



Figure S1 TILLING of *HvPUMILIO* in barley cultivar 'Barke' revealed an M4 family (11266) with a knock-out mutation. (A) Nucleic acid substitution G2932A occurred at the 3rd position of the tryptophane codon introducing thus a premature stop codon in the second exon. (B) Plants homozygous for the mutation did not head earlier than 'Barke' or wild type plants from the 11266 family. The cereal *PUMILIO* gene was therefore discarded as candidate for the *Eps-3A^m/eam10* locus