0.1241
	G3+G4	27	19	
Perineural invasion	Positive	30	37	0.0816
	Negative	26	16	
Lymph node neck dissection	Positive	60	66	0.4253
	negative	15	9	
HPV p16 status	Positive	7	2	0.1982
	Negative	15	13	
Targeted molecular therapy	YES	37	39	0.3813
	NO	23	34	
Additional pharmaceutical therapy	YES	3	14	0.5274
	NO	6	17	
Localization	Buccal Mucosa	4	2	0.1231
	Floor of mouth	6	15	
	Tonsil	10	2	
	Oral Tongue	18	20	
	Larynx	20	13	

	Oral Cavity	7	8	
	HYPOPHARYNX	2	2	
	Base of tongue	4	4	
	Alveolar Ridge	3	6	
	HARD PALATE	1	0	
	Lip	0	1	
	Oropharynx	0	2	

**Table S3.** lncRNA expression profile in responders group (RG) and non-responders group (NRG) of patients to radiotherapy.

lncRNA	Group	Minimum	25% Percentile	Median	75% Percentile	Maximum	Range	Mean	Std. Deviation	Std. Error of Mean
C10orf55	RG	2.137	4.82	5.667	6.18	7.671	5.534	5.431	1.106	0.1295
	NRG	3.374	5.52	6.287	6.528	08.07	4.696	06.07	0.8949	0.1047
C2orf27A	RG	1.729	3.315	3.884	4.875	7.594	5.865	4.121	1.077	0.126
	NRG	1.941	3.815	4.395	4.957	8.124	6.183	4.524	1.215	0.1422
C3orf35	RG	0	1.256	1.68	2.098	3.255	3.255	1.677	0.7767	0.09091
	NRG	0	1.396	2.069	2.615	4.356	4.356	2.081	0.944	0.1105
C5orf38	RG	0.3389	4.195	5.174	6.184	9.993	9.654	5.067	1.913	0.2223
	NRG	0	5.325	6.202	6.896	10.47	10.47	6.079	1.556	0.1809
C5orf60	RG	0	0	0.5158	0.9496	8.234	8.234	0.6538	1.082	0.1258
	NRG	0	0	0	0.6096	4.711	4.711	0.4668	0.8302	0.09651
C6orf223	RG	0.8317	2.518	4.59	6.752	8.969	8.137	4.681	2.307	0.2682
	NRG	0	2.156	2.859	5.757	9.599	9.599	3.832	2.322	0.27
CASC2	RG	2.338	3.701	4.184	4.851	8.234	5.896	4.282	0.9644	0.1121
	NRG	1.241	3.421	3.839	4.341	5.73	4.489	3.874	0.8408	0.09774
HCP5	RG	6.603	9.409	10.43	10.97	12.05	5.449	10.2	01.06	0.124
	NRG	7.286	10.12	10.83	11.21	12.32	5.033	10.59	1.013	0.1185

HHLA3	RG	4.482	5.967	6.468	6.994	9.606	5.124	6.48	0.9244	0.1082
	NRG	4.861	6.294	6.826	7.289	8.909	4.047	6.814	0.8444	0.09883
MEG3	RG	0.677	3.465	4.693	5.656	8.576	7.899	4.674	1.676	0.1962
	NRG	1.107	4.363	5.324	6.839	9.584	8.477	5.497	1.75	0.2048
MYCNOS	RG	0	0	0	0.6541	1.873	1.873	0.4144	0.5473	0.06405
	NRG	0	0	0	0	1.319	1.319	0.135	0.3246	0.03799
NEAT1	RG	9.566	11.36	12.3	12.91	14.97	5.403	12.07	1.052	0.1231
	NRG	9.572	11.66	12.58	13.43	14.83	5.253	12.48	1.304	0.1527
PVT1	RG	4.487	6.017	6.73	7.349	10.21	5.726	6.719	1.063	0.1244
	NRG	5.225	6.356	6.943	7.718	9.171	3.946	7.079	0.9052	0.1059
RFPL1S	RG	0	1.059	1.888	3.164	7.916	7.916	2.527	1.98	0.2317
	NRG	0	0.6681	1.369	2.601	8.626	8.626	1.817	1.617	0.1893
SFTA1P	RG	0	0.8037	1.765	3.569	8.88	8.88	2.259	1.878	0.2198
	NRG	0	1.728	2.797	4.637	8.802	8.802	3.266	02.04	0.2388
SMCR5	RG	0	0	0.5542	1.091	2.239	2.239	0.6252	0.6377	0.07464
	NRG	0	0	0	0.6897	3.097	3.097	0.4221	0.6414	0.07507
SNHG10	RG	3.174	4.868	5.621	6.265	7.343	4.169	5.56	1.018	0.1191
	NRG	3.542	5.129	6.024	6.883	9.273	5.731	6.005	1.11	0.1299
SNHG3	RG	3.346	4.748	5.687	6.576	8.036	4.689	5.672	1.178	0.1378
	NRG	3.764	5.465	6.207	7.113	9.377	5.612	6.24	1.163	0.1361
SNHG7	RG	5.89	7.755	8.412	9.049	11.31	5.424	8.466	01.02	0.1194
	NRG	6.424	8.016	8.731	9.522	12.18	5.757	8.826	1.115	0.1305
TMEM105	RG	0	1.976	2.92	4.098	6.634	6.634	3.013	1.566	0.1833
	NRG	0	3.115	3.938	5.079	7.105	7.105	3.951	1.614	0.1889

