

Table S4 Tetraploid ‘Miracle Wheat’ used for allelism test and the corresponding F₁ phenotype.

Cross		Resulted Progeny	plant number	spikes per plant	branched spikes
Tri 3261	*	Tri 9652	plant 1	XIX-2012-1	3
Tri 3261	*	Tri 9652	plant 2	XIX-2012-2	3
Tri 3261	*	Tri 9652	plant 3	XIX-2012-3	2
Tri 3261	*	Tri 9652	plant 4	XIX-2012-4	4
Tri 3261	*	Tri 9652	plant 5	XIX-2012-5	2
Tri 3261	*	Tri 9652	plant 6	XIX-2012-6	2
Tri 3261	*	Tri 9652	plant 7	XIX-2012-7	4
Tri 3261	*	Tri 9652	plant 8	XIX-2012-8	3
Tri 3261	*	Tri 9652	plant 9	XIX-2012-9	3
Tri 3261	*	Tri 9652	plant 10	XIX-2012-10	3
Tri 9652	*	Tri 3261	plant 1	XIX-2012-11	4
Tri 9652	*	Tri 3261	plant 2	XIX-2012-12	2
Tri 9652	*	Tri 3261	plant 3	XIX-2012-13	3
Tri 9652	*	Tri 3261	plant 4	XIX-2012-14	3
Tri 9652	*	Tri 3261	plant 5	XIX-2012-15	3
Tri 9652	*	Tri 3261	plant 6	XIX-2012-16	3
Tri 9652	*	Tri 3261	plant 7	XIX-2012-17	4
Tri 9652	*	Tri 3261	plant 8	XIX-2012-18	2
Tri 9652	*	Tri 5283	plant 1	XIX-2012-22	2
Tri 9652	*	Tri 5283	plant 2	XIX-2012-23	2
Tri 9652	*	Tri 5283	plant 3	XIX-2012-24	3
Tri 9652	*	Tri 5283	plant 4	XIX-2012-25	4
Tri 9652	*	Tri 5283	plant 5	XIX-2012-26	4
Tri 9652	*	Tri 5283	plant 6	XIX-2012-27	3
Tri 9652	*	Tri 5283	plant 7	XIX-2012-28	3
Tri 9652	*	Tri 5283	plant 8	XIX-2012-29	3
Tri 9652	*	Tri 5283	plant 2	XIX-2012-31	3
Tri 9652	*	Tri 5283	plant 3	XIX-2012-32	3
Tri 9652	*	Tri 5283	plant 4	XIX-2012-33	3
Tri 3261	*	Tri 5283	plant 1	XIX-2012-34	3
Tri 3261	*	Tri 5283	plant 2	XIX-2012-35	3
Tri 3261	*	Tri 5283	plant 3	XIX-2012-36	5
Tri 3261	*	Tri 5283	plant 4	XIX-2012-37	3
Tri 3261	*	Tri 5283	plant 5	XIX-2012-38	3
Tri 984	*	Tri 5283	plant 1	XIX-2012-39	4