Table S3. 5’-amino-modified microarray oligonucleotides. Out of the 274 microarray oligonucleotides, 96 oligonucleotides target their corresponding padlock probe and 16S rRNA gene in parallel, 1 oligonucleotide (‘Bsrev’) targets the hybridization control and the remaining 177 oligonucleotides target only the rRNA genes for species identification.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Sequence 5'-3' | Targeted padlock probe | Length (bp) |
| Bsrev | TTTTTTTTTTTTAAAACGACGGCCAGTGAGC | Hybridization control | 21 |
| ecl6 | TTTTTTTTTTCTACAAGACTCCAGCCTGCCA | PL ACT1 Pos.384 | 21 |
| ecl7 | TTTTTTTTTTTACCCCCCTCTACAAGACTCCA | PL ACT1 Pos.7 | 22 |
| efa2 | TTTTTTTTTTCATCCATCAGCGACACCCGA | PL ACT1 Pos.852 | 20 |
| efa3 | TTTTTTTTTTACTTCGCAACTCGTTGTACTTCCC | PL CMY1 Pos.237 | 24 |
| ena4 | TTTTTTTTTTTCTGCGAGTAACGTCAATCGCC | PL CMY1 Pos.621 | 22 |
| kpn1 | TTTTTTTTTTGCTCTCTGTGCTACCGCTCG | PL CMY1 Pos.985 | 20 |
| kpn2 | TTTTTTTTTTGCATGAGGCCCGAAGGTC | PL CMY2 Pos.1057 | 18 |
| klo1 | TTTTTTTTTTTCGTCACCCGAGAGCAAGC | PL CMY2 Pos.146 | 19 |
| klo2 | TTTTTTTTTTCCAGCCTGCCAGTTTCGAATG | PL CMY2 Pos.424 | 21 |
| mom2 | TTTTTTTTTTGCCATCAGGCAGATCCCCATAC | PL CTX-M1 Pos.429 | 22 |
| mom3 | TTTTTTTTTTCTTGACACCTTCCTCCCGACT | PL CTX-M1 Pos.45 | 21 |
| mom4 | TTTTTTTTTTCATCTGACTCAATCAACCGCCTG | PL CTX-M1 Pos.682 | 23 |
| pmi3 | TTTTTTTTTTGTCAGCCTTTACCCCACCTACTAG | PL CTX-M2 Pos.36 | 24 |
| pmi5 | TTTTTTTTTTCCAACCAGTTTCAGATGCAATTCCC | PL CTX-M2 Pos.469 | 25 |
| psa6 | TTTTTTTTTTCGTGGTAACCGTCCCCCTTG | PL CTX-M2 Pos.779 | 20 |
| pvu2 | TTTTTTTTTTCTGCTTTGGTCCGTAGACGTCA | PL CTX-M25 Pos.40 | 22 |
| sem1 | TTTTTTTTTTCTCCCCTGTGCTACCGCTC | PL CTX-M25 Pos.469 | 19 |
| sem2 | TTTTTTTTTTCACCACCTTCCTCCTCGCTG | PL CTX-M25 Pos.722 | 20 |
| sma3 | TTTTTTTTTTTGGGATTGGCTTACCGTCGC | PL CTX-M3 SNP243 | 20 |
| spn1 | TTTTTTTTTTCTCCTCCTTCAGCGTTCTACTTGC | PL CTX-M8 Pos.40 | 24 |
| spn3 | TTTTTTTTTTGGTCCATCTGGTAGTGATGCAAGTG | PL CTX-M8 Pos.468 | 25 |
| spy2 | TTTTTTTTTTCTGGTTAGTTACCGTCACTTGGTGG | PL CTX-M8 Pos.813 | 25 |
| cal1 | TTTTTTTTTTGGCCAAGGCTTATACTCGCTGG | PL CTX-M9 Pos.496 | 22 |
