

Title: Gene specific primers used in the study.

Description: P1, P11 and P21 are designed from red seabream with accession numbers AB181838, AB181839, AB181840, for *vtgAa*, *vtgAb*, and *vtgC*, respectively. All other primers are from the Labridae in the study.

	primer	Sequence
vtgAa	P1	5'-GCAGACCAAGCAATCCTTGGTGTTCCTTGA-3'
	P2	5'-TGCCCTGTCGAGCTTATAAAGC-3'
	P3	5'-GTTGCAAGACTTGACATCAAGGAG-3'
	P4	5'-CTTGGCTTGGAGCATAACAG-3'
	P5	5'-TCAGAGCAGCAGAAAGTCCCAGTGGCAGGAA-3'
	P6	5'-CGACAGGGCAGACAGGCAAATCGGTGCAAT-3'
	P7	5'-TGCACCGATTTGCCTGTCTGCCCTGTCTGA-3'
	P8	5'-ATCCTGCCCATCCATGGCACAGCAGCTACA-3'
	P9	5'-CAACGAGGGCAACTTTAAGGTC-3'
	P10	5'-CAGGTCGATATCAATGTCAGCAA-3'
vtgAb	P11	5'-CATCTGGGCAGCGCCATTCAAGATGTTGA-3'
	P12	5'-TCACCTCTGCCCTGGCTGCTCAGCTCTTGA-3'
	P13	5'-TTCTTCGGACAGGAAATTGCATTTGCCAACA-3'
	P14	5'-AGACCTTGCAGCAGCCAAATTCACACCGAT-3'
	P15	5'-GCATCAGCCAGAGTAGTCACCA-3'
	P16	5'-GCGGAGAACGACCACTATAGGA-3'
	P17	5'-TGCGTGGAGTGCAGGGCTAGAGGAAAGTCT-3'
	P18	5'-TTGAGACCAAGCTGCCAATGGGTTTGGTGA-3'
	P19	5'-GGGCCAGTCATTGAGAAGATTG-3'
	P20	5'-AACTGAGTGTTGCTGTTGCTTCTG-3'
vtgC	P21	5'-TGGTACTGGGTCATCCAGGTTCTGCATCAT-3'
	P22	5'-CAAACCAACGGCAGAGGGAGGTGTCATTACA-3'
	P23	5'-TTCTCCCTGGAGTCTCTGCCAC-3'
	P24	5'-AGCCTCCTCAAAGTCTCAAGCAG-3'
	P25	5'-ACATCCAGATAGTGGTCGCCAA-3'
	P26	5'-ATGGTGCTGCTTGGGGTGACTGACACAGCT-3'
	P27	5'-TTCCCTGGTGAAGGACTGACAG-3'
	P28	5'-GTTCATAAAGGACCTAATTGCGG-3'
	P29	5'-GTGAAGGGCGGTAATTTCAAGATGCAAGCAA-3'