

**Additional file 22: Putative transcription factor binding sites in the SPESP1 promoter.** List of transcription factors with known repressive effect and putative binding sites in the SPESP1 promoter.

Transcription factor	Sequence (forward strand sequence shown)*	Strand	HhaI site in or close to binding site**	SssI site in or close to binding site***
AML1a[1]	tttTGAGGTgga	Reverse	No	No
	ctgACCTCAggt	Reverse	No	No
	acaACCTCAatgc	Reverse	No	No
	tctTGGGGTgct	Forward	No	No
	<u>cg</u> cTGTGGTaat	Forward	No	Yes
CDXA[2]	gaaTACAAATcta	Reverse	No	No
	gagTTTTCTGGaat	Forward	No	No
	tttAAAAATAacc	Forward	No	No
	ataCAGAAAAAcag	Reverse	No	No
	tttTATTTTTatt	Reverse	No	No
	tttATTTATTTt	Forward	No	No
	attTATTTTTttg	Reverse	No	No
	ttgTATTTTTagt	Reverse	No	No
	atcTATTAGTccc	Reverse	No	No
gttTTTAATGccc	Reverse	No	No	
CREB[3]	tccTGACCTCAggt	Forward	No	No
	gatTACAGGAGTGAGCCacc	Forward	No	No
DELTAEF1[4]	tggCCCAGGTGCTAagc	Reverse	No	No
	tttTTGAGGTGGAGtct	Reverse	No	No
	gacCTCAGGTGGTC <u>cg</u> c	Reverse	No	Yes
E2F[5]	ctgGCGAGAAAt <u>cg</u>	Reverse	No	Yes
	cccTTTCAC <u>G</u> Ctgt	Forward	No	Yes
ETS1[6]	ccaCCCGGAAGT <u>C</u> ggg	Forward	No	Yes
	tgcTACAGGAAGAGTgag	Forward	No	No
	cctTGCTTCCTGAggc	Reverse	No	No
	cccTTGCTTCCTGAGGCaga	Reverse	No	No
	ctcGCCGGAAGTatgc	Forward	No	Yes
	accCGCTTCCGGGggt	Reverse	No	Yes
GATA1[7]	tggCACGATCT <u>C</u> Ggct	Reverse	No	Yes
	cctACCCCTATCTTTTTaag	Reverse	No	No
	tgcCAGGTTATCTGCCTctc	Reverse	No	No
	<u>gcg</u> CAGGATGGGC <u>cg</u> a	Forward	Yes	Yes
	<u>gcg</u> CGCGATCCCC <u>cg</u> c	Forward	Yes	Yes
HFH2[8]	tgcGAATTTTTATTTtta	Forward	No	Yes
	tatTTTTATTTATTTttt	Forward	No	No
	tttATTTATTTTTTTgag	Forward	No	No
LYF1[9]	tccTTTGGGATGtgc	Forward	No	No
	cagTCTCCCAAGtag	Reverse	No	No

	<u>cgg</u> CCTCCCAAAgtg	Reverse	No	Yes
	tgcCCTCCCAAGccc	Reverse	No	No
MZF1[10]	cccTGC <u>CGGG</u> GAggc	Forward	No	Yes
	gccAG <u>CGGG</u> GAcgg	Forward	No	Yes
	agcTCCCCCAact	Reverse	No	No
	tagTCCCCAAaaca	Reverse	No	No
	agcTCCCCACC <u>cgc</u>	Reverse	No	Yes
	gctTCCCCCActac	Reverse	No	No
	cttCCCCCACTaca	Reverse	No	No
	cgaTCCCC <u>CG</u> Cccc	Reverse	No	Yes
	ctcTCCCCTCCccc	Reverse	No	No
	cccTCCCCCATgcc	Reverse	No	No
	<u>cgc</u> TCTCCCCTCCCCCcatg	Reverse	No	Yes
P300[11]	ggtCTCGAACTCCTGACctc	Reverse	No	Yes
PBX1[12]	attTTTATTTATttt	Reverse	No	No
REL[13]	gggGTGGGTTTCCact	Forward	No	No
	cctGCAC <u>CGCG</u> Gtcc	Reverse	No	Yes
RREB1[14]	agtCCCCAAAACAACCTcat	Forward	No	No
SP1[15]	tccGGGGGTGGGTttc	Forward	No	Yes
	gaaGGGG <u>CGGGG</u> Cggg	Forward	No	Yes
	ggcGGGG <u>CGGGG</u> Cgcg	Forward	Yes	Yes
	gatCCCC <u>CG</u> CCCCctg	Reverse	No	Yes
	ggaGGGG <u>CGGG</u> CCttg	Forward	No	Yes
SRY[16]	gagTGAGTTTtct	Reverse	No	No
	acaAATCTAAatca	Forward	No	No
	gaaAAACAGAttc	Forward	No	No
	ccaAAACAACctc	Forward	No	No
	gtcAAAGAAAtgg	Forward	No	No
	gaaAAACAAAaac	Forward	No	No
	caaAAACACCcaa	Forward	No	No
	ttgAAAAACA AAAACacc	Forward	No	No

\* Capital letters indicate the putative transcription factor binding site, while lower case letters indicate the 3 bases immediately outside the binding site

\*\* Indicated by *italic* letters in sequences

\*\*\* Indicated by underscores letters in sequences

## References

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