Supplementary Figure S5

Alignments of circle-PCR products from *RPL37A*. The sequences are shown with the 5'-ends first, and 3' ends last, with the middle segment (ORF) represented as NNNNNNNNNN. Nucleotides that do not match the majority are in red and poly(A) tails in blue. Clones 10-1 were XRNA RNAi, with enzymatic decapping. Clones 10-2 were XRNA RNAi, without enzymatic decapping. Clones 10-3 were wild-type, with enzymatic decapping. Clones 10-4 were XRNA RNAi, without enzymatic decapping. The clones designated "r" were made without nested PCR. On page one, the first antisense amplifying oligonucleotide (and reverse transcriptase primer) is at 76-97, the second at 56-75. The first sense oligonucleotide is at 108-127, the second at 132-151. The programme placed the sequences in three groups, which are shown on pages 1-3, 4-5, and 6.

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                                 SL                 5`UTR
                                 10        20        30        40        50        60        70        80        90       100       110       120
                                 |         |         |         |         |         |         |         |         |         |         |         |
                                 AACGCTATTATTAGAACAGTTTCTGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
4-2Nb      →                     AACGCTATTATTAGAAcaGTTTCTGTacTATATTGCTGCtacgAAGTTacGaTGGCAAAGCGTacCGTCAAGATG----------------------NNNNNNNNNN---------------
1-4Na      →                          TATTATTAGAACAGTTTCTGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
4-3N       →                          TATTATTAGAACAGTTTCTGTACtATATTGCTGCtacGAAGTTacGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN----------------
1-1        →                             tATTAGAACAGTTTcTgTACTATATTGctgCtAcgaAGTTACGaTGGCAAAGCGTACCgtCAagaTGGGCGTCATgGGGCGCTAtgGCGNNNNNNNNNNCACGGCGCGTTCCAC
3-3        →                             tATTagaACaGTTtcTGTActATATTGctgctAcgaAGTTAcgaTGGCAAAGCgtACCgtCAagaTGGGCgtCatgGGGCGctATGGCgNNNNNNNNNNnanggtGCGtnncnc
1-3        →                             tATTagaACAGTTTCTgTACTATATTGCTGCTAcgaAGTTAcGaTGGCAAAGCGTACCGTCAAGATGGGCGTCatgGGGCGCTATGGCGNNNNNNNNNNnanggtGCGtTCCaC
2-4a       →                               TTAGAACAGTTTCTGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-1a       →                               TTAGAACAGTTTCTGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-1        →                               tTaGAACAGTTTCTGTACTATATTGCTGCTACGaAGTTACGaTGGCAAAGCGTACCgtCAAGATGGACGTCatgGGGCGCTATGGCGNNNNNNNNNNCACGgtGCGTTCCAC
1-2        →                               tTagaACAGTTTCTgTACTATATTGCTGCTACGAAGTTACGaTGGCAAAGCGTACCGTCAagaTGGGCGTCATgGGGCGCTATGGCGNNNNNNNNNNtanggtGCGTTCCAC
3-2r       →                                  gAACAGTTTCTgTACTATATTGCTGCTACGaAGTTAcGaTGGCAAAGCGTACCGTCAagaTGGGCGTCATgGGGCGCTAtGGCGNNNNNNNNNNCACGgtGCGTTCCaC
2-1Nb      →                                   AACAGTTTCTGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAagaTG----------------------NNNNNNNNNN---------------
2-3Na      →                                   AACAGTTTCTGTACTATATTGctGCTACGAAGtTACGATGGCAAAGCgtACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-5        →                                     cagTTTctgtActAtaTTgctgctAcgaAATTAcgatgGCAAAGCGtACCgtCAagatgGGCGTcatgGGGCGctatggcgNNNNNNNNNNCACGgtGCGTTCCaC
1-5        →                                     caGTTTctgTACTATATTGCTGCTAcgaagTTAcgaTgGCAAAGCGtACCgTCAagaTgGGCGTCatgGGGCGctatgGcgNNNNNNNNNNnanggtGCGtnncnc
3-4        →                                     cAGTTTctgTActATATTGCTGCTAcgaAGtTAcgaTgGCAAAGCGTACCgTCAagaTGGGCGTCatgGGGCGCTAtgGcgNNNNNNNNNNCACGGTGCGTTCCAC
4-5Na      →                                            TGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
2-3Nb      →                                            TGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
1-4Nb      →                                            TGTacTATATTGCTGCTacGAAGTTacGatggCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
4-2Na      →                                            TGTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-4Nb      →                                             GTACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
1-1N       →                                              tAcTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGAtG----------------------NNNNNNNNN----------------
2-2Na      →                                              TaCTATATTGCTGctACGAAGtTACGATGGCAAAGCGTACCGTCA-GATG----------------------NNNNNNNNNN---------------
2-5Na      →                                               ACTATATTGCTGCTACGAAGTTACGGTGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
4-4Nb      →                                               ACTATATTGCTGCTAcgaAGTTACGATGGCAAAGCGTACCGTCAagatG----------------------NNNNNNNNNN---------------
4-3        →                                               ACTATATTGCTGCTACGAAGTTacGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
14-1Na     →                                               ACTATATTGCTGctACGAGGtTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
