

Assessing the distinctiveness of the Cultus pygmy sculpin, a threatened endemic, from the widespread coastrange sculpin *Cottus aleuticus*

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Endangered Species Research 20:181–194 (2013)

Supplement. Loci used in microsatellite assays of Cultus pygmy sculpin and coastrange sculpin (*Cottus aleuticus*), multiplex conditions of polymerase chain reactions, and basic description of number and size of alleles detected.

Table S1. PCR strategy: repeat motifs and sequences of primers used in the microsatellite analysis

Locus	Repeat motif	Primer sequences (5'-3')	Size (bp)
Cott100	(TG) ₁₅	CTCATCGTGGTTTGATCGGTG CCGAGCGTGAGTCAGGCGTG	176
CottES19	(CT) ₁₁	CCCCTTCCGTGAGCGACG ATATCACAGCACTTTTGGGGATG	144
Cott127	(AC) ₁₄	TTCAGCTGCCTGTGTAAGGC TGTATGGAGCACTTGGGCTG	194
Cott687	(CT) ₁₇	TGTACCTAGTGAGCCTGCTG CGTCAGCATCTACTGGGCAG	144
LCE29	(TG) ₉ (T)(TG) ₂₂ (A)(GT) ₆	GTGGGGAGAATGACGGATGG TACACATGCATTTGGATTGACC	221
Cott635	(TC) ₈	AGAAGGGCAACATAAGGGCC GAGGCGAGTGCGATGCCACC	169
Cott255	(CT) ₁₀	TCACTACAGCCAGGTGTCTG GCATGTGCATGCCTCCAGAG	172
Cott582	(GT) ₃₉	AGCTCTGGATGAGGACTGTC TCTGTGAGGTTTCAGTGCGAC	233

Table S2. PCR strategy: multiplex technique used for microsatellite analysis

Multiplex	Locus	Beckman dye	Size range (bp)
Quadplex I	Cott100	Cy5	165-233
	CottES19	Cy5	130-166
	Cott127	Cy5.5	183-211
	Cott687	Cy5.5	129-153
Diplex I	LCE29	Cy5.5	167-269
	Cott635	Cy5	166-352
Diplex II	Cott255	Cy5.5	148-214
	Cott582	Cy5	173-207

Table S3. Number and size range (bp) of alleles by locus and population for microsatellite analysis of *Cottus* spp. samples

Locus	Cheakamus River	Squamish River	Mamquam River	Cultus Lake trawl	Frosst Creek
Cott100	22(165-229)	16 (169-231)	21 (165-233)	11 (179-209)	10 (173-209)
CottES19	12(132-166)	10 (132-158)	11 (132-166)	10 (130-158)	6 (132-146)
Cott127	7(183-203)	5 (183-191)	6 (183-193)	5 (183-193)	5 (183-203)
Cott687	8(129-147)	7 (131-153)	6 (131-145)	7 (137-145)	4 (139-145)
Cott255	11(148-176)	7 (152-178)	9 (152-184)	4 (164-174)	7 (162-204)
Cott635	14 (166-352)	11 (166-240)	13 (166-352)	11 (166-266)	10 (166-352)
LCE29	23 (173-247)	21 (173-241)	24 (167-247)	14 (173-259)	9 (181-249)
Cott582	9 (173-195)	6 (177-189)	8 (173-191)	7 (173-189)	6 (177-189)

Locus	Lake Washington	Windfall Creek	Watt Creek	Norrish Creek	Cultus Lake traps
Cott100	17 (173-229)	12 (175-209)	13 (173-213)	15 (169-225)	14 (175-211)
CottES19	6 (132-158)	5 (132-146)	9 (132-158)	11 (132-162)	8 (132-154)
Cott127	8 (183-211)	5 (183-193)	5 (183-195)	5 (183-191)	5 (183-195)
Cott687	6 (129-145)	5 (137-145)	3 (139-145)	4 (131-145)	4 (139-145)
Cott255	9 (162-192)	5 (162-174)	7 (162-184)	10 (152-214)	6 (152-174)
Cott635	13 (166-320)	8 (166-352)	11 (166-236)	8 (166-236)	13 (166-352)
LCE29	12 (173-259)	8 (181-249)	10 (179-249)	15 (173-269)	11 (175-251)
Cott582	8 (177-191)	8 (175-189)	8 (177-195)	10 (173-207)	7 (177-189)