

**Supplementary Table S10** The primer information of all markers used in identification of genes *Fhb1*, *Fhb2* and *Fhb5*

Gene	Locus	Chromosome	Primer sequence (5'-3')	Fragment size (bp)	Tm (°C)	Reference
<i>Fhb1</i>	<i>TaHRC</i>	3B	F: ATTCCTACTAGCCGCCTGGT R: ACTGGGGCAAGCAAACATTG	1400	64	Su et al. (2018)
<i>Fhb2</i>	<i>Wmc397</i>	6B	F: AGTCGTGCACCTCCATTTTG R: CATTGGACATCGGAGACCTG	155	61	Cuthbert et al. (2007)
	<i>Wmc398</i>	6B	F: GGAGATTGACCGAGTGGAT R: CGTGAGAGCGGTTCTTTG	160	61	Cuthbert et al. (2007)
<i>Fhb5</i>	<i>Gwm304</i>	5A	F: AGGAAACAGAAATATCGCGG R: AGGACTGTGGGGAATGAATG	220	61	Xue et al. (2011)
	<i>Xhbg394</i>	5A	F: CCACAACGAAGAACTGCTTACA R: AGCTAGATGCTTCCTAGAGTGGAG	270	60	Xue et al. (2011)
	<i>Wmc705</i>	5A	F: GGTGGGCTCCTGTCTGTGAA R: TCTTGCACCTTCCCATGCTCT	160	67	Somers et al. (2005)