

Table S4 Motifs enriched specifically in 15 known meiosis-related promoters.

MATRIX_ID	<i>p</i>-value	Name/Class/Family of the TF	Description of the CRE
MA0034.1	2.28025e-02	Gamyb; Helix-turn- helix; Myb	Binding site of GAMYB which is expressed in cereal aleurone cells in response to gibberellin [80].
MA0044.1	2.41054e-02	HMG-1; Other alpha- helix; High mobility group	Binding site of the chromatin-associated protein HMG-1 [3, 48].
MA0008.1	9.1623e-02	HAT5; Helix-turn- helix; Homeodomain	Binding site of HAT5, a transcription activator involved in leaf development [81].