

**Supplementary table 3** Genotypic frequencies of the ‘Ellendale’ x ‘Fortune’ (EllFor) and ‘Fortune x Ellendale’ (ForEll) hybrids in the vicinity of the SI locus

A: genotypic frequencies of ‘EllFor’ progenies for markers homozygous in ‘Ellendale’ and heterozygous in ‘Fortune’

Marker	Chr.	Position	Ref	Alt	Ellendale	Fortune	FH1	FH2	EllFor hybrids genotypic frequencies		
									0	0.5	1
S07_869201	7	869201	A	G	0	0.5	0	1	1.1%	98.9%	0.0%
S07_1296255	7	1296255	C	T	0	0.5	0	1	0.0%	100.0%	0.0%
S07_1310473	7	1310473	G	A	0	0.5	0	1	0.0%	100.0%	0.0%
S07_1363046	7	1363046	G	A	0	0.5	0	1	1.1%	98.9%	0.0%
S07_1369079	7	1369079	A	T	0	0.5	0	1	1.1%	98.9%	0.0%

0 : homozygosity for reference allele (Ref); 0.5 : heterozygosity ; 1 : homozygosity for alternative allele (Alt)

B: genotypic frequencies of ‘ForEll’ progenies for markers homozygous in ‘Fortune’ and heterozygous in ‘Ellendale’.

Marker	Chr.	Position	Ref	Alt	Fortune	Ellendale	ElH1	ElH2	ForEll hybrids genotypic frequencies		
									0	0.5	1
S07_601330	7	601330	C	T	0	0.5	1	0	100.0%	0.0%	0.0%
S07_630796	7	630796	A	C	0	0.5	1	0	100.0%	0.0%	0.0%
S07_635350	7	635350	G	A	0	0.5	1	0	100.0%	0.0%	0.0%
S07_635351	7	635351	C	T	0	0.5	1	0	100.0%	0.0%	0.0%
S07_635374	7	635374	C	T	0	0.5	1	0	100.0%	0.0%	0.0%
S07_717478	7	717478	A	C	0	0.5	1	0	100.0%	0.0%	0.0%
S07_717509	7	717509	T	G	0	0.5	1	0	100.0%	0.0%	0.0%
S07_760712	7	760712	T	C	0	0.5	1	0	100.0%	0.0%	0.0%
S07_760716	7	760716	C	T	0	0.5	1	0	100.0%	0.0%	0.0%
S07_869995	7	869995	C	A	0	0.5	1	0	100.0%	0.0%	0.0%
S07_869997	7	869997	A	T	0	0.5	1	0	100.0%	0.0%	0.0%
S07_1180894	7	1180894	A	G	1	0.5	1	0	0.0%	97.5%	2.5%
S07_1369096	7	1369096	T	G	1	0.5	1	0	0.0%	97.6%	2.4%
S07_1381530	7	1381530	T	G	1	0.5	1	0	0.0%	97.6%	2.4%

0 : homozygosity for reference allele (Ref); 0.5 : heterozygosity ; 1 : homozygosity for alternative allele (Alt)