Gene Name	Species	NCBI accession number	Salmonid duplicate	NCBI accession number salmonid duplicate	% identity probe with salmonid duplicate	Sequence
kiss1	*Salmo salar*	XM_045705799.1				ATGCAATGCTAAAGGTCTTGAGAGATTTATCCACTGCATCAACAGAGGGCCCACTCCCTGACAAACTTCCTGCTCTTCTACCCAATGAC GTAGACAATCCACTGTTAGAGGCGGAACTACCCAGAAGGATGTGGTGGTGGTGGTTCCCAGCGAAGCCCCACCCACAAAACAGGATT CGTCAGAATCGAGCTTGGAGGTCCTCGTACAACCATAACTCCTTTGGCCTACGTTACGGGAAATGA
sox1a1	*Salmo salar*	XM_014164687.2	*sox1a2*	XM_014174310.2	98.8	ATGCACCGCTACGACATGTCGGCGCTCCAGTACAGCCCCATCTCGAACTCTGAGGGCTACATGAGCGCCTCTCCGTCCGGCTACGGCG GGATCACCTACACGCAGCACCAGAGCTCTGGCGTCTCCTCCTCGGCTGCCATGGGCACGTTAGGGTCGCTGGTGAAGTCAGAGCCGA GCGTAAGCCCTCCCGTTAGCACTCACTCCAGGGGCCCTTGCCCCGGAGACTTGAGAGAGATGATAAGCATGTATTTACCGACCGGAGA GCCCGGGGACCCGTCGGTGCAAAGTAGACTCCACGCA
sox1b1	*Salmo salar*	XM_014150569.2	*sox1b2*	XM_014152052.2	98.5	TATAGTATGATGATGGAGACTGACCTACACTCCCCAGTGCCCCAAACGAACACGAATTCGGGGCACACGGGAGGATCAAACAATGGG AACAAAGTCAACCAAGACCGCGTAAAGAGACCGATGAACGCCTTCATGGTTTGGTCCCGGGGCCAGCGGCGGAAGATGGCTCAGGAG AACCCCAAAATGCACAACTCCGAGATCAGCAAGCGACTCGGCGCCGAGTGGAAGGTGATGTCCGAGGCGGAGAAGAGACCGTTCATC GACGAGGCGAAGCGGCTACGAGCTATGCACATGAAGGAGCATCCGGATTATAAATACAGACCGAGACGGAAGACCAAGACACTGTTA AAAAAGGACAAATACTCTTTGGCCGGTGGGCTGCTCACCGGGACAGGGGGTGGGGGTGTCGGTCTAGGGATGAGCCCTGGTGTCGG ACAAAGGTTAGACAGTCCCGGGGGTCACGGGGGTGCGTCTGCTGCCAGCTACGCGCACATGAACGGCTGGGCGAACGGTGCGTACT CGGGGCAGGTGGCTGCAGCTGCGGCGGCCGCGGCCATGATGCAGGAGGCTCAGCTCGCCTACAGCCAGCACCCCGGCAGC
Kctd12b	*Salmo salar*	XR_001330257.2				GCTCTGCCAGATAACACCCCCAGCATTCCATTAGGGGAAGAAGTAATCTTCCCTGAGATAGTAGAGCTGAATGTGGGTGGCCAGGTGT ACATCACTCGCTACTCAACCCTTATCAGCGTACCAGACTCTCTCCTGTGGGAGATGTTTAACAGGAAATCCACCAAAGGTCTGGCGAG GGACACCAAGGGCCGTTTCTTTGTGGACCGGGATGGTTTCTTGTTCCGGTATATTCTGGACTACATGAGAGATCAGCAGCTGGTGCTC CCAGACCACTTCCCAGAGCGGGGTCGCCTGCAGCGGGAGGCTGAGTTCTTCATCCTACCTGAGCTCGTAAAGATTCTGGCGCCCAAAT TCAGCAAGCAGAACTCGCTAGGCGACGAGGGGTGTCAGAGCGACCCGGAGGACTCCTCGCCGGGCATTGAAACCGGGCGCAACCTG GCCTCGCTGGGCACTGCCGCCTGCGCCAGTCTGGTCCCCAGTGGAGACGGTAAACGCTCGGGATTCATCACCATCGGTTATCGCGGC TCTTATACATTGGGGCGCGACAGCCAGACCGATGCCAAGTTCAGACGTGTTGCTCGCATTATGGTCTGTGGCAAG
