**HJP-176-IVS-Syn21-CreA-gp41-1N-WPREw**

1 TAAGAAACCA TTATTATCAT GACATTAACC TATAAAAATA GGCGTATCAC

51 GAGGCCCTTT CGTCTTCAAG AATTCGTTTA TCACAAGTTT GTACAAAAAA

101 GCTGAACGAG AAACGTAAAA TGATATAAAT ATCAATATAT TAAATTAGAT

151 TTTGCATAAA AAACAGACTA CATAATACTG TAAAACACAA CATATCCAGT

201 CACTATGGCG GCCGCATTAG GCACCCCAGG CTTTACACTT TATGCTTCCG

251 GCTCGTATAA TGTGTGGATT TTGAGTTAGG ATCCGTCGAG ATTTTCAGGA

301 GCTAAGGAAG CTAAAATGGA GAAAAAAATC ACTGGATATA CCACCGTTGA

351 TATATCCCAA TGGCATCGTA AAGAACATTT TGAGGCATTT CAGTCAGTTG

401 CTCAATGTAC CTATAACCAG ACCGTTCAGC TGGATATTAC GGCCTTTTTA

451 AAGACCGTAA AGAAAAATAA GCACAAGTTT TATCCGGCCT TTATTCACAT

501 TCTTGCCCGC CTGATGAATG CTCATCCGGA ATTCCGTATG GCAATGAAAG

551 ACGGTGAGCT GGTGATATGG GATAGTGTTC ACCCTTGTTA CACCGTTTTC

601 CATGAGCAAA CTGAAACGTT TTCATCGCTC TGGAGTGAAT ACCACGACGA

651 TTTCCGGCAG TTTCTACACA TATATTCGCA AGATGTGGCG TGTTACGGTG

701 AAAACCTGGC CTATTTCCCT AAAGGGTTTA TTGAGAATAT GTTTTTCGTC

751 TCAGCCAATC CCTGGGTGAG TTTCACCAGT TTTGATTTAA ACGTGGCCAA

801 TATGGACAAC TTCTTCGCCC CCGTTTTCAC CATGGGCAAA TATTATACGC

851 AAGGCGACAA GGTGCTGATG CCGCTGGCGA TTCAGGTTCA TCATGCCGTT

901 TGTGATGGCT TCCATGTCGG CAGAATGCTT AATGAATTAC AACAGTACTG

951 CGATGAGTGG CAGGGCGGGG CGTAAACGCG TGGATCCGGC TTACTAAAAG

1001 CCAGATAACA GTATGCGTAT TTGCGCGCTG ATTTTTGCGG TATAAGAATA

1051 TATACTGATA TGTATACCCG AAGTATGTCA AAAAGAGGTA TGCTATGAAG

1101 CAGCGTATTA CAGTGACAGT TGACAGCGAC AGCTATCAGT TGCTCAAGGC

1151 ATATATGATG TCAATATCTC CGGTCTGGTA AGCACAACCA TGCAGAATGA

1201 AGCCCGTCGT CTGCGTGCCG AACGCTGGAA AGCGGAAAAT CAGGAAGGGA

1251 TGGCTGAGGT CGCCCGGTTT ATTGAAATGA ACGGCTCTTT TGCTGACGAG

1301 AACAGGGGCT GGTGAAATGC AGTTTAAGGT TTACACCTAT AAAAGAGAGA

1351 GCCGTTATCG TCTGTTTGTG GATGTACAGA GTGATATTAT TGACACGCCC

1401 GGGCGACGGA TGGTGATCCC CCTGGCCAGT GCACGTCTGC TGTCAGATAA

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1501 GCATGATGAC CACCGATATG GCCAGTGTGC CGGTCTCCGT TATCGGGGAA

1551 GAAGTGGCTG ATCTCAGCCA CCGCGAAAAT GACATCAAAA ACGCCATTAA

1601 CCTGATGTTC TGGGGAATAT AAATGTCAGG CTCCCTTATA CACAGCCAGT

1651 CTGCAGGTCG ACCATAGTGA CTGGATATGT TGTGTTTTAC AGTATTATGT

1701 AGTCTGTTTT TTATGCAAAA TCTAATTTAA TATATTGATA TTTATATCAT

1751 TTTACGTTTC TCGTTCAGCT TTCTTGTACA AAGTGGTGAT AAACGGCCGG

1801 CCAGATCTGG TACCGCTAGA AAAAGGTAGG TTCAACCACT GATGCCTAGG

1851 CACACCGAAA CGACTAACCC TAATTCTTAT CCTTTACTTC AGGGCTAGCA

1901 ACTTAAAAAA AAAAATCAAA ATGAGTAACT TGCTCACGGT ACACCAAAAT

1951 TTGCCGGCCC TGCCTGTGGA CGCCACGTCC GACGAGGTCC GAAAGAATCT

2001 GATGGACATG TTCCGTGACA GGCAGGCCTT TAGCGAGCAC ACCTGGAAGA

2051 TGCTGCTCTC GGTGTGCAGG TCCTGGGCCG CTTGGTGCAA GCTGAACAAC

2101 CGAAAGTGGT TTCCCGCGGA GCCCGAGGAC GTCCGCGATT ATCTGCTGTA

2151 CCTGCAGGCT CGCGGACTGG CCGTCAAAAC AATACAGCAA CATTTGGGTC

2201 AGCTGAACAT GCTCCACAGG CGCAGCGGAC TGCCCCGGCC ATCCGATTGC

2251 CTGGATCTGA AGACCCAGGT GCAGACCCCC CAGGGCATGA AGGAGATCAG

2301 CAACATCCAG GTGGGCGATC TGGTGCTGAG CAACACCGGC TACAACGAGG

2351 TGCTGAACGT GTTCCCCAAG AGCAAGAAGA AGAGCTACAA GATCACCCTG

2401 GAGGATGGCA AGGAGATCAT CTGCAGCGAG GAGCACCTGT TCCCCACCCA

2451 GACCGGCGAG ATGAACATCA GCGGCGGCCT GAAGGAGGGC ATGTGCCTGT

2501 ACGTGAAGGA GTAAACCGGT GTTTAAACAA TCAACCTCTG GATTACAAAA

2551 TTTGTGAAAG ATTGACTGGT ATTCTTAACT ATGTTGCTCC TTTTACGCTA

