## Supplementary Table 21 - List of primers for amplifying NeoChr25 and NeoChr26 chromosome parts

|  |  |  |
| --- | --- | --- |
| Primer Number | Primer Name | Sequence (5’ to 3’) |
| 13395 | Telomerator\_l\_fw | AGGGTAATCACCCACCACAC |
| 16577 | BJ\_tel\_le \_RV | GGCGCACATGGTATATTATGATCGGAGATGCGGCAACATAGCTGGGTGTGATCCTCTCTACCAAAGCTGGAGCTCCACCG |
| 11536 | Chunk\_7B\_fw | TAGAGAGGATCACACCCAGCTATGTTGCCGCATCTCCGATCATAATATACCATGTGCGCCTGGGCGTCATTGTCCGGAGT |
| 11539 | Chunk\_7C\_rv | CAGCAAGTGCGTAGAGATCAGCATTATCTGACTGTGGATGATCCTACATCGTCATCAGAGCGCCGCTTCATAAGCGCCAA |
| 16578 | BL\_ARS1\_FW | CTCTGATGACGATGTAGGATCATCCACAGTCAGATAATGCTGATCTCTACGCACTTGCTGGGCCTTTTGAAAAGCAAGCATAAAAGATCTAAAC |
| 9989 | ARS1\_rv | ATACATCATGCACGCCTGAAAGCATCCCTGACGCGAGTATGACGCAGTTCACACATCTTACTTGTTATTTTACAGATTTTATGTTTAGATCTTTTATGCTTGCTTTTCAAAA |
| 16526 | AN\_pZWF1\_FW | TAAGATGTGTGAACTGCGTCATACTCGCGTCAGGGATGCTTTCAGGCGTGCATGATGTATGTCCGGGTGCATGCATGAA |
| 16527 | BP\_tZWF1\_RV | GAGATGACTGGGTCCACTCTTTCGTGTATTTCGAGAGAGCGATACGCATGTCTCCATCGTATATATTCAATTCATATTTTATCTCTTTTT |
| 16528 | BP\_pTKL1\_FW | ACGATGGAGACATGCGTATCGCTCTCTCGAAATACACGAAAGAGTGGACCCAGTCATCTCTAAGCGCTTTTTTTTTTTTT |
| 16529 | DE\_tTKL1\_RV | GCAGTAGCTTCCAGTACCTTCTCATACGTTATCACACTGGATATGCCATCGCGTCGAGGAATATTCTTTATTGGCTTTATACTTG |
| 16530 | DE\_pGND1\_FW | TCCTCGACGCGATGGCATATCCAGTGTGATAACGTATGAGAAGGTACTGGAAGCTACTGCTCACTTCCGCCGCAAACAATAC |
| 16531 | BQ\_tGND1\_RV | CAGATCAGTGTCAATGAAGGTAGGCTGCTTGGCAATGCTTCTGGTGACTGGTAGATCATCCTACTCTACTTCTATCATGATAATAGGCAC |
| 16532 | BQ\_tRKI1\_FW | GATGATCTACCAGTCACCAGAAGCATTGCCAAGCAGCCTACCTTCATTGACACTGATCTGCTTGGTGTGTCATCGGTAGTAACG |
| 16533 | BR\_pRKI1\_RV | AGCTGGCGTCGCGCATAAATGCATGATCTGTCCTGGCTGACACGCATCTGCACTAATGATTTGCGAACGCATTAAGTTGAG |
| 16534 | BR\_tTAL1\_FW | ATCATTAGTGCAGATGCGTGTCAGCCAGGACAGATCATGCATTTATGCGCGACGCCAGCTGACGTTGATTTAAGGTGGTTC |
| 16535 | AL\_pTAL1\_RV | GCGTCCTCTGTATTAAGATGTCATGGTGTTGAGTCTGCACATGCAATGGCAATGAGTCAGGAAAAGCTAGAAAAGGAATTAGAC |
