**Supplementary information, Figure S5** WISH analysis of runx1 and scl expression.

Expression of *runx1* has no significant difference between siblings and mutants at 36 hpf (A-B). (A’-B’) details of *runx1* expression in the enlarged dotted AGM region. The expression of *scl* (C-H) in the CHT region of mutants decrease from 3 dpf to 5 dpf compared to that of wild-type siblings, similar to the changes of *cmyb* expression. (C’-D’) details of *scl* expression in the enlarged dotted CHT region. The number of embryos in a het-het incross with the expression pattern as shown in the mutant\textsuperscript{cas002} column and corresponding percentages are listed inside each panel.