

Table S2. Reduction of neurosecretory cell types in the hypothalamus of *arnt2*^{m1005} mutant embryos and *sim1a* morpholino-injected embryos

	<i>arnt2</i> ^{m1055}	<i>sim1a</i> MO	<i>sim1a</i> + <i>p53</i> MO	Control MO
<i>crh</i>	Strongly reduced/absent (10/10)	Strongly reduced/absent (19/23), reduced (4/23)	Strongly reduced/absent (8/10), reduced (2/10)	Not reduced (15/15)
<i>itnp</i>	Strongly reduced/absent (10/10) ectopic location (0/10)	Strongly reduced/absent (29/30), reduced (1/30) ectopic location (29/30)	Strongly reduced/absent (11/12), reduced (1/12) ectopic location (10/12)	Not reduced (15/15), ectopic location (0/15)
<i>sst1</i>	Strongly reduced/absent (13/13)	Strongly reduced/absent (17/22), reduced (2/22) not reduced (3/22)	Strongly reduced/absent (9/12), not reduced (3/12)	Not reduced (15/15)
<i>trh</i>	Strongly reduced/absent (12/12)	Strongly reduced/absent (28/28)	Strongly reduced/absent (10/10)	Not reduced (15/15)
<i>vsnp</i>	Strongly reduced/absent (10/10)	Strongly reduced/absent (32/32)	Strongly reduced/absent (10/10)	Not reduced (15/15)

Expression of *crh*, *trh*, *itnp*, *vsnp* and *sst1* was analyzed by whole-mount in situ hybridization at 3-4 dpf. Embryos derived from heterozygous *arnt2*^{m1055} carriers were genotyped and expression of markers in homozygous mutants was compared with that of wild-type siblings. In case of *sim1a* morphants, expression of markers was analyzed in wild-type embryos injected with 1 ng *sim1a* splice morpholino alone or 1 ng *sim1a* splice morpholino together with 6.5 ng *p53* ATG morpholino, and compared with embryos injected with 4.5 ng control morpholino. Note that for *crh*, *sst1*, *trh* and *vsnp*, not all groups expressing the respective neurohormone are reduced in *arnt2*^{m1055} mutants and *sim1a* morphants. For those genes, the numbers represent only those groups that are actually affected.