

Table S1. Rescue of granular cells in SU5402 treated OtxH embryos

	Wild type + SU5402		OtxH + SU5402	
	%/class	<i>atoh1</i> upper rhombic lip	%/class	<i>atoh1</i> upper rhombic lip
Class 1 (isthmic phenotype)	36.4%	11.1%, <i>n</i> =27	33.0%	87.5%, <i>n</i> =24
Class 2 (isthmic + eye phenotype)	51.0%	23.7%, <i>n</i> =38	47.8%	82.3%, <i>n</i> =34
Class 3 (isthmic + eye phenotype + telencephalic cell death)	12.1%	22.0%, <i>n</i> =9	69.2%	69.2%, <i>n</i> =13

Isthmic phenotype=absence of isthmic constriction and cerebellum, similar to *ace* phenotype.

Eye phenotype=reduction of the eye size.

Telencephalic cell death=reduction in size and cell death in the telencephalon.

Wild type (*n*=74) and OtxH (*n*=71) embryos were treated with SU5402, classified in three different classes according to the severity of their phenotype (%/class) and scored for their *atoh1* expression in the upper rhombic lip (see Fig. 7G-J).

In the same experiment, control and OtxH embryos were stained for *atoh1*. Untreated wild-type embryos show *atoh1* staining in the upper rhombic lip (*n*=13) and OtxH embryos show expanded *atoh1* upper rhombic lip staining (*n*=19/22).