**Table S4.** Area under the ROC Curve (AUC) to discriminate between the RG and NRG groups;  $p < 0.05$  considered as statistically significant.

lncRNA	AUC	p-value	Std. Error
C5orf60	0.5898	0.0592	0.04706
SNHG7	0.5954	0.0466	0.04705

C2orf27A	0.5996	0.0377	0.04735
SMCR5	0.6027	0.0321	0.04697
PVT1	0.6042	0.0297	0.04663
RFPL1S	0.6056	0.0277	0.0466
C6orf223	0.6063	0.0256	0.04684
NEAT1	0.6078	0.0245	0.04703
SNHG10	0.6082	0.024	0.0465
HCP5	0.6181	0.0137	0.04637
HHLA3	0.6191	0.013	0.04653
CASC2	0.6211	0.011	0.04588
C3orf35	0.6239	0.0097	0.04666
SNHG3	0.6292	0.007	0.04587
MEG3	0.6319	0.0059	0.04598
MYCNOS	0.6544	0.0013	0.04554
SFTA1P	0.6577	0.001	0.04509
TMEM105	0.672	0.0003	0.04492
C5orf38	0.6777	0.0002	0.0442
C10orf55	0.6784	0.0002	0.04433

**Table S5.** Mean expression level of lncRNAs in healthy and HNSCC patients;  $p < 0.05$  considered as statistically significant.

lncRNA	Healthy (Mean expression)	Patients (Mean expression)	p-val
SNHG3	5.193	5.92	0.0001
C5orf60	0.1832	0.5528	0.0002
PVT1	6.415	6.875	0.0013
C6orf223	3.461	4.408	0.0135
TMEM105	2.843	3.323	0.0357
MYCNOS	0.4133	0.2998	0.0472
NEAT1	11.92	12.26	0.0841
MEG3	5.534	4.946	0.1824
SMCR5	0.4419	0.4953	0.5756
SNHG7	8.77	8.679	0.5826
C3orf35	1.826	1.772	0.6029
CASC2	4.251	4.034	0.7752

HHLA3	6.592	6.621	0.8326
RFPL1S	1.936	2.229	0.9121
C10orf55	4.283	5.653	< 0.0001
C2orf27A	3.511	4.257	< 0.0001
C5orf38	4.518	5.583	< 0.0001
HCP5	9.294	10.4	< 0.0001
SFTA1P	1.04	2.591	< 0.0001
SNHG10	5.099	5.849	< 0.0001

**Table S6.** GSEA analysis of genes enriched in the set of 150 HNSCC patients (RG and NRG groups) depending on expression level of specified lncRNA (high or low groups divided based on median expression of lncRNA); only the gene sets with nominal  $p < 0.05$  were presented; *NES*—normalized enrichment score, *FDR q-value*—false discovery rate, *SIZE*—number of enriched genes in a specified process; and further analysis of genes included in GSEA results (*FDR* < 0.27 and  $p < 0.05$ ).

lncRNA	Process/Pathway	SIZE (number of genes enriched in process/pathway)	FDR q-value	p-value	Enrichment in group of patients with expression level of lncRNA
SFTA1	EPITHELIAL MESENCHYMAL TRANSITION	194	0.12196739	0.0	high
SNHG3	DNA REPAIR	139	0.14401889	0.040733196	high
SFTA1	ANGIOGENESIS	36	0.22596863	0.001996008	high
SFTA1	COAGULATION	136	0.25195256	0.008	high
MEG3	MITOTIC SPINDLE	196	0.029923137	0.003944773	low
CASC2	P53 PATHWAY	190	0.030040383	0.0	low
C3orf35	MITOTIC SPINDLE	196	0.087503836	0.018292682	low
MEG3	G2M CHECKPOINT	184	0.10796102	0.036734693	low
C3orf35	ANDROGEN RESPONSE	96	0.25371048	0.01934236	low
C3orf35	UV RESPONSE DN	137	0.26422462	0.014553014	low

