## Supplementary Table 15 - List of primers for amplifying NeoChr10 and NeoChr11 chromosome parts

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| Primers number | Primer Name | Sequence 5’ - 3’ |
| 9989 | ARS1\_rv | ATACATCATGCACGCCTGAAAGCATCCCTGACGCGAGTATGACGCAGTTCACACATCTTACTTGTTATTTTACAGATTTTATGTTTAGATCTTTTATGCTTGCTTTTCAAAA |
| 9991 | CEN6\_ARS4\_rv | CAACGCATGAGGATGATGACAGCAGCACTCGTACCAGATAGAGACAGCTCTTCCGAACATGGACGGATCGCTTGCCTGTAAC |
| 9998 | Ecoli\_ch4\_fw | CACACGCACGAATTTGCATACAGATAGTTTGAGACACTCGCACGATGGCCGATATTGCGTCCGCGCATATTCCAGCAAGGAG |
| 9999 | Ecoli\_ch4\_rv | TCAGACAATTCTATACGCGGACTGATATGGCAGAAGCTAGGAGACGTTATGCGATCTTAGTGGTACGGTTTACTCCTTCACCTGTG |
| 10000 | Ecoli\_ch5\_fw | GCGCAGAAGGCAATGCTATACATCTGATTGAAGCAGCGTCGCGCGTGCATCATTCCTTATCTGGGGAAACTGGCGAGCG |
| 10001 | Ecoli\_ch5\_rv | GCGTCCTCTGTATTAAGATGTCATGGTGTTGAGTCTGCACATGCAATGGCAATGAGTCAGTTAGCCCGCAGTGGATCCTCC |
| 10004 | Ecoli\_ch7\_fw | TCATTGATGCCAGGTACGTGGCTAATCTGAAATCCCAGCAACATGGTTGAAAGCGCGTCAATGGTTAGCTTCCCGCTCATTCTCC |
| 10005 | Ecoli\_ch7\_rv | CTCAAGGCTGTGCTGACGTAGGACTGATTCGAGCTATCTCTTGGTGTATTTGAGCAGACCCAGACATGGCGTAACCCCGTG |
| 10006 | Ecoli\_ch8\_fw | GGTCTGCTCAAATACACCAAGAGATAGCTCGAATCAGTCCTACGTCAGCACAGCCTTGAGGCATTTACGCTGTACGGACACCTT |
| 10007 | Ecoli\_ch8\_rv | GCTACATCTTCCGTACTATGCTGTAGTCTCATGGTCGAGTTCTATTGCTGTTCGGCGGCAGGGCAATATTACCAACCCGTTTTGC |
| 10008 | Ecoli\_ch9\_fw | CTAAGATCGCATAACGTCTCCTAGCTTCTGCCATATCAGTCCGCGTATAGAATTGTCTGACATTACCGGCGTAGCCCCATG |
| 11032 | terHIS3\_rv | ACGCAATATCGGCCATCGTGCGAGTGTCTCAAACTATCTGTATGCAAATTCGTGCGTGTGGCATCTGTGCGGTATTTCACAC |
| 11365 | prCCW12\_mRuby\_tENO1\_fw | TGCCGCCGAACAGCAATAGAACTCGACCATGAGACTACAGCATAGTACGGAAGATGTAGCAACGCACCCATGAACCACAC |
| 11366 | prCCW12\_mRuby\_tENO1\_rv | CTCCACTGTACTGCATGTAGCATTCGCCGATCTGCATGATGTGTGACATTCTGCTATCGGGGCAGCATACATGGGTGACCAAA |
| 11508 | ARS417\_rv | AATCATGTGACCCAGGCTTGCGCATACATGATCCTTCTTGCGCTGCATGGGCGACTATATCTTACGCTCAATTCCTTTATTTTTTTATATTTATGTAGCTTTTT |
| 11509 | BU-His3\_fw | ATATAGTCGCCCATGCAGCGCAAGAAGGATCATGTATGCGCAAGCCTGGGTCACATGATTTGCGGCATCAGAGCAGATTG |
