

### Additional file 1. Motif prediction of 621bp-MITE

Code	Taxon	Start	Strand	Length	Motif	Function
ARE	<i>Zea mays</i>	408	+	6	TGGTTT	cis-acting regulatory element essential for the anaerobic induction
ARE	<i>Zea mays</i>	602	-	6	TGGTTT	cis-acting regulatory element essential for the anaerobic induction
Box 4	<i>Petroselinum crispum</i>	322	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box I	<i>Pisum sativum</i>	257	+	7	TTTCAAA	light responsive element
CAAT-box	<i>Brassica rapa</i>	88	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	538	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	186	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	606	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Arabidopsis thaliana</i>	116	-	5	CCAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	566	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	519	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Arabidopsis thaliana</i>	565	+	5	CCAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	115	-	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Arabidopsis thaliana</i>	605	+	5	CCAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	155	+	5	CAAAT	common cis-acting element in promoter and enhancer regions
E2Fa	<i>Nicotiana tabacum</i>	596	-	8	TTTCCCGC	
GT1-motif	<i>Arabidopsis thaliana</i>	145	+	6	GGTTAA	light responsive element
GT1-motif	<i>Arabidopsis thaliana</i>	168	+	6	GGTTAA	light responsive element
HSE	<i>Brassica oleracea</i>	274	-	9	AAAAAATTTTC	cis-acting element involved in heat stress responsiveness
Skn-1_motif	<i>Oryza sativa</i>	139	-	5	GTCAT	cis-acting regulatory element required for endosperm expression
Sp1	<i>Zea mays</i>	57	-	5.5	CC(G/A)CCC	light responsive element
Sp1	<i>Oryza sativa</i>	450	-	6	GGGCGG	light responsive element
Sp1	<i>Zea mays</i>	440	+	5	CC(G/A)CCC	light responsive element
Sp1	<i>Zea mays</i>	588	-	5.5	CC(G/A)CCC	light responsive element

TATA-box	<i>Lycopersicon esculentum</i>	79	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	175	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Pisum sativum</i>	196	-	8	TATAAAAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	197	-	7	TATAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	198	-	6	TATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	199	-	7	TATATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	200	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica oleracea</i>	201	+	7	ATATAAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	202	+	11	TATAAATATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	206	+	6	ATTATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	207	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	208	+	6	TATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	210	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	228	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	231	-	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	232	+	6	ATTATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	233	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	234	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	236	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	250	+	6	ATTATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	251	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	252	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	265	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	266	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	271	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Zea mays</i>	279	-	8	TTTAAAAA	core promoter element around -30 of transcription start

TATA-box	<i>Lycopersicon esculentum</i>	280	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	286	+	6	ATTATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	287	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	288	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	300	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	305	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	308	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Pisum sativum</i>	312	-	8	TATAAAAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	313	-	7	TATAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	314	-	6	TATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	315	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	316	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	318	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	321	-	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	328	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica oleracea</i>	332	+	7	ATATAAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	333	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	335	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	341	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	342	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	346	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	355	-	7	TATAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	356	-	6	TATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	357	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	358	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	368	+	5	TTTTA	core promoter element around -30 of transcription start

TATA-box	<i>Zea mays</i>	369	+	8	TTTAAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	371	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	377	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	379	-	9	TAAAAATAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	383	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	385	-	9	TAAAAATAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	389	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Oryza sativa</i>	395	-	7	TACAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	396	-	11	TATAAATATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Daucus carota</i>	400	-	8	TATAAATA	core promoter element around -30 of transcription start
TATA-box	<i>Ac</i>	401	-	7	TATAAAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	402	-	6	TATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	403	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	404	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Zea mays</i>	412	-	8	TTTAAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	413	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Zea mays</i>	414	+	8	TTTAAAAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	416	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	490	+	5	TTTTA	core promoter element around -30 of transcription start
Unnamed__4	<i>Petroselinum hortense</i>	441	+	4	CTCC	
Unnamed__4	<i>Petroselinum hortense</i>	503	-	4	CTCC	
box E	<i>Petroselinum crispum</i>	604	+	9	ACCCATCAAG	

[PlantCARE: a database of plant cis-acting regulatory elements and a portal to tools for in silico analysis of promoter sequences.](#)

Lescot, M., Dhais, P., Moreau, Y., De Moor, B., Rouz é,P.,and Rombauts, S.Nucleic Acids Res., Database issue(2002), 30(1):325-327.