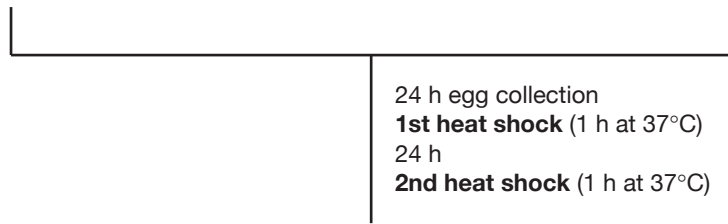


\xrightarrow{yw} ; $\frac{Df(2L)k08712-rv21 p\{v+ 70l-Scel\}}{Sp}$; $\frac{+}{+}$ ♂♂ **X** yw ; $\frac{Df(2L9b84h1 p\{CaGal\}}{CyO}$; $\frac{M\{MtnBgen-gen\}zh86-Fb}{MKRS}$ ♀♀



spell1 -/- \xrightarrow{yw} ; $\frac{Df(2L)k08712-rv21 p\{v+ 70l-Scel\}}{Df(2L9b84h1 p\{CaGal\}}$; $\frac{M\{MtnBgen-gen\}zh86-Fb}{+}$ ♂ **X** yw ♀♀ (on 500 μM CuSO₄)

spell1 +/- \xrightarrow{yw} ; $\frac{Df(2L)k08712-rv21 p\{v+ 70l-Scel\}}{CyO}$; $\frac{M\{MtnBgen-gen\}zh86-Fb}{+}$ ♂ **X** yw ♀♀ (on 500 μM CuSO₄)

Figure S4

Crossing scheme for SSA analysis of *spell* deficient flies with tester constructs on the 3rd chromosome

The tester construct transgene *M{MtnBgen-gen}zh86-Fb* is marked with *eye-RFP*.

The ratio of flies with EGFP positive abdomen per flies with RFP positive eyes among the offspring was determined in all analysis tubes of the final cross for each genotype.

Identical analysis was also done for *M{MtnBgen*-gen}zh86-Fb* and *M{MtnBcDNA-gen}zh86-Fb*. *Spell* deficient genotypes are indicated in red.