**Table S7.** Genes enriched in the group of patients with higher levels of SFTA1 and SNHG3 lncRNAs and lower levels of C3orf35, CASC2, and MEG3, and connected with ionization radiation response.

lncRNA	Enrichment in lncRNA-expressing group	Gene	Process/Pathway
C3ORF35	Low	<a href="#">IQGAP2</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ELK4</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">INPP4B</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">AKAP12</a>	UV_RESPONSE_DN

C3ORF35	Low	<a href="#">ABHD2</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">STEAP4</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">MERTK</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">AZGP1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">HERC3</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">KLK3</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ZMIZ1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ARID5B</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">CDK6</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">SLC26A2</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ABCC4</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ADAMTS1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">HPGD</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">RPS6KA3</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">NCOA4</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">PDLIM5</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">PTPN21</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">SORD</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">MAP7</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ELL2</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">PIAS1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">SEC24D</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ALDH1A3</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">APBP2</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">PGM3</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ITGAV</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">HMGCR</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">MAF</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">KRT19</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">GSR</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">LMAN1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ACTN1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">B4GALT1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">CDC14B</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">SLC38A2</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">SCD</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">NDRG1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">DHCR24</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ZBTB10</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">UBE2J1</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">ELOVL5</a>	UV_RESPONSE_DN
C3ORF35	Low	<a href="#">RAPGEF6</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">LATS1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RASA2</a>	MITOTIC_SPINDLE



C3ORF35	Low	<a href="#">DOCK2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">APC</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">BRCA2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">DOCK4</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">OPHN1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">NOTCH2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ARHGEF12</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PREX1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SORBS2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PPP4R2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">FGD6</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ARHGAP29</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">INCENP</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">TRIO</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CCDC88A</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">NF1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">KIF20B</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ALMS1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SSH2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ROCK1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ARHGAP5</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">KIF1B</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SPTBN1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">AKAP13</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SMC1A</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RALBP1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CLASP1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">MYH10</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RAPGEF5</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SOS1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CLIP2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">DST</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">WASF2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">DYNC1H1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SHROOM2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PDLIM5</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">VCL</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">MYH9</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">TIAM1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CKAP5</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SMC3</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">HOOK3</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">FGD4</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">MYO1E</a>	MITOTIC_SPINDLE

C3ORF35	Low	<a href="#">SPTAN1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CLIP1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">NIN</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ECT2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">EPB41L2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">MID1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CDC42BPA</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RASA1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">FLNA</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">WASL</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RAB3GAP1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ARFGEF1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ARHGEF11</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CEP192</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">EPB41</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RICTOR</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">KIF5B</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">NUMA1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">LMNB1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">SYNPO</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">DYNLL2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ABL1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CENPF</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RASAL2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">KIF3B</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ANLN</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">KIF3C</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">TAOK2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CDC27</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CD2AP</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ACTN4</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RFC1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">FLNB</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ITSN1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ABR</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PLEKHG2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">TOP2A</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">DLG1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">KIF11</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">TUBGCP3</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">MYO9B</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">BCL2L11</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">ALS2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PCM1</a>	MITOTIC_SPINDLE

C3ORF35	Low	<a href="#">SMC4</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">NCK2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PKD2</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">TUBA4A</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">RABGAP1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PCGF5</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">CENPE</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PALLD</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">WASF1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">PAFAH1B1</a>	MITOTIC_SPINDLE
C3ORF35	Low	<a href="#">LLGL1</a>	MITOTIC_SPINDLE
CASC2	Low	<a href="#">KLK8</a>	P53_PATHWAY
CASC2	Low	<a href="#">CLCA2</a>	P53_PATHWAY
CASC2	Low	<a href="#">SLC7A11</a>	P53_PATHWAY
CASC2	Low	<a href="#">UPP1</a>	P53_PATHWAY
CASC2	Low	<a href="#">PLK2</a>	P53_PATHWAY
CASC2	Low	<a href="#">KRT17</a>	P53_PATHWAY
CASC2	Low	<a href="#">BMP2</a>	P53_PATHWAY
CASC2	Low	<a href="#">NHLH2</a>	P53_PATHWAY
CASC2	Low	<a href="#">ZNF365</a>	P53_PATHWAY
CASC2	Low	<a href="#">INHBB</a>	P53_PATHWAY
CASC2	Low	<a href="#">HBEGF</a>	P53_PATHWAY
CASC2	Low	<a href="#">TGFA</a>	P53_PATHWAY
CASC2	Low	<a href="#">TNFSF9</a>	P53_PATHWAY
CASC2	Low	<a href="#">MXD1</a>	P53_PATHWAY
CASC2	Low	<a href="#">OSGIN1</a>	P53_PATHWAY
CASC2	Low	<a href="#">ADA</a>	P53_PATHWAY
CASC2	Low	<a href="#">SFN</a>	P53_PATHWAY
CASC2	Low	<a href="#">IL1A</a>	P53_PATHWAY
CASC2	Low	<a href="#">SERPINB5</a>	P53_PATHWAY
CASC2	Low	<a href="#">NDRG1</a>	P53_PATHWAY
CASC2	Low	<a href="#">CASP1</a>	P53_PATHWAY
CASC2	Low	<a href="#">BAK1</a>	P53_PATHWAY
CASC2	Low	<a href="#">RRAD</a>	P53_PATHWAY
CASC2	Low	<a href="#">TGFB1</a>	P53_PATHWAY
CASC2	Low	<a href="#">PROCR</a>	P53_PATHWAY
CASC2	Low	<a href="#">TNNI1</a>	P53_PATHWAY
CASC2	Low	<a href="#">CDH13</a>	P53_PATHWAY
CASC2	Low	<a href="#">RAP2B</a>	P53_PATHWAY
CASC2	Low	<a href="#">TRIB3</a>	P53_PATHWAY
CASC2	Low	<a href="#">ST14</a>	P53_PATHWAY
CASC2	Low	<a href="#">SLC19A2</a>	P53_PATHWAY
CASC2	Low	<a href="#">PVT1</a>	P53_PATHWAY
CASC2	Low	<a href="#">AK1</a>	P53_PATHWAY

