

**Table S1. Locations of subducting tissues versus the anterior eye field in wild-type, *cyc* MO and *silberblick* embryos**

Location	Relative angle (degrees)		
	Wild-type	<i>cyc</i> MO	<i>silberblick</i>
Medial anterior eye field versus initiation of keel formation*	30.29 ( <i>n</i> =1)	5.56 ( <i>n</i> =1)	19.52 ( <i>n</i> =1)
Medial anterior eye field versus posterior eye field <sup>§</sup>	35.64±5.94 s.d. ( <i>n</i> =3)	50.64±3.05 s.d. ( <i>n</i> =3)	34.17±4.58 s.d. ( <i>n</i> =6)

Cell fates were identified by live movie tracing (\*) or by in situ analysis (<sup>§</sup>) (Fig. S1). Their locations, with respect to the medial anterior boundary of the eye field, were compared at 80% epiboly (8.4 hpf) by measuring the intervening angle subtended at the embryonic centroid. s.d., standard deviation.