

**Supplemental Table S4. PCR primer list**

Analysis	Gene	Segment	direction	location	sequence	
Expression						
	<i>Ewsr1</i>		F	alt exon 8	AGGACACTGGGCAGTCCCCTTT	
			R	alt exon 8	GCCTTACCTGCAGCAGACTGA	
		upstream	F	intron 8	CTGCTGCAGGTAAGGCGCTCAA	
			R	intron 8	ACACCGTGTCTAGTCCCCTTTTCA	
		downstream	F	intron 8	GCAAGCTGCCCTGAAGAAAGGCA	
			R	intron 8	TACCGCTCTGAGCCTTGGCA	
	<i>Zbtb24</i>		F	exon 2	CCGGTGTAAGACTGCGACA	
			R	intron 2	ACAACCGTCCCAACCACAAT	
	<i>RLUC</i>		F		TTGAGCCAGTAGCGCGGTGT	
			R		GCACCCCAATCATGGCCGACAA	
ChIP						
	<i>Ewsr1</i>	s-2	F	promoter	GGCCTTGCCTCCATCCCTCAAT	
			R	promoter	TCACCCAGCAGGACCTGGGACTAT	
		s-1	F	promoter	AGCCAGCGGGCGTAACCATT	
			R	promoter	TCGGCTCTTCGCTCCCGAAA	
		s1	F	exon 1	GCGAGAAGGAGACGGACGTTGA	
			R	intron 1	CCAACCCCTTTCGGCGACTTCA	
		s3	F	exon 3	ACACCGCCCAGCCAACTCAA	
			R	intron 3	GCGTGGTGGTGCATGCCTTT	
		s6	F	intron 6	TTAGGACAGGCTGGCCCTGAAC	
			R	intron 6	GCTGGGTGTAGTGGCAAGGCAA	
		s7	F	intron 7	TGGCGCAGCATTTCAGTGA	
			R	intron 7	TCTGGCGTACAAAGGGCGGAA	
		s8	F	intron 8	AGGACACTGGGCAGTCCCCTTT	
			R	intron 8	GCCTTACCTGCAGCAGACTGAA	
		s9	F	exon 9	TGGAGAGCGAGGTGGCTTCA	
			R	intron 9	AGACAATGCCGGCAGTACCCATT	
		s11	F	intron 11	TGGCAGCCTCTGTGTGTGCAA	
			R	intron 11	AGCCCCCTTCCCCAGTGAAAA	
		s13	F	intron 13	AACAGCATGCGGGGAGGCAT	
			R	intron 13	CCAACCCAACCAACCCCGTTT	
		<i>Taf15</i>	s-1	F	promoter	AGGGGAGCCTCGTCTTTCGCTT

		R	promoter	TCGCTCCGCCCCATTCACAA	
	s1	F	intron 1	TTCCCAGTCCACCTGGAGGGAT	
		R	intron 1	TGTCCCGTCTTTCTCGCTCCT	
	s7	F	intron 7	AGGCTAGGAGGGACACAATGGTT	
		R	intron 7	ACCACACTCACACCCAACCCTCA	
	s8	F	intron 8	AAAGCCACCAATATCCCGCAGATG	
		R	intron 8	TGCACACAACACACGAGCCTCA	
	s12	F	intron 12	ACTGGGTGGGTGTCAGGCATCA	
		R	intron 12	TGGCAGTGAGACAACGCAGCA	
RIP					
	<i>Ewsr1</i>	RIP	F	intron 8	GTTGTTTGGTAATGAACCAGAGGAGG
			R	intron 8	GTTGCATGCAGCTTTACTCCTTGTT
	<i>RLUC</i>	RIP	F		TCGTTTCGTTGAGCGAGTTCTCAAA
			R		AGGGGTCCGCGCACATTTTC
3'RACE					
				CTGATCTAGAGGTACCGGATCCTTTTT	
	Oligo dT	R		TTTTTTTTTTTTTT	
			R	CTGATCTAGAGGTACCGGATCC	
	<i>pRBG4</i>		F	TAGAAGACACCGGGACCGAT	
	<i>Ewsr1</i>		F	intron 8	CTGCTGCAGGTAAGGCGCTCAA
	<i>Zbtb24</i>		F	APA	CCGGTGTAAGACTGCGACA
	<i>pRL-SV40+Ewsr1</i>		F		TGCAGAAGTTGGTCGTGAGGCA
	<i>minigene+MS2</i>		F		ATAGGCTAGCATGAACCAGAGGAGG

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