CASC2	Low	<a href="#">CDKN1A</a>	P53_PATHWAY
CASC2	Low	<a href="#">CDK5R1</a>	P53_PATHWAY
CASC2	Low	<a href="#">FOS</a>	P53_PATHWAY
CASC2	Low	<a href="#">VDR</a>	P53_PATHWAY
CASC2	Low	<a href="#">GM2A</a>	P53_PATHWAY
CASC2	Low	<a href="#">KIF13B</a>	P53_PATHWAY
CASC2	Low	<a href="#">S100A10</a>	P53_PATHWAY
CASC2	Low	<a href="#">PLK3</a>	P53_PATHWAY
CASC2	Low	<a href="#">HMOX1</a>	P53_PATHWAY
CASC2	Low	<a href="#">SLC3A2</a>	P53_PATHWAY
CASC2	Low	<a href="#">TM4SF1</a>	P53_PATHWAY
CASC2	Low	<a href="#">CD82</a>	P53_PATHWAY
CASC2	Low	<a href="#">PERP</a>	P53_PATHWAY
CASC2	Low	<a href="#">ITGB4</a>	P53_PATHWAY
CASC2	Low	<a href="#">SDC1</a>	P53_PATHWAY
CASC2	Low	<a href="#">IUN</a>	P53_PATHWAY
CASC2	Low	<a href="#">TAX1BP3</a>	P53_PATHWAY
CASC2	Low	<a href="#">CEBPA</a>	P53_PATHWAY
CASC2	Low	<a href="#">CCNK</a>	P53_PATHWAY
CASC2	Low	<a href="#">CDKN2B</a>	P53_PATHWAY
CASC2	Low	<a href="#">HRAS</a>	P53_PATHWAY
CASC2	Low	<a href="#">NUDT15</a>	P53_PATHWAY
CASC2	Low	<a href="#">EPS8L2</a>	P53_PATHWAY
CASC2	Low	<a href="#">BAIAP2</a>	P53_PATHWAY
CASC2	Low	<a href="#">AEN</a>	P53_PATHWAY
CASC2	Low	<a href="#">EPHA2</a>	P53_PATHWAY
CASC2	Low	<a href="#">RHBDF2</a>	P53_PATHWAY
CASC2	Low	<a href="#">IER3</a>	P53_PATHWAY
CASC2	Low	<a href="#">PTPRE</a>	P53_PATHWAY
CASC2	Low	<a href="#">EI24</a>	P53_PATHWAY
CASC2	Low	<a href="#">TAP1</a>	P53_PATHWAY
CASC2	Low	<a href="#">PPP1R15A</a>	P53_PATHWAY
CASC2	Low	<a href="#">FDXR</a>	P53_PATHWAY
CASC2	Low	<a href="#">JAG2</a>	P53_PATHWAY
CASC2	Low	<a href="#">ALOX15B</a>	P53_PATHWAY
CASC2	Low	<a href="#">MAPKAPK3</a>	P53_PATHWAY
CASC2	Low	<a href="#">PHLDA3</a>	P53_PATHWAY
CASC2	Low	<a href="#">GADD45A</a>	P53_PATHWAY
CASC2	Low	<a href="#">PDGFA</a>	P53_PATHWAY
CASC2	Low	<a href="#">IER5</a>	P53_PATHWAY
CASC2	Low	<a href="#">MXD4</a>	P53_PATHWAY
CASC2	Low	<a href="#">APP</a>	P53_PATHWAY
CASC2	Low	<a href="#">DDIT4</a>	P53_PATHWAY
CASC2	Low	<a href="#">CD81</a>	P53_PATHWAY

