

**Table S4. Quantification of the effect of removing CyA at different developmental stages**

Condition	Stage of CyA removal	<i>vmhc</i> cells per heart field	<i>n</i>
Ethanol treated	–	43±6	19
+ CyA	Germ ring	**34±7	11
+ CyA	Three somites	**21±6	9
+ CyA	Six somites	*14±5	5
+ CyA	–	*13±3	10

Values represent the average number of *vmhc*-expressing cells per heart field at the 18-somite stage ( $\pm$ s.d.), following exposure to CyA from dome stage until the stage indicated. A single asterisk indicates statistically significant changes from the ethanol-treated control (*t*-test,  $P < 0.0024$ ). Double asterisks indicate that the treatment also results in a statistically significant change from the CyA control value (*t*-test,  $P < 0.001$ ).