

Additional file 4: Table S3. Conserved sequence motifs identified in the amino acid sequences of in wheat, *T.urartu*, *A.tauschii*, barley and rice as analyzed by MEME tools. The motif numbers correspond to the colored boxes in Figure 1.

Motif	Width	Multilevel consensus sequence
1	50	LTRVIVTRAEVDMKYIKQEYQKRFKVPLEDDVHGDTSGNYQDFLLSLVGS
2	41	MATISVPPPVPSPREDCINLHKAFQGWGCNETTIINILGHR
3	34	EFIRIFTTRSWPQLRATFNCYNMHGHPITKDLK
4	50	GWHPDNWVLVEIICSRTPSQLFIMRQAYHARFGCSLEEDVAYCVTGDHQB
5	41	NPSGNFEFMLRTIVWCFTCPDKYFCKVIRKSMKGLGTDENT
6	29	EISGNFCNAMILWMMDPWERDATMANEAL
7	21	LLVPLVSSYRYEGPEVNPDLA
8	21	DAAQRQQIRQHYATMYGEDLL
9	50	ELTKAFSGMGGLGVDEPTMVSALANWRKQPEKRSRGSFPGFFKPHGVI
10	15	EAKQLYEAINKKKGP