Table S1. Map of wheat obtained by simultaneous mapping of all markers, with correction of translocations by simulated annealing of ends.

Marker	Recombination Fraction	Deletion Frequency	Name

92	9.402	55.307	Glu-B1

988	29.556	64.566	Xbcd707-7D

886	30.265	55.000	Xbcd1510-6D

1445	--	46.941	Xfbb274-3B
374	33.682	48.688	Xcdo482-3A

801	12.214	54.964	Xfba152-6B

1906	6.218	55.964

609	12.906	43.527	Xfbb178-4D

222	8.523	49.009	Xmwg2025-2B
221	14.124	48.425	Xbcd307-2B
220	9.500	48.000	

1965	4.145	55.964	Xfbb179-7B

561	19.000	59.522	Xbcd588-4A

1378	--	65.143	Xbcd451-3A

1161	0.000	58.000	Xbcd855-2A

1278	0.000	64.255	Xfba341-2D.2

1419	2.478	49.472	Xgwm284-3B
1418	5.067	49.138	Xgwm566-3B

1981	32.062	52.250	Xcnl2-7B
1975	11.633	53.647	XksuD2-7B
1974	25.024	51.818	Xfbb67-7B

1338	6.909	67.179	Xfba127-3A

437	3.738	65.410	XgbxG065-3B
435	5.262	64.225	XgbxG037-3B

1485	0.000	63.706	Xgwm456-3D

1555	17.538	58.036	Xfbb154-4A
1556	14.388	63.925	Xcdo665-4A

265	15.405	53.000	Xbcd260-2D

948	14.509	67.000	Xbcd1338-7B
940	7.435	55.964	Xfbb150-7B

1990	35.765	47.673	Xfba377-7D