|  |  |  |
| --- | --- | --- |
| **Name of oligo** | **Sequence 5'-3'** | **Direction** |
| ars3002\_F | CGCTAAACAATCTCTGAATAC | Forward |
| ars3002\_R | TTTACGATATATTTCCACAGC | Reverse |
| ars3002\_18kb\_F | GCTAACGCCTTATCCTACTTG | Forward |
| ars3002\_18kb\_R | TCCAACCAAAGTCAGAAAGC | Reverse |
| ars3002\_30kbF | ATTGCCAAGCCTTCCAGTTC | Forward |
| ars3002\_30kbR | CTTGTGACTAAATTGCTCTTGAATAG | Reverse |
| ars2004\_F1 | TTGCTTATCTTTTGGGTAGTTTTCG | Forward |
| ars2004\_R1 | CTTACATTTTCGGGAACTTATTAGTCAA | Reverse |
| ars2004\_30kb\_F2 | TACGCGACGAACCTTGCATAT | Forward |
| ars2004\_30kb\_R2 | TTATCAGACCATGGAGCCCATT | Reverse |
| ars3005\_F3 | ATCCACGCCAGAGTGCTT | Forward |
| ars3005\_R3 | TTGTTGGATGGCAATAAGAGG | Reverse |
| ars3005\_26kb\_F3 | ATAAGCACTTCGTGGGGCAA | Forward |
| ars3005\_26kb\_R3 | CCGGCCATGAAACCTACTGT | Reverse |
| Chr II\_nonars\_1236154\_F | TACGTTCGGGCGAATTTCCA | Forward |
| Chr II\_nonars\_1236154\_R | TAATGCTCAACTGCTGCCCA | Reverse |
| Chr II\_nonars\_1272741\_F | GAATTGGCACCGCCAAAGTT | Forward |
| Chr II\_nonars\_1272741\_R | GAAACCGGTCGACAAAACCG | Reverse |
| tRNAGLU.05\_F4 | CAAAGATTGGGATGCTATGACAC | Forward |
| tRNAGLU.05\_R4 | TGCGTACAAGACTTGGATGAG | Reverse |
| tRNAASN.05\_F | GTAAGGGATTGTTGTAAGGACTG | Forward |
| tRNAASN.05R | CGAACCGAATGGGAAAGACC | Reverse |
| tRNAASN.06\_6kb\_F | ACTCCGTGATACCAGGTCCA | Forward |
| tRNAASN.06\_6kb\_R | TCGTGGAGTCAGGAGGTGAT | Reverse |
| Hsp90\_F | CGTGCCATTCTTTTCGTCCC | Forward |
| Hsp90\_R | ACACGGCGAACATAGAGCTT | Reverse |
| Tdh1\_F | TAAGAAACGTCGGGTGGGTG | Forward |
| Tdh1\_R | TGCAAACGACAACGACTCCT | Reverse |
| Adh1\_F | CCCATGCTACCATCATCCCC | Forward |
| Adh1\_R | GCCGACCTTGGATTCCTTCA | Reverse |
| Hta1\_F4 | GGAACAACACCACCTTGAGCAATG | Forward |
| Hta1\_R4 | CCGTCATCTTCAACTCGCCATCC | Reverse |
| Ade6\_F4 | TTAAGCTGAGCTGCCAAGGT | Forward |
| Ade6\_R4 | GGCTGCCTCTACCATCATTC | Reverse |

**Supplementary Table 9**. Oligonucleotides used for qPCR experiments.

1 oligonucleotide sequence from Wu and Nurse. Cell, 2009.

2 oligonucleotide sequence from Moser et al. EMBO J, 2009.

3 oligonucleotide sequence from Tapia-Alveal and O’Connell. MBoC, 2011.

4 oligonucleotide sequence from Sabouri et al. Genes & Dev., 2012.