4-1Nb      →                                               ACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-5Na      →                                               ACTATATTGCTGCTACGAAGTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-5Nb      →                                               ACTATATTGCTGCtacgAAGTTacGATGGCAAAGCGTACCGTcaAGATG----------------------NNNNNNNNNN---------------
3-4Na      →                                               ACtaTATTGCTGctACGAAGtTACGATGGCAAAGCgtACCGTCAAGaTG----------------------NNNNNNNNNN---------------
3-1N       →                                               ACTATATTGCTGCTACGAAGtTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
3-2N       →                                               actaTATtgctgctangnagtTAcgaTgGCAAAGCgtACCGTCAagatg----------------------NNNNNNNNNN---------------
3-2        →                                               actatatTgctGctacgaaGTTacgaTgGCAAAGCGtACCgtCAagatg----------------------NNNNNNNNNN---------------
3-3N       →                                               actatatTgctGctacgaaGTTacgaTgGCAAAGCGtACCgtCAagatg----------------------NNNNNNNNNN---------------
4-5Nb      →                                                CTGTATTGCTGCTacGAAGTTacGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN----------------
1-3        →                                                cTATATTGctGCTACGAAGTTACGaTGGCAAAGCGTACCgTCAagaTG----------------------NNNNNNNNNN---------------
3-5        →                                                cTATATTGctGCTACGAAGTTACGaTGGCAAAGCGTACCgTCAagaTG----------------------NNNNNNNNNN---------------
2-2a       →                                                cTATATTGctGCTAcgaAGTTAcGaTGGCAAAGCGTACCGTCAAGatg----------------------NNNNNNNNNN---------------
4-4Na      →                                                cTATATTGCTGCTAcGAAGTTACGaTGGCAAAGCGTACCgtCAAGaTG----------------------NNNNNNNNNN---------------
2-3a       →                                                cTATATTGctGCTACGAAGTTACGaTGGCAAAGCGTACCgTCAagaTG----------------------NNNNNNNNNN---------------
3-4a       →                                                cTATATTGctGCTACGAAGTTACGaTGGCAAAGCGTACCgTCAagaTG----------------------NNNNNNNNNN---------------
3-3a       →                                                          cTAcgaAGTTACGgtgGCAAAGCGTACCgtCAagatg----------------------NNNNNNNNNN---------------
2-1Na      →                                                             cGAAGTTACGaTGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
1-3Na      →                                                                 GTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
2-5Nb      →                                                                 GTTACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
1-2N       →                                                                   TACGATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
1-7        →                                                                      gATGGCAAAGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
1-3Nb      →                                                                              AGCGTACCGTCAAGATG----------------------NNNNNNNNNN---------------
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                                 130       140       150       160       170       180       190       200       210       220       230       240
                                 ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
4-2Nb      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAA-TGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTATACT
1-4Na      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGAAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTG
1-1        →     cgtTcGCCGCCTTCgtGAGCTGAAGCAGTCTAactAAAATGGAAGGGAACAACCCCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-3        →     CGTTCGCCGCCTTCgtGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-3        →     cgtTCGCCGCCTTcgtgAGctgAAGCAGTctAactAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGCGTTTGC-A-C-AAT
2-4a       →     ---------CCTTCGTGAGCTGAAGCAgtcTAAcTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC
3-1a       →     ---------CCTTCGTGAGCTGAAGCAgtcTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-1        →     CGTtcgcCgcCTTCgtGAGCTGAAGCAGTctAactAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-2        →     CGtTcGCCGCCtTcgtgAgctgAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-2        →     CGTtcgCCGCCTTCgtgAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
2-1Nb      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAA
2-3Na      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTC
3-5        →     CGTTCGCCGCCTTCgtGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-5        →     CGtTCGCCGCCTcCgtGAGCTGAAGCAGTctAactAAAATGGAAGGGAACAACCTCTCTCTTTTTT-GTTCTTTCTCTATTTTAC-CTgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-4        →     CGTTCGCCGCCTTCGTGAGctGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
4-5Na      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGG
2-3Nb      →     ---------CCTTCGTGAG-TGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-4Nb      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGGACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAAcaCCGTCGA-AGGTGTTTGC-A-C-AAT
