

Supplementary material

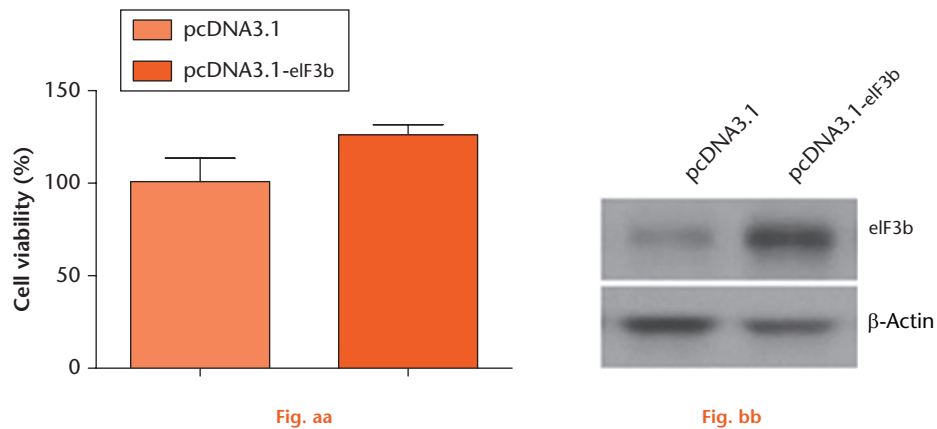


Table i. Human osteosarcoma cell line sample analysis information

n	Cell name	Sample type	Match (%)	Database	Analysis	Cell type
1	U2OS	Cell line	84	ATCC profile	STR	Osteosarcoma
2	MG63	Cell line	96	ATCC profile	STR	Osteosarcoma
3	143B	Cell line	100	ATCC profile	STR	Osteosarcoma

Table ii. Human osteosarcoma cell line authentication reports

Sample name	Locus	Reference profile	Sample profile
U2OS	Amelogenin	X	X
	CSF1PO	13	12 13
	D13S317	13	13
	D16S539	11 12	11 12
	D5S818	11	8 10 11
	D7S820	11 12	11 12
	THO1	6 9.3	6 9.3
	TPOX	11 12	11 12
	vWA	14 18	14 18
MG63	Amelogenin	X Y	X Y
	CSF1PO	10 12	10 12
	D13S317	11	11 12
	D16S539	11	11 12
	D5S818	11 12	11 12
	D7S820	10	10
	THO1	9.3	9.3
	TPOX	8 11	8 11
	vWA	16 19	16 19
143B	Amelogenin		
	CSF1PO	12	12
	D13S317	12	12
	D16S539	10 13	10 13
	D5S818	13	13
	D7S820	11 12	11 12
	THO1	6	6
	TPOX	11	11
	vWA	18	18

Table iii. Primer primers for reverse transcription polymerase chain reaction

Gene symbol	Sequences (5' to 3')	Product size (bp)
FAM111B	F: GCACTTGCACCGTGTGGACAGA R: GGGCTGAGTAGATACTCTCGTGGG	329
WDR76	F:TGGGATGGAAATATGCTACTGGTGG R: CAGCACATGTGGTACCCTCTGTT	280
CLTC	F:CTCAGAAAATGAGGGAGCACCTGG R: TCCACATTGGCAACCTTGGTAATG	220
CCDC80	F:GAACAGGATGGGTATCAGAAACCCA R: GCCGAAGATGGTGATCACAGAGATT	219
METTL7A	F:CTGCAGTTTGAGCGCTTTGTGG R: GGATCCAGGACTTGTGGCAGAAGT	230
SORBS2	F:GTATGAGGGAGAACACCACGGGAG R: GCCTTGCTGTGGTTCCTGGGA	262
NR1D1	F:CCGGCAGGGCAACTCAAAGA R: GCCAGCCTTAAGCAGGGTACTT	208
TNFRSF21	F:CCAGCCCCAACCGCAAACCTT R:CCGCAGCTCCTCAGGATTAGAAAG	269
MMP3	F:CGGTTCCGCTGTCTCAAGATG R:CCACGCTGAAGGAAGAGATGG	280
KRT75	F:TGCATCCTTGAGAGCCAGTTCTCC R: TGCATCCTTGAGAGCCAGTTCTCC	280
SEMA7A	F:AGGAGCACAGCTTCGCCTTCAA R: TGCAGCACTGACCGTTCGGA	256
eIF3B	F:GACGCCCATGGAAGAAGAGG R: GCAGCGAAGTACTCAGTCTC	250
GAPDH	F: TGATGACATCAAGAAGGTGG R: TCCTTGGAGCCATGTGGGC	240

SUPPLEMENTARY MATERIAL

Table iv. List of genes used in reverse transcription polymerase chain reaction validation of the microarray data

mRNA accession	Gene symbol	Fold change si-eIF3b/Mock	p-value	Fold change si-eIF3b/si-Control	p-value
ENST00000529618	FAM111B	-5.50008	5.57E-86	-4.565274	5.76E-66
NM_024908	WDR76	-2.97981	3.65E-25	-2.487224	3.64E-16
NM_004859	CLTC	-2.96227	3.48E-48	-3.026164	5.63E-56
ENST00000206423	CCDC80	-2.74204	3.09E-20	-2.455353	5.13E-15
ENST00000548553	METTL7A	-2.71102	1.65E-13	-2.327374	1.18E-08
ENST00000355634	SORBS2	-2.52285	2.57E-19	-2.402354	9.86E-17
NM_021724	NR1D1	-2.50283	1.23E-14	-2.694479	5.72E-17
ENST00000296861	TNFRSF21	2.245325	0	2.055934	0
ENST00000299855	MMP3	2.594386	1.80E-13	1.70038	0.000174
ENST00000252245	KRT75	3.087482	0	2.216535	0
NM_003612	SEMA7A	4.607234	0	3.81047	0