kiss1	*Anguilla anguilla*	XM_035389271				ATGACAGACATGCTGTGGGCCAGATCTGCCCCAGCTCCCCTCTCCCATGCCACCATTCTGCTGTTGACCGTGGTCTCCATGGTGACCAT CAGGTTTGGGGAGACCAGGTCTCTTAGGTACACCCCGTACACTGCAGATGAAGACCCAGAGATTGCAGCCATGCGGGTCCTGAGGCA AATGAACGAGGAGCTGTCGACCGAGGCCCCGCCCTCCCCGCACCGCCCCGCCCACTGGCCCACAGCACTGGCCAATCCACTGCCGGG AGGGGCCGGCCTTCCCAGGAGGTCGTGGTGGTGGTACCCCGAGGTGCCGCCACAACAGGCCAAGAAGCGGGAAAACTTCTCCTCCTA CAACTGGAACTCTTTCGGTTTACGTTATGGGAAATGA
sox1	*Anguilla anguilla*	XM_035394811.1				ATGTATAGCATGATGATGGAAACGGACCTGCACTCCCCAGGACCGCAAACCAATACAAATTCGGGCCAAACGTTGCCAAACAACGGGA GCAAAGCTAATCAAGACCGAGTAAAAAGACCTATGAATGCATTTATGGTTTGGTCTCGGGGCCAGCGGAGGAAGATGGCACAGGAGA ACCCCAAAATGCACAACTCTGAAATCAGTAAGAGGCTGGGTGCGGAGTGGAAAGTTATGTCTGAGGCGGAAAAGAGACCCTTTATCG ATGAGGCAAAGCGGTTACGGGCCATGCATATGAAAGAACATCCGGATTACAAGTACAGACCCAGGAGAAAGACCAAGACGCTGCTCA AAAAAGACAAATACTCTTTAGCCGGCGGTTTGCTAACCGGGGGTGGCAGCGGAGGAGGTGTTGGTCTTGGGGTCGGGGTGAGTCTAG CAGGAGTCGGACAGAGGTTAGACAGCCCTGGTAGTCACGGAGGCACAGCTAGTACCGGCTATGCACACTTAAACGGCTGGGCAAACG GCGCCTATTCGGGCCAGGTGGCGGCGGCAGCGGCGATGATGCAAGAAGCGCATATAGCTTACAACCAGCACCCCGGCAGCGGGGCG CACCATCACCACGCGCACCACCCACACAAC
Kctd12b	*Anguilla anguilla*	XM_035408729.1				GCCATGAAGGAGACCATTCTGCCCATCAGCGAGGTGTCTGGCCCGGCCCCGTTGCCCTACCCGGAGGTAGTGGAGCTCAACGTGGGC GGCCAGGTGTACGTCACGAAGCGCTCCACCCTGGTCAGTGTGCCCGACACCACCCTGCACGCCATGTTCACCCGGTGCCCGCCACGG GAGCTACCAAGGGACAGCCGCGGGCGCTTCTTTATCGACCGCGATGGCTTCCTGTTCCGCTACGTGCTGGACTTCCTGCGAGACCGG CAGCTGGTGCTGCCCGACCACTTCCCTGAACGTGAGCGCCTGCAGAGGGAAGCCGAGCACTTCCAGCTGGGCGAACTGCTGCGCCTC CTGGGGCCCCGGGTGGGTTCCAAGCAGGGCTCCATGAATGATGAAGGCTGCCACAGTGATATTGAGGAGAGCTCACAAAGCAGTGAG TACCCCACATGTCGTACCTTGACTTCCTCGGACAAGAGGTCAGGGTTCATCACCATTGGCTACAGGGGATCCTACACCACGGTGCGGG ACAACCAAGCCGATGCCAAGTTCCGACGCGTGGCCAGGATCATGGTGTGCGGACGCATCGCCCTGGCCAAAGAGGTG

Supplementary Table 2. Sequence of probes used. In view of the similarity level of the probe For *Sssox1a1* and *Sssox1b1*, cross-hybridization with the sequences of paralogues generated by the salmonid duplication (respectively *Sssox1a2* and *Sssox1b2*) cannot be excluded. We therefore refer to *Sssox1a* and *Sssox1b* for the corresponding profiles in the text.