

S4 Table. Analysis of variance for heading time under short days (SD, 8 h light / 16 h darkness). All four allelic combinations for *CO1* and *CO2* wild type and mutant alleles were analyzed in a photoperiod insensitive background (Kronos-PI).

Dependent Variable: Heading time

Source	DF	Type III SS	Mean Square	F Value	P > F
Model	3	1099.363	366.454	28.61	<.0001
Error	35	448.226	12.806		
Corrected Total	38	1547.590			

R² 0.710

Source	DF	Type III SS	Mean Square	F Value	P > F
Main effects					
<i>CO1</i>	1	324.801	324.801	25.36	<.0001
<i>CO2</i>	1	574.507	574.507	44.86	<.0001
<i>CO1</i> x <i>CO2</i>	1	131.177	131.177	10.24	0.0029
Simple effects					
<i>CO1-co1</i> in <i>CO2</i> WT	1	20.056	20.056	1.57	0.2191
<i>CO1-co1</i> in <i>co2</i> mut	1	470.028	470.028	36.70	<.0001*
<i>CO2-co2</i> in <i>CO1</i> WT	1	76.634	76.634	5.98	0.0196
<i>CO2-co2</i> in <i>co1</i> mut	1	641.479	641.479	50.09	<.0001*

**CO1* and *CO2* are highly significant only in the presence of the other mutant allele