

**Table S7.** Comparison of the TPI Genomic Locus between NF and AF with Multiple Sequence Alignment

**Note:**

ATGC: non-coding region  
**ATGC:** 5'-untranslated region (5'-UTR)  
**ATGC:** coding region/Open Reading Frame (ORF)  
**ATGC:** 3'-untranslated region (3'-UTR)  
**ATGC:** Polymorphism  
 #:  $p < 0.0001$  (CHI-Test)

|                          |                                                              |     |
|--------------------------|--------------------------------------------------------------|-----|
| NF-8                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-6                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-9                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-7                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-1                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-5                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-4                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-2                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-1                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-3                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-9                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-8                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-6                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-2                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-10                    | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-7                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-5                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| AF-4                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-10                    | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| NF-3                     | ATTTTGGCAAGCCTGTTGATAAAAGCTTTTCCAGAGCTTTTGGGAAGCGACGCCAAAAC  | 60  |
| *****                    |                                                              |     |
|                          | # ##### # #                                                  |     |
| NF-8                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-6                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-9                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-7                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-1                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-5                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-4                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| NF-2                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAAAAGGTTGGAGTCGCTGCTAAATCTAAA | 120 |
| AF-1                     | GTTGGAGCTCACTTGCTCAAAGTTCCCCATCAGATGGTTGGAGTCACTGCTAAATCTAAA | 120 |
| AF-3                     | GTTGGAGCCCA-----AGTTCCCCATCAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-9                     | GTTGGAGCCCA-----AGTTCCCCATCAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-8                     | GTTGGAGCCCA-----AGTTCCCCATCAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-6                     | GTTGGAGCCCA-----AGTTCCCCATCAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-2                     | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-10                    | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-7                     | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-5                     | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| AF-4                     | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| NF-10                    | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| NF-3                     | GTTGGAGCCCA-----AGTTCCCCATTAGATGGTTGGAGTCACTGCTAAATCTAAA     | 111 |
| ***** ** ***** * * ***** |                                                              |     |



|       |                                                              |     |
|-------|--------------------------------------------------------------|-----|
| AF-10 | ATCTGAACAGGAACGGTATCCAGTGCATTGCATCAGTAACGCTTCTCCAGCGATTCCCGT | 291 |
| AF-7  | ATCTGAACAGGAACGGTATCCAGTGCATTGCATCAGTAACGCTTCTCCAGCGATTCCCGT | 291 |
| AF-5  | ATCTGAACAGGAACGGTATCCAGTGCATTGCATCAGTAACGCTTCTCCAGCGATTCCCGT | 291 |
| AF-4  | ATCTGAACAGGAACGGTATCCAGTGCATTGCATCAGTAACGCTTCTCCAGCGATTCCCGT | 291 |
| NF-10 | ATCTGAACAGGAACGGTATCCAGTGCATTGCATCAGTAACGCTTCTCCAGCGATTCCCGT | 291 |
| NF-3  | ATCTGAACAGGAACGGTATCCAGTGCATTGCATCAGTAACGCTTCTCCAGCGATTCCCGT | 291 |

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|       |                                                              |     |
|-------|--------------------------------------------------------------|-----|
| NF-8  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-6  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-9  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-7  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-1  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-5  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-4  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| NF-2  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| AF-1  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 360 |
| AF-3  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-9  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-8  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-6  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-2  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-10 | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-7  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-5  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| AF-4  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| NF-10 | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |
| NF-3  | ATCATCGGAACCACCACACCATCCCCACCATGGACCAGAACCGACCCACTGTGGGTGGTG | 351 |

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|       |                                                              |     |
|-------|--------------------------------------------------------------|-----|
| NF-8  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-6  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-9  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-7  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-1  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-5  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-4  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| NF-2  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| AF-1  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 420 |
| AF-3  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-9  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-8  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-6  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-2  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-10 | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-7  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-5  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| AF-4  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| NF-10 | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |
| NF-3  | TTACGGCGGAGGTACTAAAAGCCGTCGTTTCGGAAGCTCTGCTGGGCAAATTCACAGCTG | 411 |

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|------|-------------------------------------------------------------|-----|
| NF-8 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |
| NF-6 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |
| NF-9 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |
| NF-7 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |
| NF-1 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |
| NF-5 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |
| NF-4 | TTTTCCCAAAGCTTTTCAAGTGCCAGTGGAAGACTTACGAAGGTCAAAGAAGGTTAGTA | 480 |





|       |                                                              |     |
|-------|--------------------------------------------------------------|-----|
| AF-7  | TGCGTGGGAGGCAACTGGAAGATGAACGGCGACCAGAAGTCCATCGCCGAGATCGCCAAG | 771 |
| AF-5  | TGCGTGGGAGGCAACTGGAAGATGAACGGCGACCAGAAGTCCATCGCCGAGATCGCCAAG | 771 |
| AF-4  | TGCGTGGGAGGCAACTGGAAGATGAACGGCGACCAGAAGTCCATCGCCGAGATCGCCAAG | 771 |
| NF-10 | TGCGTGGGAGGCAACTGGAAGATGAACGGCGACCAGAAGTCCATCGCCGAGATCGCCAAG | 771 |
| NF-3  | TGCGTGGGAGGCAACTGGAAGATGAACGGCGACCAGAAGTCCATCGCCGAGATCGCCAAG | 771 |

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|       |                                                              |     |
|-------|--------------------------------------------------------------|-----|
| NF-8  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-6  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-9  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-7  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-1  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-5  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-4  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| NF-2  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| AF-1  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 840 |
| AF-3  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-9  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-8  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-6  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-2  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-10 | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-7  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-5  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| AF-4  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| NF-10 | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |
| NF-3  | ACCCTGAGCTCGGCCGCCCTCGACCCCAACACGGAGGTGGTCATCGGCTGCCCGGCCATC | 831 |

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|       |                                                                      |     |
|-------|----------------------------------------------------------------------|-----|
| NF-8  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| NF-6  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>A</b> CCAGAATGCC | 900 |
| NF-9  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| NF-7  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| NF-1  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| NF-5  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| NF-4  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| NF-2  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| AF-1  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 900 |
| AF-3  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-9  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-8  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-6  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-2  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-10 | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-7  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-5  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| AF-4  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| NF-10 | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |
| NF-3  | TACCTGATGTACGCCGCAACCTGCTGCCCTGCGAGCTGGGTCTGGCCG <b>G</b> CCAGAATGCC | 891 |

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|      |                                                                     |     |
|------|---------------------------------------------------------------------|-----|
| NF-8 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-6 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-9 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-7 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-1 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-5 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-4 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |
| NF-2 | TAC <b>A</b> AGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCTGCGATGCTGAAGGACATC | 960 |

|       |                                                             |     |
|-------|-------------------------------------------------------------|-----|
| AF-1  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 960 |
| AF-3  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-9  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-8  | TACGAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-6  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-2  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-10 | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-7  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-5  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| AF-4  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| NF-10 | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |
| NF-3  | TACAAGGTGGCCAAGGGCGCATTACCGGCGAGATCTCGCCTGCGATGCTGAAGGACATC | 951 |

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|-------|-------------------------------------------------------------|------|
| NF-8  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-6  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-9  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-7  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-1  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-5  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-4  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| NF-2  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| AF-1  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1020 |
| AF-3  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-9  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-8  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-6  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-2  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-10 | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-7  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-5  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| AF-4  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| NF-10 | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |
| NF-3  | GGCGCCGACTGGGTGATCCTGGGAACTCGGAGCGTCGCGCCATCTTCGGCGAATCGGAC | 1011 |

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|-------|--------------------------------------------------------------|------|
| NF-8  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-6  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-9  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-7  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-1  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-5  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-4  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| NF-2  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| AF-1  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1080 |
| AF-3  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-9  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-8  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-6  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-2  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-10 | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-7  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-5  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| AF-4  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| NF-10 | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |
| NF-3  | GCCCTGATCGCCGAGAAGGCCGAGCACGCCCTGGCCGAGGGCCTCAAGGTCATCGCCTGC | 1071 |

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|      |                                                            |      |
|------|------------------------------------------------------------|------|
| NF-8 | ATTGGTGAGACCCTGGAGGAGCGGAGGCCGGCAAGACCAACGAGGTGGTGGCCGCCAA | 1140 |
|------|------------------------------------------------------------|------|



|       |                    |                          |              |        |      |
|-------|--------------------|--------------------------|--------------|--------|------|
| AF-7  | GTCTGGGCCATTGGCACC | GGCAAGACCGCCACACCCGATCAG | GTAAGGTCGCCC | TTAGCC | 1251 |
| AF-5  | GTCTGGGCCATTGGCACC | GGCAAGACCGCCACACCCGATCAG | GTAAGGTCGCCC | TTAGCC | 1251 |
| AF-4  | GTCTGGGCCATTGGCACC | GGCAAGACCGCCACACCCGATCAG | GTAAGGTCGCCC | TTAGCC | 1251 |
| NF-10 | GTCTGGGCCATTGGCACC | GGCAAGACCGCCACACCCGATCAG | GTAAGGTCGCCC | TTAGCC | 1251 |
| NF-3  | GTCTGGGCCATTGGCACC | GGCAAGACCGCCACACCCGATCAG | GTAAGGTCGCCC | TTAGCC | 1251 |

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|       |       |                                             |              |      |
|-------|-------|---------------------------------------------|--------------|------|
| NF-8  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-6  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-9  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-7  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-1  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-5  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-4  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| NF-2  | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1320 |
| AF-1  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1315 |
| AF-3  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1306 |
| AF-9  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1306 |
| AF-8  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1306 |
| AF-6  | CAGAG | ACTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1306 |
| AF-2  | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |
| AF-10 | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |
| AF-7  | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |
| AF-5  | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |
| AF-4  | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |
| NF-10 | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |
| NF-3  | CAGAG | GCTAATCCCTTCCAGAACTGATATTTTCCCTTCCCAATTGCAG | GCTCAAGAGGTC | 1311 |

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|       |                                                              |      |
|-------|--------------------------------------------------------------|------|
| NF-8  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-6  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-9  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-7  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-1  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-5  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-4  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| NF-2  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1380 |
| AF-1  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1375 |
| AF-3  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1366 |
| AF-9  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1366 |
| AF-8  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1366 |
| AF-6  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1366 |
| AF-2  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |
| AF-10 | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |
| AF-7  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |
| AF-5  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |
| AF-4  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |
| NF-10 | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |
| NF-3  | CACGCCTTCCTGCGCCAGTGGCTGAGCGACAACATCTCCAAGGAGGTGTCCGCCAGCCTG | 1371 |

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|      |                                                              |      |
|------|--------------------------------------------------------------|------|
| NF-8 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-6 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-9 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-7 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-1 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-5 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-4 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| NF-2 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1440 |

|       |                                                              |      |
|-------|--------------------------------------------------------------|------|
| AF-1  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1435 |
| AF-3  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1426 |
| AF-9  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1426 |
| AF-8  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1426 |
| AF-6  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1426 |
| AF-2  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |
| AF-10 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |
| AF-7  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |
| AF-5  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |
| AF-4  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |
| NF-10 | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |
| NF-3  | CGCATCCAGTACGGTGGATCCGTGACCGCCGCCAACGCCAAGGAGCTGGCCAAGAAGCCC | 1431 |

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|-------|--------------------------------------------------------------|------|
| NF-8  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-6  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-9  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-7  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-1  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-5  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-4  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| NF-2  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1500 |
| AF-1  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1495 |
| AF-3  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1486 |
| AF-9  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1486 |
| AF-8  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1486 |
| AF-6  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1486 |
| AF-2  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |
| AF-10 | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |
| AF-7  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |
| AF-5  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |
| AF-4  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |
| NF-10 | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |
| NF-3  | GACATCGATGGCTTCCTGGTCGGAGGCGCCTCCCTGAAGCCCGAGTTCGTGGACATCATC | 1491 |

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|       |                                                               |      |
|-------|---------------------------------------------------------------|------|
| NF-8  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-6  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-9  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-7  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-1  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-5  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-4  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| NF-2  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1560 |
| AF-1  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1555 |
| AF-3  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1546 |
| AF-9  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1546 |
| AF-8  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1546 |
| AF-6  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1546 |
| AF-2  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |
| AF-10 | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |
| AF-7  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |
| AF-5  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |
| AF-4  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |
| NF-10 | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |
| NF-3  | AACGCCCGGCAGTAAGCAACGCGATCTCAAGCATCAGATCGCTTTTCGGCCAGCGAACTGC | 1551 |

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|------|------------------------------------------------------------|------|
| NF-8 | CCGCGAAGGAGGCACTGGAGGGCAGGACTCCATACTCTGCGCGCAATGCATTACGCAC | 1615 |
|------|------------------------------------------------------------|------|



|       |                                                              |      |
|-------|--------------------------------------------------------------|------|
| AF-7  | CTACTCACATCCTTGTTGTTGAACGTATAGTAGTCCATTGTGTAAATCTTAAATTATTCA | 1731 |
| AF-5  | CTACTCACATCCTTGTTGTTGAACGTATAGTAGTCCATTGTGTAAATCTTAAATTATTCA | 1731 |
| AF-4  | CTACTCACATCCTTGTTGTTGAACGTATAGTAGTCCATTGTGTAAATCTTAAATTATTCA | 1731 |
| NF-10 | CTACTCACATCCTTGTTGTTGAACGTATAGTAGTCCATTGTGTAAATCTTAAATTATTCA | 1731 |
| NF-3  | CTACTCACATCCTTGTTGTTGAACGTATAGTAGTCCATTGTGTAAATCTTAAATTATTCA | 1731 |

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|-------|-------------------------------------------|---------------------|------|
| NF-8  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-6  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-9  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-7  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-1  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-5  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-4  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| NF-2  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1800 |
| AF-1  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1795 |
| AF-3  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1786 |
| AF-9  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1786 |
| AF-8  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1786 |
| AF-6  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1786 |
| AF-2  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |
| AF-10 | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |
| AF-7  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |
| AF-5  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |
| AF-4  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |
| NF-10 | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |
| NF-3  | GGCAATAATTATGCGCTACTCATTCTATTATATACCAAACC | AAACAGGTGTCTTATTTTT | 1791 |

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|-------|--------------------------------------------------------------|------|
| NF-8  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-6  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-9  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-7  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-1  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-5  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-4  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| NF-2  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1860 |
| AF-1  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1855 |
| AF-3  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1846 |
| AF-9  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1846 |
| AF-8  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1846 |
| AF-6  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1846 |
| AF-2  | TGCAAGACTGTTTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG | 1851 |
| AF-10 | TGCAAGACTGTTTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG | 1851 |
| AF-7  | TGCAAGACTGTTTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG | 1851 |
| AF-5  | TGCAAGACTGTTTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG | 1851 |
| AF-4  | TGCAAGACTGTTTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG | 1851 |
| NF-10 | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1851 |
| NF-3  | TGCAAGACTATTCAGCTATTTTTAGAGCGATTGGTTGAACGACAAGGTGTCCAAAGTTG  | 1851 |

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|------|-----------------------------------------|------|
| NF-8 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |
| NF-6 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |
| NF-9 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |
| NF-7 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |
| NF-1 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |
| NF-5 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |
| NF-4 | TGTGCACATATGTACATATATGTGTACCTCTGCGGACCT | 1895 |

|       |                                          |      |
|-------|------------------------------------------|------|
| NF-2  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1900 |
| AF-1  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1895 |
| AF-3  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1886 |
| AF-9  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1886 |
| AF-8  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1886 |
| AF-6  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1886 |
| AF-2  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
| AF-10 | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
| AF-7  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
| AF-5  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
| AF-4  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
| NF-10 | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
| NF-3  | TGTGCACATATGTACATATATGTGTCACCTCTGCGGACCT | 1891 |
|       | *****                                    |      |