

Table S17. Cancer-associated biologic processes and interactions between lincRNAs of human chromosome 18 and cellular proteins*

Cancer type	lincRNA	Protein symbol	Influenced process in cancer cells**
Gastric cancer	LINC00470	PTEN	proliferation(+); migration(+); invasion(+)
Liver carcinoma	LINC00470	ILF2	proliferation(+)
Liver carcinoma	LINC00470	ILF3	proliferation(+)
Malignant glioma	LINC00526	AXL	proliferation(+); migration(+); invasion(+); growth(+); PI3K/AKT/NF-kB signaling pathway(+)
Nephroblastoma	LINC00667	IKBKB	cancer progression(+)
Esophageal cancer	LINC00667	SLC2A3	proliferation(+); invasion(+); migration(+)
Gastric cancer	LINC00668	CDKN2B	proliferation(+)
Oral squamous cell carcinoma	LINC00668	VEGFA	cancer progression(+)
Gastric cancer	LINC00668	E2F1	proliferation(+)
Gastric cancer	LINC00668	CDKN1C	proliferation(+)
Colorectal cancer	LINC00668	USP47	proliferation(+); migration(+); apoptosis (-); malignant transformation(+)
Gastric cancer	LINC00668	SUZ12	proliferation(+)
Gastric cancer	LINC00668	EZH2	proliferation(+)
Gastric cancer	LINC00668	CDKN1B	proliferation(+)
Gastric cancer	LINC00668	CDKN2A	proliferation(+)
Non-small cell lung cancer	LINC00668	KLF7	proliferation(+); invasion(+); migration(+); apoptosis(-)
Non-small cell lung cancer	LINC00668	STAT3	proliferation(+); invasion(+); migration(+); apoptosis(-)
Breast cancer	LINC02582	CHEK1	radiosensitivity(-)

* Data was retrieved from LncBase v.3.0 [S1] (<https://diana.e-ce.uth.gr/lncbasev3/interactions>).

** (+) and (-) – induction and inhibition of biological process, respectively.

Abbreviations:

PTEN, phosphatase and tensin homolog;

ILF2, interleukin enhancer binding factor 2;

ILF3, interleukin enhancer binding factor 3;

AXL, AXL receptor tyrosine kinase;

IKBKB, inhibitor of nuclear factor kappa B kinase subunit beta;

SLC2A3, solute carrier family 2 member 3;

CDKN2B, cyclin dependent kinase inhibitor 2B;

VEGFA, vascular endothelial growth factor A;

E2F1, E2F transcription factor 1;

CDKN1C, cyclin dependent kinase inhibitor 1C;

USP47, ubiquitin specific peptidase 47;

SUZ12, SUZ12 polycomb repressive complex 2 subunit;

EZH2, enhancer of zeste 2 polycomb repressive complex 2 subunit;

CDKN1B, cyclin dependent kinase inhibitor 1B;

CDKN2A, cyclin dependent kinase inhibitor 2A;

KLF7, KLF transcription factor 7;

STAT3, signal transducer and activator of transcription 3;

CHEK1, checkpoint kinase 1.

References

[S1] Karagkouni D, Paraskevopoulou MD, Tastsoglou S, Skoufos G, Karavangeli A, Pierros V, Zacharopoulou E, Hatzigeorgiou AG. DIANA-LncBase v3: indexing experimentally supported miRNA targets on non-coding transcripts. *Nucleic Acids Res.* 2020;48(D1):D101-D110.