**Table S3. Barcoded Oligos for V1-V3**

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| **Barcoded oligos for V3->V1 directional sequencing.****Added the R specific primer sequence at 3' end of barcode on "A" adapter sequence****Added the F specific primer sequence at the 3' end of the "B" adapter sequence**  |
|  |  |  |
|  |  | **“B” adapter oligo sequence +27F (AGAGTTTGATCCTGGCTCAG)**  |
|  |  | CCTATCCCCTGTGTGCCTTGGCAGTCTCAGAGAGTTTGATCCTGGCTCAG  |
|  |  |  |
| **Oligo name**  | **Barcode**  | **“A” adapter oligo sequence + barcode + 534R (ATTACCGCGGCTGCTGG)** |
| XLR\_534R\_v2bBar8L  | CACGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar23L  | CGCAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGCAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar174L  | TGAAGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGAAGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar602L  | ACTTGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTTGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar212L  | TCACAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCACACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar25L  | CGTGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGTGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar622L  | ACGCGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGCGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar72L  | CCTCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCTCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar600L  | ACTCAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTCACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar559L  | AGACAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGACACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar31L  | CGACTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGACTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar551L  | AGCTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1149L  | AAGCCGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAAGCCGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar15L  | CAAGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCAAGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar556L  | AGTTGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTTGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar144L  | TATCAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATCAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar575L  | AGGCGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGGCGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar48L  | CGGTATC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGGTATCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar166L  | TGACGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGACGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar613L  | ACAAGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACAAGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar560L  | AGACCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGACCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar741L  | ATACCAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGATACCACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar228L  | TCGCGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGCGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar807L  | ATCTTAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGATCTTACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1273L  | AACCAGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACCAGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar441L  | TTCGAGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCGAGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1174L  | AAGGTGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAAGGTGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar209L  | TCTTGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCTTGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar153L  | TAATCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAATCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar213L  | TCACCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCACCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar298L  | TCCGCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCCGCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar146L  | TATTGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATTGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar554L  | AGTCGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTCGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar646L  | ACGGCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGGCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar158L  | TGCGTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCGTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar207L  | TCTCGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCTCGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar77L  | CCAGGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCAGGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar601L  | ACTCCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTCCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar481L  | TTCCTGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCCTGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar419L  | TTCATAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCATACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar26L  | CGTCGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGTCGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1172L  | AAGGCAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAAGGCACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1210L  | AACAACTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACAACTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar606L  | ACACGGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACACGGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar159L  | TGCCGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCCGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar147L  | TATTCGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATTCGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar141L  | TAGGAATC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGGAATCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar119L  | CCGGCCAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCGGCCACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1379L  | AATGGTAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAATGGTACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar208L  | TCTCCGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCTCCGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1267L  | AACCTGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACCTGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar637L  | ACGAAGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGAAGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar435L  | TTCGTGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCGTGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1202L  | AACACAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACACAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar413L  | TTCTTGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCTTGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar289L  | TCCAAGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCCAAGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar433L  | TTCGCGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCGCGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar121L  | CCGGTCGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCGGTCGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar669L  | ACCTGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACCTGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1156L  | AAGAGTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAAGAGTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar370L  | TTGACAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTGACAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar281L  | TCCAGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCCAGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar49L  | CGGTCTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGGTCTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1173L  | AAGGCCTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAAGGCCTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar599L  | ACTAATTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTAATTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar167L  | TGACCGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGACCGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar161L  | TGTCGGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTCGGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar580L  | AGGTTGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGGTTGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar629L  | ACGAGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGAGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar184L  | TGGTGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGGTGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar233L  | TCGTTGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGTTGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar364L  | TTGTGTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTGTGTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar78L  | CCACGGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCACGGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar393L  | TTGGAGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTGGAGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar350L  | TTATCGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTATCGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1164L  | AAGAAGAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAAGAAGACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1196L  | AACTGTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACTGTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar411L  | TTCTCAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCTCAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar6L  | CTTCCTTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTTCCTTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1031L  | ATTCGTAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGATTCGTACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar76L  | CCTTCCGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCTTCCGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar555L  | AGTCCGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTCCGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar378L  | TTGAACTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTGAACTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1225L  | AACGAGGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACGAGGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar99L  | CCGTTCAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGCCGTTCACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar236L  | TCGAGGAAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGAGGAACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar731L  | ACCGGAAGC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACCGGAAGCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar628L  | ACGTTCCAC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGTTCCACATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1250L  | AACGGAGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACGGAGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar438L  | TTCGTTATC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTCGTTATCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar693L  | ACCGTAATC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACCGTAATCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar672L  | ACCTTGGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGACCTTGGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar355L  | TTAAGATTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTTAAGATTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar187L  | TGGTTGGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGGTTGGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar162L  | TGTCCGGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTCCGGTCATTACCGCGGCTGCTGG  |
| XLR\_534R\_v2bBar1292L  | AACCGTGTC  | CCATCTCATCCCTGCGTGTCTCCGACTCAGAACCGTGTCATTACCGCGGCTGCTGG  |
| 27F/534R\_000 | CGTGTGACTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGTGTGACTGATTACCGCGGCTGCTGG |
| 27F/534R\_001 | CAGATACGAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCAGATACGACATTACCGCGGCTGCTGG |
| 27F/534R\_002 | AGCTCGAGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCTCGAGCGATTACCGCGGCTGCTGG |
| 27F/534R\_003 | CTATCGAGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTATCGAGAGATTACCGCGGCTGCTGG |
| 27F/534R\_004 | CTGACTATCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTGACTATCGATTACCGCGGCTGCTGG |
| 27F/534R\_005 | ATATATAGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGATATATAGCGATTACCGCGGCTGCTGG |
| 27F/534R\_006 | CAGTACGATG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCAGTACGATGATTACCGCGGCTGCTGG |
| 27F/534R\_007 | ACTCGCTAGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTCGCTAGCATTACCGCGGCTGCTGG |
| 27F/534R\_008 | TGAGTCTATC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGAGTCTATCATTACCGCGGCTGCTGG |
| 27F/534R\_009 | TAGCACTACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGCACTACTATTACCGCGGCTGCTGG |
| 27F/534R\_010 | AGCGTACGTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCGTACGTGATTACCGCGGCTGCTGG |
| 27F/534R\_011 | ACTCGTGTAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTCGTGTACATTACCGCGGCTGCTGG |
| 27F/534R\_012 | TCTACAGTAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCTACAGTAGATTACCGCGGCTGCTGG |
| 27F/534R\_013 | ACTATACATC | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTATACATCATTACCGCGGCTGCTGG |
| 27F/534R\_014 | TGCGCGAGTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCGCGAGTGATTACCGCGGCTGCTGG |
| 27F/534R\_015 | TCGCACACGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGCACACGTATTACCGCGGCTGCTGG |
| 27F/534R\_016 | AGCTATATCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCTATATCGATTACCGCGGCTGCTGG |
| 27F/534R\_017 | ACGATCGTAT | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGATCGTATATTACCGCGGCTGCTGG |
| 27F/534R\_018 | TGCATATACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCATATACGATTACCGCGGCTGCTGG |
| 27F/534R\_019 | CGAGACACTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGAGACACTGATTACCGCGGCTGCTGG |
| 27F/534R\_020 | TGTGCGCTAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTGCGCTAGATTACCGCGGCTGCTGG |
| 27F/534R\_021 | TCGTCACGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGTCACGCGATTACCGCGGCTGCTGG |
| 27F/534R\_022 | CACTCACTAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACTCACTAGATTACCGCGGCTGCTGG |
| 27F/534R\_023 | TGTACAGCTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTACAGCTCATTACCGCGGCTGCTGG |
| 27F/534R\_024 | CTGTCTGACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTGTCTGACGATTACCGCGGCTGCTGG |
| 27F/534R\_025 | CACACTCGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACACTCGCGATTACCGCGGCTGCTGG |
| 27F/534R\_026 | CGCTCGTCTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGCTCGTCTGATTACCGCGGCTGCTGG |
| 27F/534R\_027 | AGCGACGTCT | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCGACGTCTATTACCGCGGCTGCTGG |
| 27F/534R\_028 | CTCACGACGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTCACGACGCATTACCGCGGCTGCTGG |
| 27F/534R\_029 | ATGTCAGTCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGATGTCAGTCGATTACCGCGGCTGCTGG |
| 27F/534R\_030 | TCATAGACAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCATAGACACATTACCGCGGCTGCTGG |
| 27F/534R\_031 | ATGTACGTGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGATGTACGTGTATTACCGCGGCTGCTGG |
| 27F/534R\_032 | ATAGCGTGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGATAGCGTGAGATTACCGCGGCTGCTGG |
| 27F/534R\_033 | TCTGTAGCTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCTGTAGCTCATTACCGCGGCTGCTGG |
| 27F/534R\_034 | TGATATCGTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGATATCGTCATTACCGCGGCTGCTGG |
| 27F/534R\_035 | TCACTACATG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCACTACATGATTACCGCGGCTGCTGG |
| 27F/534R\_036 | AGATACGCAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGATACGCAGATTACCGCGGCTGCTGG |
| 27F/534R\_037 | TATGACTGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATGACTGAGATTACCGCGGCTGCTGG |
| 27F/534R\_038 | AGCTGACTAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCTGACTAGATTACCGCGGCTGCTGG |
| 27F/534R\_039 | CGCTACGCGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGCTACGCGCATTACCGCGGCTGCTGG |
| 27F/534R\_040 | ACTGAGTGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTGAGTGAGATTACCGCGGCTGCTGG |
| 27F/534R\_041 | AGACGCTACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGACGCTACTATTACCGCGGCTGCTGG |
| 27F/534R\_042 | TATCTAGACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATCTAGACGATTACCGCGGCTGCTGG |
| 27F/534R\_043 | TCGTACTATC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGTACTATCATTACCGCGGCTGCTGG |
| 27F/534R\_044 | TACAGTGAGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTACAGTGAGCATTACCGCGGCTGCTGG |
| 27F/534R\_045 | ATCGATAGAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGATCGATAGACATTACCGCGGCTGCTGG |
| 27F/534R\_046 | AGCAGAGACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCAGAGACGATTACCGCGGCTGCTGG |
| 27F/534R\_047 | CGACGTGCGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGACGTGCGCATTACCGCGGCTGCTGG |
| 27F/534R\_048 | CACTCTATCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACTCTATCGATTACCGCGGCTGCTGG |
| 27F/534R\_049 | TGCTCAGACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCTCAGACGATTACCGCGGCTGCTGG |
| 27F/534R\_050 | ACGATGCTCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGATGCTCGATTACCGCGGCTGCTGG |
| 27F/534R\_051 | TCGTAGCACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGTAGCACGATTACCGCGGCTGCTGG |
| 27F/534R\_052 | TCGCGCATCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGCGCATCGATTACCGCGGCTGCTGG |
| 27F/534R\_053 | TCGACGCTCT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGACGCTCTATTACCGCGGCTGCTGG |
| 27F/534R\_054 | CGACGCACAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGACGCACAGATTACCGCGGCTGCTGG |
| 27F/534R\_055 | TGCGTAGACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCGTAGACTATTACCGCGGCTGCTGG |
| 27F/534R\_056 | AGTGTACTGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTGTACTGCATTACCGCGGCTGCTGG |
| 27F/534R\_057 | CTAGACTCAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTAGACTCAGATTACCGCGGCTGCTGG |
| 27F/534R\_058 | AGCGCTGTAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCGCTGTAGATTACCGCGGCTGCTGG |
| 27F/534R\_059 | TCTCGAGCAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCTCGAGCAGATTACCGCGGCTGCTGG |
| 27F/534R\_060 | CGAGTCGAGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGAGTCGAGTATTACCGCGGCTGCTGG |
| 27F/534R\_061 | TAGCTAGTAT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGCTAGTATATTACCGCGGCTGCTGG |
| 27F/534R\_062 | AGAGTCGCGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGAGTCGCGCATTACCGCGGCTGCTGG |
| 27F/534R\_063 | CTCGTCAGTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTCGTCAGTCATTACCGCGGCTGCTGG |
| 27F/534R\_064 | AGTCTAGTCT | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTCTAGTCTATTACCGCGGCTGCTGG |
| 27F/534R\_065 | TGTACTCACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTACTCACTATTACCGCGGCTGCTGG |
| 27F/534R\_066 | CTATGTACAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTATGTACAGATTACCGCGGCTGCTGG |
| 27F/534R\_067 | TCGTGATAGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGTGATAGTATTACCGCGGCTGCTGG |
| 27F/534R\_068 | TGTGTACGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTGTACGAGATTACCGCGGCTGCTGG |
| 27F/534R\_069 | ATCTAGTCAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGATCTAGTCACATTACCGCGGCTGCTGG |
| 27F/534R\_070 | TATGAGAGTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATGAGAGTGATTACCGCGGCTGCTGG |
| 27F/534R\_071 | TACTGCTCAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTACTGCTCAGATTACCGCGGCTGCTGG |
| 27F/534R\_072 | CTATACTACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTATACTACTATTACCGCGGCTGCTGG |
| 27F/534R\_073 | ACAGTGCTAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGACAGTGCTACATTACCGCGGCTGCTGG |
| 27F/534R\_074 | AGTATAGAGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTATAGAGCATTACCGCGGCTGCTGG |
| 27F/534R\_075 | ACATCGCGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACATCGCGAGATTACCGCGGCTGCTGG |
| 27F/534R\_076 | ATGACGACTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGATGACGACTCATTACCGCGGCTGCTGG |
| 27F/534R\_077 | TGTATGTACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTATGTACTATTACCGCGGCTGCTGG |
| 27F/534R\_078 | CGCGAGATAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGCGAGATACATTACCGCGGCTGCTGG |
| 27F/534R\_079 | CTACAGTGTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCTACAGTGTGATTACCGCGGCTGCTGG |
| 27F/534R\_080 | TATCACGATG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATCACGATGATTACCGCGGCTGCTGG |
| 27F/534R\_081 | TGCTACGTCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCTACGTCGATTACCGCGGCTGCTGG |
| 27F/534R\_082 | CGTCACGTGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGTCACGTGCATTACCGCGGCTGCTGG |
| 27F/534R\_083 | TCAGCACTCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCAGCACTCGATTACCGCGGCTGCTGG |
| 27F/534R\_084 | CGTGACTGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGTGACTGCGATTACCGCGGCTGCTGG |
| 27F/534R\_085 | ACTATAGTAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTATAGTACATTACCGCGGCTGCTGG |
| 27F/534R\_086 | ATATGTCGTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGATATGTCGTGATTACCGCGGCTGCTGG |
| 27F/534R\_087 | TACTAGATGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTACTAGATGTATTACCGCGGCTGCTGG |
| 27F/534R\_088 | TGTCTGTCTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGTCTGTCTCATTACCGCGGCTGCTGG |
| 27F/534R\_089 | CGTGACGATC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGTGACGATCATTACCGCGGCTGCTGG |
| 27F/534R\_090 | CGCGTGTCAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGCGTGTCACATTACCGCGGCTGCTGG |
| 27F/534R\_091 | TCACGTATCT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCACGTATCTATTACCGCGGCTGCTGG |
| 27F/534R\_092 | TAGAGACTAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGAGACTAGATTACCGCGGCTGCTGG |
| 27F/534R\_093 | TATGCGCGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATGCGCGCGATTACCGCGGCTGCTGG |
| 27F/534R\_094 | CATATACACG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCATATACACGATTACCGCGGCTGCTGG |
| 27F/534R\_095 | TCGACTCGAT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCGACTCGATATTACCGCGGCTGCTGG |
| 27F/534R\_096 | ACACAGTCGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGACACAGTCGTATTACCGCGGCTGCTGG |
| 27F/534R\_097 | AGTACACGTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGTACACGTCATTACCGCGGCTGCTGG |
| 27F/534R\_098 | TAGCGATGAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGCGATGACATTACCGCGGCTGCTGG |
| 27F/534R\_099 | TGCGTATAGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCGTATAGCATTACCGCGGCTGCTGG |
| 27F/534R\_100 | CGACGCGATG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGACGCGATGATTACCGCGGCTGCTGG |
| 27F/534R\_101 | ACGCACTGCG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGCACTGCGATTACCGCGGCTGCTGG |
| 27F/534R\_102 | ACTGTGACTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGACTGTGACTCATTACCGCGGCTGCTGG |
| 27F/534R\_103 | TGATCGACAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGATCGACAGATTACCGCGGCTGCTGG |
| 27F/534R\_104 | TAGTATCGAT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGTATCGATATTACCGCGGCTGCTGG |
| 27F/534R\_105 | TAGACGCATC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTAGACGCATCATTACCGCGGCTGCTGG |
| 27F/534R\_106 | TATCGATCTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATCGATCTCATTACCGCGGCTGCTGG |
| 27F/534R\_107 | TATCAGTCGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGTATCAGTCGTATTACCGCGGCTGCTGG |
| 27F/534R\_108 | ACAGCTATAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACAGCTATAGATTACCGCGGCTGCTGG |
| 27F/534R\_109 | CACTCTCGAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACTCTCGACATTACCGCGGCTGCTGG |
| 27F/534R\_110 | AGCTACTCTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGCTACTCTGATTACCGCGGCTGCTGG |
| 27F/534R\_111 | ATACGAGAGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGATACGAGAGCATTACCGCGGCTGCTGG |
| 27F/534R\_112 | ACGTCGCAGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGTCGCAGTATTACCGCGGCTGCTGG |
| 27F/534R\_113 | ATGTCGTACT | CCATCTCATCCCTGCGTGTCTCCGACTCAGATGTCGTACTATTACCGCGGCTGCTGG |
| 27F/534R\_114 | CATGTACGTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCATGTACGTCATTACCGCGGCTGCTGG |
| 27F/534R\_115 | CACGCGTCTC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACGCGTCTCATTACCGCGGCTGCTGG |
| 27F/534R\_116 | CGCTATCGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGCGCTATCGAGATTACCGCGGCTGCTGG |
| 27F/534R\_117 | ACGACACGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGACACGAGATTACCGCGGCTGCTGG |
| 27F/534R\_118 | TGCGCGTCGC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTGCGCGTCGCATTACCGCGGCTGCTGG |
| 27F/534R\_119 | TCAGCTCGTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGTCAGCTCGTGATTACCGCGGCTGCTGG |
| 27F/534R\_120 | AGACGACTGT | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGACGACTGTATTACCGCGGCTGCTGG |
| 27F/534R\_121 | CACAGTATAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGCACAGTATACATTACCGCGGCTGCTGG |
| 27F/534R\_122 | ACGTCATCTG | CCATCTCATCCCTGCGTGTCTCCGACTCAGACGTCATCTGATTACCGCGGCTGCTGG |
| 27F/534R\_123 | AGACTGTGAG | CCATCTCATCCCTGCGTGTCTCCGACTCAGAGACTGTGAGATTACCGCGGCTGCTGG |
| 27F/534R\_124 | TACACATCAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGTACACATCACATTACCGCGGCTGCTGG |
| 27F/534R\_125 | ATAGCTCGAC | CCATCTCATCCCTGCGTGTCTCCGACTCAGATAGCTCGACATTACCGCGGCTGCTGG |