Sample|Number of homozygous SNPs|Chromosome|Correlation with normal distribution (r2)|Standard deviation (Mb)|Kurtosis|Skewness --|--|--|--|--|--|--| OCF2|151|2|0.949|6.01|1.85|-0.392 BCF2|15|3|0.959|3.20|2.02|0.201 bak1-5 mob1|25|5|0.944|7.20|2.69|-0.240 bak1-5 mob2|41|5|0.894|3.71|2.37|0.445 sup#1|4633|4|0.976|3.66|3.50|0.370

Table 1. Measurement of the correlation between the homozygous SNP density in several outcross and back-cross experiments and a theoretical normal distribution. Analysis of variance and distribution shape.

Sample	SNPs	Chr	r2	SD (Mb)	Kurtosis	Skewness
OCF2	151	2	0.949	6.01	1.85	-0.392
BCF2	15	3	0.959	3.20	2.02	0.201
bak1-5 mob1	25	5	0.944	7.20	2.69	-0.240
bak1-5 mob2	41	5	0.894	3.71	2.37	0.445
sup#1	4633	4	0.976	3.66	3.50	0.370

				Тех
Sample	Cross	Chr	Mutated gene	Candidate
OCF2	Out-cross	2	SOC1(1880753818811047)	28 55086, 112447, 11857798, 11905532, 119055 11958727, 17312141, 17360989, 17363726, 1 17421593, 17435968, 18774111, 18779106, 1 19308373 19309911, 19352435
BCF2	Back-cross	3	HASTY (14012711408197)	4
bak1-5 mob1	Back-cross	5	CPK28 (2645628526459631)	9
bak1-5 mob2	Back-cross	5	CPK28 (2645628526459631)	10
sup#1	Out-cross	4	SGT1b (68512776853860)	151

Table 2. Hypothetical candidate mutations obtained by SDM in out-cross and back-cross experiments and real mutation positions. (For simplicity, the 151 candidate positions predicted for sup#1 were not itemised here).

Sample | Type of cross| Chromosome | Mutated gene and position | Number of candidate mutations | Hypothetical candidate mutations from SDM --|--|--|--|: