

Table S2. Gene fusions involving linc-genes of chromosome 18

Gene fusions	Cell line	Cancer associations of a perturbed gene by lincRNA	Cytogenetic location
<i>LINC00526--RAD54L</i>	CAL78	*Breast, lung, bladder cancer	18p11.31-1p34.1
<i>LINC00526--IDH3B</i>	DND41	Not found	18p11.31-20p13
<i>LINC00907--PIK3C3</i>	Y79	*Esophageal, colon cancer	18q12.3-18q12.3
<i>LINC01416--LMAN1</i>	SNU1214	Not found	18q21.2-18q21.32
<i>LINC01443--ESCO1</i>	NCIH2887	Not found	18p11.21-18q11.2
<i>LINC01630--SMAD4</i>	SNU738, KP4	*Pancreatic, colon, gastric cancer; **Tumor suppressor gene, hallmarks of cancer	18q21.2-18q21.2
<i>LINC01630--ELAC1</i>	MDAMB468, COLO678	Not found	18q21.2-18q21.2
<i>LINC01899--MBP</i>	NIHOVCAR3, ONCODG1	*Breast cancer, melanoma, gastric cancer	18q22.3-18q23
<i>LINC01902--PFN2</i>	SNU46	*Breast cancer, sarcoma	18q12.3-3q25.1
<i>LINC01902--ANKUB1</i>	SNU46	Not found	18q12.3-3q25.1
<i>LINC01915--RALBP1</i>	JVE015	*Breast, lung, oral cancer	18q11.2-18p11.22
<i>LINC01915--SDHA</i>	CCSW1	*Gliomas; **Tumor suppressor gene, hallmarks of cancer	18q11.2-5p15.33
<i>LINC01917--MBD2</i>	MIAPACA2	*Breast, prostate, colon cancer	18q21.2-18q21.2
<i>LINC01926--ZNF532</i>	SKOV3	Not found	18q21.32-18q21.32
<i>LINC01928--YES1</i>	GIMEN	*Lung, gastric cancer	18p11.21-18p11.32
<i>LINC02582--RCC1</i>	ICC15, LS180	*Lung cancer	18q22.3-1p35.3
<i>LINC02582--SNHG3[#]</i>	ICC15, LS180	Not found	18q22.3-1p35.3
<i>LINC02582--LRRC75A-AS1[#]</i>	PATU8902, G415	Not found	18q22.3-17p11.2
<i>LINC02864--CCDC102B</i>	NCIH1963	Not found	18q22.3-18q22.1

*MalaCards: a human disease database [S1] (<http://www.malacards.org/>) was used to search for associations of a perturbed gene with cancers (direct or indirect involvement in cancer biology, cancer promotion or suppression, drug sensitivity or resistance); cancer associations were selected by MalaCards InFormaTion Scores (MIFTS) > 70.

**The Cancer Gene Census of the Catalogue of Somatic Mutations in Cancer (COSMIC) web portal [S2] (<https://cancer.sanger.ac.uk/census>).

[#]non-coding RNAs.

References

[S1] Rappaport N, Twik M, Plaschkes I, Nudel R, Iny Stein T, Levitt J, Gershoni M, Morrey CP, Safran M, Lancet D. MalaCards: an amalgamated human disease compendium with diverse clinical and genetic annotation and structured search. *Nucleic Acids Res.* 2017;45(D1):D877-D887.

[S2] Sondka Z, Bamford S, Cole CG, Ward SA, Dunham I, Forbes SA. The COSMIC Cancer Gene Census: describing genetic dysfunction across all human cancers. *Nat Rev Cancer.* 2018;18(11):696-705.