2601 TGTGGATACG CTGCTTTAAT GCCTTTGTAT CATGCTATTG CTTCCCGTAT

2651 GGCTTTCATT TTCTCCTCCT TGTATAAATC CTGGTTGCTG TCTCTTTATG

2701 AGGAGTTGTG GCCCGTTGTC AGGCAACGTG GCGTGGTGTG CACTGTGTTT

2751 GCTGACGCAA CCCCCACTGG TTGGGGCATT GCCACCACCT GTCAGCTCCT

2801 TTCCGGGACT TTCGCTTTCC CCCTCCCTAT TGCCACGGCG GAACTCATCG

2851 CCGCCTGCCT TGCCCGCTGC TGGACAGGGG CTCGGCTGTT GGGCACTGAC

2901 AATTCCGTGG TGTTGTCGGG GAAATCATCG TCCTTTCCTT GGCTGCTCGC

2951 CTGTGTTGCC ACCTGGATTC TGCGCGGGAC GTCCTTCTGC TACGTCCCTT

3001 CGGCCCTCAA TCCAGCGGAC CTTCCTTCCC GCGGCCTGCT GCCGGCTCTG

3051 CGGCCTCTTC CGCGTCTTCG CCTTCGCCCT CAGACGAGTC GGATCTCCCT

3101 TTGGGCCGCC TCCCCGCCTG AAGCTTATCG ATACCGTCGA CTAAAGCCAA

3151 ATAGAAAATT ATTCAGTTCC TGGCTTAAGT TTTTAAAAGT GATATTATTT

3201 ATTTGGTTGT AACCAACCAA AAGAATGTAA ATAACTAATA CATAATTATG

3251 TTAGTTTTAA GTTAGCAACA AATTGATTTT AGCTATATTA GCTACTTGGT

3301 TAATAAATAG AATATATTTA TTTAAAGATA ATTGCGTTTT TATTGTCAGG

3351 GAGTGAGTTT GCTTAAAAAC TCGTTTAGAT CCACTAGTTC TAGAGCGGCC

3401 GCTGGCCACG GGTGCGCATG ATCGTGCTCC TGTCGTTGAG GACCCGGCTA

3451 GGCTGGCGGG GTTGCCTTAC TGGTTAGCAG AATGAATCAC CGATACGCGA

3501 GCGAACGTGA AGCGACTGCT GCTGCAAAAC GTCTGCGACC TGAGCAACAA

3551 CATGAATGGT CTTCGGTTTC CGTGTTTCGT AAAGTCTGGA AACGCGGAAG

3601 TCAGCGCCCT GCACCATTAT GTTCCGGAGG CGCGCCCTAG TTCCAGTGAA

3651 ATCCAAGCAT TTTCTAAATT AAATGTATTC TTATTATTAT AGTTGTTATT

3701 TTTGATATAT ATAAACAACA CTATTATGCC CACCATTTTT TTGAGATGCA

3751 TCTACACAAG GAACAAACAC TGGATGTCAC TTTCAGTTCA AATTGTAACG

3801 CTAATCACTC CGAACAGGTC ACAAAAAATT ACCTTAAAAA GTCATAATAT

3851 TAAATTAGAA TAAATATAGC TGTGAGGGAA ATATATACAA ATATATTGGA

3901 GCAAATAAAT TGTACATACA AATATTTATT ACTAATTTCT ATTGAGACGA

3951 AATGAACCAC TCGGAACCAT TTGAGCGAAC CGAATCGCGC GGAACTAACG

4001 ACAGTCGCTC CAAGGTCGTC GAACAAAAGG TGAATGTGTT GCGGAGAGCG

4051 GGTGGGAGAC AGCGAAAGAG CAACTACGAA ACGTGGTGTG GTGGAGGTGA

4101 ATTATGAAGA GGGCGCGCGA TTTGAAAAGT ATGTATATAA AAAATATATC

4151 CCGGTGTTTT ATGTAGCGAT AAACGAGTTT TTGATGTAAG GTATGCAGGT

4201 GTGTAAGTCT TTTGGTTAGA AGACAAATCC AAAGTCTACT TGTGGGGATG

4251 TTCGAAGGGG AAATACTTGT ATTCTATAGG TCATATCTTG TTTTTATTGG

4301 CACAAATATA ATTACATTAG CTTTTTGAGG GGGCAATAAA CAGTAAACAC

4351 GATGGTAATA ATGGTAAAAA AAAAAAACAA GCAGTTATTT CGGATATATG

4401 TCGGCTACTC CTTGCGTCGG GCCCGAAGTC TTAGAGCCAG ATATGCGAGC

4451 ACCCGGAAGC TCACGATGAG AATGGCCAGA CCCACGTAGT CCAGCGGCAG

4501 ATCGGCGGCG GAGAAGTTAA GCGTCTCCAG GATGACCTTG CCCGAACTGG

4551 GGCACGTGGT GTTCGACGAT GTGCAGCTAA TTTCGCCCGG CTCCACGTCC

4601 GCCCATTGGT TAATCAGCAG ACCCTCGTTG GCGTAACGGA ACCATGAGAG

4651 GTACGACAAC CATTTGAGGT ATACTGGCAC CGAGCCCGAG TTCAAGAAGA

4701 AGCCGCCAAA GAGCAGGAAT GGTATGATAA CCGGCGGACC CACAGACAGC

4751 GCCATCGAGG TCGAGGAGCT GGCGCAGGAT ATTAGATATC CGAAGGACGT

4801 TGACACATTG GCCACCAGAG TGACCAGCGC CAGGCAGTTG AAGAAGTGCA

4851 GCACTCCGGC CCGCAGTCCG ATCATCGGAT AGGCAATCGC CGTGAAGACC

4901 AGTGGCACTG TGAGAAAAAG CGGCAATTCG GCAATCGTTT TGCCCAGAAA

4951 GTATGTGTCA CAGCGATAAA GTCGACTTCG GGCCTCCCTC ATAAAAACTG

5001 GCAGCTCTGA GGTGAACACC TAAATCGAAT CGATTCATTA GAAAGTTAGT

5051 AAATTATTGA AATGCAAATG TATTCTAAAC ATGACTTACA TTTATCGTGG

5101 CAAAGACGTT TTGAAAGGTC ATGTTGGTCA GGAAGAGGAA GATGGCTCCG

5151 TTGATATTCA TCACACCCAC TTGCGTGAGT TGTTGGCCCA AAAAGATGAG

5201 GCCAATCAAG ATGGCAACCA TCTGCAAATT AAAATGTTAC TCGCATCTCA