CASC2	Low	<a href="#">PITPNC1</a>	P53_PATHWAY
CASC2	Low	<a href="#">CTSD</a>	P53_PATHWAY
CASC2	Low	<a href="#">F2R</a>	P53_PATHWAY
CASC2	Low	<a href="#">VWA5A</a>	P53_PATHWAY
CASC2	Low	<a href="#">CCND2</a>	P53_PATHWAY
CASC2	Low	<a href="#">TCHH</a>	P53_PATHWAY
CASC2	Low	<a href="#">ZFP36L1</a>	P53_PATHWAY
CASC2	Low	<a href="#">LIF</a>	P53_PATHWAY
MEG3	Low	<a href="#">RAPGEF6</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">BRCA2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RASA2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">LATS1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PPP4R2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">INCENP</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">OPHN1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF20B</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ESPL1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">LMNB1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SASS6</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">FGD6</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SHROOM2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARHGAP5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">EPB41</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF11</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NOTCH2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TIAM1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SMC3</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">WASF2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">DOCK2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARHGEF3</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TTK</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">APC</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARHGEF12</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SOS1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ROCK1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">BUB1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NUSAP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ANLN</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF15</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">FGD4</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RALBP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PCGF5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ECT2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CENPF</a>	MITOTIC_SPINDLE

MEG3	Low	<a href="#">TOP2A</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">BCL2L11</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CDC42EP4</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CEP192</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RHOE</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARFGEF1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">FBXO5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TUBGCP3</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RAB3GAP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RFC1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">WASF1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARF6</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CKAP5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NF1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SMC4</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PRC1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CENPE</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SMC1A</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">FLNB</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TPX2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">LLGL1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NET1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF5B</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CLIP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF4A</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARHGAP27</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CD2AP</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RACGAP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ALMS1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NUMA1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CDK1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SPTBN1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RAPGEF5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RASA1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF23</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">WASL</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF2C</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ABI1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NDC80</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PDLIM5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">AURKA</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF3B</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">MYO1E</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CCDC88A</a>	MITOTIC_SPINDLE

MEG3	Low	<a href="#">SORBS2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TLK1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">HOOK3</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">DLGAP5</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">MAPRE1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PREX1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">VCL</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TRIO</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RICTOR</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ACTN4</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SPTAN1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ARHGEF11</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ITSN1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KIF1B</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RANBP9</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NCK1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CEP250</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NEK2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CENPI</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">STAU1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">DST</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">ABR</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NCK2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">DLG1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">SSH2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CDC42BPA</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">KNTC1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CLASP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">EZR</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">RABGAP1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">NIN</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">LRPPRC</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">TAOK2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PLK1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">DYNLL2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CCNB2</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PAFAH1B1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CDC27</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">PCM1</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">GEMIN4</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">CEP72</a>	MITOTIC_SPINDLE
MEG3	Low	<a href="#">BARD1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CCNT1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">BRCA2</a>	G2M_CHECKPOINT

MEG3	Low	<a href="#">STIL</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">RBL1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SLC38A1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">RPS6KA5</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PTTG3P</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">INCENP</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDKN2C</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">MKI67</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CASP8AP2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF20B</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">ESPL1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDC25A</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">LMNB1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF11</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TMPO</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NOTCH2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PURA</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SLC7A1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TTK</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDC7</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">HMMR</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">BUB1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NUSAP1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">STAG1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CHEK1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CCNA2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SLC7A5</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF15</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CENPE</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">EXO1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CCNF</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TOP2A</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PML</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SMARCC1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TOP1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PLK4</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SMC2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">FBXO5</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">DBF4</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SMC4</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PRC1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">ATRX</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CENPE</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SMC1A</a>	G2M_CHECKPOINT



MEG3	Low	<a href="#">EZH2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TPX2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">ATF5</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF5B</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF4A</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">POLO</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">G3BP1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NUP98</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">RACGAP1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">HIF1A</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">DR1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SYNCRIP</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NUMA1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDK1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">AMD1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF23</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TFDP1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">POLE</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">MYBL2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KIF2C</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NDC80</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">AURKA</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PBK</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CTCF</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">BCL3</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">RAD21</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">WRN</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">ARID4A</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">MTF2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">MCM2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">HOXC10</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KPNB1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">E2F2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CHAF1A</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PDS5B</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NOLC1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">HNRNPU</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">NEK2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">RBM14</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SMAD3</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDC25B</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">MCM6</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TLE3</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDC20</a>	G2M_CHECKPOINT

