

**Supplementary table 4.** Confirmation of transcription factor binding motifs by ChIP and siRNA assays in human and mouse cells

<b>Transcription Factor</b>	<b>Gene symbol</b>	<b>Reference</b>
Elk-1	ARF4	[1]
	BBS4	[1]
	BTAF1	[1]
	C12orf57	[1]
	EIF2A	[1]
	MRPS22	[1]
	SERP1	[1]
	SNX16	[1]
	SUB1	[1]
RUNX2	ABLIM1 (siRNA)	[2-5]
	ANKRD13C (ChIP)	[6, 7]
	ARNT (siRNA)	[2-5, 8, 9]
	CFH (ChIP)	[6, 7]
	CLTA (ChIP)	[6, 7]
	CNN3 (ChIP)	[6, 7]
	Col6A3 (siRNA)	[8, 9]
	CREG 1 (forced expression)	[10, 11]
	EIF2A (forced expression)	[10, 11]
	EIF5 (forced expression)	[10, 11]
	ETS1 (siRNA)	[2-5, 8, 9]
	F13A1 (ChIP)	[6, 7]
	GAK (ChIP)	[6, 7]
	GAP43 (siRNA)	[2-5]
	GSTA4 (siRNA)	[2-5, 8, 9]
	HIST1H4C (ChIP)	[6, 7]
	HTRA1 (ChIP)	[6, 7]
	IFRD1 (ChIP)	[6, 7]
	IGFBP7 (siRNA)	[8-11]
	IRF2BP2 (siRNA)	[8, 9]
	ITGA6 (siRNA)	[2-5, 8, 9]
	KCTD13 (ChIP)	[6-9]
	KLHDC2 (siRNA)	[8, 9]
	LPL (siRNA)	[2-5, 8, 9]
	LRRFIP2 (ChIP +forced expression)	[6, 7, 10, 11]
	LTA4H (ChIP)	[6, 7]
	MGAT2 (ChIP)	[6, 7]
	MYCBP2 (ChIP+forced expression)	[6, 7, 10, 11]
	NFIB (siRNA)	[2-5]
	NPC2 (forced expression)	[10, 11]
	PANX3 (ChIP)	[6, 7]
	PLSCR1 (siRNA)	[8, 9]
	PPIC (siRNA + forced expression)	[8-11]
	PRDX4 (siRNA + forced expression)	[8-11]
	PTPN4 (ChIP)	[6, 7]
	RPL15 (ChIP)	[6, 7]
	RPN2 (forced expression)	[10, 11]
	SEC61G (ChIP)	[6, 7]
	SEMA3C (siRNA)	[2-5]
	SEMA6D (siRNA)	[2-5]
	SH3BGRL (forced expression)	[10, 11]
SMOC2 (siRNA)	[2-5]	
SPATA6 (ChIP)	[6, 7]	
STK38L (siRNA)	[8, 9]	
TIMM17A (forced expression)	[10, 11]	

	TIMP3 (siRNA)	[2-5, 8, 9]
	TMEM100 (ChIP)	[6, 7]
	TMEM38B (ChIP)	[6, 7]
	TMEM45A (ChIP)	[6-9]
	TNFAIP6 (siRNA)	[8, 9]
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STAT5B		
	TNFSF11	[12]
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CREB		
	ANKRD13C	[13]
	EEF2	[13]
	FOSB	[13]
	RAB11A	[13]
	RAB18	[13]
	RNF7	[13]
	SFRS5	[13]
	STK38L	[13]
	TIMP3	[13]
	TMEM39A	[13]
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Androgen Receptor		
	CALD1	[14]
	ETS1	[14]
	F13A1	[14]
	RCN2	[14]
	SFRP1	[14]
	SNAI2	[14]
	SORL1	[14]
	TOX	[14]
	VEZF1	[14]
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Estrogen Receptor		
	CLDND1	[15]
	CLEC11A	[15]
	DSTN	[15]
	FOS	[15]
	LEPREL1	[15]
	PFDN2	[15]
	SEMA3C	[15]
	SFRP1	[15]

This table lists all genes that contain binding sites for the transcription factors ELK-1, STAT5B, CREB, Estrogen receptor, or Androgen receptor as determined by ChIP assays of human cells. The transcription factor binding sites for RUNX2 were confirmed by either knock down assays in mouse osteoprogenitors (Teplyuk *et al.* 2008, 2011), siRNA assays in human osteosarcoma cells (Young *et al.* 2007a, 2007b), and by ChIP assays in human osteosarcoma cells (van der Deen *et al.* 2008, 2011), or forced expression of Runx in mouse embryonic fibroblast cells (MEF; Kilbey *et al.* 2010, Wotton *et al.* 2008), and genome wide bioinformatic analysis of the RUNX2 binding motif in mouse (unpublished observations of AvW, GS).

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