5251 TTAATATTCG CGAGTTAAAT GAAATTTATT TATCTTCTGC AAAACTATAA

5301 ACTATACATC TCATTGAAAA AAACTAAGAA GGGTGTGGAA TCAGGCAATT

5351 CTATCTAAAA TCTAGCGAAT TTGTTTCCAA GAATTGTAAG CGTTATATCA

5401 TTTGTTTCCA CTGGAACCAC TCACCGTTGT CTGAATAAGT CGCACTTTTA

5451 CGAGGAGTGG TTCCTTGAGC ACCGACAGCC AGGATCGCCA CAGGACCGCC

5501 CGGAACTGCA TGAACCAGGT GGCCTTGTAG GTGTACCCAT TCTCCGGCTG

5551 CTCCAGTGGC TTCTCCAGAT TTTTGGTGGC CAACAACTGC TCCATATCCC

5601 GGGCTACTTT GCTAATGGCA AAATTGTCGC ATATCTTGGC GATCCGATCA

5651 CGGGACTCGA TCTCCCGTCC GGGCACAACG GCCAACACCT GTACGTAAAA

5701 GTCCGCCGGA TTGTAGTTGG TAGGACACTG GGCACCCACG CTGGATAGGA

5751 GTTGAGATGT TATGTAATAC TAGATACCCT TAATAAACAC ATCGAACTCA

5801 CTAGGAAAAG AAGTCGACGG CTTCGCTGGG AGTGCCCAAG AAAGCTACCC

5851 TGCCCTCGGC CATCAGAAGG ATCTTGTCAA AGAGCTCAAA CAGCTCGGAA

5901 GACGGCTGAT GAATGGTCAG GATGACGGTC TTGCCCTTCT GCGACAGCTT

5951 CTTCAGCACC TGGACGACGC TGTGGGCGGT AAAGGAGTCC AGTCCGGAGG

6001 TGGGCTCATC GCAGATCAGA AGCGGCGGAT CGGTTAGAGC CTCGGAGGCG

6051 AATGCCAGAC GCTTCCTTTC TCCGCCGGAC AGACCTTTCA CCCTGCCGGG

6101 CACACCGATG ATCGTGTGCT GACATTTGCT GAGCGAAAGC TCCTGGATCA

6151 CCTGATCCAC GCGGGCCACT CGCTGCCGAT AGGTCAGATG TCGTGGCATC

6201 CGCACCATGG CTTGGAAAAT CAGGTGTTCC CTGGCCGTTA GGGAGCCGAT

6251 AAAGAGGTCA TCCTGCTGGA CATAGGCGCA CCTGGCCTGC ATCTCCTTGG

6301 CGTCCACAGG TTGGCCATTG AGCAGTCGCA TCCCGGATGG CGATACTTGG

6351 ATGCCCTGCG GCGATCGAAA GGCAAGGGCA TTCAGCAGGG TCGTCTTTCC

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6501 CAGATCAGCC GACTGCGAAT AGAAACTCAC CGTTCTTGAG CAAATGTTTC

6551 CTGGGCGCCG GTATGTGTCG CTCGTTGCAG AATAGTCCGC GTGTCCGGTT

6601 GACCAGCTGC CGCCATCCGG AGCCCGGCTG ATTGACCGCC CCAAAGATGT

6651 CCATATTGTG CCAGGCATAG GTGAGGTTCT CGGCTAGTTG GCCGCTCCCT

6701 GAACCGGAGT CCTCCGGCGG ACTGGGTGGC CGGAGCGTGC CGTAGTTTTT

6751 GGCCTGCCCG AAGCCCTGGT TAATGCAGCT CTGCGAAGCC GCTCCGCTGT

6801 CACCCTGCAA TGATAGGGGA TCTCAAATAT CAACTACTAG CGTTATGCTC

6851 ATCTAACCCC GAACAAAAAG TACCCCGAAG TATCCTACGA AGTAGGTTTA

6901 TACTTTTATT TATTTTTTGT GCATCTAGGA TCAGCTTAAA ATATCTGGTT

6951 GTTATATTTT TTGTAAAAAA GAATATAGTC GAAAATGAAT GCCTTTAGAT

7001 GTCTTGATCA TGATATGATC TCAAAAATTG TCTTATATAG CGAGAACAGC

7051 TACCAGAATA ATCTGTTTCG TGTCACTATT TGTTTGTGCA ATTGCGGTTT

7101 GGGATTTTTG TGGGTCGCAG TTCTCACGCC GCATACAATT TGATGTTGCA

7151 ATCGCAGTTC CTATAGATCA AGTGAACTTA AGATGTATGC ACATGTACTA

7201 CTCACATTGT TCAGATGCTC GGCAGATGGG TGTTTGCTGC CTCCGCGAAT

7251 TAATAGCTCC TGATCCTCTT GGCCCATTGC CGGGATTTTT CACACTTTCC

7301 CCTGCTTACC CACCCAAAAC CAATCACCAC CCCAATCACT CAAAAAACAA

7351 ACAAAAATAA GAAGCGAGAG GAGTTTTGGC ACAGCACTTT GTGTTTAATT

7401 GATGGCGTAA ACCGCTTGGA GCTTCGTCAC GAAACCGCTG ACAAAATGCA

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7501 GATAGCGGAC GCAGCGGCGA AAGAGACGGC GATATTTCTG TGGACAGAGA

7551 AGGAGGCAAA CAGCGCTGAC TTTGAGTGGA ATGTCATTTT GAGTGAGAGG

7601 TAATCGAAAG AACCTGGTAC ATCAAATACC CTTGGATCGA AGTAAATTTA

7651 AAACTGATCA GATAAGTTCA ATGATATCCA GTGCAGTAAA AAAAAAAAAT

7701 GTTTTTTTTA TCTACTTTCC GCAAAAATGG GTTTTATTAA CTTACATACA

7751 TACTAGGCGC GCCCATATGT TCGGCTTGTC GACATGCCCG CCGTGACCGT

7801 CGAGAACCCG CTGACGCTGC CCCGCGTATC CGCACCCGCC GACGCCGTCG

7851 CACGTCCCGT GCTCACCGTG ACCACCGCGC CCAGCGGTTT CGAGGGCGAG

