

S1 Table. Primer list and PCR conditions for the PCR analyses of wheat major genes

Gene	Primer	Sequence (5'-3')	Annealing temp (°C)	Elongation time (sec)	Cycle number
<i>VRN-A1</i>	Ex1/C/F	GTTCTCCACCGAGTCATGGT	55.6	40	30
	Intr1/A/R3	AAGTAAGACAACACGAATGTGAGA			
<i>vrn-A1</i>	Intr1/C/F	GCACTCCTAACCCACTAACC	56	70	30
	Intr1/AB/R	TCATCCATCATCAAGGCAAA			
<i>VRN-B1</i>	Intr1/B/F	CAAGTGGAAACGGTTAGGACA	58	50	30
	Intr1/B/R3	CTCATGCCAAAAATTGAAGATGA			
<i>vrn-B1</i>	Intr1/B/F	CAAGTGGAAACGGTTAGGACA	56.4	80	30
	Intr1/B/R4	CAAATGAAAAGGAATGAGAGCA			
<i>VRN-D1</i>	Intr1/D/F	GTTGTCTGCCTCATCAAATCC	61	110	30
	Intr1/D/R3	GGTCACTGGTGGTCTGTGC			
<i>vrn-D1</i>	Intr1/D/F	GTTGTCTGCCTCATCAAATCC	61	70	30
	Intr1/D/R4	AAATGAAAAGGAACGAGAGCG			
<i>VRN-A1a</i>	VRN-A1 hexa L	CGGGCAAACGGAATCTACCA	68	60	30
	VRN-A1 hexa R	TGGGGCATCGTGTGGCT			
<i>Ppd-A1a</i>	TaPpd-A1prodelF1	CGTACTCCCTCCGTTTCTTT	55	30	35
	TaPpd-A1prodelR2	GTTGGGGTCGTTTGGTGGTG			
<i>Ppd-A1b</i>	TaPpd-A1prodelF1	CGTACTCCCTCCGTTTCTTT	55	30	35
	TaPpd-A1prodelR3	AATTTACGGGGACCAAATACC			
<i>Ppd-B1</i>	TaPpd-B1proF1	ACACTAGGGCTGGTCGAAGA	64	60	35
	TaPpd-B1int1R1	CCGAGCCAGTGCAAATTAAC			
<i>Ppd-D1a</i>	TaPpd-D1_F1	ACGCCTCCCACTACTG	55	30	35
	TaPpd-D1_R2	CACTGGTGGTAGCTGAGATT			
<i>Ppd-D1b</i>	TaPpd-D1_F1	ACGCCTCCCACTACTG	55	30	35
	TaPpd-D1_R1	TGTTGGTTCAAACAGAGAGC			
<i>Pina-D1</i>	Pina_F1	GGTCAGATTCAGTACACGGAACATCACATA	58	30	30
	Pina_aR1	CTTTGCTTGCCCGATCACGCTG			
	Pina_bR1	TTCAAGGTCAATGGGCGCCACTATAA			
<i>Pinb-D1</i>	Pinb_F2	CAACCCATCTATTCATCTCCACCACC	58	30	30
	Pinb_R2	TCACCAGTAATAGCCACTAGGGAAC			
	Pinb_bR1	GGATGCTCACAGCCGCT			
<i>Glu-D1</i>	GDx_F	TTTGGGGAATACCTGCACTACTAAAAAGGT	63	30	30
	GDx5_F	AAAAGGTATTACCCAAGTGTAACCTGTCCG			
	GDx_R	AATTGTCCTGGCTGCAGCTGCGA			
<i>Glu-B3</i>	B3g-17	CACAACAGCAACCATGTTAC	60	50	30
	B3g-02	GGAATACCTTGCATGGGTTC			