| 13433 | Turquoise\_DS\_fw | ATCAAGACTGAGGAGTACGTCAGGTTGCAGAGGATCACTTGTAATGAATGTGTGCTCGCTGAACGTTGATAGGTCAAGATCAATG |
| 13432 | Turquoise\_AL\_rv | CTGACTCATTGCCATTGCATGTGCAGACTCAACACCATGACATCTTAATACAGAGGACGCCGTCTCATTGGCAGCATAAA |
| 16536 | DS\_tRPE1\_FW | AGCGAGCACACATTCATTACAAGTGATCCTCTGCAACCTGACGTACTCCTCAGTCTTGATAAATGGATATTGATCTAGATGGCGG |
| 16537 | DF\_pRPE1\_RV | GATGAACGTGCCTTCGATTTATAGAAACTGCGCTGCCCTGTGATGAATTGTCTTAGCGCGACCACTTGACAACGGTCTTG |
| 16538 | DF\_tSOL3\_FW | CGCGCTAAGACAATTCATCACAGGGCAGCGCAGTTTCTATAAATCGAAGGCACGTTCATCAGGATGCACTCTACAAATAC |
| 16539 | DI\_pSOL3\_RV | CGGGTCATTAGAGATAGTCTCTCAGGATTCAACTAGATGGTGATCTATTGTCTACGCGGCCTGACTGCAATAGGAAACTG |
| 16579 | DI\_ARS417\_FW | GCCGCGTAGACAATAGATCACCATCTAGTTGAATCCTGAGAGACTATCTCTAATGACCCGACAAGTCCTTAAGAATATACAAAAAGCTACATAAATATAA |
| 16580 | BE\_ARS417\_RV | TCAATCATTCGTTCTCGCAGATCTACAATCGTCCTGAGCTCTGTGAGTGATGTACGCTCCCTTACGCTCAATTCCTTTATTTTTTTATATTTATGTAGCTTTTT |
| 16540 | BE\_pHHF1\_FW | GGAGCGTACATCACTCACAGAGCTCAGGACGATTGTAGATCTGCGAGAACGAATGATTGATCTTGGGGCCTTACCACC |
| 16541 | DK\_tTEF1\_RV | CGCCGCTCTTAGAAGGCTATACGAGCTATGAGAGAGACTCGCTATCCATTCCGCTGAGTTGGTATCACCATAGATTTCGAAAC |
| 16542 | DK\_pHHF2\_FW | AACTCAGCGGAATGGATAGCGAGTCTCTCTCATAGCTCGTATAGCCTTCTAAGAGCGGCGTGTGGAGTGTTTGCTTGG |
| 16543 | AC\_tTEF2\_RV | GCTACATCTTCCGTACTATGCTGTAGTCTCATGGTCGAGTTCTATTGCTGTTCGGCGGCAAGGAAACGTAAATTACAAGG |
| 11365 | prCCW12\_mRuby\_tENO1\_fw | TGCCGCCGAACAGCAATAGAACTCGACCATGAGACTACAGCATAGTACGGAAGATGTAGCAACGCACCCATGAACCACAC |
| 11366 | prCCW12\_mRuby\_tENO1\_rv | CTCCACTGTACTGCATGTAGCATTCGCCGATCTGCATGATGTGTGACATTCTGCTATCGGGGCAGCATACATGGGTGACCAAA |
| 16544 | AD\_pRPL25\_FW | CCGATAGCAGAATGTCACACATCATGCAGATCGGCGAATGCTACATGCAGTACAGTGGAGAGGTATGTTAGTGCTAAAAG |
| 16545 | DM\_tGPH1\_RV | CGACAAAGTGCTCGTCACGTGCGTCAGCTTCGAGGCATATCAAGCACCTGCCGGATGATTAAACGTCAGTACATCCTACC |
| 16546 | DM\_pRPP0\_FW | AATCATCCGGCAGGTGCTTGATATGCCTCGAAGCTGACGCACGTGACGAGCACTTTGTCGTTCAACAATTCGTTATATATATGGTAGGCT |
