**Supplementary File 3 – List of oligonucleotides used in this study**

|  |  |
| --- | --- |
| **Oligonucleotide name** | **Oligonucleotide sequence** |
| 12124\_L1 | CGTGCAGGTAAGTCCTAGACTGCGGGTTTGACATTC |
| 12124\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACCTG |
| 12125\_L1 | CGTGCAGACAAGTCCTAGACTGCGGGTTTGACATTC |
| 12125\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTGTCTG |
| 12227-12235-spacer-L1 | CACCGAATGTCAAACCCGCAGTCT |
| 12227-12235-spacer-L2 | AAACAGACTGCGGGTTTGACATTC |
| 12227\_16RT\_10PBS\_for | GTGCGCAGGTAAGTCCTAGACTGCGGGTTT |
| 12227\_16RT\_10PBS\_rev | AAAATCTAGGACTTACCTGCAAACCCGCAG |
| 12228\_16RT\_13PBS\_for | GTGCGCAGGTAAGTCCTAGACTGCGGGTTTGAC |
| 12228\_16RT\_13PBS\_rev | AAAATCTAGGACTTACCTGCGTCAAACCCGCAG |
| 12229\_16RT\_16PBS\_for | GTGCGCAGGTAAGTCCTAGACTGCGGGTTTGACATT |
| 12229\_16RT\_16PBS\_rev | AAAATCTAGGACTTACCTGCAATGTCAAACCCGCAG |
| 12230\_24RT\_10PBS\_for | GTGCGGCTACGTGCAGGTAAGTCCTAGACTGCGGGTTT |
| 12230\_24RT\_10PBS\_rev | AAAATCTAGGACTTACCTGCACGTAGCCAAACCCGCAG |
| 12231\_24RT\_13PBS\_for | GTGCGGCTACGTGCAGGTAAGTCCTAGACTGCGGGTTTGAC |
| 12231\_24RT\_13PBS\_rev | AAAATCTAGGACTTACCTGCACGTAGCCGTCAAACCCGCAG |
| 12232\_24RT\_16PBS\_for | GTGCGGCTACGTGCAGGTAAGTCCTAGACTGCGGGTTTGACATT |
| 12232\_24RT\_16PBS\_rev | AAAATCTAGGACTTACCTGCACGTAGCCAATGTCAAACCCGCAG |
| 12233\_33RT\_10PBS\_for | GTGCATGCCCGAAGGCTACGTGCAGGTAAGTCCTAGACTGCGGGTTT |
| 12233\_33RT\_10PBS\_rev | AAAATCTAGGACTTACCTGCACGTAGCCTTCGGGCATAAACCCGCAG |
| 12234\_33RT\_13PBS\_for | GTGCATGCCCGAAGGCTACGTGCAGGTAAGTCCTAGACTGCGGGTTTGAC |
| 12234\_33RT\_13PBS\_rev | AAAATCTAGGACTTACCTGCACGTAGCCTTCGGGCATGTCAAACCCGCAG |
| 12235\_33RT\_16PBS\_for | GTGCATGCCCGAAGGCTACGTGCAGGTAAGTCCTAGACTGCGGGTTTGACATT |
| 12235\_33RT\_16PBS\_rev | AAAATCTAGGACTTACCTGCACGTAGCCTTCGGGCATAATGTCAAACCCGCAG |
| 12248-12256-spacer-L1 | CACCGTTCAAGTCCGCCATGCCCGA |
| 12248-12256-spacer-L2 | AAACTCGGGCATGGCGGACTTGAAC |
| 12248\_peg1 | GTGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGC |
| 12248\_peg2 | AAAAGCGGACTTGACGAAGGCTACGTGCAGGTAAGT |
| 12249\_peg1 | GTGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGCCAT |
| 12249\_peg2 | AAAAATGGCGGACTTGACGAAGGCTACGTGCAGGTAAGT |
| 12250\_peg1 | GTGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGCCATGCC |
| 12250\_peg2 | AAAAGGCATGGCGGACTTGACGAAGGCTACGTGCAGGTAAGT |
| 12251\_peg1 | GTGCATGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGC |
| 12251\_peg2 | AAAAGCGGACTTGACGAAGGCTACGTGCAGGTAAGTGCAT |
| 12252\_peg1 | GTGCATGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGCCAT |
| 12252\_peg2 | AAAAATGGCGGACTTGACGAAGGCTACGTGCAGGTAAGTGCAT |
| 12253\_peg1 | GTGCATGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGCCATGCC |
| 12253\_peg2 | AAAAGGCATGGCGGACTTGACGAAGGCTACGTGCAGGTAAGTGCAT |
| 12254\_peg1 | GTGCGCAGTCTATGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGC |
| 12254\_peg2 | AAAAGCGGACTTGACGAAGGCTACGTGCAGGTAAGTGCATAGACTGC |
| 12255\_peg1 | GTGCGCAGTCTATGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGCCAT |
| 12255\_peg2 | AAAAATGGCGGACTTGACGAAGGCTACGTGCAGGTAAGTGCATAGACTGC |
