Primers used in rDNA engineering part

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| Primer | Sequence | Description |
| GHO351 | GAGTAACTTTGAAGAAGAGATTTGGTTTGGTACCAGGCCAACGTACGCTGCAGGTCGAC | PCR amplify NOP10-EFGP cassette |
| GHO352 | TCACGTACTATACAATATTCCCTTAAACTACCCAAATCTAATCGATGAATTCGAGCTCG |
| GHO537 | CTAGCGTCGACATGGTGAGCAAGGGCGAG | Clone mCherry into *pYM28* |
| GHO538 | cgatcGGATCCTTACTTGTACAGCTCGTC |
| GHO539 | GATTCAATACAGAATGCCAAGGGAAACGTACAGCACTTTAATTAATATAGACGTCTCTCTACGTACGCTGCAGGTCGAC | PCR amplify NIC96-mCherry cassette |
| GHO540 | AGTATGCGCGCATACTGATATATAGATATAAACAAAAATATACAATATTTAAAAAAATCAATCGATGAATTCGAGCTCG |
| GHO551 | CATCTTGAAGATCTACTAACTGTGGGAATAC | Clone LEU into *pGH148* |
| GHO552 | CGATCGAGCTCCAAGAAGGTATTGACTTAAAC |
| GHO553 | cgatggtctcaCGCGatataattccacttgc | Clone LYS into *pYM42* |
| GHO554 | cgatGAATTCgcaccatatagcttcgcaag |
| GHO15 | CCGGGAAACGCATATGAATAAT | Left junction verify primer for rDNA expansion cassette insertion of RND loci |
| GHO374 | CTTCGGCTGTGATTTCTTGAC |
| GHO10 | ATTTCGCCAGGAGAGTTTGG | Right junction verify primer for rDNA expansion cassette insertion of RND loci |
| GHO556 | GTTTTTACCCGGATCATAGA |
| GHO49 | CGAAGATAAATCATGTCGAAAGC | PCR primers for verifying *pRDN-WT* loss after rDNA expansion |
| GHO50 | TTGTCATCTAAACCCACACCG |
| GHO260 | cagtCGTCTCGAGcCGTAACAAGGTTTCCGTAG | Hygromycin mutations in 18S rDNA |
| GHO261 | ctagcgtctctGgCTTTTAGTTCCTCTAAATG |
| GHO519 | GCGATCGCACTAGTGGCGTCTCGAAGAAATTTAATAATTTTGATATTGGATTTTTTTGTTTTGGCAAGAGC | ITS1-ITS2 of *S.bayanus* oligo1 |
| GHO520 | CCATCTCTTGTCTTCTTGCCCAGTAAAAGCTCTCACGCTCTTGCCAAAACAAAAAAATCCAATA | ITS1-ITS2 of *S.bayanus* oligo2 |
| GHO521 | GGGCAAGAAGACAAGAGATGGAGAGTCCAGCCGGGCCTGCGCTTAAGTGCGCGGTCTTGCTAG | ITS1-ITS2 of *S.bayanus* oligo3 |
| GHO522 | CAGAGAAGTCTCACTGTTTGGAATAGCAAGAAAGAAATTTGCAAGCCTAGCAAGACCGCGCACTTA | ITS1-ITS2 of *S.bayanus* oligo4 |
| GHO523 | TTCCAAACAGTGAGACTTCTCTGTTTTTGTTATAGGACAATTAAAACCGTTTCAATACAACACACTGTG | ITS1-ITS2 of *S.bayanus* oligo5 |
| GHO524 | CTCGAAGCCCAAAGAAAAAGTTGCAAAAGTATAAAAACTCCACAGTGTGTTGTATTGAAACGGTTT | ITS1-ITS2 of *S.bayanus* oligo6 |
| GHO525 | CAACTTTTTCTTTGGGCTTCGAGCAATCGAGCCCAGAGGTAACAAACACAAACAATTTTATTTATTCATTAAATTTTTG | ITS1-ITS2 of *S.bayanus* oligo7 |
| GHO526 | AATTATTTTTAAAATTTCCAGTTACGAAAATTCTTGTTTTTGACAAAAATTTAATGAATAAATAAAATTGTTTGTGTTT | ITS1-ITS2 of *S.bayanus* oligo8 |
| GHO527 | CAAGAATTTTCGTAACTGGAAATTTTAAAAATAATTAAAAACTTTCAACAACGGATCTCTTGGTTC | ITS1-ITS2 of *S.bayanus* oligo9 |
| GHO528 | TCACATTACGTATCGCATTTCGCTGCGTTCTTCATCGATGCGAGAACCAAGAGATCCGTTGTTGAA | ITS1-ITS2 of *S.bayanus* oligo10 |
| GHO529 | GCGAAATGCGATACGTAATGTGAATTGCAGAATTCCGTGAATCATCGAATCTTTGAACGCACATTGC | ITS1-ITS2 of *S.bayanus* oligo11 |
| GHO530 | GACGCTCAAACAGGCATGCCCCCTGGAATACCAAGGGGCGCAATGTGCGTTCAAAGATTCGAT | ITS1-ITS2 of *S.bayanus* oligo12 |
| GHO531 | GGCATGCCTGTTTGAGCGTCATTTCCTTCTCAAACATTCTGTTTGGTAGTGAGTGATACTCTCTGG | ITS1-ITS2 of *S.bayanus* oligo13 |
| GHO532 | CTTTGGAAAAAAAACATCCAATGAAAAGGCCAGCAATTTCAAGTTAACTCCAGAGAGTATCACTCACTACCA | ITS1-ITS2 of *S.bayanus* oligo14 |
| GHO533 | CCTTTTCATTGGATGTTTTTTTTCCAAAGAGAGGTTTCTCTGCGTGCTTGAGGTATAATGCAAGTAC | ITS1-ITS2 of *S.bayanus* oligo15 |
| GHO534 | GTACAAAAAAGATTAGCCGCAGTTGGTAAAACCTAAAACGACCGTACTTGCATTATACCTCAAGCAC | ITS1-ITS2 of *S.bayanus* oligo16 |
| GHO535 | CAACTGCGGCTAATCTTTTTTGTACTGAGCGTATTGAAACGTTATCGATAAGAAGAGAGCGTCTAG | ITS1-ITS2 of *S.bayanus* oligo17 |
| GHO536 | GTACGCCTGCAGGCGTCTCATTTAAGAACATTGTTCGCCTAGACGCTCTCTTCTTATCGATA | ITS1-ITS2 of *S.bayanus* oligo18 |
| GHO105 | GAATTTGGACAAACTTGGTCATTTAGAG | Primer pairs used for verification of strains with swaped ITS |
| GHO118 | TGAGCTTTTGCCGCTTCACTC |
| GHO513 | TCAGactagtggcgtctcgAAgaaaagttatatgaaaaggt | Clone *Sp*.ITS2-5.8S-ITS1 |
| GHO514 | TCAGCCTGCAGGCGTCTCATTTAaaaaaaggtactgtgaaaaaaaaat |
| GHO515 | TCAGactagtggcgtctcgAAGATTTGCTTAATTGCAC | Clone *Ca*.ITS2-5.8S-ITS1 |
| GHO516 | TCAGCCTGCAGGCGTCTCATTTAGTTTGAAGATATACGTGGT |