| 16547 | DN\_tCYC1\_RV | CCTCCGCTGCGTAGAGTAATCCTGGCTCTCGCGTGTATATTGATAGATTGTCTGTCAGGCAAGCTTGTCCCAAAACCTTCTC |
| 16548 | DN\_pHTB2\_FW | GCCTGACAGACAATCTATCAATATACACGCGAGAGCCAGGATTACTCTACGCAGCGGAGGTATATATTAAATTTGCTCTTGTTCTG |
| 16549 | DO\_tPGM2\_RV | CAACCACCTGACTAGAGTGTCAAAGCGTGCTCCTACATAGGTAGAGTTGCATAATCTGGCAACTCGGGGTAGGTAATC |
| 16550 | DO\_pRPL3\_FW | GCCAGATTATGCAACTCTACCTATGTAGGAGCACGCTTTGACACTCTAGTCAGGTGGTTGAGAGTCTTGGAGATTTTCGACCTG |
| 16551 | DP\_tSOL4\_RV | ATTCAGCGGGTGATCCGACTTGACTACATTTAGGTGTGGCCTCCTTACTACTCTGAGATGAGTCATAGCATTAAGATTAACGCGTTG |
| 16552 | DP\_tGPD2\_FW | CATCTCAGAGTAGTAAGGAGGCCACACCTAAATGTAGTCAAGTCGGATCACCCGCTGAATTTAAGGGCTATAGATAACAG |
| 16553 | DQ\_pRPL8A\_RV | ATGCCGGTGGCCGAATCTATGGTCCACATTATTTGCTGCACAAGATAGTGCAGTAGCGTTAACGACATAAATAATTTCTATTAAC |
| 16554 | DQ\_tGDB1\_FW | AACGCTACTGCACTATCTTGTGCAGCAAATAATGTGGACCATAGATTCGGCCACCGGCATCAAATACGTACGTGGCAACCCTTTC |
| 16555 | DR\_pRPL10\_RV | ATCGACGGTCCTCGCAAGATCTCAATGTGCAGTGGTATGCTGATAACTTGTGCCTGTGGCTCACTTGTCTGTGTGTTTAACTGCC |
| 16556 | DR\_tGSY2\_FW | GCCACAGGCACAAGTTATCAGCATACCACTGCACATTGAGATCTTGCGAGGACCGTCGATGTATGACTATATGTTGATAACTG |
| 16557 | AJ\_pRPL18A\_RV | ACGCAATATCGGCCATCGTGCGAGTGTCTCAAACTATCTGTATGCAAATTCGTGCGTGTGAAGAGGATGTCCAATATTTTTTT |
| 16558 | AJ\_tGLC3\_FW | CACACGCACGAATTTGCATACAGATAGTTTGAGACACTCGCACGATGGCCGATATTGCGTTAGGTTAAACCTTGGAAGAG |
| 16559 | DH\_pCWP2\_RV | CGTGCCGGTTAATGAGCTATGCGTGTCATGTATCCTTAGGCATATCCTTAACACGCAGTGCTAATAGACAAGGTGCTATGAG |
| 13410 | Chunk\_15C\_fw | CACTGCGTGTTAAGGATATGCCTAAGGATACATGACACGCATAGCTCATTAACCGGCACGAACCGGCAGGTTATAGCTGATG |
| 13413 | Chunk\_15D\_rv | CGCTGACCTGTCTAACGTATCAACAGAATGCACGTCAGTCGTATGCTTGACGTGTCTGCCCAGTATCAACCACCGGGTAAC |
| 13414 | CEN6\_ARS4\_DJ\_fw | GGCAGACACGTCAAGCATACGACTGACGTGCATTCTGTTGATACGTTAGACAGGTCAGCGGGTCCTTTTCATCACGTGCTATAAAAATAATTATAATTTAAATTTTTTAATATAAATATA |
| 9991 | CEN6\_ARS4\_rv | CAACGCATGAGGATGATGACAGCAGCACTCGTACCAGATAGAGACAGCTCTTCCGAACATGGACGGATCGCTTGCCTGTAAC |
