|  |  |  |
| --- | --- | --- |
| **In situ hybridization primers** |  |  |
|  |  |  |  |  |  |
| organism | gene | NCBI gene ID | Forward | Reverse | previous publications |
| medaka | sost | [XM\_004080635.3](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1174668235) | TGCAAACACAGTTTCATATAGTGCT | GTGCCAGCTGAGGTTTAGGT |  |
| medaka | col2a1 | [XM\_011477401.2](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1174692701) | GAATCAGCAAAGTACCAAAG | ACCGGCCTGAATGCCTCTT | Dong et al. 2012 54 |
| medaka | col1a1 | [NM\_001122918.2](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1174098373) | TGTTCCGTGCTGATGATGCT | ATGTACCGGTGTGTGACGTG |  |
| zebrafish | sost | [XM\_001340647.5](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1207190415) | ACACACGGACTTATGGAGCC | TGAATTGCTGTTGATGGACGG |  |
| zebrafish | col2a1a | [XM\_005166863.4](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1207182926) | GCAAAGGGACAGAAAGGAGAACCA | CACCATCACTTCCGGGTTTTCCA |  Shwartz et al. 2012 55 |
| zebrafish | col1a1a | [NM\_199214.1](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=56790314) | GTGATCTGCGAAGACACAAGCGA | AATCCTCTGTGTCCCTTGATGCCT |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| **qRT-PCR primers** |  |  |  |
|  |  |  |  |  |  |
| organism | gene | NCBI gene ID | Forward | Reverse |  |
| medaka | sost | [XM\_004080635.3](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=1174668235) | GCGAAAAACGGTGGAAGGAC | TCGGTAATGTAGCGGGTGGA |  |
| medaka | col1a1 | [NM\_001122918.1](https://www.ncbi.nlm.nih.gov/nucleotide/171544946?report=genbank&log$=nuclalign&blast_rank=2&RID=1EP8T5K6015) | GCTCTTTGCCAGAGGATGTC | TCATTGGAACCTTGGAGGAG | Watson et al. 201756 |
| medaka | rpl7\* | [NM\_001104870.1](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&id=157278476) |  CGCCAGATCTTCAACGGTGTAT | AGGCTCAGCAATCCTCAGCAT | Zhang et al. 2006 57 |
|  |  |  |  |  |  |
| \*housekeeping gene |  |  |  |  |
|  |  |  |  |  |  |
|  **splice blocking validation (for morpholino experiment)** |  |  |
|  |  |  |  |  |  |
| organism | gene |  | Forward | Reverse (on intron) |  |
| medaka | sost | validation pair 1 | AAC ACT TTG AAT AAC AGG GCG | CCA TGT GCT TAT CTT CAC CAC |  |
| medaka | sost | validation pair 2 | GCG AAA AAC GGT GGA AGG AC | ACC CAT GTG CTT ATC TTC ACC A |  |

**SI Table 1 – list of primers used.**