| cgl1 | TTTTTTTTTTCCGCCAAGCCACAAGGACT | PL CTX-M9 Pos.731 | 19 |
| cpa1 | TTTTTTTTTTTCCTGGTTCGCCAAAAAGGCTA | PL CTX-M9 Pos.76 | 22 |
| efa51 | TTTTTTTTTTCTCCGGTGGAAAAAGAAGCGT | PL DHA1 Pos.1029 | 21 |
| efa52 | TTTTTTTTTTCTCTTTTTCCGGTGGAGCAAG | PL DHA1 Pos.359 | 21 |
| sta2 | TTTTTTTTTTCAGTCAACCTAGAGTGCCCAACT | PL DHA1 Pos.90 | 23 |
| sta4 | TTTTTTTTTTATGGGATTTGCATGACCTCGCG | PL FOX1 Pos.230 | 22 |
| sar1 | TTTTTTTTTTCCGTCTTTCACTTTTGAACCATGC | PL FOX1 Pos.825 | 24 |
| sep2 | TTTTTTTTTTGGGTCAGAGGATGTCAAGATTTGG | PL FOX1 Pos.988 | 24 |
| sep3 | TTTTTTTTTTATCTCTAGAGGGGTCAGAGGATGT | PL GES1 Pos.447 | 24 |
| efc1 | TTTTTTTTTTCCACTCCTCTTTCCAATTGAGTGCA | PL GES1 Pos.50 | 25 |
| efc2 | TTTTTTTTTTGCCATGCGGCATAAACTGTTATGC | PL GES1 Pos.609 | 24 |
| efc3 | TTTTTTTTTTCCCGAAAGCGCCTTTCACTCTT | PL IMI1 Pos.4 | 22 |
| efc4 | TTTTTTTTTTGGACGTTCAGTTACTAACGTCCTTG | PL IMI1 Pos.448 | 25 |
| bsu2 | TTTTTTTTTTAACCATGCGGTTCAAACAACCATCC | PL IMI1 Pos.790 | 25 |
| bsu4 | TTTTTTTTTTCCCGAAGGGGACGTCCTATCTCTA | PL IMP1 Pos.38 | 24 |

**Table S3** continued

|  |  |  |  |
| --- | --- | --- | --- |
| smi1 | TTTTTTTTTTCGTTCGCAACTCATCCGGAGAAG | PL IMP1 Pos.387 | 23 |
| smu1 | TTTTTTTTTTACCCGTTCGCGACTCAAGAAAACAC | PL IMP1 Pos.619 | 25 |
| smu3 | TTTTTTTTTTTCCAGACTTTCCTGACCGCCTG | PL IMP24 Pos.22 | 22 |
| ssa2 | TTTTTTTTTTAGCATACTATGGTTAAGCCACAGCC | PL IMP24 Pos.519 | 25 |
| sca1 | TTTTTTTTTTGCTCCTCGTCTGTTCGCTCGACT | PL IMP24 Pos.657 | 23 |
| sap3 | TTTTTTTTTTGTCGTACTCCCCCAGGCGGAG | PL KPC1 Pos.270 | 21 |
| sau1 | TTTTTTTTTTACTTATAGATGGATCCGCGCTGCAT | PL KPC1 Pos.794 | 25 |
| buc1 | TTTTTTTTTTCCCGCTTTCATCCGTGGATCGTAT | PL KPC1 Pos.94 | 24 |
| buc2 | TTTTTTTTTTAATCAGCCATCGGCCAACCCTA | PL MIR1 Pos.1109 | 22 |
| pbu2 | TTTTTTTTTTCAGTTCGCGCCGCAGGG | PL MIR1 Pos.147 | 17 |
| pbu1 | TTTTTTTTTTCCGACGGATCTTTGCTCCTCGT | PL MIR1 Pos.41 | 22 |
| pbu3 | TTTTTTTTTTCCAGACCGTACGGGCCG | PL NDM1 Pos.123 | 17 |
| pin3 | TTTTTTTTTTGTAACACTCCCGTACGCTGCCTT | PL NDM1 Pos.563 | 23 |
| pin1 | TTTTTTTTTTCATCCCCATCCTCCACCGATGA | PL NDM1 Pos.724 | 22 |
