

Table S6 Primer information

PrimerID	Orien-tation	Experiment	Sequence	Tm (°C)	PCR product_b p	Restriction enzyme for CAPS marker developme nt
HvCOM2	Forwar d	qRT-PCR	CGCACATTGGGTCGTACCA	57.9	107	-
HvCOM2	Revers e	qRT-PCR	GTGATCGGCGCATTGG	57.2	-	-
HvCKX2	Forwar d	qRT-PCR	GTTCTGGAGCGGAAGAGGAA G	60	107	-
HvCKX2	Revers e	qRT-PCR	CGGGGCCAATCGATTAACCTTCGT G	60	-	-
HvBAS1	Forwar d	qRT-PCR	AGACGCCAGATCATCACCTGTG	59.1	101	-
HvBAS1	Revers e	qRT-PCR	ACATGGTCATTTCCGGCTGTCAT	62.9	-	-
HvIDS1	Forwar d	qRT-PCR	CTAGCTCTCTGCTTACTCCCATG GAC	60	134	-
HvIDS1	Revers e	qRT-PCR	CATGGCTCGGCAATGTTATCTCT CTC	59.2	-	-
HvASK2	Forwar d	qRT-PCR	GGTTGACTCTGCGACGCGA	60.3	76	-
HvASK2	Revers e	qRT-PCR	CGTTAACGGCTGCTCCCAGG	60.9	-	-
HvCYP78A9	Forwar d	qRT-PCR	CCCATTGCGCCTAAACGCGA	60.4	96	-
HvCYP78A9	Revers e	qRT-PCR	AGAAACGTACAGCAGCCAGCC	60.1	-	-
HvCRC	Forwar d	qRT-PCR	ATGGATGTGCTCCTGGGTGTG	59.7	82	-
HvCRC	Revers e	qRT-PCR	TGATGTCCCAGGTGGATGATCG	59.1	-	-
HvLUX1	Forwar d	qRT-PCR	CAGAGTTGCAGAGAGTGTGTGC	58.6	107	-
HvLUX1	Revers e	qRT-PCR	TCTTGCCACTGCCAAAATGG	58.1	-	-
HvRECTA	Forwar d	qRT-PCR	TGAAGTCGAATGGGCTGACCG	59.6	66	-
HvRECTA	Revers e	qRT-PCR	GCGTCTTAATCGACGAGCAGTCC	59.7	-	-
HvTASSELSEE D2	Forwar d	qRT-PCR	ACTGCGCCTAGTTGTTTCGAG	57.4	97	-
HvTASSELSEE D2	Revers e	qRT-PCR	TCCTGCACACTCAAACCACA	57.1	-	-
com2_p11	Forwar d	ForRecombinantScreen_dis tal proximal(ortholog of Os07g0673700)	CCCTTCCTCGTTAGGTACGTGTG	66	1147	HpaII
com2_p12	Revers e	ForRecombinantScreen_dis tal proximal(ortholog of Os07g0673700)	CTGGTGATTTCCCAAACCTGAAG	63	-	-
com2_p19	Forwar d	ForRecombinantScreen_fla nk proximal(ortholog of	GTCAACACACCAACGGGTCTTC	64	968	EcoRV

		Os07g0668900)				
com2_p20	Reverse	ForRecombinantScreen_flank proximal(ortholog of Os07g0668900)	AGGCCTATGGCATCATGGAAAT	60	-	-
M1 (com2g_p31)	Forward	Flank marker M1 (morex_contig_1566969 CAJW011566969 carma=2HS)	CGCTACTTGGCACATTCTCA	60	1041	Hinfl
M1 (com2g_p32)	Reverse	Flank marker M1 (morex_contig_1566969 CAJW011566969 carma=2HS)	CAGTTAGCTTTCGGGCTTTG	60	-	-
M2 (2HS_3D)	Forward	Flank marker M2 (ortholog of Os07g0669200)	GATCCACCTCCAGTAACGA	60	1061	BsmI
M2 (2HS_3D)	Reverse	Flank marker M2 (ortholog of Os07g0669200)	GATGCACTGCCTCAACTCAA	60	-	-
Insitu	Forward	mRNA in-situ hybridization (cDNA isolated from cv. Bonus)	CAACGGCTACTCACCTTCA	60.5	444	-
Insitu	Reverse	mRNA in-situ hybridization (cDNA isolated from cv. Bonus)	GTGCGTACTACATTCTCGAG	60.5	-	-
TtBH-A1	Forward	tetraploid wheat TILLING screen	GCTAGGCGGGAGCAGTAGTA	60.82	1011	
TtBH-A1	Reverse	tetraploid wheat TILLING screen	GTGGGCACAGCAGACCAC	60.98	-	
TtBH-B1	Forward	tetraploid wheat TILLING screen	TCCCCTCCCCTACCCAAG	59.21	1218	
TtBH-B1	Reverse	tetraploid wheat TILLING screen	TGAGTACGTAAGAGGCTAAGATCG	59.49	-	
TILL_FZP_7_rev	Forward	Barley TILLING screen	CAGTGGGAGAGGAAGCTGAA	60.5	1044	
TILL_FZP_7_for	Reverse	Barley TILLING screen	GAAGCTCACAGCAACCACCT	60.5	-	