

Additional file 13: Core promoter elements in the proximal promoter regions of the seven human 8q24.3 genes

Gene	Individual Matrix	Matrix Family	Start	End	Strand	Sequence	Core similarity	Matrix similarity	Description
ZNF7	OSHMT.01	OSMTEN	11	31	(+)	cgAGCCaggcgtctccgcgag	0.961	0.894	Core promoter motif ten elements (human)
ZNF7	OSXCPE.1.01	OSXCPE	77	87	(+)	gcGGGGgagcg	0.761	0.847	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF7	OSXCPE.1.01	OSXCPE	260	270	(-)	ggCGGgagcg	1.000	0.877	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF7	OSXCPE.1.01	OSXCPE	323	333	(-)	ggCGGgagcg	1.000	0.804	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF7	OSXCPE.1.01	OSXCPE	392	402	(-)	ggCGGgacca	1.000	1.000	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF7	OSDMTE.01	OSMTEN	505	525	(+)	gcctccgAGCGcccaggcg	1.000	0.823	Core promoter motif ten elements (Drosophila)
ZNF7	OSBRE.01	OSTF2B	627	633	(-)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF7	OSBRE.01	OSTF2B	636	642	(-)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF7	TSS		528						Transcriptional start site
ZNF7	TSS		569						Transcriptional start site
ZNF7	TSS		590						Transcriptional start site
ZNF7	TSS		593						Transcriptional start site
ZNF16	OSDINR.01	OSINRE	328	338	(+)	ctTCAGttgcc	1.000	0.957	Core promoter initiator elements (Drosophila)
ZNF16	OSDMTE.01	OSMTEN	570	590	(+)	ctttccaAGCGgagccgttg	1.000	0.772	Core promoter motif ten elements (Drosophila)
ZNF16	OSXCPE.1.01	OSXCPE	507	517	(+)	ggCGGgactt	1.000	0.900	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF16	TSS		501						Transcriptional start site
ZNF16	TSS		514						Transcriptional start site
ZNF16	TSS		531						Transcriptional start site
ZNF34	OSMTATA.01	OSVTBP	183	199	(+)	ctctgTAAAtcagaagg	1.000	0.879	Vertebrate TATA binding protein factor (muscle)
ZNF34	OSDMTE.01	OSMTEN	435	455	(+)	ttccagAGCGgcccagcg	1.000	0.773	Core promoter motif ten elements (Drosophila)
ZNF34	OSINR_DPE.01	OSTF2D	450	488	(+)	ggaaggcgtctgcgaccagacagctcggtGACGtact	1.000	0.692	General transcription factor IID, GTF2D
ZNF34	OSINR_DPE.01	OSTF2D	470	508	(-)	ccaatcgaacccgaltccggaagtgacgttaGCCGactgt	0.848	0.722	General transcription factor IID, GTF2D
ZNF34	OSDMTE.01	OSMTEN	492	512	(-)	cccgccaATCGaacccgator	0.875	0.851	Core promoter motif ten elements (Drosophila)
ZNF34	OSDMTE.01	OSMTEN	518	538	(+)	agggccgAACGggcgaggthg	0.938	0.804	Core promoter motif ten elements (Drosophila)
ZNF34	OSHMT.01	OSMTEN	574	594	(+)	tgAGCCcgggggggcgggcg	0.961	0.922	Core promoter motif ten elements (human)
ZNF34	OSXCPE.1.01	OSXCPE	586	596	(+)	ggCGGgagcg	1.000	0.855	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF34	TSS		505						Transcriptional start site
ZNF250	OSINR_DPE.01	OSTF2D	15	53	(+)	gcaggaccagccaggcgtcgaggcaagGTCGttccc	0.978	0.727	General transcription factor IID, GTF2D
ZNF250	OSHMT.01	OSMTEN	22	42	(+)	ccAGCCaggcgtcgaggcca	0.961	0.931	Core promoter motif ten elements (human)
ZNF250	OSINR_DPE.01	OSTF2D	101	139	(+)	cgagttcaggagccgcggaagccagcgcaaGTCGaggag	0.978	0.693	General transcription factor IID, GTF2D
ZNF250	OSINR_DPE.01	OSTF2D	108	146	(-)	gcagtcctctcgtacttgcgctgcttcgGCCGtctg	0.848	0.783	General transcription factor IID, GTF2D
ZNF250	OSDMTE.01	OSMTEN	117	137	(+)	cgaagccAGCGcaagtogagg	1.000	0.775	Core promoter motif ten elements (Drosophila)
ZNF250	OSBRE.01	OSTF2B	241	247	(+)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF250	OSHMT.01	OSMTEN	263	283	(+)	ggAGCCgcgcggccattgc	0.961	0.933	Core promoter motif ten elements (human)
ZNF250	OSDINR.01	OSINRE	389	399	(-)	cgTCAthggc	0.969	0.940	Core promoter initiator elements (Drosophila)
