Supplementary Material

Utilization of SSR Markers to Identify Slow Rusting Genes in Spring Wheat (*Triticum aestivum* L.)

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Supplementary Table 1: *Experimental material of wheat (Triticum aestivum L.) with parentage.*

S#	Entry Name	Parentage
1	Double haploid-1	CPI/GEDIZ/3//GOO//JO69/CRA/4/AE//TAUSCHII(208)/5/OPATA
2	Double haploid-2	CPI/GEDIZ/3//GOO//JO69/CRA/4/AE//TAUSCHII(208)/5/OPATA
3	Double haploid-3	CPI/GEDIZ/3//GOO//JO69/CRA/4/AE//TAUSCHII(208)/5/OPATA
4	Double haploid-4	CPI/GEDIZ/3//GOO//JO69/CRA/4/AE//TAUSCHII(208)/5/OPATA
5	Double haploid-5	CPI/GEDIZ/3//GOO//JO69/CRA/4/AE//TAUSCHII(208)/5/OPATA
6	Double haploid-7	YAV_3/SCO//JO69/CRA/3/YAV79/4/AE// TAUSCHII(498)/5/OPATA
7	Double haploid-8	YAV_3/SCO//JO69/CRA/3/YAV79/4/AE// TAUSCHII(498)/5/OPATA
8	Double haploid-9	YAV_3/SCO//JO69/CRA/3/YAV79/4/AE//TAUSCHII(498)/5/OPATA
9	Double haploid-10	YAV_3/SCO//JO69/CRA/3/YAV79/4/AE// TAUSCHII(498)/5/OPATA
10	Double haploid-11	YAV_3/SCO//JO69/CRA/3/YAV79/4/AE//TAUSCHII(498)/5/OPATA
11	Double haploid-12	D67.2/P66-270//AE//TAUSCHII (257)/3/OPATA
12	Double haploid-13	D67.2/P66-270//AE//TAUSCHII (257)/3/OPATA
13	Double haploid-14	D67.2/P66-270//AE// TAUSCHII (257)/3/OPATA
14	Double haploid-15	D67.2/P66-270//AE//TAUSCHII (257)/3/OPATA
15	Double haploid-17	GAN/AE//TAUSCHII(897)//OPATA
16	Double haploid-18	GAN/AE//TAUSCHII(897)//OPATA
17	Double haploid-19	GAN/AE//TAUSCHII(897)//OPATA
18	Double haploid-20	GAN/AE//TAUSCHII(897)//OPATA
19	Double haploid-21	GAN/AE.TAUSCHII(897)//OPATA
20	Double haploid-22	DOY1/AE.Tauschii(458)//OPATA

21	Double haploid-24	DOY1/AE.Tauschii(458)//OPATA
22	Double haploid-25	DOY1/AE.Tauschii(458)//OPATA
23	Double haploid-26	DOY1/AE.Tauschii(458)//OPATA
24	Double haploid-27	D67.2/P66.270//AE.TAUSCHII(217)
25	Double haploid-29	D67.2/P66.270//AE.TAUSCHII(257)
26	Double haploid-32	ALTAR84/AE.TAUSCHII//OPATA
27	Double haploid-33	CROC_1/AE.TAUSCHII(224)//OPATA
28	Double haploid-34	CROC_1/AE.TAUSCHII(224)//OPATA
29	Double haploid-35	CHEN/AE.TAUSCHII//2*OPATA
30	Double haploid-36	ALTAR84/AE. TAUSCHII//2*OPATA
31	Double haploid-38	DHARWAR DRY/NESSER
32	Double haploid-40	SUJATA/SERI
33	Double haploid-41	PASTOR/3/MUNIA//CHEN/ALTAR84/5/CNDO/R143//ENTE/MEXI_2/3AEGILOPS SQUARROSA(TAUS)/4/WEAVER
34	Double haploid-42	FILIN/IRENA/5/CNDO/R143//ENTE/MEXI_2/3/AEGILOPS SQUARROSA(TAUS)/4/WEAVER
35	Inqilab-91	Crow'S/WL-711
36	Double haploid-44	PASTOR_BAV92
37	Double haploid-45	IRENA_BABAX//PASTOR
38	Double haploid-46	IRENA_BABAX//PASTOR
39	Double haploid-48	BJY/COC//PRL/BOW/3/ATTILA
40	Double haploid-49	PARUS/PASTOR
41	Double haploid-51	FILIN/3/CROC_1/AE.SQUARROSA(205)//KAUZ/4/FILIN
42	Double haploid-52	GEN2//BUC/FLK/3/2*PASTOR
43	Double haploid-53	VEEMJI//2*TUI/3/2* PASTOR
44	Double haploid-54	MILAN/KAUZ//BABAX/3/BABAX
45	Double haploid-55	PASTOR/3/ALTAR84/AEGILOPS SQUARROSA(TAUS)//OPATA
46	Double haploid-56	URES/JUN//KAUZ/3/BABAX
47	Sitta	-
48	Nesser	-
49	Weebill-1	-
50	Opata-85	Check (Sr-2/Lr-27)
51	Pavon-76	Check (Yr-29/Lr-46)
52	Tukuru	Check (Yr-18/Lr34)

Supplementary Table 2: *Amplification with primers (GWM) (STM 559) (GWM 295) + indicates (present) – indicate (missing).*

S. No.	Entry Name	GWM 259 (Lr-46+Yr-29)	STM 559 (Sr-2+Lr-27)	GWM 295 (Lr-34+Yr-18)
1	Double haploid -33	+	+	+
2	Double haploid -34	+	+	+
3	Double haploid -44	+	+	+
4	Double haploid -45	+	+	+
5	Double haploid -46	+	+	+
6	Double haploid -48	+	+	+
7	Double haploid -53	+	+	+
8	Double haploid -54	+	+	+
9	Weebil-1	+	+	+

10	Double haploid-1	+	+	-
11	Double haploid-2	+	+	-
12	Double haploid -3	+	+	-
13	Double haploid -4	+	+	-
14	Double haploid -5	+	+	-
15	Double haploid -7	+	+	-
16	Double haploid -8	+	+	-
17	Double haploid -9	+	+	-
18	Double haploid -10	+	+	-
19	Double haploid -11	+	+	-
20	Double haploid -12	+	+	-
21	Double haploid -13	+	+	-
22	Double haploid -14	+	+	-
23	Double haploid -15	+	+	-
24	Double haploid -17	+	+	-
25	Double haploid -18	+	+	-
26	Double haploid -19	+	+	-
27	Double haploid -20	+	+	-
28	Double haploid -21	+	+	-
29	Double haploid -22	+	+	-
30	Double haploid -24	+	+	-
31	Double haploid -25	+	+	-
32	Double haploid -26	+	+	-
33	Double haploid -27	+	+	-
34	Double haploid -29	+	+	-
35	Double haploid -32	+	+	-
36	Double haploid -35	+	+	-
37	Double haploid -36	+	+	-
38	Double haploid -38	+	+	-
39	Double haploid -40	+	+	-
40	Double haploid -41	+	+	-
41	Double haploid -42	+	+	-
42	Double haploid -49	+	+	-
43	Double haploid -51	+	+	-
44	Double haploid -52	+	+	-
45	Double haploid -55	+	+	-
46	Double haploid -56	+	+	-
47	Sitta	+	+	-
48	Pavon-76 (C2)	+	+	-
49	Inqilab-91	+	+	-
50	Opata-85	+	+	-
51	Nesser	+	-	-
52	Tukuru	+	-	-