MEG3	Low	<a href="#">GSPT1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">MYC</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">ODC1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">BUB3</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">LBR</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SOLE</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">SFPO</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">KPNA2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">TRA2B</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PLK1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">HIRA</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">UPF1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CCNB2</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">PAFAH1B1</a>	G2M_CHECKPOINT
MEG3	Low	<a href="#">CDC27</a>	G2M_CHECKPOINT
SFTA1P	High	<a href="#">THBD</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">CCND2</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">SPP1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">NRP1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">PF4</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">LRPAP1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">JAG1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">TNFRSF21</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">FGFR1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">APP</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">JAG2</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">PDGFA</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">PRG2</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">PGLYRP1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">TIMP1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">LUM</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">VAV2</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">KCNJ8</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">COL3A1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">VCAN</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">FSTL1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">POSTN</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">APOH</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">COL5A2</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">OLR1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">VTN</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">MSX1</a>	ANGIOGENESIS
SFTA1P	High	<a href="#">SGCG</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PLOD3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION

SFTA1P	High	<a href="#">LAMC1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FMOD</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SDC4</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FLNA</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">GADD45A</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">VIM</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CALU</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL4A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CD59</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL4A2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL7A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PMP22</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">IL32</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">OXTR</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">MMP14</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ITGB1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">GADD45B</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">DCN</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FBN2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TIMP1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PRRX1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">RHOB</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">LUM</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PLOD1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TGFB1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">THY1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PVR</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CDH11</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL6A3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PDGFRB</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">IL6</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">GJA1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ANPEP</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FBN1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL6A2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL3A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SPARC</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">GREM1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ACTA2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">VCAN</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ECM2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL1A2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL1A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ADAM12</a>	EPITHELIAL_MESENCHYMAL_TRANSITION

SFTA1P	High	<a href="#">BMP1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">LRRC15</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FSTL1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">MXRA5</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SNAI2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">BGN</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">NID2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FERMT2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CALD1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">EFEMP2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">POSTN</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TPM2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">LAMA1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">DKK1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TNC</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FOXC2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">LGALS1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TFPI2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
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SFTA1P	High	<a href="#">MYL9</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PLAUR</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PCOLCE</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SCG2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL16A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ITGA5</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">RGS4</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SERPINH1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">ITGB3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">LOXL2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SGCD</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">THBS2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CAP2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">EMP3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
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SFTA1P	High	<a href="#">GAS1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">THBS1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL5A2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TPM1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL5A3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PMEPA1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SERPINE2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FN1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">LAMC2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION

SFTA1P	High	<a href="#">LAMA3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL5A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CTHRC1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TAGLN</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL11A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TNFRSF12A</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">BASP1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PTH1LH</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">COL12A1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">PTX3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SERPINE1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">TIMP3</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">NNMT</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">NTM</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">MSX1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">SPOCK1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">CDH2</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
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SFTA1P	High	<a href="#">AREG</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">NTSE</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
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SFTA1P	High	<a href="#">MFAP5</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">MMP1</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">FAP</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SFTA1P	High	<a href="#">VEGFC</a>	EPITHELIAL_MESENCHYMAL_TRANSITION
SNHG3	High	<a href="#">DAD1</a>	DNA_REPAIR
SNHG3	High	<a href="#">SNAPC5</a>	DNA_REPAIR
SNHG3	High	<a href="#">ERCC1</a>	DNA_REPAIR
SNHG3	High	<a href="#">GTF3C5</a>	DNA_REPAIR
SNHG3	High	<a href="#">FEN1</a>	DNA_REPAIR
SNHG3	High	<a href="#">RPA2</a>	DNA_REPAIR
SNHG3	High	<a href="#">ADRM1</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLD1</a>	DNA_REPAIR
SNHG3	High	<a href="#">SF3A3</a>	DNA_REPAIR
SNHG3	High	<a href="#">RAD51</a>	DNA_REPAIR
SNHG3	High	<a href="#">GTF2B</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR2E</a>	DNA_REPAIR
SNHG3	High	<a href="#">SUPT4H1</a>	DNA_REPAIR
SNHG3	High	<a href="#">UPF3B</a>	DNA_REPAIR
SNHG3	High	<a href="#">RAE1</a>	DNA_REPAIR
SNHG3	High	<a href="#">CDA</a>	DNA_REPAIR