ZNF250	OSXCPE.1.01	OSXCPE	441	451	(+)	ggCGGggaact	1.000	0.953	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF250	TSS		501						Transcriptional start site
ZNF250	TSS		531						Transcriptional start site
ZNF250	TSS		535						Transcriptional start site
ZNF250	TSS		540						Transcriptional start site
ZNF251	OSDINR.01	OSINRE	106	116	(-)	tcTCAGttctt	1.000	0.970	Core promoter initiator elements (Drosophila)
ZNF251	OSHMT.01	OSMTEN	274	294	(+)	ggAGCCcagcgggttagggt	0.961	0.965	Core promoter motif ten elements (human)
ZNF251	OSHMT.01	OSMTEN	319	339	(+)	cgAGCGggcgccgcccgat	1.000	0.959	Core promoter motif ten elements (human)
ZNF251	OSBRE.01	OSTF2B	326	332	(-)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF251	OSBRE.01	OSTF2B	351	357	(+)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF251	OSHMT.01	OSMTEN	356	376	(-)	gcAGCTgagcgagggtctcg	0.839	0.933	Core promoter motif ten elements (human)
ZNF251	OSHMT.01	OSMTEN	444	464	(+)	gaATCCgagcggaacccggc	0.761	0.913	Core promoter motif ten elements (human)
ZNF251	OSXCPE.1.01	OSXCPE	450	460	(+)	ggCGGgaaccg	1.000	0.927	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF251	OSHMT.01	OSMTEN	451	471	(-)	gaAGCCagccgggttcgccc	0.961	0.890	Core promoter motif ten elements (human)
ZNF251	OSDMTE.01	OSMTEN	601	621	(-)	agcccggaACGgaaccccca	0.938	0.788	Core promoter motif ten elements (Drosophila)
ZNF251	TSS		501						Transcriptional start site
ZNF251	TSS		617						Transcriptional start site
ZNF252	OSATATA.01	OSVTBP	44	60	(+)	cdcatTAAGGatgag	1.000	0.796	Vertebrate TATA binding protein factor (avian)
ZNF252	OSDMTE.01	OSMTEN	270	290	(-)	gacaccgAGCGttcttcgga	1.000	0.820	Core promoter motif ten elements (Drosophila)
ZNF252	OSXCPE.1.01	OSXCPE	484	494	(+)	ggCGGgaagt	1.000	0.806	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF252	TSS		501						Transcriptional start site
ZNF252	TSS		505						Transcriptional start site
ZNF252	TSS		544						Transcriptional start site
ZNF252	TSS		550						Transcriptional start site
ZNF517	OSVTATA.01	OSVTBP	123	139	(-)	tcataTAAAttatgac	1.000	0.925	Vertebrate TATA binding protein factor
ZNF517	OSDMTE.01	OSMTEN	153	173	(-)	agggcggAGCGggggcgctcg	1.000	0.772	Core promoter motif ten elements (Drosophila)
ZNF517	OSXCPE.1.01	OSXCPE	157	167	(-)	gaGCGGggggcg	1.000	0.801	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF517	OSHMT.01	OSMTEN	284	304	(+)	gaAACGgagcgccgagaagct	0.789	0.896	Core promoter motif ten elements
ZNF517	OSBRE.01	OSTF2B	315	321	(+)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF517	OSDINR.01	OSINRE	331	341	(-)	taTCAgtccca	1.000	0.942	Core promoter initiator elements (Drosophila)
ZNF517	OSBRE.01	OSTF2B	397	403	(+)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF517	OSDMTE.01	OSMTEN	424	444	(+)	agacgcgAGCGccatcgagcc	1.000	0.791	Core promoter motif ten elements (Drosophila)
ZNF517	OSHMT.01	OSMTEN	515	535	(+)	agAGCCggggcgctgcgctc	0.961	0.916	Core promoter motif ten elements (human)
ZNF517	OSXCPE.1.01	OSXCPE	583	593	(+)	ggCGGggact	1.000	0.830	Activator-, mediator- and TBP-dependent core promoter element for RNA polymerase II transcription from TATA-less promoters
ZNF517	OSBRE.01	OSTF2B	600	606	(-)	ccgCGCC	1.000	1.000	RNA polymerase II transcription factor II B
ZNF517	TSS		501						Transcriptional start site
ZNF517	TSS		528						Transcriptional start site

Start / End Position within promoter region relative to first nucleotide of the sequence
strand orientation: (+) Sense strand with respect to transcript
 (-) Antisense strand with respect to transcript