

Supplementary data

***In silico* comparative analysis of LEA (Late Embryogenesis Abundant) proteins in *Brachypodium distachyon* L.**

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Supplementary Table 1. Amino acid compositions of LEA proteins in *B. distachyon*

Number of proteins	Accession number	Amino acid composition (the most abundant three amino acids respectively)	Absent amino acid
1	XP_003558017	Ala (69, 19.44%), Glu(38, 10.70%),Lys (37, 10.42%)	Trp
2	XP_003580847	Ala (29, 14.08%), Leu (21, 10.19%), Gly and Ser (15, 7.28%)	-
3	XP_003580846	Leu and Val (25, 11.1%), Ala and Gly (22, 9.69%), Thr (16, 7.05%)	-
4	XP_003578883	Leu (26, 12.09%), Gly (20, 9.30%), Ala (19, 8.84%)	-
5	XP_003577129	Leu (30, 13.04%), Ala (26, 11.30%), Arg (19,8. 26%)	Trp
6	XP_003573253	Ala (28, 13.08%), Leu (23, 10.75%), Val (19, 8.88%)	-
7	XP_003571637	Ala, Val and Gly (23, 9.35%), Ser (22, 8.94%), Leu and Pro (18, 7.32%)	-
8	XP_003570065	Ala (41, 11.85%), Gly (40, 11.56%), Val (36, 10.40%)	-
9	XP_003568059	Ala (39, 15.35%), Val (35, 13.78%), Arg (27, 10.63%)	Trp
10	XP_003567827	Asp (17, 10.06), Gly and Lys (16, 9.47%), Leu (12, 7.1%)	-
11	XP_003566475	Ala (33, 35.11%), Arg (9, 9.57%), Gly and Ser (8, 8.51%)	Cys, Phe, Ile
12	XP_003566331	Ala (15, 16.67%), Val and Thr (9, 10%), Lys (8, 8.87%)	His, Asn
13	XP_003565815	Leu (19, 12.5%), Val (16, 10.53%),Gly and Ser (14, 9.21%),	-
14	XP_003564453	Ala (45, 15.05%), Ser (28, 9.36%), Pro (27, 9.03)	-
15	XP_003562991	Leu (19, 9.45%), Pro (17, 8.46%), Val (16, 7.96%)	-
16	XP_003561563	Val (12, 13.64%), Ala (11, 12.5%), Arg (10, 11.36%)	-
17	XP_003561309	Ala (40, 14.34%), Pro (34, 12.19%), Arg (26, 9.32%)	-
18	XP_003560997	Leu (29, 12.89%), Ala (26, 11.56%), Val (24, 10.67%)	-
19	XP_003560139	Val (32, 17.11%), Thr (23, 12.30%), Leu (15, 8.02%)	Trp
20	XP_003558301	Val (29, 12.29%), Ala (26, 11.02%), Leu (23, 9.75%)	Trp
21	XP_003579716	Val (28, 12.67%), Ala and Gly (23, 10.41%), Leu (20, 9.05%)	-

22	XP_003578310	Gly (12, 11.43%), Ala and Thr (10, 9.52%), Pro and Asp (9, 8.57%)	Cys, Phe, Trp
23	XP_003576336	Ala (36, 16.59%), Leu (29, 13.36%), Val (24, 11.065)	Trp
24	XP_003575086	Val (28, 12.84%), Leu (24, 11.01%), Ala and Gly (20, 9.17%)	-
25	XP_003573252	Leu (28, 12.33%), Ala (26, 11.45%), Gly (24, 10.57%)	-
26	XP_003572634	Ala (19, 22.09%), Arg (11, 12.79%), Leu and Ser (6, 6.98%)	Cys
27	XP_003571928	Ala (36, 13.58%), Pro (27, 10.19%), Arg (24, 9.06%)	-
28	XP_003570072	Ala (27, 13.64%), Val (24, 12.12%), Leu (17, 8.19%)	-
29	XP_003569392	Gly (20, 11.3%), Ile (16, 9.04%), Val (14, 7.91%)	-
30	XP_003568642	Gly (31, 20.26%), Glu (28, 18.30%), Arg (18, 11.76%)	Cys, Asn, Trp
31	XP_003567608	Ala (21, 23.60%), Val (8, 8.89%), Glu and Lys (7, 7.87%)	His, Ile, Phe, Asn,
32	XP_003567090	Val (32, 12.26%), Ala and Thr (23, 8.81%), Leu (18, 6.90%)	-
33	XP_003564678	Ala and Pro (27, 11.34%), Arg (25, 10.50%), Leu (19, 7.98%)	His
34	XP_003562546	Asp (42, 12.88%), Lys (32, 9.82%), Gly (31, 9.51%)	Cys
35	XP_003561266	Ile (40, 11.98%), Asp (28, 8.38%), Lys (27, 8.08%)	Cys
36	XP_003559726	Leu (35, 16.83%), Val (18, 8.65%), Ser and Asp (15, 7.21%)	-

Dash (-) shows that this protein contains all types of amino acid residues.