

Supplementary material:

Table 1: Selected Monocotyledonous and Dicotyledonous plant with Accession Number

S. No.	Plants Name	Accession No.
1.	Triticum aestivum	AAG02280.1
2.	Triticum aestivum	AEX59143.1
3.	Triticum urartu	EMS63197.1
4.	Brachypodium distachyon	XP_003575400
5.	Zea mays	AFW72411.1
6.	Aegilops tauschii	EMT29849.1
7.	Hordeum vulgare	BAJ93084.1
8.	Phyllostachys edulis	ABP96954.2
9.	Sorghum bicolor	XP_002452479.1
10.	Pleioblastus maculosoides	ACM45590.1
11.	Phyllostachy parvifolia	ACM41749.1
12.	Bambusa oldhamii	AAR24505.1
13.	Oryza sativa	CAA61198.1
14.	Lilium	BAM28964.1
15.	Musa acuminata	ACG56648.1
16.	Arabidopsis thaliana	AAC18870.1
17.	Lactuca sativa	AAO13347.1
18.	Daucus carota	BAG31930.1
19.	Vitis vinifera	XP_003633985.1
20.	Ipomoea	AAG49585.1
21.	Hibiscus cannabinus	AFN85669.1
22.	Solenostemon scutellarioides	AFZ94859.1
23.	Eucalyptus robusta	BAL49995.1
24.	Solanum tuberosum	AGT63063.1

Table 2: Conserved novel motifs regions analysis of PAL proteins.

N	Start	End	Sequence
1	220	244	-----DLVPLSYIAGL
2	275	299	GFFELQPK EGLAMVNGTAVG SGLAS
3	325	354	GKPEFTDHLTHKLKHHPGQIEAAIMEHIL
4	370	397	DPLMKPKQDRYALRTSPQWLG PQIEVIR
5	399	420	ATKSIEREINSVNDNPLIDVSR
6	422	530	KAIHGGNFQGTPIGVSM DNTRLAIAAIGKLMFAQFSELVND FYNNGLPSNLSGGRNP SLDYG FKGAEIAMASYCSELQFLGNPVTNHVQSAEQHNQDVNSLGLISSRKT
7	535	556	DILKIMSSTFLVALCQAIDLRH