

**Table S1.** Oligonucleotide sequences used to produce antisense RNA *in situ* probes for zebrafish.

|            |                                                      |
|------------|------------------------------------------------------|
| pax6afw    | CCCAATACTGGCCCAGACTA                                 |
| pax6aT7rv  | TAAGCTTTAATACGACTCACTATAGGGAGAGAAGTGGCACTATCCCCGTA   |
| pax6bfw    | GAGCAAGATTCTGGGGAGGT                                 |
| pax6bT7rv  | TAAGCTTTAATACGACTCACTATAGGGAGAGCTCGGTATGTTATCGTTGG   |
| prox1fw    | GGACAGTGAGGTCCCAGAGA                                 |
| prox1T7rv  | TAAGCTTTAATACGACTCACTATAGGGAGAAGGGGAAATGGGGTAAGGAT   |
| tcf7l2fw   | GAAGGAACGACAGCTTCACAT                                |
| tcf7l2T7rv | CGGCTGCTTGTCTCTTTTTCTATAGGGAGAAAACGGTAGAGGGGTTTGCT   |
| id2afw     | AATTGGACTGCCGGTATCTG                                 |
| id2aT7rv   | TAAGCTTTAATACGACTCACTATAGGGAGAACCGCAATCGAATCTTTCAG   |
| gata3fw    | CCAGCAAGTCCAAGAAGAGC                                 |
| gata3T7rv  | TAAGCTTTAATACGACTCACTATAGGGAGAGTTGAAGGGGCAATGAAGAA   |
| ikzf1fw    | GGCAGGATTCCACTGACACT                                 |
| ikzf1T7rv  | TAAGCTTTAATACGACTCACTATAGGGAGAGTACCCGCATAGGTTGCACT   |
| tfap2afw   | AGTTCACGGACCTGCTGTCT                                 |
| tfap2aT7rv | TAAGCTTTAATACGACTCACTATAGGGAGAGTCCGCAAATCCCAGAATTA   |
| tfap2bfw   | GATGGGGTACCGAGTCACAG                                 |
| tfap2b     | TAAGCTTTAATACGACTCACTATAGGGAGAGTGATGTGTGGAGTGGAGCA   |
| vax1fw     | CGAATTTGCCAAGATCAGGT                                 |
| vax1T7rv   | TAAGCTTTAATACGACTCACTATAGGGAGAAAACGGTAGAGGGGTTTGCT   |
| ptf1afw    | ATGACCCAGACTACGGGTTG                                 |
| ptf1aT7rv  | TAAGCTTTAATACGACTCACTATAGGGAGATTGCCAGTGGCCTTATCTTC   |
| maffw      | CAACGGCTTCCGAGAAAAC                                  |
| mafT7rv    | CAGATGTAGAGGAGTCCCTTGGTATAGGGAGAAAACGGTAGAGGGGTTTGCT |
| arxfw      | CTCTGACCAGTGCTTCCACA                                 |
| arxT7rv    | TAAGCTTTAATACGACTCACTATAGGGAGACAGGATGTTGAGTTGGGTCA   |
| pou4f2fw   | CCTACCACACCATGAACACG                                 |
| pou4f2T7rv | TAAGCTTTAATACGACTCACTATAGGGAGAGACAACGTGAGCGACTCAAA   |
| neurodfw   | CAGCAAGTGCTTCCTTTTCC                                 |
| neurodT7rv | TAAGCTTTAATACGACTCACTATAGGGAGACCGTGTCGAGCAGTCTGATA   |
| foxp2fw    | GTAATCCGGGCTTGATGAAC                                 |
| foxp2T7rv  | TAAGCTTTAATACGACTCACTATAGGGAGTGGGTGTGTGGGGAGTATC     |