| 12256\_peg1 | GTGCGCAGTCTATGCACTTACCTGCACGTAGCCTTCGTCAAGTCCGCCATGCC |
| 12256\_peg2 | AAAAGGCATGGCGGACTTGACGAAGGCTACGTGCAGGTAAGTGCATAGACTGC |
| 12257-12265-spacer-L1 | CACCGTGATGAACTTCGAGGACGG |
| 12257-12265-spacer-L2 | AAACCCGTCCTCGAAGTTCATCAC |
| 12257\_peg1 | GTGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGT |
| 12257\_peg2 | AAAAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGT |
| 12258\_peg1 | GTGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCA |
| 12258\_peg2 | AAAATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGT |
| 12259\_peg1 | GTGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCA |
| 12259\_peg2 | AAAATGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGT |
| 12260\_peg1 | GTGCATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGT |
| 12260\_peg2 | AAAAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCAT |
| 12261\_peg1 | GTGCATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCA |
| 12261\_peg2 | AAAATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCAT |
| 12262\_peg1 | GTGCATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCA |
| 12262\_peg2 | AAAATGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCAT |
| 12263\_peg1 | GTGCGTCTATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGT |
| 12263\_peg2 | AAAAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCATAGAC |
| 12264\_peg1 | GTGCGTCTATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCA |
| 12264\_peg2 | AAAATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCATAGAC |
| 12265\_peg1 | GTGCGTCTATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCA |
| 12265\_peg2 | AAAATGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCATAGAC |
| 12266-12274-spacer-L1 | CACCGGAGCGCGTGATGAACTTCG |
| 12266-12274-spacer-L2 | AAACCGAAGTTCATCACGCGCTCC |
| 12266\_peg1 | GTGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCAC |
| 12266\_peg2 | AAAAGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGT |
| 12267\_peg1 | GTGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCACGCG |
| 12267\_peg2 | AAAACGCGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGT |
| 12268\_peg1 | GTGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCACGCGCTC |
| 12268\_peg2 | AAAAGAGCGCGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGT |
| 12269\_peg1 | GTGCATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCAC |
| 12269\_peg2 | AAAAGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCAT |
| 12270\_peg1 | GTGCATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCACGCG |
| 12270\_peg2 | AAAACGCGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCAT |
| 12271\_peg1 | GTGCATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCACGCGCTC |
| 12271\_peg2 | AAAAGAGCGCGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCAT |
| 12272\_peg1 | GTGCGTCTATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCAC |
| 12272\_peg2 | AAAAGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCATAGAC |
| 12273\_peg1 | GTGCGTCTATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCACGCG |
| 12273\_peg2 | AAAACGCGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCATAGAC |
| 12274\_peg1 | GTGCGTCTATGCACTTACCTGCGTCACGGTCACGGCGCCGCCGTCCTCGAAGTTCATCACGCGCTC |
| 12274\_peg2 | AAAAGAGCGCGTGATGAACTTCGAGGACGGCGGCGCCGTGACCGTGACGCAGGTAAGTGCATAGAC |
| 12410\_EMX1-spacer-L1 | CACCGAGTCCGAGCAGAAGAAGAA |
| 12410\_EMX1-spacer-L2 | AAACTTCTTCTTCTGCTCGGACTC |
| 12410\_peg1 | GTGCATGGGAGCACTTCTTCTTCTGCTCGGAC |
| 12410\_peg2 | AAAAGTCCGAGCAGAAGAAGAAGTGCTCCCAT |
| 12411\_RNF2-spacer-L1 | CACCGTCATCTTAGTCATTACCTG |
| 12411\_RNF2-spacer-L2 | AAACCAGGTAATGACTAAGATGAC |
| 12411\_peg1 | GTGCAACGAACACCTCATGTAATGACTAAGATG |
| 12411\_peg2 | AAAACATCTTAGTCATTACATGAGGTGTTCGTT |
| 12412\_FANCF-spacer-L1 | CACCGGAATCCCTTCTGCAGCACC |
| 12412\_FANCF-spacer-L2 | AAACGGTGCTGCAGAAGGGATTCC |
| 12412\_peg1 | GTGCGGAAAAGCGATCAAGGTGCTGCAGA |
| 12412\_peg2 | AAAATCTGCAGCACCTTGATCGCTTTTCC |
| 12413\_HEK3-spacer-L1 | CACCGGCCCAGACTGAGCACGTGA |
| 12413\_HEK3-spacer-L2 | AAACTCACGTGCTCAGTCTGGGCC |
| 12413\_peg1 | GTGCTCTGCCATCTCGTGCTCAGTCTG |
| 12413\_peg2 | AAAACAGACTGAGCACGAGATGGCAGA |
| 12414\_HEK4-spacer-L1 | CACCGGCACTGCGGCTGGAGGTGG |
| 12414\_HEK4-spacer-L2 | AAACCCACCTCCAGCCGCAGTGCC |
| 12414\_peg1 | GTGCTTAACCCCAACCTCCAGC |
| 12414\_peg2 | AAAAGCTGGAGGTTGGGGTTAA |
| 12136\_L1 | CACCGCTCGTGACCACCCTGACCTA |
| 12136\_L2 | AAACTAGGTCAGGGTGGTCACGAGC |
| 12137\_L1 | CACCGTTCAAGTCCGCCATGCCCGA |
| 12137\_L2 | AAACTCGGGCATGGCGGACTTGAAC |
| 12138\_L1 | CACCGATATGGGAAAGTTTAAAAGA |
| 12138\_L2 | AAACTCTTTTAAACTTTCCCATATC |
| 12139\_L1 | CACCGCAACCACTTTAAATATGTGT |
| 12139\_L2 | AAACACACATATTTAAAGTGGTTGC |
| 12140\_L1 | CACCGCTAACTTAAGGAGTCCCCG |
| 12140\_L2 | AAACCGGGGACTCCTTAAGTTAGC |
| 12198\_L1 | CACCGGACCAACACATATTTAAAG |
| 12198\_L2 | AAACCTTTAAATATGTGTTGGTCC |
| 12199\_L1 | CACCGATATCTGCTTGCTGACTTAA |
| 12199\_L2 | AAACTTAAGTCAGCAAGCAGATATC |
| 12200\_L1 | CACCGCTATTCATCCAGTATCCAC |
| 12200\_L2 | AAACGTGGATACTGGATGAATAGC |
| 12210\_L1 | same as: 12198\_L1 |
| 12210\_L2 | same as: 12198\_L2 |
| 12211\_L1 | same as: 12199\_L1 |
| 12211\_L2 | same as: 12199\_L2 |
| 12212\_L1 | same as: 12200\_L1 |
| 12212\_L2 | same as: 12200\_L2 |
| 12415\_L1 | CACCGCCGTTTGTACTTTGTCCTC |
| 12415\_L2 | AAACGAGGACAAAGTACAAACGGC |
| 12416\_L1 | CACCGTCAACCATTAAGCAAAACAT |
| 12416\_L2 | AAACATGTTTTGCTTAATGGTTGAC |
| 12417\_L1 | CACCGGGGTCCCAGGTGCTGACGT |
| 12417\_L2 | AAACACGTCAGCACCTGGGACCCC |
| 12418\_L1 | CACCGTCAACCAGTATCCCGGTGC |
| 12418\_L2 | AAACGCACCGGGATACTGGTTGAC |
| 12419\_L1 | CACCGTCCCTTCCTTCCACCCAGCC |
| 12419\_L2 | AAACGGCTGGGTGGAAGGAAGGGAC |
| 9922\_L1 | CACCGCAGACAAGTAGGGTGGGCC |
| 9922\_L2 | AAACGGCCCACCCTACTTGTCTGC |
| 9762\_L1 | CACCGCAGTCAAGTGCTGGAGGTG |
| 9762\_L2 | AAACCACCTCCAGCACTTGACTGC |
| 12420\_L1 | CGTGCAGCcTAGACTGCGGGTTTGACATTC |
| 12421\_L1 | CGTGCAAAGTCcTAGACTGCGGGTTTGACATTC |
| 12422\_L1 | CGTGACAAGTCcTAGACTGCGGGTTTGACATTC |
| 12423\_L1 | CGTGCAGTGAGCcTAGACTGCGGGTTTGACATTC |
| 12424\_L1 | CGTGCACAAGTCcTAGACTGCGGGTTTGACATTC |