7901 GGCTTCCCGG TGCGCCGCGC GTTCGCCGGG ATCAACTACC GCCACCTCGA

7951 CCCGTTCATC ATGATGGACC AGATGGGTGA GGTGGAGTAC GCGCCCGGGG

8001 AGCCCAAGGG CACGCCCTGG CACCCGCACC GCGGCTTCGA GACCGTGACC

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8101 CCGTAAAAAG GCCGCGTTGC TGGCGTTTTT CCATAGGCTC CGCCCCCCTG

8151 ACGAGCATCA CAAAAATCGA CGCTCAAGTC AGAGGTGGCG AAACCCGACA

8201 GGACTATAAA GATACCAGGC GTTTCCCCCT GGAAGCTCCC TCGTGCGCTC

8251 TCCTGTTCCG ACCCTGCCGC TTACCGGATA CCTGTCCGCC TTTCTCCCTT

8301 CGGGAAGCGT GGCGCTTTCT CATAGCTCAC GCTGTAGGTA TCTCAGTTCG

8351 GTGTAGGTCG TTCGCTCCAA GCTGGGCTGT GTGCACGAAC CCCCCGTTCA

8401 GCCCGACCGC TGCGCCTTAT CCGGTAACTA TCGTCTTGAG TCCAACCCGG

8451 TAAGACACGA CTTATCGCCA CTGGCAGCAG CCACTGGTAA CAGGATTAGC

8501 AGAGCGAGGT ATGTAGGCGG TGCTACAGAG TTCTTGAAGT GGTGGCCTAA

8551 CTACGGCTAC ACTAGAAGAA CAGTATTTGG TATCTGCGCT CTGCTGAAGC

8601 CAGTTACCTT CGGAAAAAGA GTTGGTAGCT CTTGATCCGG CAAACAAACC

8651 ACCGCTGGTA GCGGTGGTTT TTTTGTTTGC AAGCAGCAGA TTACGCGCAG

8701 AAAAAAAGGA TCTCAAGAAG ATCCTTTGAT CTTTTCTACG GGGTCTGACG

8751 CTCAGTGGAA CGAAAACTCA CGTTAAGGGA TTTTGGTCAT GAGATTATCA

8801 AAAAGGATCT TCACCTAGAT CCTTTTAAAT TAAAAATGAA GTTTTAAATC

8851 AATCTAAAGT ATATATGAGT AAACTTGGTC TGACAGTTAC CAATGCTTAA

8901 TCAGTGAGGC ACCTATCTCA GCGATCTGTC TATTTCGTTC ATCCATAGTT

8951 GCCTGACTCC CCGTCGTGTA GATAACTACG ATACGGGAGG GCTTACCATC

9001 TGGCCCCAGT GCTGCAATGA TACCGCGAGA CCCACGCTCA CCGGCTCCAG

9051 ATTTATCAGC AATAAACCAG CCAGCCGGAA GGGCCGAGCG CAGAAGTGGT

9101 CCTGCAACTT TATCCGCCTC CATCCAGTCT ATTAATTGTT GCCGGGAAGC

9151 TAGAGTAAGT AGTTCGCCAG TTAATAGTTT GCGCAACGTT GTTGCCATTG

9201 CTACAGGCAT CGTGGTGTCA CGCTCGTCGT TTGGTATGGC TTCATTCAGC

9251 TCCGGTTCCC AACGATCAAG GCGAGTTACA TGATCCCCCA TGTTGTGCAA

9301 AAAAGCGGTT AGCTCCTTCG GTCCTCCGAT CGTTGTCAGA AGTAAGTTGG

9351 CCGCAGTGTT ATCACTCATG GTTATGGCAG CACTGCATAA TTCTCTTACT

9401 GTCATGCCAT CCGTAAGATG CTTTTCTGTG ACTGGTGAGT ACTCAACCAA

9451 GTCATTCTGA GAATAGTGTA TGCGGCGACC GAGTTGCTCT TGCCCGGCGT

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9601 GAGATCCAGT TCGATGTAAC CCACTCGTGC ACCCAACTGA TCTTCAGCAT

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9701 GCCGCAAAAA AGGGAATAAG GGCGACACGG AAATGTTGAA TACTCATACT

9751 CTTCCTTTTT CAATATTATT GAAGCATTTA TCAGGGTTAT TGTCTCATGA

9801 GCGGATACAT ATTTGAATGT ATTTAGAAAA ATAAACAAAT AGGGGTTCCG

9851 CGCACATTTC CCCGAAAAGT GCCACCTGAG TC

**HJP-180-IVS-Syn21-gp41-1C-CreB-NrdJ-1N-WPREw**

1 CTGAGTCTAA GAAACCATTA TTATCATGAC ATTAACCTAT AAAAATAGGC

51 GTATCACGAG GCCCTTTCGT CTTCAAGAAT TCGTTTATCA CAAGTTTGTA

101 CAAAAAAGCT GAACGAGAAA CGTAAAATGA TATAAATATC AATATATTAA

151 ATTAGATTTT GCATAAAAAA CAGACTACAT AATACTGTAA AACACAACAT

201 ATCCAGTCAC TATGGCGGCC GCATTAGGCA CCCCAGGCTT TACACTTTAT

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301 TTCAGGAGCT AAGGAAGCTA AAATGGAGAA AAAAATCACT GGATATACCA

351 CCGTTGATAT ATCCCAATGG CATCGTAAAG AACATTTTGA GGCATTTCAG

401 TCAGTTGCTC AATGTACCTA TAACCAGACC GTTCAGCTGG ATATTACGGC

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501 TTCACATTCT TGCCCGCCTG ATGAATGCTC ATCCGGAATT CCGTATGGCA

551 ATGAAAGACG GTGAGCTGGT GATATGGGAT AGTGTTCACC CTTGTTACAC

601 CGTTTTCCAT GAGCAAACTG AAACGTTTTC ATCGCTCTGG AGTGAATACC

651 ACGACGATTT CCGGCAGTTT CTACACATAT ATTCGCAAGA TGTGGCGTGT