| pme1 | TTTTTTTTTTTCGGCAGGTTATCCCACAGTAATGG | PL OXA1 Pos.295 | 25 |
| hin3 | TTTTTTTTTTCGCCAGAGTTAAACCCCAACCCC | PL OXA1 Pos.540 | 23 |
| hin1 | TTTTTTTTTTCAGTCCCGCACTTTCATCTTCCG | PL OXA1 Pos.852 | 23 |
| nme3 | TTTTTTTTTTTCTACCTCCCTCTGACACACTCGA | PL OXA2 Pos.184 | 24 |
| esa3 | TTTTTTTTTTAGAGTTCCCGAAGGCACTCCC | PL OXA2 Pos.656 | 21 |
| esa1 | TTTTTTTTTTGCCACTCGTCAGCAGAGCA | PL OXA23 Pos.377 | 19 |
| pag3 | TTTTTTTTTTCACTTTGTGAGGTCCGCTTGCT | PL OXA23 Pos.705 | 22 |
| pag1 | TTTTTTTTTTCGATAGTGAGAGGCCCGAAGGTC | PL OXA23 Pos.9 | 23 |
| yen1 | TTTTTTTTTTCACATCCGATGGCGTGAGGC | PL OXA24 Pos.3 | 20 |
| pmi11 | TTTTTTTTTTCGATAGTGCAAGGTCCGAAGAGCC | PL OXA24 Pos.345 | 24 |
| sen2 | TTTTTTTTTTCAAGGGCACAACCTCCAAGTAGACA | PL OXA24 Pos.752 | 25 |
| sen1 | TTTTTTTTTTAAGACTCAAGCCTGCCAGTTTCGAA | PL OXA48 Pos.175 | 25 |
| kpn11 | TTTTTTTTTTCCTCCCCGCTGAAAGTGCT | PL OXA48 Pos.448 | 19 |
| sma11 | TTTTTTTTTTTCCACTGCAGTTCCCAGGTTGA | PL OXA48 Pos.705 | 22 |
| calx1 | TTTTTTTTTTATCAAAAAGATGGACCGGCCAGC | PL OXA51 Pos.439 | 23 |
| calx3 | TTTTTTTTTTAGGCTTATACTCGCTGGCTCCG | PL OXA51 Pos.68 | 22 |
| cpax2 | TTTTTTTTTTATCAAAAAAGATGGACCGGCCAGC | PL OXA51 Pos.712 | 24 |
| ctrx1 | TTTTTTTTTTCAGAAAGATGGACCGGCCAACC | PL OXA58 Pos.21 | 22 |
| ctrx2 | TTTTTTTTTTGGTTGGGTCCAGTACGCATCAGA | PL OXA58 Pos.692 | 23 |
| cglx2 | TTTTTTTTTTCAAGCCACAAGGACTTGGGGTT | PL OXA58 Pos.788 | 22 |
| cglx1 | TTTTTTTTTTCCGGGTGCATTCCAGTACACGAA | PL PER1 Pos.22 | 23 |
| iorx2 | TTTTTTTTTTTCCTGGTTCGCCCGAGGG | PL PER1 Pos.322 | 18 |
| iorx1 | TTTTTTTTTTGTGCTTACCATAGGTAGACCGTCCG | PL PER1 Pos.734 | 25 |
| aspx1 | TTTTTTTTTTTCATAGAAACACCGCCCGATCCC | PL RTG4 Pos.151 | 23 |
| aspx2 | TTTTTTTTTTGCCGAGCGGGTCATCATAGAAACAC | PL RTG4 Pos.497 | 25 |
| anix1 | TTTTTTTTTTCCAGTGAAGGCCATGAGATTCCC | PL RTG4 Pos.51 | 23 |
| fnex2 | TTTTTTTTTTGCATACAGGACCACCAGGAGGT | PL SFO1 Pos.25 | 22 |
| fnex1 | TTTTTTTTTTCAAGACAGTGCACTCCGTGAGGA | PL SFO1 Pos.587 | 23 |
| aac2 | TTTTTTTTTTCCCAAATCGACACCGTTTACAGCGT | PL SFO1 Pos.855 | 25 |
| aac1 | TTTTTTTTTTGCTAGCGATCGTCGGCTTGGTAG | PL SHV1 Pos.12 | 23 |
| bor1 | TTTTTTTTTTCAATAGTGCGAGGCCCGAAGGT | PL SHV1 Pos.261 | 22 |