| 11510 | Chunk\_4A\_rv | CTAGGCTCTGCTGCATGTCAGTGATTTCTATTAGGCAGCGCTTACCCATGATTAGCGCAGCTACGGTCAGTTCGCCTTTC |
| 11511 | Chunk\_4B\_fw | CTGCGCTAATCATGGGTAAGCGCTGCCTAATAGAAATCACTGACATGCAGCAGAGCCTAGGTGTCAGCTTTCGTGGTGTG |
| 11512 | Chunk\_4B\_rv | AGTCACGCTGAGTCCATGCTGACCATGATTCACACTCAGTGCCGATAATTCCATAGTCTGCTCTCCGGCATTGACGGAAC |
| 11513 | Chunk\_4C\_fw | CAGACTATGGAATTATCGGCACTGAGTGTGAATCATGGTCAGCATGGACTCAGCGTGACTGCCAATTTCCGTGTTGTAGG |
| 11514 | Chunk\_4C\_rv | TCAATCATTCGTTCTCGCAGATCTACAATCGTCCTGAGCTCTGTGAGTGATGTACGCTCCCTAACGCGTCAATGCACTCC |
| 11515 | Chunk\_4D\_fw | GGAGCGTACATCACTCACAGAGCTCAGGACGATTGTAGATCTGCGAGAACGAATGATTGATACCGTCACGCCACGTCCAC |
| 11516 | Chunk\_9.2A\_rv | GCGCGACGTGTCTCGTATATTAGTGAAGTTGGATCTGTCCATGAATCCTCGGCTCTGGTGTGCAAGCGGTATGAGGAAAG |
| 11517 | Chunk\_9.2B\_fw | CACCAGAGCCGAGGATTCATGGACAGATCCAACTTCACTAATATACGAGACACGTCGCGCTATACTGCGGGTAGGAAAGG |
| 11518 | Chunk\_9.2B\_rv | GTTCAGGATTCTGTCGATGCCACATCGAGTCAGTCGTAGTAACATGGAACGCAGTGCATCTCACGTTCTGGTATTGGGTGC |
| 11519 | Chunk\_9.2C\_fw | GATGCACTGCGTTCCATGTTACTACGACTGACTCGATGTGGCATCGACAGAATCCTGAACGCGTCGCTTTACGCCAGGTC |
| 11520 | Chunk\_9.2C\_rv | CAGATACTGGGCAGGCTCTATAGGAGCTTGTACCGCATTGGCTTTGCCACTCATTCGAGAGCTGCCGCCGATGAGATCGC |
| 11521 | Chunk\_9.2D\_fw | TCTCGAATGAGTGGCAAAGCCAATGCGGTACAAGCTCCTATAGAGCCTGCCCAGTATCTGGACTATCTGCTGACTGAGTTGCTGTTG |
| 11522 | Chunk\_9.2D\_rv | ATAAGGAATGATGCACGCGCGACGCTGCTTCAATCAGATGTATAGCATTGCCTTCTGCGCGGTTGCATACTGTGGCAACTGAC |
| 11523 | Chunk\_5A\_rv | GAGGCTTCACAGTGCTTTATTAGTATGATTGCCTAGCTGGTATATGTGTTCCTGGAGCGCTGTGGATCTGGCGGTTACGG |
| 11524 | Chunk\_5B\_fw | GCGCTCCAGGAACACATATACCAGCTAGGCAATCATACTAATAAAGCACTGTGAAGCCTCGCTGATTACCGCAGCCTGAA |
| 11525 | Chunk\_5B\_rv | AGGATCGCTCGCGTACTCATGCATTCTCCCACATATTGAGGCCCTGATTCCATGCAATGTGGAAAATCTCCGCCATTCCC |
| 11526 | Chunk\_5C\_fw | ACATTGCATGGAATCAGGGCCTCAATATGTGGGAGAATGCATGAGTACGCGAGCGATCCTATGGCTTACGGCAGCATTGG |
| 11527 | Chunk\_5C\_rv | TCTGTCAGTTGGTTAAGCGCCGCTACGATTACTACACATGCCACAGACTGATCTACAATGGTACCGCTCTGCACCACAGG |