| 13415 | Chunk\_16A\_fw | ATGTTCGGAAGAGCTGTCTCTATCTGGTACGAGTGCTGCTGTCATCATCCTCATGCGTTGTGATGCGCGATGCTTATCAGG |
| 16560 | DL\_Chunk 16B\_rv | CGCAAATGTCCCATCGTATTTCAGAACCTTGTCACTCATGCGAGCAAGTGTGACAGCTATATGGCGTTCTCCGCCCGGTATG |
| 16561 | DL\_pFBA1\_FW | ATAGCTGTCACACTTGCTCGCATGAGTGACAAGGTTCTGAAATACGATGGGACATTTGCGTGAACAACAATACCAGCCTTCC |
| 16562 | H\_tFBA1\_RV | GTCACGGGTTCTCAGCAATTCGAGCTATTACCGATGATGGCTGAGGCGTTAGAGTAATCTAATGAGCTATCAAAAACGATAGATC |
| 12957 | TPI FW + H | AGATTACTCTAACGCCTCAGCCATCATCGGTAATAGCTCGAATTGCTGAGAACCCGTGACAACGAAGACCCAGAGATGTTGTTGT |
| 12958 | TPI Rv + P | CTGATAGTGCTGTAAGTCGCCTCCATCTTAGCAGAGCTGTCCCTGAATGCGTACTCGTGATGAGTAACCCATATAGAGATCGTAC |
| 16563 | P\_pPGK1\_FW | TCACGAGTACGCATTCAGGGACAGCTCTGCTAAGATGGAGGCGACTTACAGCACTATCAGTCTTTTTATTAACCTTAATTTTTAT |
| 16564 | Q\_tPGK1\_RV | GAGCTGAATGTATATGCTGCGGGATCATTGCACAGCTCTGAGAGCCCTGCAACGCGATATAAATAATATCCTTCTCGAAAGC |
| 16565 | Q\_pADH1\_FW | ATATCGCGTTGCAGGGCTCTCAGAGCTGTGCAATGATCCCGCAGCATATACATTCAGCTCAAGTCCAATGCTAGTAGAGAAG |
| 16566 | N\_tADH1\_RV | TTCTAGGCTTTGATGCAAGGTCCACATATCTTCGTTAGGACTCAATCGTGGCTGCTGATCTTGTCCTCTGAGGACATAAAATAC |
| 12963 | PYK1 Fw + N | GATCAGCAGCCACGATTGAGTCCTAACGAAGATATGTGGACCTTGCATCAAAGCCTAGAAAACGTGGTCAAACTTCAGAACTAAG |
| 12964 | PYK1 Rv + O | ATACTCCCTGCACAGATGAGTCAAGCTATTGAACACCGAGAACGCGCTGAACGATCATTCATAATCATGATAACCTTGAGGGAAG |
| 16567 | O\_pTDH3\_FW | GAATGATCGTTCAGCGCGTTCTCGGTGTTCAATAGCTTGACTCATCTGTGCAGGGAGTATATACTAGCGTTGAATGTTAGCGTC |
| 16568 | A\_tTDH3\_RV | GTGCCTATTGATGATCTGGCGGAATGTCTGCCGTGCCATAGCCATGCCTTCACATATAGTATCCTGGCGGAAAAAATTCATTTG |
| 12967 | ENO2 Fw + A | ACTATATGTGAAGGCATGGCTATGGCACGGCAGACATTCCGCCAGATCATCAATAGGCACAACGGATGATGAAAACACTAAACGA |
| 13227 | ENO2 Rv + B | GTTGAACATTCTTAGGCTGGTCGAATCATTTAGACACGGGCATCGTCCTCTCGAAAGGTGTAACGAAGACGTTACCAGCTGATTG |
| 16569 | B\_tHXK2\_FW | CACCTTTCGAGAGGACGATGCCCGTGTCTAAATGATTCGACCAGCCTAAGAATGTTCAACACTTGAACAATAAATACGAAATCC |
| 16570 | C\_pHXK2\_RV | CTAGCGTGTCCTCGCATAGTTCTTAGATTGTCGCTACGGCATATACGATCCGTGAGACGTACGCTGGTAAAGTACAGCTA |
