

Table S1. Primer and oligonucleotide sequences.

Sequence type	Sense (5'-3')	Antisense (5'-3')
Primers		
KIAA1429	TCAGACTGTGAGGGTTGT	CAGGGTGAGCACTTGTTA
ZFPM2-AS1	TGCCTTCCTTCCCTTAT	GACGCTCAGTCGTTACATC
GAPDH	GCACCGTCAAGGCTGAGAAC	GGATCTCGCTCCTGGAAGATG
Oligonucleotides		
shNC	GATTCTGGATTAGTGCCTAGCTT	AAGCTAGACGCACTAATCCAGAATC
shKIAA1429-1	CGCTGAGCAAAGTTCTCATAT	ATATGAGAACTTTGCTCAGCG
shKIAA1429-2	CCCAACGATGGCACGAATTAC	GTAATTCGTGCCATCGTTGGG
siNC	CAUGUACGUGUUUAGGGUCGAC AUU	AAUGUCGACCCUAAACACGUACAUG
siZFPM2-AS1	GCAGAGTTGCACAGAAGAA	TTGGGCAATTAATTAAGCCA
oeKIAA1429	TAAGCTTGGTACCGAGCTCGATGGCGGTGGACTCG GCGA	CCCTCTAGACTCGAGCGGCCTTATCGTGTAAGGA GCGTACATGACGACCT

ZFPM2-AS1, friend of GATA family member 2-antisense 1; shNC, negative control shRNA; shKIAA1429, shRNA targeting KIAA1429; siNC, negative control siRNA; siZFPM2-AS1, siRNA targeting ZFPM2-AS1; oeKIAA1429, KIAA1429 overexpression; shRNA, short hairpin RNA; siRNA, small interfering RNA.

Table SII. Top 20 genes positively correlated with KIAA1429 in The Cancer Genome Atlas-TARGET-osteosarcoma dataset.

Rank	Gene name	Correlation coefficient	Adjusted_P-value	Gene type
1	DPY19L4	0.78	1.36×10^{-14}	Protein coding
2	NBN	0.72	3.45×10^{-10}	Protein coding
3	CPNE3	0.7	4.32×10^{-9}	Protein coding
4	SNX16	0.68	2.23×10^{-8}	Protein coding
5	UBR5	0.66	1.64×10^{-7}	Protein coding
6	TRIQQ	0.66	2.67×10^{-7}	Protein coding
7	TGS1	0.65	8.60×10^{-7}	Protein coding
8	VPS13B	0.64	1.26×10^{-6}	Protein coding
9	ARMC1	0.64	1.28×10^{-6}	Protein coding
10	YTHDF3	0.64	1.32×10^{-6}	Protein coding
11	RMDN1	0.64	1.69×10^{-6}	Protein coding
12	STK3	0.63	2.24×10^{-6}	Protein coding
13	NUDCD1	0.63	2.38×10^{-6}	Protein coding
14	ZC2HC1A	0.63	4.50×10^{-6}	Protein coding
15	RAD54B	0.62	5.87×10^{-6}	Protein coding
16	RBM12B	0.62	7.49×10^{-6}	Protein coding
17	ZFPM2-AS1	0.62	8.95×10^{-6}	Long non-coding
18	ANKRD46	0.62	1.28×10^{-5}	Protein coding
19	PDP1	0.61	1.73×10^{-5}	Protein coding
20	ZFAND1	0.61	2.54×10^{-5}	Protein coding