Supplementary Table S6. Microsatellite and SNP analysis of SALTAS broodstock families in which the sex-determining gene housed on Ssa03 (AS-11). Markers are arranged in order corresponding to their placement on the female European Atlantic salmon linkage map. www.asalbase.org

| Marker | 2009_32[1] | 2009_37 | Total | LOD | Theta | |
|---|---|---|---|---|---|---|
| **Ssa02[2]** | | | | | | |
| Ssa1077BSFU | 28/35[3] (2.9)[4] | | | | | |
| Ssa0055BSFU | | | | | | |
| Ssa0183BSFU | | | | | | |
| Ssa202DU | | 13/17 (1.1) | | | | |
| Ssa0233BSFU | | | | | | |
| Ssa1265BSFU | | | | | | |
| Ssa0182ECIG | | | | | | |
| **Ssa06** | | | | | | |
| OMM5037 | 16/35 (0) | | | | | |
| Ssa0074ECIG | | 10/17 (0.1) | | | | |
| Ssa0376BSFU | | | | | | |
| Ssa0789BSFU | | | | | | |
| Ssa0043BSFU | | | | | | |
| Ssa0103aECIG | 12/35 (0) | | | | | |
| Ssa0142BSFU | | | | | | |
| Ssa0350BSFU | | | | | | |
| Ssa1299BSFU | | 8/17 (0) | | | | |
| Ssa0752BSFU | | | | | | |
| **Ssa03** | | | | | | |
| Ssa0649BSFU | 28/33 (3.8) | | 28/33 | 3.8 | 0.15 | Ssa0649BSFU |
| Ssa0017BSFU | 30/34 (4.9) | 15/16 (3.2) | 45/50 | 8 | 0.1 | Ssa0017BSFU |
| Ssa0368BSFU | 31/35 (5.1) | | 31/35 | 5.1 | 0.11 | Ssa0368BSFU |
| Ssa0670BSFU | | 13/17 (1.1) | 13/17 | 1.1 | 0.23 | Ssa0670BSFU |
| OMM1267 | 24/26 (4.8) | 14/15 (2.9) | 38/41 | 7.7 | 0.07 | OMM1267 |
| Ssa0516BSFU | 30/34 (4.9) | 15/16 (3.2) | 45/50 | 8 | 0.1 | Ssa0516BSFU |
| OMM5019 | 29/32 (5.3) | | 29/32 | 5.3 | 0.09 | OMM5019 |
| SsaD144 | 30/34 (4.9) | | | | | |

[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 and phenotype agree) / (number of offspring for which genotype and phenotype disagree). [4]LOD score corresponding to the ratio of correct genotype and phenotype matches:incorrect genotype and pheotype