Table S4. Pairs of single nucleotide polymorphisms (SNPs) exhibiting significant linkage disequilibrium in at least 4 of 9 collections in Prince William Sound chum salmon. The decision to retain a locus was based on the percentage of historical fish missing genotype data for each locus and the observed heterozygosity for all collections combined.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Pair | Locus | % missing (historical) | *H*O (All) | No. popsin LD | Decision |
|  1 | *Oke\_DBLOH-79* |  5.0 | 0.494 | 9 | Retain |
|  1 | *Oke\_U1001-79* |  7.1 | 0.496 | 9 | Discard |
|  2 | *Oke\_U1022-114* | 10.5 | 0.254 | 9,6 | Discard |
|  2 | *Oke\_U1021-102* |  6.3 | 0.343 | 6,6 | Retain |
|  2 | *Oke\_U1022-139* |  4.6 | 0.300 | 9,6 | Discard |
|  3 | *Oke\_IL8r2-406* |  6.3 | 0.332 | 9 | Retain |
|  3 | *Oke\_IL8r-272* |  2.5 | 0.182 | 9 | Discard |
|  4 | *Oke\_TCTA-202* |  6.7 | 0.494 | 9 | Retain |
|  4 | *Oke\_TCTA-99* |  6.3 | 0.446 | 9 | Discard |
|  5 | *Oke\_U1012-241* |  8.8 | 0.510 | 9 | Retain |
|  5 | *Oke\_U1012-60* | 10.0 | 0.501 | 9 | Discard |
|  6 | *Oke\_U507-286* |  7.1 | 0.515 | 9 | Retain |
|  6 | *Oke\_U507-87* |  8.4 | 0.397 | 9 | Discard |
|  7 | *Oke\_CCT3-143* |  2.1 | 0.082 | 8 | Discard |
|  7 | *Oke\_CCT3-220* |  4.2 | 0.296 | 8 | Retain |
|  8 | *Oke\_FANK1-96* |  5.9 | 0.205 | 8 | Discard |
|  8 | *Oke\_FANK1-166* |  3.8 | 0.510 | 8 | Retain |
|  9 | *Oke\_gdh1-191* |  3.8 | 0.361 | 8 | Discard |
|  9 | *Oke\_gdh1-62* |  7.5 | 0.504 | 8 | Retain |
| 10 | *Oke\_pgap-111* |  5.0 | 0.444 | 8 | Retain |
| 10 | *Oke\_pgap-92* |  9.2 | 0.379 | 8 | Discard |
| 11 | *Oke\_LAMP2-186* |  6.3 | 0.472 | 6 | Retain |
| 11 | *Oke\_lamp2-138* |  2.1 | 0.104 | 6 | Discard |
| 12 | *Oke\_U1002-262* |  4.6 | 0.478 | 6 | Retain |
| 12 | *Oke\_U1002-165* |  9.2 | 0.390 | 6 | Discard |
| 13 | *Oke\_psmd9-188* |  6.7 | 0.460 | 4 | Retain |
| 13 | *Oke\_psmd9-57* |  2.1 | 0.158 | 4 | Discard |
| 14 | *Oke\_AhR1-78* |  6.7 | 0.525 | 5 | Retain |
| 14 | *Oke\_AhR1-278* |  2.1 | 0.096 | 5 | Discard |
| 15 | *Oke\_GPDH* |  3.8 | 0.250 | 5 | Discard |
| 15 | *Oke\_zn593-152* |  8.4 | 0.393 | 5 | Retain |