

**Table S4. Segregation analysis of *wee1* and *atm* mutant alleles amongst *csn* mutant progeny of *csn/CSN wee1/Wee* and *csn/CSN atm/ATM* parents, respectively\***

CSN genotype	WEE1 genotype	Expected ratio <sup>†</sup>	Distribution	$\chi^2$ <sup>‡</sup>
<i>csn3-1/csn3-1</i>	WEE1/WEE1	1/4 (25%)	30/96 (31.3%)	
<i>csn3-1/csn3-1</i>	WEE1/wee1-2	2/4 (50%)	52/96 (54.2%)	6.00
<i>csn3-1/csn3-1</i>	wee1-2/wee1-2	1/4 (25%)	14/96 (14.6%)	
<i>csn4-1/csn4-1</i>	WEE1/WEE1	1/4 (25%)	23/96 (24.0%)	
<i>csn4-1/csn4-1</i>	WEE1/wee1-2	2/4 (50%)	60/96 (62.5%)	8.08
<i>csn4-1/csn4-1</i>	wee1-2/wee1-2	1/4 (25%)	13/96 (13.5%)	
CSN genotype	ATM genotype	Expected ratio <sup>†</sup>	Distribution	$\chi^2$ <sup>‡</sup>
<i>csn3-1/csn3-1</i>	ATM/ATM	1/4 (25%)	20/96 (20.8%)	
<i>csn3-1/csn3-1</i>	ATM/atm-2	2/4 (50%)	64/96 (66.7%)	12.00
<i>csn3-1/csn3-1</i>	atm-2/atm-2	1/4 (25%)	12/96 (12.5%)	
<i>csn4-1/csn4-1</i>	ATM/ATM	1/4 (25%)	34/96 (35.4%)	
<i>csn4-1/csn4-1</i>	ATM/atm-2	2/4 (50%)	46/96 (47.9%)	6.92
<i>csn4-1/csn4-1</i>	atm-2/atm-2	1/4 (25%)	16/96 (16.7%)	
<i>csn5ab/csn5ab</i>	ATM/ATM	1/4 (25%)	20/96 (20.8%)	
<i>csn5ab/csn5ab</i>	ATM/atm-2	2/4 (50%)	55/96 (57.3%)	2.06
<i>csn5ab/csn5ab</i>	atm-2/atm-2	1/4 (25%)	21/96 (21.9%)	

\*The WEE1 and CSN5 loci are unlinked and were therefore not included in this analysis. All other loci are not linked.

<sup>†</sup>Expected ratio of the specific genotypes amongst plants with a *csn* mutant phenotype under the assumption that there is no genetic interaction.

<sup>‡</sup> $\chi^2_{0.001}=13.82$  (two degrees of freedom).