| 12971 | PGI1 Fw + D | AATCACTCTCCATACAGGGTTTCATACATTTCTCCACGGGACCCACAGTCGTAGATGCGTAACGTATTCTTAGTGGATAACATGC |
| 12972 | PGI1 Rv + C | ACGTCTCACGGATCGTATATGCCGTAGCGACAATCTAAGAACTATGCGAGGACACGCTAGTTTTAAACAGTTGATGAGAACCTTT |
| 16571 | D\_tPFK1\_FW | ACGCATCTACGACTGTGGGTCCCGTGGAGAAATGTATGAAACCCTGTATGGAGAGTGATTATTCCATAGCTTAGTTTAATCAAGG |
| 16572 | J\_pPFK1\_RV | CGACGAGATGCTCAGACTATGTGTTCTACCTGCTTGGACATCTTCGCGTATATGACGGCCCGGCTAGTAAAAAAGAAAATTAATA |
| 12976 | PFK2 Rv + J | GGCCGTCATATACGCGAAGATGTCCAAGCAGGTAGAACACATAGTCTGAGCATCTCGTCGAAATCGTCTATATCACATATTCCAG |
| 13900 | PFK2\_fw + BU | AATCATGTGACCCAGGCTTGCGCATACATGATCCTTCTTGCGCTGCATGGGCGACTATATAACGATTCTCTGCTGCTTTGTTGCA |
| 16573 | BU\_tHIS3\_FW | ATATAGTCGCCCATGCAGCGCAAGAAGGATCATGTATGCGCAAGCCTGGGTCACATGATTGCATCTGTGCGGTATTTCACAC |
| 16574 | L\_pHIS3\_RV | GCCGTAGCTTCCGCAAGTATGCCGTAGTTGAAGAGCATTTGCCGTCGGTTCAGGTCATATTGCGGCATCAGAGCAGATTG |
| 12980 | GPM1 Rv + L | ATATGACCTGAACCGACGGCAAATGCTCTTCAACTACGGCATACTTGCGGAAGCTACGGCTATTGCTATAACATGTCATGTCACC |
| 12979 | GPM1 Fw + M | ACGAGAGATGAAGGCTCACCGATGGACTTAGTATGATGCCATGCTGGAAGCTCCGGTCATAACGGTGATACTTTGACAGGAGCTA |
| 16575 | M\_tPDC1\_FW | ATGACCGGAGCTTCCAGCATGGCATCATACTAAGTCCATCGGTGAGCCTTCATCTCTCGTACAGTGTTCCTTAATCAAGGATAC |
| 16576 | AR\_pPDC1\_RV | TGACGAGATTTGAGAAGTCCCCAATATCGACTCGTGATGTGCCATGCGTGCTGTCAGTATCATGCGACTGGGTGAGCATA |
| 12983 | ARS1211\_fw +AR | ATACTGACAGCACGCATGGCACATCACGAGTCGATATTGGGGACTTCTCAAATCTCGTCAGACATAGTATTTCGCAACCTTTCAG |
| 13901 | ARS1211\_rv + BS | GTTCAGGATTCTGTCGATGCCACATCGAGTCAGTCGTAGTAACATGGAACGCAGTGCATCGACAGGCGTTTCTGTACCGCTGTTA |
| 11519 | Chunk\_9.2C\_fw | GATGCACTGCGTTCCATGTTACTACGACTGACTCGATGTGGCATCGACAGAATCCTGAACGCGTCGCTTTACGCCAGGTC |
| 11522 | Chunk\_9.2D\_rv | ATAAGGAATGATGCACGCGCGACGCTGCTTCAATCAGATGTATAGCATTGCCTTCTGCGCGGTTGCATACTGTGGCAACTGAC |
| 16581 | AQ\_tel\_right\_FW | GCGCAGAAGGCAATGCTATACATCTGATTGAAGCAGCGTCGCGCGTGCATCATTCCTTATCCGGGGGATCCGGTGATTG |
| 13435 | Telomerator\_r\_rv | GTTATCCCTACCCACACAC |