

Table S8. Fifteen different motifs commonly observed in *PhMBD* genes.

Motif	Best possible match
1	IKKBEVYYVAPTGKRFRSKKEVZKYLKEH
2	VGAFTVQCANCFKWRLIPTKEKYEEIRGHILEEPFYCETAREW
3	CDDPPDITQDGSRLWAIDKPNIPQPPSGWERJLRI
4	ISEFDWSTGETPRRSARISEKVKAKPPPAVLESPKKRRRTSSASKK
5	EEPLPPGWKKEJRPRKKG
6	DIWADPCFEFAFKTLTGEIPIEDDFCFQGIVQQEC
7	FYSDPGKGLKFRSKRDVLRYL
8	YVRQGVQLNQFSFQIPRPLQEDYVKKR
9	LMMENGKINQPEPAHSPQQQ
10	MEGDQPGLVTPGKMDQNNNHG
11	NHGEDAQKQLVLYDPAVVG
12	CWVHEDSFADIWTDPCIEFA
13	RGLPYDVDIDPGFGSKFW
14	RNPSTPKIPMPPRFRRRWSGEEH
15	AFKGETGDFEENFGEVRH