

Supplemental Table 2. Values used in calculation of Fisher's exact test P value ($P=0.0001$). A list of genes with annotated expression patterns and the subset of genes annotated as being expressed in the mesoderm was obtained from Flybase (19) and used to perform a Fisher's exact test as shown. The Flybase annotations do not discriminate between expression in different parts/at different times in the mesoderm. There are a total of 1577 genes which are present in annotations for both genome location and expression.

	Mesodermal expression	Non-mesodermal expression
Near an element	54	88
Not near an element	331	1104