| 12425\_L1 | CGTGCAGAGTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12426\_L1 | CGTGCAGAAGTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12427\_L1 | CGTGCTAGGTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12428\_L1 | CGTGCAGGATAAGTCcTAGACTGCGGGTTTGACATTC |
| 12429\_L1 | CGTGCAGGACTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12430\_L1 | CGTGCACAGGTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12431\_L1 | CGTGCAGACAAGTCcTAGACTGCGGGTTTGACATTC |
| 12432\_L1 | CGTGCAGCTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12433\_L1 | CGTGCAGACTGCGCcTAGACTGCGGGTTTGACATTC |
| 12434\_L1 | CGTGCAGCTTGCGCcTAGACTGCGGGTTTGACATTC |
| 12435\_L1 | CGTGCAAACAAGTCcTAGACTGCGGGTTTGACATTC |
| 12436\_L1 | CGTGCAACTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12439\_L1 | CGTGCAGACCcTAGACTGCGGGTTTGACATTC |
| 12440\_L1 | CGTGCAGCTCcTAGACTGCGGGTTTGACATTC |
| 12443\_L1 | CGTGCAGGTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12444\_L1 | CGTGCAGGTTGCGCcTAGACTGCGGGTTTGACATTC |
| 12445\_L1 | CGTGCAAGTAAGTCcTAGACTGCGGGTTTGACATTC |
| 12447\_L1 | CGTGCAGGTCcTAGACTGCGGGTTTGACATTC |
| 12420\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGCTG |
| 12421\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTTG |
| 12422\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTGT |
| 12423\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGCTCACTG |
| 12424\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTGTG |
| 12425\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACTCTG |
| 12426\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACTTCTG |
| 12427\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACCTAG |
| 12428\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTATCCTG |
| 12429\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTAGTCCTG |
| 12430\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACCTGTG |
| 12431\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTGTCTG |
| 12432\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTAGCTG |
| 12433\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGCGCAGTCTG |
| 12434\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGCGCAAGCTG |
| 12435\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTGTTTG |
| 12436\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTAGTTG |
| 12439\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGGTCTG |
| 12440\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGAGCTG |
| 12443\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACCTG |
| 12444\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGCGCAACCTG |
| 12445\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACTTACTTG |
| 12447\_L2 | AAATGAATGTCAAACCCGCAGTCTAGGACCTG |
| 12449\_L1 | GTGCGGCTACGTGCAGGTTGCGCcTAGACTGCGGGTTT |
| 12450\_L1 | GTGCGGCTACGTGCAAGTAAGTCcTAGACTGCGGGTTT |
| 12452\_L1 | GTGCGGCTACGTGCAGGTCcTAGACTGCGGGTTT |
| 12449\_L2 | AAAAAAACCCGCAGTCTAGGCGCAACCTGCACGTAGCC |
| 12450\_L2 | AAAAAAACCCGCAGTCTAGGACTTACTTGCACGTAGCC |
| 12452\_L2 | AAAAAAACCCGCAGTCTAGGACCTGCACGTAGCC |
| 12454\_L1 | GTGCTCTGCCATCAAAGCGTGCTCAGTCTG |
| 12455\_L1 | GTGCGTGATGGGAGCCTTCTTCTTCTGCTCGGA |