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751 TTTCGTCTCA GCCAATCCCT GGGTGAGTTT CACCAGTTTT GATTTAAACG

801 TGGCCAATAT GGACAACTTC TTCGCCCCCG TTTTCACCAT GGGCAAATAT

851 TATACGCAAG GCGACAAGGT GCTGATGCCG CTGGCGATTC AGGTTCATCA

901 TGCCGTTTGT GATGGCTTCC ATGTCGGCAG AATGCTTAAT GAATTACAAC

951 AGTACTGCGA TGAGTGGCAG GGCGGGGCGT AAACGCGTGG ATCCGGCTTA

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1101 TATGAAGCAG CGTATTACAG TGACAGTTGA CAGCGACAGC TATCAGTTGC

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1751 ATATCATTTT ACGTTTCTCG TTCAGCTTTC TTGTACAAAG TGGTGATAAA

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1901 GCTAGCAACT TAAAAAAAAA AATCAAAATG ATGCTGAAGA AGATCCTGAA

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2201 TTGGGCATTG CCTATAACAC CCTCCTTCGC ATCGCCGAGA TAGCGCGTAT

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2401 CGCCGATGAC CCCAACAATT ATCTGTTCTG CAGGGTGCGC AAAAATGGAG

2451 TGGCAGCCCC CTGCCTGGTG GGCAGCAGCG AGATCATCAC CCGCAACTAC

2501 GGCAAGACCA CCATCAAGGA GGTGGTGGAG ATCTTCGATA ACGATAAGAA

2551 CATCCAGGTG CTGGCCTTCA ACACCCACAC CGATAACATC GAGTGGGCCC

2601 CCATCAAGGC CGCCCAGCTG ACCCGCCCCA ACGCCGAGCT GGTGGAGCTG

2651 GAGATCGATA CCCTGCACGG CGTGAAGACC ATCCGCTGCA CCCCCGATCA

2701 CCCCGTGTAC ACCAAGAACC GCGGCTACGT GCGCGCCGAT GAGCTGACCG

2751 ATGATGATGA GCTGGTGGTG GCCATCTAAA CCGGTGTTTA AACAATCAAC

2801 CTCTGGATTA CAAAATTTGT GAAAGATTGA CTGGTATTCT TAACTATGTT

2851 GCTCCTTTTA CGCTATGTGG ATACGCTGCT TTAATGCCTT TGTATCATGC

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2951 TGCTGTCTCT TTATGAGGAG TTGTGGCCCG TTGTCAGGCA ACGTGGCGTG

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3201 TCCTTGGCTG CTCGCCTGTG TTGCCACCTG GATTCTGCGC GGGACGTCCT

3251 TCTGCTACGT CCCTTCGGCC CTCAATCCAG CGGACCTTCC TTCCCGCGGC

3301 CTGCTGCCGG CTCTGCGGCC TCTTCCGCGT CTTCGCCTTC GCCCTCAGAC

3351 GAGTCGGATC TCCCTTTGGG CCGCCTCCCC GCCTGAAGCT TATCGATACC

3401 GTCGACTAAA GCCAAATAGA AAATTATTCA GTTCCTGGCT TAAGTTTTTA

3451 AAAGTGATAT TATTTATTTG GTTGTAACCA ACCAAAAGAA TGTAAATAAC

3501 TAATACATAA TTATGTTAGT TTTAAGTTAG CAACAAATTG ATTTTAGCTA

3551 TATTAGCTAC TTGGTTAATA AATAGAATAT ATTTATTTAA AGATAATTGC

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3651 AGTTCTAGAG CGGCCGCTGG CCACGGGTGC GCATGATCGT GCTCCTGTCG

3701 TTGAGGACCC GGCTAGGCTG GCGGGGTTGC CTTACTGGTT AGCAGAATGA

3751 ATCACCGATA CGCGAGCGAA CGTGAAGCGA CTGCTGCTGC AAAACGTCTG

3801 CGACCTGAGC AACAACATGA ATGGTCTTCG GTTTCCGTGT TTCGTAAAGT

3851 CTGGAAACGC GGAAGTCAGC GCCCTGCACC ATTATGTTCC GGAGGCGCGC

3901 CCTAGTTCCA GTGAAATCCA AGCATTTTCT AAATTAAATG TATTCTTATT

3951 ATTATAGTTG TTATTTTTGA TATATATAAA CAACACTATT ATGCCCACCA

4001 TTTTTTTGAG ATGCATCTAC ACAAGGAACA AACACTGGAT GTCACTTTCA

4051 GTTCAAATTG TAACGCTAAT CACTCCGAAC AGGTCACAAA AAATTACCTT

4101 AAAAAGTCAT AATATTAAAT TAGAATAAAT ATAGCTGTGA GGGAAATATA

4151 TACAAATATA TTGGAGCAAA TAAATTGTAC ATACAAATAT TTATTACTAA

4201 TTTCTATTGA GACGAAATGA ACCACTCGGA ACCATTTGAG CGAACCGAAT

4251 CGCGCGGAAC TAACGACAGT CGCTCCAAGG TCGTCGAACA AAAGGTGAAT

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**HJP-179-IVS-Syn21-NrdJ-1C-CreC-WPREw**

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8401 TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTC TTGATCCGGC

8451 AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGCA AGCAGCAGAT

8501 TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC TTTTCTACGG

8551 GGTCTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGAT TTTGGTCATG

8601 AGATTATCAA AAAGGATCTT CACCTAGATC CTTTTAAATT AAAAATGAAG

8651 TTTTAAATCA ATCTAAAGTA TATATGAGTA AACTTGGTCT GACAGTTACC

8701 AATGCTTAAT CAGTGAGGCA CCTATCTCAG CGATCTGTCT ATTTCGTTCA

8751 TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACTACGA TACGGGAGGG

8801 CTTACCATCT GGCCCCAGTG CTGCAATGAT ACCGCGAGAC CCACGCTCAC

8851 CGGCTCCAGA TTTATCAGCA ATAAACCAGC CAGCCGGAAG GGCCGAGCGC

8901 AGAAGTGGTC CTGCAACTTT ATCCGCCTCC ATCCAGTCTA TTAATTGTTG

8951 CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG CGCAACGTTG

9001 TTGCCATTGC TACAGGCATC GTGGTGTCAC GCTCGTCGTT TGGTATGGCT

9051 TCATTCAGCT CCGGTTCCCA ACGATCAAGG CGAGTTACAT GATCCCCCAT

9101 GTTGTGCAAA AAAGCGGTTA GCTCCTTCGG TCCTCCGATC GTTGTCAGAA

9151 GTAAGTTGGC CGCAGTGTTA TCACTCATGG TTATGGCAGC ACTGCATAAT

9201 TCTCTTACTG TCATGCCATC CGTAAGATGC TTTTCTGTGA CTGGTGAGTA

9251 CTCAACCAAG TCATTCTGAG AATAGTGTAT GCGGCGACCG AGTTGCTCTT

9301 GCCCGGCGTC AATACGGGAT AATACCGCGC CACATAGCAG AACTTTAAAA

9351 GTGCTCATCA TTGGAAAACG TTCTTCGGGG CGAAAACTCT CAAGGATCTT

9401 ACCGCTGTTG AGATCCAGTT CGATGTAACC CACTCGTGCA CCCAACTGAT

9451 CTTCAGCATC TTTTACTTTC ACCAGCGTTT CTGGGTGAGC AAAAACAGGA

9501 AGGCAAAATG CCGCAAAAAA GGGAATAAGG GCGACACGGA AATGTTGAAT

9551 ACTCATACTC TTCCTTTTTC AATATTATTG AAGCATTTAT CAGGGTTATT

9601 GTCTCATGAG CGGATACATA TTTGAATGTA TTTAGAAAAA TAAACAAATA

9651 GGGGTTCCGC GCACATTTCC CCGAAAAGTG CCACCTGAGT

**HJP-178-IVS-Syn21-CreAB-NrdJ-1N-WPREw**

1 TAAGAAACCA TTATTATCAT GACATTAACC TATAAAAATA GGCGTATCAC

51 GAGGCCCTTT CGTCTTCAAG AATTCGTTTA TCACAAGTTT GTACAAAAAA

101 GCTGAACGAG AAACGTAAAA TGATATAAAT ATCAATATAT TAAATTAGAT

151 TTTGCATAAA AAACAGACTA CATAATACTG TAAAACACAA CATATCCAGT

201 CACTATGGCG GCCGCATTAG GCACCCCAGG CTTTACACTT TATGCTTCCG

251 GCTCGTATAA TGTGTGGATT TTGAGTTAGG ATCCGTCGAG ATTTTCAGGA

301 GCTAAGGAAG CTAAAATGGA GAAAAAAATC ACTGGATATA CCACCGTTGA

351 TATATCCCAA TGGCATCGTA AAGAACATTT TGAGGCATTT CAGTCAGTTG

401 CTCAATGTAC CTATAACCAG ACCGTTCAGC TGGATATTAC GGCCTTTTTA

451 AAGACCGTAA AGAAAAATAA GCACAAGTTT TATCCGGCCT TTATTCACAT

501 TCTTGCCCGC CTGATGAATG CTCATCCGGA ATTCCGTATG GCAATGAAAG

551 ACGGTGAGCT GGTGATATGG GATAGTGTTC ACCCTTGTTA CACCGTTTTC

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701 AAAACCTGGC CTATTTCCCT AAAGGGTTTA TTGAGAATAT GTTTTTCGTC

751 TCAGCCAATC CCTGGGTGAG TTTCACCAGT TTTGATTTAA ACGTGGCCAA

801 TATGGACAAC TTCTTCGCCC CCGTTTTCAC CATGGGCAAA TATTATACGC

851 AAGGCGACAA GGTGCTGATG CCGCTGGCGA TTCAGGTTCA TCATGCCGTT

901 TGTGATGGCT TCCATGTCGG CAGAATGCTT AATGAATTAC AACAGTACTG

951 CGATGAGTGG CAGGGCGGGG CGTAAACGCG TGGATCCGGC TTACTAAAAG

1001 CCAGATAACA GTATGCGTAT TTGCGCGCTG ATTTTTGCGG TATAAGAATA

1051 TATACTGATA TGTATACCCG AAGTATGTCA AAAAGAGGTA TGCTATGAAG

1101 CAGCGTATTA CAGTGACAGT TGACAGCGAC AGCTATCAGT TGCTCAAGGC

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1351 GCCGTTATCG TCTGTTTGTG GATGTACAGA GTGATATTAT TGACACGCCC

