

**Supplementary Table 5.** The predicted cis-acting regulatory elements of the upstream promoter region (2.0 kb genomic sequences) of LIM gene families in *Sorghum bicolor*

Term	Function	Group	SbLIM1	SbLIM2	SbLIM3	SbLIM4	SbLIM5
AE-box	part of a module for light response	LR	Present	Absent	Present	Present	Present
G-Box	cis-acting regulatory element involved in light responsiveness		Present	Absent	Absent	Present	Absent
G-box	cis-acting regulatory element involved in light responsiveness		Present	Present	Present	Present	Absent
GATA-motif	part of a light responsive element		Present	Present	Absent	Absent	Present
GT1-motif	light responsive element		Present	Present	Absent	Present	Present
GTGGC-motif	part of a light responsive element		Absent	Absent	Absent	Absent	Present
I-box	part of a light responsive element		Present	Present	Absent	Absent	Present
L-box	part of a light responsive element		Absent	Absent	Absent	Absent	Present
MRE	MYB binding site involved in light responsiveness		Absent	Absent	Absent	Present	Present
Sp1	light responsive element		Present	Present	Present	Absent	Present
TCCC-motif	part of a light responsive element		Present	Absent	Absent	Absent	Present
TCT-motif	part of a light responsive element		Absent	Present	Absent	Present	Present
3-AF1 binding site	light responsive element		Absent	Present	Absent	Present	Absent
ACE	cis-acting element involved in light responsiveness		Absent	Absent	Absent	Present	Absent
ATCT-motif	part of a conserved DNA module involved in light responsiveness		Absent	Absent	Absent	Present	Absent
Box 4	part of a conserved DNA module involved in light responsiveness		Absent	Absent	Absent	Present	Absent
chs-CMA1a	part of a light responsive element		Present	Absent	Absent	Present	Absent
chs-CMA2a	part of a light responsive element		Absent	Absent	Absent	Present	Absent
Gap-box	part of a light responsive element		Present	Absent	Present	Absent	Absent
ATC-motif	part of a conserved DNA module involved in light responsiveness		Present	Absent	Absent	Absent	Absent
Box II	part of a light responsive element	Present	Absent	Absent	Absent	Absent	

ABRE	cis-acting element involved in the abscisic acid responsiveness	HR	Present	Present	Present	Present	Present
AuxRR-core	cis-acting regulatory element involved in auxin responsiveness		Present	Absent	Absent	Absent	Present
CGTCA-motif	cis-acting regulatory element involved in the MeJA-responsiveness		Present	Present	Present	Present	Present
GC-motif	enhancer-like element involved in anoxic specific inducibility		Present	Present	Present	Absent	Present
O2-site	cis-acting regulatory element involved in zein metabolism regulation		Present	Present	Present	Present	Present
P-box	gibberellin-responsive element		Absent	Absent	Absent	Present	Present
TATC-box	cis-acting element involved in gibberellin-responsiveness		Absent	Absent	Absent	Absent	Present
TCA-element	cis-acting element involved in salicylic acid responsiveness		Absent	Present	Absent	Present	Present
TGA-element	auxin-responsive element		Absent	Present	Present	Present	Present
TGACG-motif	cis-acting regulatory element involved in the MeJA-responsiveness		Present	Present	Present	Present	Present
GARE-motif	gibberellin-responsive element		Absent	Absent	Present	Absent	Absent
MBS	MYB binding site involved in drought-inducibility	SR	Present	Absent	Present	Present	Present
TC-rich repeats	cis-acting element involved in defense and stress responsiveness		Absent	Absent	Absent	Absent	Present
LTR	cis-acting element involved in low-temperature responsiveness		Present	Present	Present	Absent	Absent
A-box	cis-acting regulatory element	OT	Absent	Present	Present	Absent	Present
ARE	cis-acting regulatory element essential for the anaerobic induction		Present	Absent	Present	Present	Present
CAAT-box	common cis-acting element in promoter and enhancer regions		Present	Present	Present	Present	Present
CAT-box	cis-acting regulatory element related to meristem expression		Absent	Present	Present	Present	Present

CCAAT-box	MYBHv1 binding site
GCN4_motif	cis-regulatory element involved in endosperm expression
TATA-box	core promoter element around -30 of transcription start
WUN-motif	wound-responsive element
AT-rich sequence	element for maximal elicitor-mediated activation (2copies)
HD-Zip 1	element involved in differentiation of the palisade mesophyll cells
circadian	cis-acting regulatory element involved in circadian control
Box III	protein binding site
AAGAA-motif	NA
AT~TATA-box	NA
CCGTCC motif	NA
CCGTCC-box	NA
DRE core	NA
ERE	NA
H-box	NA
MYB	NA
MYB recognition site	NA
MYB-like sequence	NA
MYC	NA
Myb-binding site	NA
STRE	NA
TATA	NA
TCA	NA
Unnamed_1	NA
Unnamed_2	NA

	Present	Present	Present	Absent	Present
	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Present	Present	Absent	Absent	Present
	Absent	Absent	Absent	Present	Absent
	Absent	Absent	Absent	Present	Absent
	Present	Absent	Absent	Present	Absent
	Absent	Present	Absent	Absent	Absent
Un	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Absent	Present	Present	Absent	Present
	Absent	Absent	Present	Absent	Present
	Present	Present	Present	Present	Present
	Absent	Present	Present	Absent	Present
	Absent	Absent	Absent	Absent	Present
	Present	Present	Present	Present	Present
	Present	Absent	Present	Absent	Present
	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Present	Present	Present	Present	Present
	Absent	Present	Absent	Absent	Present

Unnamed_4	NA
W box	NA
WRE3	NA
as-1	NA
box S	NA
CARE	NA
CTAG-motif	NA
Unnamed_6	NA
ABRE3a	NA
ABRE4	NA
DRE1	NA
W box	NA
CCGTCC-box	NA
E2Fb	NA
MYB recognition site	NA
Unnamed_16	NA
plant_AP-2-like	NA
JERE	NA

Present	Present	Present	Present	Present
Present	Present	Absent	Present	Present
Present	Present	Present	Present	Present
Present	Present	Present	Present	Present
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