

SUPPLEMENTARY FIG. S3. Transgenic lines expressing TagYFP in cranial motor neurons, brain, and interneurons. A diagram of the CREST1 enhancer (from the *isl1* gene) transgene construct (as in Xie *et al.*³¹) is shown at the top; versions with wtNTR and mutNTR (nfsB) were used to derive transgenic lines. Dorsal views of representative larvae from complementary transgenic lines coexpressing TagYFP with either wtNTR (**A**, **A**', line isl1-wtNTR-03; **C**, **C**' line isl1-wtNTR-05) or mutNTR (**B**, **B**', line isl1-mutNTR-04; **D**, **D**', line isl1-mutNTR-06) in cranial motor neurons at 2 dpf (*left panel*) and 4 dpf (*right panel*). In lines isl1-wtNTR-03 and isl1-mutNTR-04, this expression stays constant through 4 dpf (**A'**, **B'**); while in lines isl1-wtNTR-05 and isl1-mutNTR-06, expression is extended throughout the brain, and within spinal interneurons by 4 dpf (**C'**, **D'**). Note that some expression in interneurons can randomly occur in lines isl1-wtNTR-03 and isl1-mutNTR-04 (as seen in **A'**), and that interneuron expression commences earlier in line isl1-wtNTR-05 (**C**). (**E**) Dorsal view of isl1-mutNTR-04 larva at 4 dpf, with cranial motor neuron groups labeled with roman numerals (III, IV, Va, VII and X) as in Higashijima *et al.*³⁴