

Appendices

Appendix 1. Polymerase Chain Reaction conditions. **A:** PCR mixes used for the three microsatellite loci multiplexes. Exon 2 and Exon 4 stand for the gender marker primers. Reaction mixes were made in order to get 10µL per well. **B:** PCR programs used for the three multiplexes.

A

Multiplex 1		Concentration	Multiplex 2		Concentration	Multiplex 3		Concentration
DNA	ca 33	ng	DNA	ca 33	ng	DNA	ca 33	ng
Buffer	1	x	Buffer	1	x	Buffer	1	x
MgCl ₂	2	mM	MgCl ₂	2	mM	MgCl ₂	3	mM
dNTP	0.2	mM	dNTP	0.2	mM	dNTP	0.2	mM
GoTaq pol	0.5	U	GoTaq pol	0.5	1U	GoTaq pol	0.5	1U
Ssa85	0.2	mM	BG935488	0.2	mM	Ssa85	0.125	mM
mOne102a_b	0.4	mM	SsaD71	0.5	mM	SsOsl417	0.2	mM
Str2QUB	0.4	mM	Sasa-TAP2A	0.6	mM	Ssa87NVH	0.15	mM
Ssa416UoS	0.4	mM	MHC-I	0.3	mM	Ssa24NVH	0.3	mM
mOne101	0.4	mM	Ssa410UoS	0.7	mM	BS-131	0.3	mM
Cocl-Lav-4	0.4	mM	Str3QUB	0.15	mM	Ssa408	0.3	mM
One_u9	0.4	mM	CA060177	0.8	mM	Ssa197	0.125	mM
CA048828	0.4	mM	Ssa197	0.2	mM	Exon2-Vic	0.05	mM
						Exon4-Vic	0.05	mM

B

Multiplexes 1 & 2			Multiplex 3		
95°C 15min			94°C 5min		
95°C 45sec			94°C 45sec		
55°C 1min30sec			55°C 1min30sec		
72°C 1min			72°C 1min		
x5			x3		
95°C 45sec			94°C 1min		
57°C 1min30sec			57°C 1min30sec		
72°C 1min			72°C 1min		
x22			x25		
60°C 30min			72°C 10min		
4°C ∞			4°C ∞		

Appendix 2. Sea trout returning to the river Guddal several times over the study period. Recaptures indicated for 2017 are based on PIT tags only as no genotypes were available at this time. **A:** Females. **B:** Males.

B

Appendix 3. Proportion of anadromous trout ascending the river Guddal according to the week number between 2006 and 2017. Individuals from 2017 were not genotyped, so the data might contain some Atlantic salmons as well as individuals that ascended multiple times. Week 20 is mid-May, week 45 beginning of November.

