Figure S1. Functionality of the viral P2A peptide in *Tribolium castaneum*

Bicistronic expression of membrane-localized YFP (in green) and Histone2B-mCherry, mediated by the viral P2A peptide in blastoderm and early germband stage embryos of *Tribolium castaneum*. The two proteins are expressed from the same open reading frame, separated by the PTV1 peptide (Szymczak-Workman et al., 2012). The transgene was stably integrated in the genome. The distinct localization of membrane-YFP and Histone2B-mCherry proteins in the plasma membrane and chromatin, respectively, indicates that the P2A peptide is functional (mediates ribosomal skipping) in *Tribolium*.

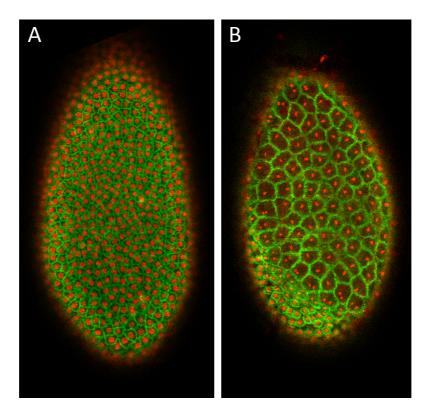


Table S1. Frequency of marked cell clones. The number of distinct clusters of H2B-mCherry-expressing cells was scored per embryo. We classified embryos in four categories: embryos with more than 10 clusters per embryo, 2-10 clusters, one cluster, or none. Each cluster was taken to represent a cell clone.

		>10 clones	2-10 clones	1 clone	no clones
A. Embryos with marked clones after 10 min heat shock at 46°C					
Valcyrie.LR #22	(n=19)	5%	68%	11%	16%
Valcyrie.LR #39*	(n=15)	60%	0%	0%	40%
Valcyrie.Uni #6	(n=22)	0%	5%	18%	77%
Valcyrie.Uni #11	(n=17)	0%	59%	12%	29%
B. Embryos with marked clones after 10 min heat shock at 44°C					
Valcyrie.LR #22	(n=21)	0%	10%	19%	71%
Valcyrie.LR #39*	(n=11)	9%	18%	9%	64%
Valcyrie.Uni #6	(n=19)	0%	0%	0%	100%
Valcyrie.Uni #11	(n=20)	0%	0%	10%	90%
C. Effect of post-heat-shock temperature (after 10 min heat shock at 46°C, Valcyrie.LR #22)					
32°C	(n=20)	15%	40%	10%	35%
25°C	(n=20)	0%	25%	15%	60%

^{*} The *Valcyrie.LR* #39 line is heterozygous, therefore approximately 50% of the embryos in these experiments did not carry the *Valcyrie.LR* construct.