**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.

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

**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	Cross	Chr	Mutated gene	Candidates	Positions
					9773, 22178, 23681, 33496
					55086, 112447, 11857798
					11905532, 11905533, 11910437,
OCF2	Out-cross	2	SOC1	28	11958727, 17312141, 17360989,
			(~18.8 Mb)		17363726, 17418367, 17421593
					17435968, 18774111, 18779106,
					<b>18808927, 18816626</b> ,18908972,
					18946473, 19181359, 19237195
					19308373 19309911, 19352435
BCF2	Back-cross	3	HASTY	4	<b>1405085</b> , 4919240, 6035523
			(~14.05 Mb)		10163762
bak1-5	Back-cross	5	CPK28	9	11186761, 11202828, 11211636,
mob1			(~26.45 Mb)		11218614, 18036595, 18155812
					26457834, 26458077, 26474069
					18143387, 18218877, 18251689,
bak1-5	Back-cross	5	CPK28	10	18261108, 22049050, 22066915,
mob2			(~26.45 Mb)		26560691, 26626055, 26710709,
					26716839
sup#1	Out-cross	4	SGT1b (~6.85 Mb)	151	79104308076837