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1451 AGTCTCCCGT GAACTTTACC CGGTGGTGCA TATCGGGGAT GAAAGCTGGC

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1651 CTGCAGGTCG ACCATAGTGA CTGGATATGT TGTGTTTTAC AGTATTATGT

1701 AGTCTGTTTT TTATGCAAAA TCTAATTTAA TATATTGATA TTTATATCAT

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5401 TTCGGCAATC GTTTTGCCCA GAAAGTATGT GTCACAGCGA TAAAGTCGAC

5451 TTCGGGCCTC CCTCATAAAA ACTGGCAGCT CTGAGGTGAA CACCTAAATC

5501 GAATCGATTC ATTAGAAAGT TAGTAAATTA TTGAAATGCA AATGTATTCT

5551 AAACATGACT TACATTTATC GTGGCAAAGA CGTTTTGAAA GGTCATGTTG

5601 GTCAGGAAGA GGAAGATGGC TCCGTTGATA TTCATCACAC CCACTTGCGT

5651 GAGTTGTTGG CCCAAAAAGA TGAGGCCAAT CAAGATGGCA ACCATCTGCA

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6151 AACGGCCAAC ACCTGTACGT AAAAGTCCGC CGGATTGTAG TTGGTAGGAC

6201 ACTGGGCACC CACGCTGGAT AGGAGTTGAG ATGTTATGTA ATACTAGATA

6251 CCCTTAATAA ACACATCGAA CTCACTAGGA AAAGAAGTCG ACGGCTTCGC

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7351 GAAGTATCCT ACGAAGTAGG TTTATACTTT TATTTATTTT TTGTGCATCT

7401 AGGATCAGCT TAAAATATCT GGTTGTTATA TTTTTTGTAA AAAAGAATAT

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7901 TCACGAAACC GCTGACAAAA TGCAACTGAA GGCGGACATT GACGCTACGT

7951 AACGCTACAA ACGGTGGCGA AAGAGATAGC GGACGCAGCG GCGAAAGAGA

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8101 TACCCTTGGA TCGAAGTAAA TTTAAAACTG ATCAGATAAG TTCAATGATA

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10351 TGAGTC

**HJP-177-IVS-Syn21-gp41-1C-CreBC-WPREw**

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201 CACTATGGCG GCCGCATTAG GCACCCCAGG CTTTACACTT TATGCTTCCG

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6551 CGGCACCGGA ACTGCCCATC ACGGCCAAAA GTTCGCCCGG ATAGGCCACG

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7051 ATACTTTTAT TTATTTTTTG TGCATCTAGG ATCAGCTTAA AATATCTGGT

7101 TGTTATATTT TTTGTAAAAA AGAATATAGT CGAAAATGAA TGCCTTTAGA

7151 TGTCTTGATC ATGATATGAT CTCAAAAATT GTCTTATATA GCGAGAACAG

7201 CTACCAGAAT AATCTGTTTC GTGTCACTAT TTGTTTGTGC AATTGCGGTT

7251 TGGGATTTTT GTGGGTCGCA GTTCTCACGC CGCATACAAT TTGATGTTGC

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9951 AGCGGATACA TATTTGAATG TATTTAGAAA AATAAACAAA TAGGGGTTCC

10001 GCGCACATTT CCCCGAAAAG TGCCACCTGA G

**HJP-195-IVS-Syn21-gp41-1C-CreB-NrdJ-1N-WPREUw**

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151 TTTGCATAAA AAACAGACTA CATAATACTG TAAAACACAA CATATCCAGT

201 CACTATGGCG GCCGCATTAG GCACCCCAGG CTTTACACTT TATGCTTCCG

251 GCTCGTATAA TGTGTGGATT TTGAGTTAGG ATCCGTCGAG ATTTTCAGGA

301 GCTAAGGAAG CTAAAATGGA GAAAAAAATC ACTGGATATA CCACCGTTGA

351 TATATCCCAA TGGCATCGTA AAGAACATTT TGAGGCATTT CAGTCAGTTG

401 CTCAATGTAC CTATAACCAG ACCGTTCAGC TGGATATTAC GGCCTTTTTA

451 AAGACCGTAA AGAAAAATAA GCACAAGTTT TATCCGGCCT TTATTCACAT

501 TCTTGCCCGC CTGATGAATG CTCATCCGGA ATTCCGTATG GCAATGAAAG

551 ACGGTGAGCT GGTGATATGG GATAGTGTTC ACCCTTGTTA CACCGTTTTC

601 CATGAGCAAA CTGAAACGTT TTCATCGCTC TGGAGTGAAT ACCACGACGA

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**HJP-196-IVS-Syn21-NrdJ-1C-CreC-WPREUw**