| 11528 | Chunk\_5D\_fw | CATTGTAGATCAGTCTGTGGCATGTGTAGTAATCGTAGCGGCGCTTAACCAACTGACAGAACAAAGTACCGCCAGCCAGG |
| 11535 | Chunk\_7A\_rv | GGCGCACATGGTATATTATGATCGGAGATGCGGCAACATAGCTGGGTGTGATCCTCTCTACGCCATCCGTGGGTCTTTTC |
| 11536 | Chunk\_7B\_fw | TAGAGAGGATCACACCCAGCTATGTTGCCGCATCTCCGATCATAATATACCATGTGCGCCTGGGCGTCATTGTCCGGAGT |
| 11537 | Chunk\_7B\_rv | GAGCATACTGTCCTATCATGTCGACTCTTGTCACATCTGACGCCTCTCTGCGATAGGATTTCCGGCGGCAGCCATCAAAG |
| 11538 | Chunk\_7C\_fw | AATCCTATCGCAGAGAGGCGTCAGATGTGACAAGAGTCGACATGATAGGACAGTATGCTCCCAGGCGGAAGAAGTCTTTGAAGAC |
| 11539 | Chunk\_7C\_rv | CAGCAAGTGCGTAGAGATCAGCATTATCTGACTGTGGATGATCCTACATCGTCATCAGAGCGCCGCTTCATAAGCGCCAA |
| 11540 | Chunk\_7D\_fw | CTCTGATGACGATGTAGGATCATCCACAGTCAGATAATGCTGATCTCTACGCACTTGCTGAATGGCGATCCCCGAGCAAC |
| 11541 | Chunk\_8A\_rv | ACAATGAGAATCGAGCGCCGCTGCTTAATCTGTCAGTCGATCCTATGGTTGCTGCTGAGCACAGTGCAGCGCGTTTGGTC |
| 11542 | Chunk\_8B\_fw | GCTCAGCAGCAACCATAGGATCGACTGACAGATTAAGCAGCGGCGCTCGATTCTCATTGTCTGGCGGGTTACTGGCTGTG |
| 11543 | Chunk\_8B\_rv | GGCCGCTGTGTAGTCTCTATGCATGTACTTAGATCCTAGCGCATCTTCGCCAGCTATATTTGCCGACTTACGCCGTGGTT |
| 11544 | Chunk\_8C\_fw | AATATAGCTGGCGAAGATGCGCTAGGATCTAAGTACATGCATAGAGACTACACAGCGGCCTGATCGGACTGGGCGATCAC |
| 11545 | Chunk\_8C\_rv | GGCATTCGGCGTGATTCCATCATGCTATGCACTGATCTCGCACATAATCTCGGTCGGCTGCGGTATGACCCTGGCGGAAG |
| 11546 | Chunk\_8D\_fw | CAGCCGACCGAGATTATGTGCGAGATCAGTGCATAGCATGATGGAATCACGCCGAATGCCTTTCAGCGTGCTCTGTTTACCC |
| 13395 | Telomerator\_l\_fw | AGGGTAATCACCCACCACAC |
| 13396 | Telomerator\_l\_rv | TGACGCGCTTTCAACCATGTTGCTGGGATTTCAGATTAGCCACGTACCTGGCATCAATGACCAAAGCTGGAGCTCCACCG |
| 13397 | ARS1-AD\_fw | CCGATAGCAGAATGTCACACATCATGCAGATCGGCGAATGCTACATGCAGTACAGTGGAGGGCCTTTTGAAAAGCAAGCATAAAAGATCTAAAC |
| 13398 | Chunk\_18A\_fw | TAAGATGTGTGAACTGCGTCATACTCGCGTCAGGGATGCTTTCAGGCGTGCATGATGTAT |
| 13399 | Chunk\_18A\_rv | GAGATGACTGGGTCCACTCTTTCGTGTATTTCGAGAGAGCGATACGCATGTCTCCATCGTGCTAACTGTCACCCAACATAC |
| 13400 | Chunk\_18B\_fw | ACGATGGAGACATGCGTATCGCTCTCTCGAAATACACGAAAGAGTGGACCCAGTCATCTCGATCCGCAAGTTCTTCATCG |