| 12456\_L1 | GTGCTGTCTGAAGCCATCCATGCTTCCTCCTGAAAAT |
| 12457\_L1 | GTGCTGTCTGAAGCCATGCTTCCTCCTGAAAAT |
| 12460\_L1 | GTGCTCCCGTCACCGTTTCTGGCACCAGG |
| 12462\_L1 | GTGCGGAAAAGCGATCAAGTGCTGCAGAAGGGAT |
| 12463\_L1 | CACCGACATCGATGTCCTCCCCAT |
| 12464\_L1 | CACCGATGAAGCACTGTGGGTACGA |
| 12466\_L1 | CACCGCCCTTCAGCTAAAATAAAGG |
| 12454\_L1 | AAAACAGACTGAGCACGCTTTGATGGCAGA |
| 12455\_L1 | AAAATCCGAGCAGAAGAAGAAGGCTCCCATCAC |
| 12456\_L1 | AAAAATTTTCAGGAGGAAGCATGGATGGCTTCAGACA |
| 12457\_L1 | AAAAATTTTCAGGAGGAAGCATGGCTTCAGACA |
| 12460\_L1 | AAAACCTGGTGCCAGAAACGGTGACGGGA |
| 12462\_L1 | AAAAATCCCTTCTGCAGCACTTGATCGCTTTTCC |
| 12463\_L1 | AAACATGGGGAGGACATCGATGTC |
| 12464\_L1 | AAACTCGTACCCACAGTGCTTCATC |
| 12466\_L1 | AAACCCTTTATTTTAGCTGAAGGGC |
| 12474\_peg1 | GTGCAGACTTCTCCACAGGAGTCAGGTGCAC |
| 12474-HBB-spacer\_L1 | CACCGCATGGTGCACCTGACTCCTG |
| 12475\_L1 | CACCGTACCTGAACCGTATATCCTA |
| 12474\_peg2 | AAAAGTGCACCTGACTCCTGTGGAGAAGTCT |
| 12474-HBB-spacer\_L2 | AAACCAGGAGTCAGGTGCACCATGC |
| 12475-HEXA-spacer\_L2 | AAACTAGGATATACGGTTCAGGTAC |
| 12475\_peg1 | GTGCAGTCAGGGCCATAGGATAGATATACGGTTC |
| 12476-PRNP-spacer\_L1 | CACCGCAGTGGTGGGGGGCCTTGG |
| 12476\_peg1 | GTGCATGTAGACGCCAAGGCCCCCCACC |
| 12479\_L1 | CACCGCCTTGATACCAACCTGCCCA |
| 12480\_L1 | CACCGCTTTCACCTTCAAATGCCA |
| 12481\_L1 | CACCGCATGTTTTCACGATAGTAA |
| 12475\_peg2 | AAAAGAACCGTATATCTATCCTATGGCCCTGACT |
| 12476-PRNP-spacer\_L2 | AAACCCAAGGCCCCCCACCACTGC |
| 12476\_peg2 | AAAAGGTGGGGGGCCTTGGCGTCTACAT |
| 12479\_L2 | AAACTGGGCAGGTTGGTATCAAGGC |
| 12480\_L2 | AAACTGGCATTTGAAGGTGAAAGC |
| 12481\_L2 | AAACTTACTATCGTGAAAACATGC |
|  |  |
| **Primers for genomic PCR** | |
| HEK3\_for-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGATGTGGGCTGCCTAGAAAGG |
| HEK3\_rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCCCAGCCAAACTTGTCAACC |
| RNF2\_for-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGACGTCTCATATGCCCCTTGG |
| RNF2\_rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGACGTAGGAATTTTGGTGGGACA |
| FANCF2-for-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGGTGCTGACGTAGGTAGTGC |
| FANCF2-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGACACGGATAAAGACGCTGGG |
| EMX1\_for-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCAGCTCAGCCTGAGTGTTGA |
| EMX1\_rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCTCGTGGGTTTGTGGTTGC |
| HEK4\_for-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGAACCCAGGTAGCCAGAGAC |
| HEK4\_rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGTCCTTTCAACCCGAACGGAG |
| HEK3\_OT1-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGTCCCCTGTTGACCTGGAGAA |
| HEK3\_OT1-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCACTGTACTTGCCCTGACCA |
| HEK3\_OT2-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTTGGTGTTGACAGGGAGCAA |
| HEK3\_OT2-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCTGAGATGTGGGCAGAAGGG |
| HEK3\_OT3-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTGAGAGGGAACAGAAGGGCT |
| HEK3\_OT3-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGTCCAAAGGCCCAAGAACCT |
| HEK3\_OT4-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTCCTAGCACTTTGGAAGGTCG |
| HEK3\_OT4-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGCTCATCTTAATCTGCTCAGCC |
| HEK4\_OT1-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGGCATGGCTTCTGAGACTCA |
| HEK4\_OT1-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGTCTCCCTTGCACTCCCTGTCTTT |
| HEK4\_OT2-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTTTGGCAATGGAGGCATTGG |
| HEK4\_OT2-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGAAGAGGCTGCCCATGAGAG |
| HEK4\_OT3-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGGTCTGAGGCTCGAATCCTG |
| HEK4\_OT3-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCTGTGGCCTCCATATCCCTG |
| HEK4\_OT4-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGTTTCCACCAGAACTCAGCCC |
| HEK4\_OT4-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCCTCGGTTCCTCCACAACAC |
| EMX1\_OT1-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGTGGGGAGATTTGCATCTGTGGAGG |
| EMX1\_OT1-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGCTTTTATACCATCTTGGGGTTACAG |
| EMX1\_OT2-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCAATGTGCTTCAACCCATCACGGC |
| EMX1\_OT2-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCCATGAATTTGTGATGGATGCAGTCTG |
| EMX1\_OT3-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGAGAAGGAGGTGCAGGAGCTAGAC |
| EMX1\_OT3-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCATCCCGACCTTCATCCCTCCTGG |
| FANCF\_OT1-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGCGGGCAGTGGCGTCTTAGTCG |
| FANCF\_OT1-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCCCTGGGTTTGGTTGGCTGCTC |
| FANCF\_OT2-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCTCCTTGCCGCCCAGCCGGTC |
| FANCF\_OT2-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCACTGGGGAAGAGGCGAGGACAC |
| FANCF\_OT3-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCCAGTGTTTCCCATCCCCAACAC |
| FANCF\_OT3-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGAATGGATCCCCCCCTAGAGCTC |
| FANCF\_OT4-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCAGGCCCACAGGTCCTTCTGGA |
| FANCF\_OT4-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCCACACGGAAGGCTGACCACG |
| HBB\_ON-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGAGGGTTGGCCAATCTACTCCC |
| HBB\_ON-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGTCTTCTCTGTCTCCACATGCC |
| PRNP\_ON-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGTCAGTGGAACAAGCCGAGT |
| PRNP\_ON-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGACTTGGTTGGGGTAACGGTG |
| HEXA\_ON-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCATACAGGTGTGGCGAGAGG |
| HEXA\_ON-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCCAGCCTCCTTTGGTTAGCA |
| DNMT\_ON-fwd-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCACAACAGCTTCATGTCAGCC |
| DNMT\_ON-rev-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGACGTTAATGTTTCCTGATGGTCC |
| RUNX1-rev-i5 | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGGGGTGAGGCTGAAACAGTGACC |
| RUNX1-fwd-i7 | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGGGAACTGGCAGGCACCGAGG |