

### Additional file 16. The analysis of the *LcFT1* promoter elements

Site Name	Organism	Position	Strand	Matrix score.	sequence	function
ACE	Petroselinumcrispum	973	-	9	CTAACGTATT	cis-acting element involved in light responsiveness
ACE	Petroselinumcrispum	1121	+	9	AAAACGTTA	cis-acting element involved in light responsiveness
ARE	Zea mays	881	+	6	TGGTTT	cis-acting regulatory element essential for the anaerobic induction
AT-rich element	Glycine max	622	+	10	ATAGAAATCAA	binding site of AT-rich DNA binding protein (ATBP-1)
Box 4	Petroselinumcrispum	899	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box 4	Petroselinumcrispum	915	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box 4	Petroselinumcrispum	907	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box 4	Petroselinumcrispum	962	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box 4	Petroselinumcrispum	903	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box 4	Petroselinumcrispum	911	+	6	ATTAAT	part of a conserved DNA module involved in light responsiveness
Box I	Pisumsativum	1061	+	7	TTTCAAA	light responsive element
CAAT-box	Arabidopsis thaliana	133	+	5	CCAAT	common cis-acting element in promoter

						and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	134	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	142	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	166	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	225	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	233	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	255	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	414	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	423	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	482	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	548	+	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Arabidopsis thaliana</i>	557	+	5	CCAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	558	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	630	+	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	665	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	686	-	5	CAAAT	common cis-acting

						element in promoter and enhancer regions
CAAT-box	<i>Arabidopsis thaliana</i>	720	-	5	CCAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	743	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	750	+	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	925	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	940	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	952	-	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	953	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	1007	+	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	1030	-	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	1037	+	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	1064	+	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	1091	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeum vulgare</i>	1098	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Arabidopsis thaliana</i>	1187	+	5	CCAAT	common cis-acting element in promoter and enhancer regions

CAAT-box	<i>Hordeumvulgare</i>	1188	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	1227	+	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Brassica rapa</i>	1282	+	5	CAAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	1407	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	1418	+	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Glycine max</i>	1454	-	5	CAATT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	1455	-	4	CAAT	common cis-acting element in promoter and enhancer regions
CAAT-box	<i>Hordeumvulgare</i>	1478	-	4	CAAT	common cis-acting element in promoter and enhancer regions
G-Box	<i>Pisumsativum</i>	931	+	6	CACGTT	cis-acting regulatory element involved in light responsiveness
G-box	<i>Brassica oleracea</i>	280	+	9	TAACACGTAG	cis-acting regulatory element involved in light responsiveness
G-box	<i>Zea mays</i>	931	+	6	CACGTT	cis-acting regulatory element involved in light responsiveness
G-box	<i>Solanumtuberosum</i>	460	+	7	CACATGG	cis-acting regulatory element involved in light responsiveness
GAG-motif	<i>Arabidopsis thaliana</i>	756	-	7	AGAGAGT	part of a light responsive element
GATT-motif	<i>Oryza sativa</i>	249	+	11	CTCCTGATTGGA	part of a light responsive element
GT1-motif	<i>Arabidopsis thaliana</i>	553	-	6	GGTTAA	light responsive element
GT1-motif	<i>Arabidopsis thaliana</i>	1016	+	6	GGTTAA	light responsive element

HSE	<i>Brassica oleracea</i>	1107	-	9	AGAAAATTCG	cis-acting element involved in heat stress responsiveness
LTR	<i>Hordeumvulgare</i>	27	-	6	CCGAAA	cis-acting element involved in low-temperature responsiveness
LTR	<i>Hordeumvulgare</i>	1489	-	6	CCGAAA	cis-acting element involved in low-temperature responsiveness
MBS	<i>Arabidopsis thaliana</i>	69	-	6	CAACTG	MYB binding site involved in drought-inducibility
MBS	<i>Arabidopsis thaliana</i>	1426	-	6	CAACTG	MYB binding site involved in drought-inducibility
MBS	<i>Arabidopsis thaliana</i>	351	+	6	CAACTG	MYB binding site involved in drought-inducibility
Skn-1_motif	<i>Oryza sativa</i>	289	+	5	GTCAT	cis-acting regulatory element required for endosperm expression
Skn-1_motif	<i>Oryza sativa</i>	476	+	5	GTCAT	cis-acting regulatory element required for endosperm expression
Skn-1_motif	<i>Oryza sativa</i>	404	-	5	GTCAT	cis-acting regulatory element required for endosperm expression
TA-rich region	<i>Nicotianatabacum</i>	605	+	20	TATATATATATATATATATA	enhancer
TA-rich region	<i>Nicotianatabacum</i>	609	+	20	TATATATATATATATATATA	enhancer
TA-rich region	<i>Nicotianatabacum</i>	607	+	20	TATATATATATATATATATA	enhancer
TATA-box	<i>Arabidopsis thaliana</i>	47	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Oryza sativa</i>	49	+	7	TACAAAAA	core promoter element around -30 of transcription start

TATA-box	<i>Lycopersicon esculentum</i>	97	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	157	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	162	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	176	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica oleracea</i>	227	+	6	ATATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	228	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	293	-	9	TAAAAATAA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	297	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	300	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	357	-	6	TATAAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	358	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	359	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	368	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	370	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	551	+	5	TTTTA	core promoter element around -30

						of transcription start
TATA-box	Glycine max	573	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	607	-	9	taTATAAAtc	core promoter element around -30 of transcription start
TATA-box	Brassica napus	608	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	609	+	8	TATATATA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	610	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	611	+	8	TATATATA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	612	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	613	+	8	TATATATA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	614	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	615	+	8	TATATATA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	616	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	617	+	11	TATAAATATAAA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	618	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	619	+	8	TATATATA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	620	+	6	ATATAT	core promoter

						element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	621	+	10	taTATAAAAtc	core promoter element around -30 of transcription start
TATA-box	<i>Brassica oleracea</i>	622	+	6	ATATAA	core promoter element around -30 of transcription start
TATA-box	Ac	623	+	7	TATAAAT	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	638	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	641	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	647	+	6	ATTATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	648	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	649	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Pisum sativum</i>	677	-	7	TATATGT	core promoter element around -30 of transcription start
TATA-box	<i>Brassica oleracea</i>	679	+	7	ATATAAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	680	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	682	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersicon esculentum</i>	772	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Glycine max</i>	837	+	5	TAATA	core promoter element around -30 of transcription start

TATA-box	Oryza sativa	842	-	8	TATAAGAA	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	845	-	7	TATATAA	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	846	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	848	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	Lycopersiconesculentum	860	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	Lycopersiconesculentum	884	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	919	+	6	ATTATA	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	920	-	5	TATAA	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	921	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	Lycopersiconesculentum	969	+	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	Glycine max	972	+	5	TAATA	core promoter element around -30 of transcription start
TATA-box	Daucuscarota	1008	-	9	ccTATAAATT	core promoter element around -30 of transcription start
TATA-box	Lycopersiconesculentum	1041	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	Brassica napus	1067	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	Arabidopsis thaliana	1068	+	4	TATA	core promoter element around -30 of transcription start

						of transcription start
TATA-box	<i>Nicotianatabacum</i>	1072	+	9	tcTATAAAta	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	1074	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersiconesculentum</i>	1120	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica oleracea</i>	1196	+	6	ATATAA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	1197	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersiconesculentum</i>	1276	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Lycopersiconesculentum</i>	1300	-	5	TTTTA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	1371	-	9	tcTATATAtt	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	1372	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	1373	+	8	TATATATA	core promoter element around -30 of transcription start
TATA-box	<i>Brassica napus</i>	1374	+	6	ATATAT	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	1375	+	4	TATA	core promoter element around -30 of transcription start
TATA-box	<i>Arabidopsis thaliana</i>	1377	+	4	TATA	core promoter element around -30 of transcription start
TC-rich repeats	<i>Nicotianatabacum</i>	186	+	9	ATTTCTCCA	cis-acting element involved in defense and stress responsiveness

TCA-element	<i>Brassica oleracea</i>	246	-	9	TCAGAAGAGG	cis-acting element involved in salicylic acid responsiveness
TCA-element	<i>Brassica oleracea</i>	1434	-	9	GAGAAGAATA	cis-acting element involved in salicylic acid responsiveness
TCCC-motif	<i>Spinaciaoleracea</i>	56	-	7	TCTCCCT	part of a light responsive element
circadian	<i>Lycopersiconesculentum</i>	705	+	6	CAANNNNATC	cis-acting regulatory element involved in circadian control
circadian	<i>Lycopersiconesculentum</i>	1064	+	9	CAAAGATATC	cis-acting regulatory element involved in circadian control