4-2Na      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGG
2-2Na      →     ---------CCTTCGTGAGCTGAAGCAGTctaactAAAATGGAAGGGAACAACCTCTTTCTTt
2-5Na      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAA
4-4Nb      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTcga-AGG
4-3        →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A
4-1Na      →     ---------CCTTCGTGAGCTGAAGCAGTctAActAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GT
4-1Nb      →     ---------CCTTCG-GAGCTGAAGCAGTCTAACTAAAATGGAAG
3-5Na      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-ACAATTT
3-5Nb      →     ---------CCTTCGTGAGCTGAAGcAGTCTAaCtAAAATGGAA
3-4Na      →     ---------CCTTCgtgaGCTGAAGCAGTCTAACTAAAATGGAAGGGAACA
3-1N       →     ---------CCTTCgtGAGCTGAAGCAgtCTAactAAAATGGAAGGGAACAGCCTCTTTCTTTTTT-GTTTTTTCTctaTTTTAC-CtgtgAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-2N       →     ---------CCTTCgtgaGCTGAAGCAGTctaactAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTctaTTTTAC-ctgtgAAACACcgtCGA-AGGTGTTTGC-A-C-AAT
3-2        →     ---------CCTTCGTGAGCTGAAGCAGTctaactAAAATGGAAGGGAACAGCCTCTTTCTCTTTT-GTTTTTTCTctATTTTAC-CtgtgAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-3N       →     ---------CCTTCGTGAGctGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-3        →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtgAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-5        →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
2-2a       →     ---------CCTTCGTGAGCTGAAGCagtcTAAcTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
4-4Na      →     ---------CCTTCGTGAGCTGAAGCAgtctaActAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTgtgAAACACCGTCGA-AGGTGTTTGCACAATTTT
2-3a       →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-4a       →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
3-3a       →     ---------CCTTCGTGAGCTGAAGCAGTctAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
2-1Na      →     ---------CCTTCGTGAGCTGAAGCAGtctaaCTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTctATTttAc-ctgtgAAACACcgtCGA-AGgtgTTTGC-A-C-AAT
1-3Na      →     ---------CCTTCgtGAGCTGAAGCAGTctaactAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-ctgtgAAACACcgtCGA-AGgTGTTTGC-A-C-AAT
2-5Nb      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTt-gTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-2N       →     ---------CCTTCgtGAGCTGAAGCAGtctAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTt-gTTTTTTCTCTATTTTAC-CCgtgAAACACcgtCGA-AGgTGTTTGC-A-C-AAT
1-7        →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTTTGTTTTTTCTCTATTCTAC-CTGTGAAAcacCGTCGA-AGGTGTTTGC-A-C-AAT
1-4        →     cgtTCGCCGCCTTCgtGAGctgAAGCAgtCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CtgtGAAACACCGTCGA-AGGTGTTTGC-A-C-AGT
1-5N       →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
1-3Nb      →     ---------CCTTCGTGAGCTGAAGCAGTCTAACTAAAATGGAAGGGAACAACCTCTTTCTTTTTT-GTTTTTTCTCTATTTTAC-CTGTGAAACACCGTCGA-AGGTGTTTGC-A-C-AAT
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                                 250       260       270       280       290       300       310       320       330       340       350       360
                                 |         |         |         |         |         |         |         |         |         |         |         |
                                 TTTGTGATGCTTCAAAtAWgttgtAgggAtg-cAwRRMAAAAaaaaaaaaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
1-1      →                       TTTGTGATGCTTcaAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAa
3-3      →                       TTTGTGATGCTTcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
1-3      →                       TTTGTGATGCTTCAAATATGTTGTAGGGGTGCATGGCACAaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
3-1a     →                       TTTGTGATGCTTcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAatTA
3-1      →                       TTTGTGATGCTTCAAATATGTTGTAGGGATGcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
1-2      →                       TTTGTGATGCTTCAAATATGTTGTAGGGATGCATGGCACAaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
3-2      →                       TTTGTGATGCTTCAAATATGTTGTAGGGATGCATGGCACAcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
3-5      →                       TTTGTGATGCTTcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
1-5      →                       TTTGTGATGCTTcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3-4      →                       TTTGTGATGCTTCGAATATGTTGTAGGGATGCATGACACAaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaa
2-3Nb    →                       TT
1-4Nb    →                       TTTGTGATGCTTCAAATATGTTGTAGGGATGcaTGGCACAcatcacgGT
3-5Na    →                       TGTGATGCTTCAAATATGTTGTAGGGATGCATGGCACACATCA
3-1N     →                       TTTGTGATGCTTCAAAAA
3-2N     →                       TTTGTGATGCTTcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa
3-2      →                       TTTGTGATGCTTcaAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
3-3N     →                       TTACTGATGGTTCAAAaAAAAAAAAAAAAAAAAAAA
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