| bru1 | TTTTTTTTTTCGCCACCGAAGTGTAAACACCC | PL SHV1 Pos.734 | 22 |
| bru2 | TTTTTTTTTTTGTCTCCACTAACCGCGACCG | PL SME1 Pos.11 | 21 |

**Table S3** continued

|  |  |  |  |
| --- | --- | --- | --- |
| fra1 | TTTTTTTTTTAGGCTTTCCTCCCCAACTAAAGTGC | PL SME1 Pos.531 | 25 |
| myc2 | TTTTTTTTTTGGCACGGATCCCAAGGAAGGAA | PL SME1 Pos.726 | 22 |
| myc1 | TTTTTTTTTTCACGAACAACGCGACAAACCACC | PL TEM1 Pos.457 | 23 |
| twh2 | TTTTTTTTTTCGACACGGAAGCGGTGGAACC | PL TEM1 Pos.46 | 21 |
| twh1 | TTTTTTTTTTTCCACCCACAGAGGATGCCCT | PL TEM1 Pos.631 | 21 |
| myc2 | TTTTTTTTTTCCGGATAACGCTTGCGACCTATGT | PL VEB1 Pos.203 | 24 |
| mfl1 | TTTTTTTTTTCACCCGTCATGCGACAGGC | PL VEB1 Pos.851 | 19 |
| ckru1 | TTTTTTTTTTAACACTCGCTCTCGGCCGCCAAG | PL VIM1 Pos.430 | 23 |
| afum1 | TTTTTTTTTTAATAAAGTTGGGTGTCGGCTGGCGC | PL VIM1 Pos.743 | 25 |
| anig1 | TTTTTTTTTTGCGCCGGCCAATCCTACAGAGCAT | PL VIM2 Pos.432 | 24 |
| afum2 | TTTTTTTTTTCCGTGCTTGAGGGCAGCAATGA | PL VIM2 Pos.687 | 22 |
| aba1 | TTTTTTTTTTCAAGCTACCTTCCCCCGCT | rRNA gene | 19 |
| aba2 | TTTTTTTTTTGTAACGTCCACTATCTCTAGGTATTAACTAAAGTAG | rRNA gene | 36 |
| aba4 | TTTTTTTTTTGCAGTATCCTTAAAGTTCCCATCCGAAAT | rRNA gene | 29 |
| ajo2 | TTTTTTTTTTTCCCAGTATCGAATGCAATTCCTAAGTT | rRNA gene | 28 |
| ajo3 | TTTTTTTTTTGAAAGTTCTTACTATGTCAAGACCAGGTAAG | rRNA gene | 31 |
| ajo4 | TTTTTTTTTTCTTAACCCGCTGGCAAATAAGGAAAA | rRNA gene | 26 |
| alw1 | TTTTTTTTTTGAGATGTTGTCCCCCACTAATAGGC | rRNA gene | 25 |
| alw2 | TTTTTTTTTTTGACTTAATTGGCCACCTACGCG | rRNA gene | 23 |
| alw3 | TTTTTTTTTTCCCATACTCTAGCCAACCAGTATCG | rRNA gene | 25 |
| ara1 | TTTTTTTTTTCGCTGAATCCAGTAGCAAGCTAC | rRNA gene | 23 |
| ara2 | TTTTTTTTTTGTCCACTATCCTAAAGTATTAATCTAGGTAGCCT | rRNA gene | 34 |
| ara3 | TTTTTTTTTTCCGAAGTGCTGGCAAATAAGGAAA | rRNA gene | 24 |
| cif1 | TTTTTTTTTTGCTCCTCTGCTACCGTTCG | rRNA gene | 19 |
| cif2 | TTTTTTTTTTCCACAACGCCTTCCTCCTCG | rRNA gene | 20 |
| cif3 | TTTTTTTTTTTCTGCGAGTAACGTCAATCGCTG | rRNA gene | 23 |
| cik1 | TTTTTTTTTTCGGGTAACGTCAATTGCTGTGG | rRNA gene | 22 |
| cik2 | TTTTTTTTTTCGAGACTCAAGCCTGCCAGTAT | rRNA gene | 22 |
| ecl4 | TTTTTTTTTTGCGGGTAACGTCAATTGCTGC | rRNA gene | 21 |
| efa1 | TTTTTTTTTTCAAGCTCCGGTGGAAAAAGAAGC | rRNA gene | 23 |
| ena2 | TTTTTTTTTTGGTTATTAACCTTAACGCCTTCCTCCT | rRNA gene | 27 |
| ena3 | TTTTTTTTTTCAATCGCCAAGGTTATTAACCTTAACGC | rRNA gene | 28 |
| pmi4 | TTTTTTTTTTGGGTATTAACCTTATCACCTTCCTCCC | rRNA gene | 27 |
| pmi6 | TTTTTTTTTTGTTCAAGACCACAACCTCTAAATCGAC | rRNA gene | 27 |
| psa4 | TTTTTTTTTTGATTTCACATCCAACTTGCTGAACCA | rRNA gene | 26 |
| psa5 | TTTTTTTTTTTCTCCTTAGAGTGCCCACCCG | rRNA gene | 21 |
| pvu4 | TTTTTTTTTTTTCCCGAAGGCACTCCTCTATCTCTA | rRNA gene | 26 |
| sem3 | TTTTTTTTTTGAGTAACGTCAATTGATGAGCGTATTAAGC | rRNA gene | 30 |
| sma1 | TTTTTTTTTTAGCTGCCTTCGCCATGGATGTTC | rRNA gene | 23 |
| spn5 | TTTTTTTTTTTCTTGCACTCAAGTTAAACAGTTTCCAAAG | rRNA gene | 30 |
| spy1 | TTTTTTTTTTATTACTAACATGCGTTAGTCTCTCTTATGCG | rRNA gene | 31 |
| spy3 | TTTTTTTTTTTTCTCCAGTTTCCAAAGCGTACATTG | rRNA gene | 26 |
| efa42 | TTTTTTTTTTCCGTCAAGGGATGAACAGTTACTCTCATCCTTGTTCTTC | rRNA gene | 39 |
| efa43 | TTTTTTTTTTATTAGCTTAGCCTCGCGACTTCGCAACTCGTTGTACTTC | rRNA gene | 39 |
| sta1 | TTTTTTTTTTCTCTATCTCTAGAGCGGTCAAAGGAT | rRNA gene | 26 |
| sta3 | TTTTTTTTTTAGCTGCCCTTTGTATTGTCCATT | rRNA gene | 23 |
| sar2 | TTTTTTTTTTAGCTAATGCAGCGCGGATC | rRNA gene | 19 |

**Table S3** continued

|  |  |  |  |
| --- | --- | --- | --- |
| sar3 | TTTTTTTTTTTGCACAGTTACTTACACATATGTTCTT | rRNA gene | 27 |
| sep1 | TTTTTTTTTTAAGGGGAAAACTCTATCTCTAGAGGG | rRNA gene | 26 |
| eco2 | TTTTTTTTTTGTAACGTCAATGAGCAAAGGTATTAACTTTACTCCCTTCC | rRNA gene | 40 |
| eco3 | TTTTTTTTTTCCGAAGGCACATTCTCATCTCTGAAAACTTCCGTGGATG | rRNA gene | 39 |
| bsu7 | TTTTTTTTTTTGCACTCAAGTTCCCCAGTTTCCAATGA | rRNA gene | 28 |
| bat1 | TTTTTTTTTTCTATTTGAACGGCACTTGTTCTTCCCTAACA | rRNA gene | 31 |
| bat2 | TTTTTTTTTTCCCTATTTGAACGGCACTTGTTCTTCCC | rRNA gene | 28 |
| cko5 | TTTTTTTTTTACTCAAGCCTGCCAGTATCAGATGCA | rRNA gene | 26 |
| cfr5 | TTTTTTTTTTCAGTTTCGGATGCAGTTCCCAGGTTG | rRNA gene | 26 |
| cpe3 | TTTTTTTTTTTCCTCGATTAAGAGTAATGCAAGGGATGTCA | rRNA gene | 31 |
| cpe1 | TTTTTTTTTTTGCTCCTTTGGTTGAATGATGATGCCATCTTTC | rRNA gene | 33 |
| cpe2 | TTTTTTTTTTACCGTCATTATCTTCCCCAAAGACAGAGC | rRNA gene | 29 |
| cdi2 | TTTTTTTTTTGTCCATCCTGTACTGGCTCACCTTTGAT | rRNA gene | 28 |
| cdi3 | TTTTTTTTTTTCCGATTAAGGAGATGTCATTGGGATGTCA | rRNA gene | 30 |
| cdi1 | TTTTTTTTTTTGCCTCTCAAATATATTATCCCGTATTAGCATACCT | rRNA gene | 36 |
| lmo1 | TTTTTTTTTTGCCGAAACCATCTTTCAAAAGCGTGG | rRNA gene | 26 |
| lmo3 | TTTTTTTTTTCTTCGCGACCCTTTGTACTATCCATTGTAG | rRNA gene | 30 |
| lmo2 | TTTTTTTTTTTGGTTAGATACCGTCAAGGGACAAGCAG | rRNA gene | 28 |
| sag2 | TTTTTTTTTTTCCACTCCTACCAACGTTCTTCTCTAACA | rRNA gene | 29 |
| sag1 | TTTTTTTTTTCCGTTCGCAACTCATCAGTCTAGTGTAAAC | rRNA gene | 30 |
| sag3 | TTTTTTTTTTTCACTTCTGCTCCGAAGAGAAAGCCTAT | rRNA gene | 28 |
| sdy3 | TTTTTTTTTTCGAAGGGAAAGCCTATCTCTAGACCGG | rRNA gene | 27 |
| sdy1 | TTTTTTTTTTTCTGGTTAGTTACCGTCACATGGTGGATT | rRNA gene | 29 |
| sdy2 | TTTTTTTTTTCTCCAGTTTCCAAAGCGTACAATGGTTGA | rRNA gene | 29 |
| smi2 | TTTTTTTTTTCTGGTAGTGATGCAATTGCACCTTTTAAGC | rRNA gene | 30 |
| smi3 | TTTTTTTTTTTTCTGGTAAGATACCGTCACAGTGTGAACT | rRNA gene | 30 |
| smu2 | TTTTTTTTTTTGCGCTTGCATCTTTCAATCAATTATCATGCA | rRNA gene | 32 |
| ssa3 | TTTTTTTTTTACTCAAGTTAAACAGTTTCCAAAGCATACT | rRNA gene | 30 |
| ssa1 | TTTTTTTTTTCCATCTGGTAGTGATGCAATTGCATCTTTCAATT | rRNA gene | 34 |
| sca2 | TTTTTTTTTTCGCTAACGTCAGAGGAGCAAGCTC | rRNA gene | 24 |
| sha1 | TTTTTTTTTTAGTGATAGCAAAACCATCTTTCACTATCGAACCA | rRNA gene | 34 |
| sha2 | TTTTTTTTTTACACGTATGTTCTTCCCTAATAACAGAGTTTTACGA | rRNA gene | 36 |
| sha3 | TTTTTTTTTTTCAAGACGTGCATAGTTACTTACACGTATGTTCTTC | rRNA gene | 36 |
| sho1 | TTTTTTTTTTGAAGTTATCCCAGTCTTATAGGTAGGTTACCTACGT | rRNA gene | 36 |
| sho3 | TTTTTTTTTTGCAGGTCCATCTATAAGTGATAGCAGAGCC | rRNA gene | 30 |
| sho2 | TTTTTTTTTTATGCGGTTCAACATATTATCCGGTATTAGCTCC | rRNA gene | 33 |
| slu2 | TTTTTTTTTTACGTTTGTTCTTCCCTAATAACAGAGTTTTACGATCCTAAGA | rRNA gene | 42 |
| slu1 | TTTTTTTTTTAGTGATAGCAAAACCATCTTTCACTATTGAACCA | rRNA gene | 34 |
| sap1 | TTTTTTTTTTTGCGGTTCYAAATGTTATCCGGTATTAGCTCC | rRNA gene | 32 |
| swa1 | TTTTTTTTTTACAGCAAAGCCGCCTTTCACTATTGA | rRNA gene | 26 |
| swa2 | TTTTTTTTTTGATCAGGTACCGTCAAGATGTGCACA | rRNA gene | 26 |
| sxy1 | TTTTTTTTTTGCGGTTCTAAATGTTATCCGGTATTAGCTCC | rRNA gene | 31 |
| sxy3 | TTTTTTTTTTCCTAATAACAGAGTTTTACGAGCCGAAACCC | rRNA gene | 31 |
| sxy2 | TTTTTTTTTTTCACTTTAGAACCATGCGGTTCCAAATGT | rRNA gene | 29 |
| sau2 | TTTTTTTTTTATGTGCACAGTTACTTACACATATGTTCTTCCCTAAT | rRNA gene | 37 |
| ste1 | TTTTTTTTTTAAGTGACAGCAAAACCGTCTTTCACTATTGA | rRNA gene | 31 |
| ste3 | TTTTTTTTTTCTATCTCTAGAGGGGTCAGAGGATGTCAAGA | rRNA gene | 31 |

**Table S3** continued

|  |  |  |  |
| --- | --- | --- | --- |
| ste2 | TTTTTTTTTTTGATTAGGTACCGTCAAGACGTGCATAGT | rRNA gene | 29 |
| bce2 | TTTTTTTTTTACTGAATGATGGCAACTAAGATCAAGGGTT | rRNA gene | 30 |
| bce1 | TTTTTTTTTTAGGTGCCAGCTTATTCAACTAGCACT | rRNA gene | 26 |
| buc3 | TTTTTTTTTTGGGGATTTCACATCGGTCTTAGCAAACC | rRNA gene | 28 |
| pin2 | TTTTTTTTTTTACTCCCCAACAAAAGCAGTTTACAACCC | rRNA gene | 29 |
| pme2 | TTTTTTTTTTATCCATTACCGATAAATCTTTACTTCAAATCTGATGCCG | rRNA gene | 39 |
| pme3 | TTTTTTTTTTTGAGCGTCTACATTTCACAACACACTTAATCTC | rRNA gene | 33 |
| hin2 | TTTTTTTTTTCGGTGCTTCTTCTGTATTTAACGTCAATTTGATGT | rRNA gene | 35 |
| nme1 | TTTTTTTTTTCGATCAGTTATCCCCCACTACTCGGT | rRNA gene | 26 |
| nme2 | TTTTTTTTTTATTAGCAACAGCCTTTTCTTCCCTGACA | rRNA gene | 28 |
| bfr2 | TTTTTTTTTTACATACAAAACAGTATACATACTGCACTTTATTCT | rRNA gene | 35 |
| bfr3 | TTTTTTTTTTTTCCACATCATTCCACTGCAATTTAAGCCC | rRNA gene | 30 |
| bfr1 | TTTTTTTTTTACCTCACCAACAACCTAATGGAACGC | rRNA gene | 26 |
| cje1 | TTTTTTTTTTACACCGAAAAACTTTCCCTACTCAACTTGT | rRNA gene | 30 |
| cje2 | TTTTTTTTTTCCCAACAACTAGTGTACATCGTTTAGGGC | rRNA gene | 29 |
| cje3 | TTTTTTTTTTAGCACCCTCTTATCTCTAAAAGGTTCTTAGGA | rRNA gene | 32 |
| cam1 | TTTTTTTTTTTCAAGGGCACAACCTCCAAATAGACA | rRNA gene | 26 |
| cam2 | TTTTTTTTTTCTGCCAAGTTCTGTGGATGTCAAGACC | rRNA gene | 27 |
| esa2 | TTTTTTTTTTGCAGGATTCTCTGGATGTCAAGACCA | rRNA gene | 26 |
| pag2 | TTTTTTTTTTGCCATTACCCCGCCTACTAGCT | rRNA gene | 22 |
| yen3 | TTTTTTTTTTACAGACTTTATGTGGTCCGCTTGCTC | rRNA gene | 26 |
| yen2 | TTTTTTTTTTTGCTTCTTCTGCGAGTAACGTCAATCCA | rRNA gene | 28 |
| yps2 | TTTTTTTTTTGCGTATTAAACTCAACCCCTTCCTCCT | rRNA gene | 27 |
