

**Table S3. Mean number of comets in wild-type and *vab-10(tk27)* DTCs**

Genotype		Mean number of comets		
		Ventral migration	Dorsal turn	Dorsal migration
Wild type	Front	5.46±1.49	5.19±1.65	5.61±1.66
	Rear	6.31±1.54	6.16±1.48	5.48±1.64
<i>vab-10(tk27)</i>	Front	2.49±1.44**	2.52±1.24**	1.97±1.33 **
	Rear	5.42±1.35 (ns)	5.38±1.5 (ns)	5.93±1.58 (ns)

The number of comets in a 20  $\mu\text{m}^2$  circle within each frame was counted using Morphometry Analysis of Metamorph (Molecular Devices). For each experiment,  $n=100$  (25 frames  $\times$  four DTCs). Results are shown as the mean $\pm$ s.d.

\*\* , significant difference ( $P<0.01$ ) relative to the front region of wild-type DTCs based on Student's *t*-test.

ns, the difference is not significant ( $P>0.05$ ).