| 13401 | Chunk\_18B\_rv | CAGATCAGTGTCAATGAAGGTAGGCTGCTTGGCAATGCTTCTGGTGACTGGTAGATCATCGCGATGTGCAATGTTCTTTGTTAC |
| 13406 | Chunk\_15A\_fw | TCCTCGACGCGATGGCATATCCAGTGTGATAACGTATGAGAAGGTACTGGAAGCTACTGCTGCGAGCTGAATGCCATGAC |
| 13407 | Chunk\_15A\_rv | GATGAACGTGCCTTCGATTTATAGAAACTGCGCTGCCCTGTGATGAATTGTCTTAGCGCGAAAGCGGCAGGTTGAGGTCC |
| 13408 | Chunk\_15B\_fw | CGCGCTAAGACAATTCATCACAGGGCAGCGCAGTTTCTATAAATCGAAGGCACGTTCATCCTGCGACCACGCAGTTTGAG |
| 13409 | Chunk\_15B\_rv | CGTGCCGGTTAATGAGCTATGCGTGTCATGTATCCTTAGGCATATCCTTAACACGCAGTGCGCCTTTGGCATGATCGAACAG |
| 13410 | Chunk\_15C\_fw | CACTGCGTGTTAAGGATATGCCTAAGGATACATGACACGCATAGCTCATTAACCGGCACGAACCGGCAGGTTATAGCTGATG |
| 13411 | Chunk\_15C\_rv | CGGGTCATTAGAGATAGTCTCTCAGGATTCAACTAGATGGTGATCTATTGTCTACGCGGCATGGCCCATATACACTTCGAGCAC |
| 13412 | Chunk\_15D\_fw | GCCGCGTAGACAATAGATCACCATCTAGTTGAATCCTGAGAGACTATCTCTAATGACCCGATGCGTGAATGGCTGGCAGAG |
| 13413 | Chunk\_15D\_rv | CGCTGACCTGTCTAACGTATCAACAGAATGCACGTCAGTCGTATGCTTGACGTGTCTGCCCAGTATCAACCACCGGGTAAC |
| 13414 | CEN6\_ARS4\_DJ\_fw | GGCAGACACGTCAAGCATACGACTGACGTGCATTCTGTTGATACGTTAGACAGGTCAGCGGGTCCTTTTCATCACGTGCTATAAAAATAATTATAATTTAAATTTTTTAATATAAATATA |
| 13415 | Chunk\_16A\_fw | ATGTTCGGAAGAGCTGTCTCTATCTGGTACGAGTGCTGCTGTCATCATCCTCATGCGTTGTGATGCGCGATGCTTATCAGG |
| 13416 | Chunk\_16A\_rv | CGCCGCTCTTAGAAGGCTATACGAGCTATGAGAGAGACTCGCTATCCATTCCGCTGAGTTCGTCAGCGATGAGACGTTAC |
| 13417 | Chunk\_16B\_fw | AACTCAGCGGAATGGATAGCGAGTCTCTCTCATAGCTCGTATAGCCTTCTAAGAGCGGCGGCATCGGTGAACAGGGTGCTAAG |
| 13418 | Chunk\_16B\_rv | CGCAAATGTCCCATCGTATTTCAGAACCTTGTCACTCATGCGAGCAAGTGTGACAGCTATATGGCGTTCTCCGCCCAGTATG |
| 13419 | Chunk\_16C\_fw | ATAGCTGTCACACTTGCTCGCATGAGTGACAAGGTTCTGAAATACGATGGGACATTTGCGCCGGCGCAGATCACTTTCATAG |
| 13420 | Chunk\_16C\_rv | CGACAAAGTGCTCGTCACGTGCGTCAGCTTCGAGGCATATCAAGCACCTGCCGGATGATTATGCCCGTGAATGGCAAAGCG |
| 13421 | Chunk\_16D\_fw | AATCATCCGGCAGGTGCTTGATATGCCTCGAAGCTGACGCACGTGACGAGCACTTTGTCGAACACCGGACGGCCTTTGCTAC |
| 13422 | Chunk\_16D\_rv | CCTCCGCTGCGTAGAGTAATCCTGGCTCTCGCGTGTATATTGATAGATTGTCTGTCAGGCTCGCGCAGGTATGGTTCAGG |
| 13423 | Chunk 17A\_fw | GCCTGACAGACAATCTATCAATATACACGCGAGAGCCAGGATTACTCTACGCAGCGGAGGTACGCAGTTTATCGGCCAGTTG |
| 13424 | Chunk 17A\_rv | CAACCACCTGACTAGAGTGTCAAAGCGTGCTCCTACATAGGTAGAGTTGCATAATCTGGCAAATCGCTGAAGCGTTCC |
| 13425 | Chunk 17B\_fw | GCCAGATTATGCAACTCTACCTATGTAGGAGCACGCTTTGACACTCTAGTCAGGTGGTTGTTGATAATCGCGGATGGACG |
| 13426 | Chunk 17B\_rv | ATTCAGCGGGTGATCCGACTTGACTACATTTAGGTGTGGCCTCCTTACTACTCTGAGATGCATCCGGTGAAAGCGTACCC |
| 13427 | Chunk 19A\_fw | CATCTCAGAGTAGTAAGGAGGCCACACCTAAATGTAGTCAAGTCGGATCACCCGCTGAATGCGATGGTCATTATTTACGGTAG |
| 13428 | Chunk 19A\_rv | ATGCCGGTGGCCGAATCTATGGTCCACATTATTTGCTGCACAAGATAGTGCAGTAGCGTTCCATTATTGGCAGGATACTTTGAG |
| 13429 | Chunk 17D\_fw | AACGCTACTGCACTATCTTGTGCAGCAAATAATGTGGACCATAGATTCGGCCACCGGCATTGGGTGTTTATGCCCGGACTAGC |
| 13430 | Chunk 17D\_rv | ATCGACGGTCCTCGCAAGATCTCAATGTGCAGTGGTATGCTGATAACTTGTGCCTGTGGCGGGATTTAGATCCCACATTAACG |
| 13431 | ARS417\_DR\_fw | GCCACAGGCACAAGTTATCAGCATACCACTGCACATTGAGATCTTGCGAGGACCGTCGATACAAGTCCTTAAGAATATACAAAAAGCTACATAAATATAA |
| 13432 | Turquoise\_AL\_rv | CTGACTCATTGCCATTGCATGTGCAGACTCAACACCATGACATCTTAATACAGAGGACGCCGTCTCATTGGCAGCATAAA |
| 13433 | Turquoise\_DS\_fw | ATCAAGACTGAGGAGTACGTCAGGTTGCAGAGGATCACTTGTAATGAATGTGTGCTCGCTGAACGTTGATAGGTCAAGATCAATG |
| 13434 | Telomerator\_r\_fw | AGCGAGCACACATTCATTACAAGTGATCCTCTGCAACCTGACGTACTCCTCAGTCTTGATCCGGGGGATCCGGTGATTG |
| 13435 | Telomerator\_r\_rv | GTTATCCCTACCCACACAC |
| 13436 | rm\_Telomerator\_r\_rv | GTTATCCCTACCCACACACCCACACACCCCAACACACCCACACACCACACACTCGAGCAATTGGGACCGTGCAATTC |
| 13509 | Chunk 19C\_fw | GATGATCTACCAGTCACCAGAAGCATTGCCAAGCAGCCTACCTTCATTGACACTGATCTGGGTGCTGCAGTTGACCAGAC |
| 13510 | Chunk 19C\_rv | AGCTGGCGTCGCGCATAAATGCATGATCTGTCCTGGCTGACACGCATCTGCACTAATGATGCGGCAAGAGAATTGGTTAG |
| 13511 | Chunk 19D\_fw | ATCATTAGTGCAGATGCGTGTCAGCCAGGACAGATCATGCATTTATGCGCGACGCCAGCTCTGTCGTCCATGCCGGATAC |
| 13512 | Chunk 19D\_rv | GCAGTAGCTTCCAGTACCTTCTCATACGTTATCACACTGGATATGCCATCGCGTCGAGGAAATCACGCGGAAATAGCTGG |