SNHG3	High	<a href="#">HPRT1</a>	DNA_REPAIR
SNHG3	High	<a href="#">RAD52</a>	DNA_REPAIR
SNHG3	High	<a href="#">BRF2</a>	DNA_REPAIR
SNHG3	High	<a href="#">RFC4</a>	DNA_REPAIR
SNHG3	High	<a href="#">GUK1</a>	DNA_REPAIR
SNHG3	High	<a href="#">CSTF3</a>	DNA_REPAIR
SNHG3	High	<a href="#">TYMS</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR1D</a>	DNA_REPAIR
SNHG3	High	<a href="#">APRT</a>	DNA_REPAIR
SNHG3	High	<a href="#">CETN2</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR2J</a>	DNA_REPAIR
SNHG3	High	<a href="#">GPX4</a>	DNA_REPAIR
SNHG3	High	<a href="#">VPS28</a>	DNA_REPAIR
SNHG3	High	<a href="#">AK1</a>	DNA_REPAIR
SNHG3	High	<a href="#">MPG</a>	DNA_REPAIR
SNHG3	High	<a href="#">TAF9</a>	DNA_REPAIR
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SNHG3	High	<a href="#">SNAPC4</a>	DNA_REPAIR
SNHG3	High	<a href="#">EIF1B</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLL</a>	DNA_REPAIR
SNHG3	High	<a href="#">ZNF707</a>	DNA_REPAIR
SNHG3	High	<a href="#">GTF2A2</a>	DNA_REPAIR
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SNHG3	High	<a href="#">POLR2K</a>	DNA_REPAIR
SNHG3	High	<a href="#">IMPDH2</a>	DNA_REPAIR
SNHG3	High	<a href="#">DUT</a>	DNA_REPAIR
SNHG3	High	<a href="#">MRPL40</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR2G</a>	DNA_REPAIR
SNHG3	High	<a href="#">DGUOK</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLE4</a>	DNA_REPAIR
SNHG3	High	<a href="#">EDF1</a>	DNA_REPAIR
SNHG3	High	<a href="#">TAF10</a>	DNA_REPAIR
SNHG3	High	<a href="#">TARBP2</a>	DNA_REPAIR
SNHG3	High	<a href="#">ITPA</a>	DNA_REPAIR
SNHG3	High	<a href="#">GTF2H5</a>	DNA_REPAIR
SNHG3	High	<a href="#">TAF1C</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLB</a>	DNA_REPAIR
SNHG3	High	<a href="#">NME4</a>	DNA_REPAIR
SNHG3	High	<a href="#">NME1</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR2I</a>	DNA_REPAIR
SNHG3	High	<a href="#">RPA3</a>	DNA_REPAIR
SNHG3	High	<a href="#">RBX1</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR2H</a>	DNA_REPAIR

SNHG3	High	<a href="#">POLR2F</a>	DNA_REPAIR
SNHG3	High	<a href="#">BOLA2</a>	DNA_REPAIR
SNHG3	High	<a href="#">COX17</a>	DNA_REPAIR
SNHG3	High	<a href="#">POLR1C</a>	DNA_REPAIR
SNHG3	High	<a href="#">NT5C</a>	DNA_REPAIR
SNHG3	High	<a href="#">SAC3D1</a>	DNA_REPAIR
SNHG3	High	<a href="#">NME3</a>	DNA_REPAIR
SNHG3	High	<a href="#">CCNO</a>	DNA_REPAIR

**Table S8.** Analysis of infiltration of immune cells into tumor tissues and infer tumor purity depending on the lncRNA expression level;  $p < 0.05$  considered significant.

lncRNA	Parameter	Group	Minimum	Maximum	Range	Mean	Std. Deviation	Std. Error of Mean	p-value
C3orf35	Stromal_score	Low	-149266	146362	295628	-9884	55223	6554	0.3996
		High	-181593	164637	346230	-12486	45418	5280	
	Immune_score	Low	-118885	235128	354013	33297	65096	7672	0.1074
		High	-61871	205704	267575	18073	50863	5913	
	ESTIMATE_score	Low	-268151	263038	531189	21424	100892	11890	0.1218
		High	-235981	320647	556628	6241	70019	8140	
	Lymphocyte Infiltration Signature Score	Low	-1.657	2.387	4.044	0.31	0.9491	0.1119	0.3503
		High	-2.18	2.817	4.996	0.1512	1.091	0.1268	
C5orf38	Stromal_score	Low	-181593	164637	346230	-14186	60213	7146	0.989
		High	-135975	101927	237902	-8359	38690	4498	
	Immune_score	Low	-118885	235128	354013	41573	66943	7889	<0.0001
		High	-89345	157608	246953	10021	44362	5157	
	ESTIMATE_score	Low	-268151	320647	588798	28758	100802	11880	0.0005
		High	-179683	215983	395666	-894.9	67794	7881	
	Lymphocyte Infiltration Signature Score	Low	-1.138	2.817	3.955	0.6422	0.9318	0.1098	<0.0001
		High	-2.18	2.221	4.401	-0.172	0.9499	0.1104	
MEG3	Stromal_score	Low	-181593	146362	327955	-17341	56474	6655	0.0122
		High	-149266	164637	313903	-5167	42896	5021	
	Immune_score	Low	-61871	205704	267575	36568	62329	7346	0.1126

