**Table S2. Primers used in this study**

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| --- | --- | --- | --- |
| Primer ID | Name | Sequence | Used for |
| EOO-042 | pFA6a Fw | TCGTACGCTGCAGGTCGACGGATCCCC | amplification of marker cassette |
| EOO-043  | pFA6a Rv | ATCGATGAATTCGAGCTCGTTTAAAC  | amplification of marker cassette |
| EOO-139  | dh Fw | CTCTCATCTCGACTCGTTTG | ChIP, RT-PCR |
| EOO-140  | dh Rv | GGCATTCACGAAACATAGCG | ChIP, RT-PCR |
| EOO-482 | ade6 Fw | GTAGTACGCAGTTTAGACGG  | ChIP |
| EOO-483 | ade6 Rv | GAGCACGCTGTTGAATTGAG | ChIP, Northern analysis |
| EOO-484 | ura4 Fw | GAATGGTTTGAGAAGCATACC | ChIP |
| EOO-485 | ura4 Rv | GAGTACGATATTGCTGTCCC | ChIP, Northern analysis |
| EOS-141 | act1 Fw | TGCCGATCGTATGCAAAAGG | ChIP, RT-PCR |
| EOS-142 | act1 Rv | CCGCTCTCATCATACTCTTG | ChIP, RT-PCR |
| KKO-480 | fbp1 Fw | GTCGAACGGATGCTGCAAAC  | ChIP |
| KKO-481 | fbp1 Rv | GGTACCTACACTAACACCGG | ChIP |
| KKO-482 | adh1 Fw | GGTGTCAAGTGGATGAACTC | ChIP |
| KKO-483 | adh1 Rv | GCATTGGCAATGCAGTAGTG | ChIP |
| EOS-451 | SPCTRNAASN.05 Fw | AATATATCAAGCAAGAATGGGG | ChIP |
| EOS-450 | SPCTRNAASN.05 Rv | CGACCTCACGATTAACAGTCG  | ChIP, siRNA analysis |
| EOS-513 | gene free region Fw | CAGTGGTAAGGGATTGTTGTAAGG | ChIP |
| EOS-514 | gene free region Rv | TGGCATAGAGGACGGAAGG | ChIP |
| EOS-529  | cenH dh Fw | GCTAAGATCGATTGGTGACG  | ChIP, RT-PCR |
| EOS-530  | cenH dh Rv | AAGTTCACTGTTCTTATACACTGG  | ChIP, RT-PCR |
| EOS-495 | SPRRNA.48 Fw | AACAGCCTCTAGTGCAGATC | ChIP, RT-PCR |
| EOS-496  | SPRRNA.48 Rv | GAGCTTCCCTATCTCTTAGG | ChIP, RT-PCR |
| EOO-517 | dh Fw | ACAACGCATCTACCTCAGCAGTCCTTGGG  | Northern analysis |
| EOO-518 | dh Rv | CCCAAGGACTGCTGAGGTAGATGCGTTGT  | Northern analysis |
| EOO-519 | dg Rv | CCATCCGCAGTTGGGAGTACATCATTCC | Northern analysis |
| EOO-520 | dg Fw | GGAATGATGTACTCCCAACTGCGGATGG | Northern analysis |
| KKO-586  | cen siRNA A | GCGACTAAACCGAAAGCCTC  | siRNA analysis |
| KKO-587  | cen siRNA B | TACCGTGATTAGCCTTACTCCGCATT  | siRNA analysis |
| KKO-588  | cen siRNA C | TACTTATTGATGGCGAAGCTAGA  | siRNA analysis |
| KKO-589  | cen siRNA D | TACCGCTTCTCCTTAATCCA | siRNA analysis |
| KKO-590  | cen siRNA E | ACACCTACTCTTATCACTTGT  | siRNA analysis |
| KKO-591  | cen siRNA F | GACGATAAGCAGGAGTTGCGCA  | siRNA analysis |
| KKO-592  | cen siRNA G | AGTGTGGCGCTATATCTTGTA  | siRNA analysis |
| KKO-593  | cen siRNA H | TACTGTCATTAGGATATGCTCA  | siRNA analysis |
| KKO-594  | cen siRNA I | GGGAAATGTATAAATAGGCA  | siRNA analysis |
| KKO-595  | cen siRNA J | TTTCCCAAGGACTGCTGAGGTAGA  | siRNA analysis |
| KKO-596  | cen siRNA K | TGGACACAGCATGGATATGGACACA  | siRNA analysis |
| KKO-597  | cen siRNA L | TGGCAGATATTGCAAGTTGTTTA  | siRNA analysis |
| KKO-623  | cen siRNA-1 | CCTTAATTAAAAACGACCAATATG  | siRNA analysis |
| KKO-624  | cen siRNA-2 | CTGCGGTTCACCCTTAACATC  | siRNA analysis |
| KKO-625  | cen siRNA-3 | CAACTGCGGATGGAAAAAGT  | siRNA analysis |
| KKO-626  | cen siRNA-4 | CTCTATATATCAGATATAAAGATGCG  | siRNA analysis |
| KKO-627  | cen siRNA-5 | GTTTTGAAGTAGACATTCCGCACAA  | siRNA analysis |
| KKO-628  | cen siRNA-6 | CTGAGCACAAGAGACATGGTGTACTAGA  | siRNA analysis |
| KKO-629  | cen siRNA-7 | GTACATTTTTGCAGGACAACCAG  | siRNA analysis |
| KKO-630  | cen siRNA-8 | CAACAACAGTCTTGGATTTATTTAG  | siRNA analysis |
| EOO-529 | cenH dh Rv | GCTAAGATCGATTGGTGACG | ChIP |
| EOO-530 | cenH dh Fw | AAGTTCACTGTTCTTATACACTGG | ChIP |
| EOO-219 | adh1 promoter Fw | TCTCATTGGTCTTCCGCTCC | ChIP-qPCR time course analysis |
| EOO-220 | adh1 promoter Rv | AAGAAAAGCGAAGGCACCTG | ChIP-qPCR time course analysis |