Supplementary Table S5. Microsatellite and SNP analysis of SALTAS broodstock families in which the sex-determining gene housed on Ssa02 (AS-1). Markers are arranged in order corresponding to their placement on the female European Atlantic salmon linkage map (www.asalbase.org).

	Families 2009_XX[1]																										
Marker	25	9	1	29	38	28	27	16	31	35	17	12	04	20	34	19	05	23	13	33	08	22	14	Total	LOD	Theta	
Ssa02[2]																											**Ssa02**
Ssa1077BSFU			21/23[3] (4.0)[4]																			16/17 (3.4)		37/40	7.41	0.07	Ssa1077BSFU
Ssa0055BSFU	24/24 (7.2)	20/20 (6.0)		23/23 (6.9)	23/24 (5.4)		31/31 (9.3)	9/9 (2.7)	24/24 (7.2)	32/33 (8.0)	25/25 (7.5)		27/30 (4.8)	46/50 (9.0)	26/27 (6.2)	12/12 (3.6)	14/14 (4.2)	23/25 (4.5)	26/26 (7.7)	23/23 (6.9)	25/27 (5.0)			433/447	107.5	0.03	Ssa0055BSFU
Ssa0183BSFU						21/22 (4.9)																		21/22	4.9	0	Ssa0183BSFU
Ssa202DU																							16/16 (4.8)	16/16	4.8	0	Ssa202DU
Ssa0233BSFU												23/23 (6.9)			20/28 (1.1)					16/23 (0.8)				59/74	6.1	0.2	Ssa0233BSFU
Ssa1265BSFU																								12/26	0.0	0.54	Ssa1265BSFU
Ssa0182ECIG				23/23 (6.9)																				23/23	6.9	0	Ssa0182ECIG
Ssa06																											
OMM5037			13/23 (0.1)											26/50 (0)				10/24 (0.1)									
Ssa0074ECIG								6/10 (0.1)							17/26 (0.5)												
ESTNV_21223_122																											
Ssa0376BSFU		7/20 (0)			10/24 (0)														15/26 (0.1)			11/17 (-0.1)	11/14 (1.1)				
Ssa0789BSFU				10/23 (0)				4/12 (0)	11/22 (0)			14/23 (0.2)				7/12 (0.1)											
Ssa0043BSFU		8/20 (0)																									
Ssa0103aECIG							16/31 (0)																				
Ssa0142BSFU																											
Ssa0350BSFU	6/14 (0)														14/28 (0)		6/14 (0.1)				14/27 (0)						
Ssa1299BSFU					10/24 (0)					16/29 (0.1)	8/25 (0)								15/26 (0.1)	9/23 (0.2)							
Ssa0752BSFU													20/33 (0.3)														
Ssa03																											
Ssa0649BSFU																											
Ssa0343BSFU													11/25 (0.1)														
OMM1272	13/25 (0)		8/20 (0.2)												15/26 (0.1)												
Ssa0017BSFU											10/24 (0.1)																
ESTNV_29224_109																											
Ssa0368BSFU				11/23 (0)	14/24 (0.2)		14/31 (0.1)		6/24 (1.6)	21/29 (1.3)				29/48 (0.5)				10/25 (0.2)	11/20 (0)	13/23 (0.1)	16/26 (0.3)	12/17 (0.6)	7/13 (0)				
Ssa0818BSFU		15/21 (0.9)				8/22 (0.4)		8/12 (0.3)									10/14 (0.6)										
Ssa0212BSFU												12/23 (0)															
Ssa0516BSFU																											
OMM5019																											
OMM1267																											
SsaD144																											
Ssa0676BSFU																2/12 (1.3)											

[1]Family (2009 year class where family ID's are given as XX, values below). [2] Chromosome number shown in Ssa0X. [3]Number of offspring for which genotype/phenotype agreee / number of offspring for which genotype/phenotype disagree. [4]LOD score corresponding to the ratio of correct genotype/phenotype matches:incorrect genotype/pheotype matches in a given family.