		High	-118885	235128	354013	14890	53017	6163	
	ESTIMATE_score	Low	-235981	263038	499019	10437	87816	10349	0.9735
		High	-268151	320647	588798	16931	86005	9998	
	Lymphocyte Infiltration Signature Score	Low	-1.659	2.817	4.476	0.4054	0.9955	0.1173	0.0334
		High	-2.18	2.301	4.48	0.05834	1.027	0.1194	
MYCNO S	Stromal_score	Low	-149266	146362	295628	-15205	49515	5876	0.8576
		High	-181593	164637	346230	-7381	51078	5938	
	Immune_score	Low	-118885	146468	265353	19475	49952	5887	0.4883
		High	-89345	235128	324473	31521	65764	7645	
	ESTIMATE_score	Low	-268151	215983	484134	2957	81443	9598	0.3496
		High	-235981	320647	556628	24209	90781	10553	
	Lymphocyte Infiltration Signature Score	Low	-1.832	2.301	4.133	0.04323	0.9109	0.1074	0.0475
		High	-2.18	2.817	4.996	0.4108	1.097	0.1275	
SNHG3	Stromal_score	Low	-141047	164637	305684	-872.9	52258	6202	0.078
		High	-181593	89465	271058	-21132	46562	5413	
	Immune_score	Low	-89345	205704	295049	35472	62161	7326	0.0093
		High	-118885	235128	354013	15957	53626	6234	
	ESTIMATE_score	Low	-164351	320647	484998	33408	93141	10977	0.0013
		High	-268151	262986	531137	-5419	75677	8797	
	Lymphocyte Infiltration Signature Score	Low	-2.18	2.817	4.996	0.4178	1.013	0.1193	0.0243
		High	-1.832	2.239	04.07	0.04632	1.006	0.1169	
TMEM10 5	Stromal_score	Low	-181593	164637	346230	-14914	56134	6615	0.5267
		High	-145278	146362	291640	-7561	43877	5135	
	Immune_score	Low	-118885	235128	354013	40799	71030	8371	0.0268
		High	-89345	157608	246953	10774	38297	4452	
	ESTIMATE_score	Low	-268151	320647	588798	26653	107677	12690	0.0714



		High	-164351	209395	373746	1154	57590	6695	
	Lymphocyte Infiltration Signature Score	Low	-1.659	2.817	4.476	0.5563	1.025	0.1208	0.0002
		High	-2.18	2.221	4.401	-0.08841	0.9208	0.107	
CASC2	Stromal_score	Low	-149266	99083	248349	-18354	51275	6085	0.1904
		High	-181593	164637	346230	-4360	48703	5662	
	Immune_score	Low	-118885	205704	324589	26677	62006	7308	0.5674
		High	-55276	235128	290404	24514	55520	6454	
	ESTIMATE_score	Low	-268151	263038	531189	9707	90680	10687	0.4201
		High	-235981	320647	556628	17641	83001	9649	
	Lymphocyte Infiltration Signature Score	Low	-1.659	2.817	4.476	0.3203	1.034	0.1219	0.3293
		High	-2.18	2.387	4.566	0.1411	1.011	0.1175	
C10orf55	Stromal_score	Low	-149266	164637	313903	-14198	53348	6287	0.8825
		High	-181593	146362	327955	-8267	47280	5534	
	Immune_score	Low	-118885	235128	354013	27905	60317	7108	0.5258
		High	-89345	205704	295049	23320	57230	6653	
	ESTIMATE_score	Low	-268151	320647	588798	20288	97106	11444	0.5834
		High	-235981	241058	477039	7347	75255	8748	
	Lymphocyte Infiltration Signature Score	Low	-1.732	2.387	4.119	0.2897	1.014	0.1195	0.5265
		High	-2.18	2.817	4.996	0.1709	1.035	0.1203	
SFTA1P	Stromal_score	Low	-181593	146362	327955	-15839	53263	6277	0.5139
		High	-145278	164637	309915	-6648	47112	5514	
	Immune_score	Low	-118885	235128	354013	32104	65709	7744	0.5942
		High	-89345	205704	295049	19234	50419	5861	
	ESTIMATE_score	Low	-268151	263038	531189	10372	93478	11017	0.7802
		High	-164351	320647	484998	16995	79985	9298	
		Low	-2.18	2.387	4.566	0.2283	1.039	0.1225	0.9728

	Lymphocyte Infiltration Signature Score	High	-1.832	2.817	4.648	0.2307	1.014	0.1178	
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