

Supplemental Figure 1. *Spalt4* in situ hybridization of experimentally treated embryos.

A. Embryo electroporated with a Pax2CIG overexpression construct on the right side.

Spalt4 expressing cells can be detected in the extraembryonic ectoderm (arrow) on the electroporated side but not on the non-electroporated side. **B.** Embryo electroporated

with the Pax2 morpholino on the right side. The otic pit fails to form properly in the

electroporated side (arrow) with decreased expression of *spalt4*, while the non-

electroporated side looks normal.