| yps1 | TTTTTTTTTTCCCTAAGGTCCCCCACTTTGCT | rRNA gene | 22 |
| aca2 | TTTTTTTTTTGCACCTCAGCGTCAGTGTTAGGC | rRNA gene | 23 |
| aca1 | TTTTTTTTTTTCTCCCACACTCTAGCTAACCAGTATCG | rRNA gene | 28 |
| aca3 | TTTTTTTTTTGGAAAGTTCTTACTATGTCAAGGCCAGGT | rRNA gene | 29 |
| eik2 | TTTTTTTTTTATTTCACATCCTGCTTAAATAACCGTCTGCG | rRNA gene | 31 |
| eik3 | TTTTTTTTTTACTCTAGCTATCCAGTTCAGAACGCAGT | rRNA gene | 28 |
| eik1 | TTTTTTTTTTACCCCACCAACTAGCTAATCAGTTATCG | rRNA gene | 28 |
| pmi12 | TTTTTTTTTTAGGGTATTAACCTTATCACCTTCCTCCCC | rRNA gene | 29 |
| pvu11 | TTTTTTTTTTCGTAGACGTCATGCGGTATTAGCYACC | rRNA gene | 27 |
| pvu12 | TTTTTTTTTTCATATGGGTTCATCCGATAGCGCAAG | rRNA gene | 26 |
| aba12 | TTTTTTTTTTTCCTCTCCCATACTCTAGCTCACCA | rRNA gene | 25 |
| aba11 | TTTTTTTTTTACATCCGACTTAATAAGCCGCCTACG | rRNA gene | 26 |
| eco11 | TTTTTTTTTTAGACTCAAGCTTGCCAGTATCAGATGCA | rRNA gene | 28 |
| psa11 | TTTTTTTTTTCCCACTTTCTCCCTCAGGACGT | rRNA gene | 22 |
| calx2 | TTTTTTTTTTTCAAAGTAAAAGTCCTGGTTCGCCATAAATGG | rRNA gene | 32 |
| cpax3 | TTTTTTTTTTGCTGGGTCCAGTACGCATCAAAAAAGAT | rRNA gene | 28 |
| cpax4 | TTTTTTTTTTAGTAAAAGTCCTGGTTCGCCAAAAAGG | rRNA gene | 27 |
| car2 | TTTTTTTTTTGTCAGTATCGACCCAGAAAGCTGCC | rRNA gene | 25 |
| car1 | TTTTTTTTTTTCACTGCTACACTGGAAATTCCGCTTT | rRNA gene | 27 |
| eik2 | TTTTTTTTTTGCTATCCAGTTCAGAACGCAGTTCCC | rRNA gene | 26 |
| eik1 | TTTTTTTTTTCAACTAGCTAATCAGTTATCGGCCGCT | rRNA gene | 27 |
| kin1 | TTTTTTTTTTTCTTCCCTAACAAAAGTCCTTTACAACCCGA | rRNA gene | 31 |
| kin2 | TTTTTTTTTTGGTGCTTATTCTTTAGGTACCGTCATCAGTTAATGA | rRNA gene | 36 |
| bor2 | TTTTTTTTTTGCTTATTCTGCAGGTACCGTCAGTTGC | rRNA gene | 27 |

**Table S3** continued

|  |  |  |  |
| --- | --- | --- | --- |
| bar1 | TTTTTTTTTTGGGATTTCACCTCTGACTTAAATATCCGCCTAC | rRNA gene | 33 |
| bar2 | TTTTTTTTTTATTTTACCTCTACACTCGGAATTCCACTCACC | rRNA gene | 32 |
| fra2 | TTTTTTTTTTCGCTACACCAGAAATTCCCCATTCCT | rRNA gene | 26 |
| cbu1 | TTTTTTTTTTACGTCAACGCCCAAGGATATTACCCT | rRNA gene | 26 |
| cbu2 | TTTTTTTTTTCAGGGCTTTCACATCCGACTTAAATATCCAC | rRNA gene | 31 |
| myc1 | TTTTTTTTTTGCTCCATCAAGCTTTCGCTCATTGTG | rRNA gene | 26 |