1 TAAGAAACCA TTATTATCAT GACATTAACC TATAAAAATA GGCGTATCAC

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201 CACTATGGCG GCCGCATTAG GCACCCCAGG CTTTACACTT TATGCTTCCG

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451 AAGACCGTAA AGAAAAATAA GCACAAGTTT TATCCGGCCT TTATTCACAT

501 TCTTGCCCGC CTGATGAATG CTCATCCGGA ATTCCGTATG GCAATGAAAG

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**HJP-208-IVS-Syn21-CreAB-NrdJ-1N-WPREUw**

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**HJP-207-IVS-Syn21-gp41-1C-CreBC-WPREUw**

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9001 TCTTGATCCG GCAAACAAAC CACCGCTGGT AGCGGTGGTT TTTTTGTTTG

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10151 ATCAGGGTTA TTGTCTCATG AGCGGATACA TATTTGAATG TATTTAGAAA

10201 AATAAACAAA TAGGGGTTCC GCGCACATTT CCCCGAAAAG TGCCACCTGA

10251 GTC

**HJP-225-actin5C-Flox-IVS-Syn21myr-tdTomato-p10w**

1 TAAGAAACCA TTATTATCAT GACATTAACC TATAAAAATA GGCGTATCAC

51 GAGGCCCTTT CGTCTTCAAG AATTCGTTTA TCACAAGTTT GTACAAAAAA

101 GCAGGCTCCG CGGCCGCAAT TCTATATTCT AAAAACACAA ATGATACTTC

151 TAAAAAAAAA TCATGAATGG CATCAACTCT GAATCAAATC TTTGCAGATG

201 CACCTACTTC TCATTTCCAC TGTCACATCA TTTTTCCAGA TCTCGCTGCC

251 TGTTATGTGG CCCACAAACC AAGACACGTT TTATGGCCAT TAAAGCTGGC

301 TGATCGTCGC CAAACACCAA ATACATAATG AATATGTACA CATTCGAGAA

351 AGAAGCGATC AAAGAAGCGT CTTCGGGCGG AGTAGGAGAA TGCGGAGGAG

401 AAGGAGAACG AGCTGATCTA GTATCTCTCC ACAATCCAAT GCCAACTGAC

451 CAACTGGCCA TATTCGGAGC AATTTGAAGC CAATTTCCAT CGCCTGGCGA

501 TCGCTCCATT CTTGGCTATA TGTTTTTCAC CGTTACCCGG GGCCATTTTC

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**HJP-223-actin5C^Syn21Gal80^IVS-Syn21myr-tdTomato-p10w**

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6301 ATTTTAGATA GAATTGCCTG ATTCCACACC CTTCTTAGTT TTTTTCAATG

6351 AGATGTATAG TTTATAGTTT TGCAGAAGAT AAATAAATTT CATTTAACTC

6401 GCGAATATTA ATGAGATGCG AGTAACATTT TAATTTGCAG ATGGTTGCCA

6451 TCTTGATTGG CCTCATCTTT TTGGGCCAAC AACTCACGCA AGTGGGTGTG

6501 ATGAATATCA ACGGAGCCAT CTTCCTCTTC CTGACCAACA TGACCTTTCA

6551 AAACGTCTTT GCCACGATAA ATGTAAGTCA TGTTTAGAAT ACATTTGCAT

6601 TTCAATAATT TACTAACTTT CTAATGAATC GATTCGATTT AGGTGTTCAC

6651 CTCAGAGCTG CCAGTTTTTA TGAGGGAGGC CCGAAGTCGA CTTTATCGCT

6701 GTGACACATA CTTTCTGGGC AAAACGATTG CCGAATTGCC GCTTTTTCTC

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8001 AATGCTTGGA TTTCACTGGA ACTAGGGCGC GCCTCCGGAA CATAATGGTG

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8101 GACCATTCAT GTTGTTGCTC AGGTCGCAGA CGTTTTGCAG CAGCAGTCGC

8151 TTCACGTTCG CTCGCGTATC GGTGATTCAT TCTGCTAACC AGTAAGGCAA

8201 CCCCGCCAGC CTAGCCGGGT CCTCAA

**HJP-473-DNE>FLP-T2A-CreAB-NrdJ-1N**

1 AAGAAACCAT TATTATCATG ACATTAACCT ATAAAAATAG GCGTATCACG

51 AGGCCCTTTC GTCTTCAAGA ATTCGTTTAT CACAAGTTTG TACAAAAAAG

101 CAGGCTCCGC GGCCGCCCCC TTCACCTCAC TTTGCACAAC CAGGGTTGCC

151 AGGCGGCGCA ATACGTTTAC GATCCCACCC AAAACTCCCC AAATCGGTCC

201 ATAGGTAGAT CTACGTCAGC TGTCAGCTGG CGCATGGCCC GCGTCAGTGG

251 TTATTGACAA CTCCTTTGGT CGTAATCCTG CCAACATCGT AAAGTAATAA

301 ATTTGCCTGA AAAAGGAAAA TCTGCCGGGG ATCGACTATA AAAATTGGCC

351 CAGCCAGGTA AGCTCCGTAA TGATTGACCC CGACCCTCAG TCCCAGACCC

401 ACGACCGATC CAGGTCCGAT TCCGATCCAT TGCAAGTCGC GATTCCGTCC

451 CGAAACCCAA GCAACCCCCT TAAGACGCTT CTGCCGATGA GCCGGCCAGG

501 CAAAAGCGAA GAATTTGAAA CTAAGGATTT CGCCTTGCAA GGGGGTTGGG

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651 CAAGGGTGAA ATCTGTGCGA CTAAATGTGC CATCAGCCAG CCACCCAAAA

701 GGGAAACGGA CACAAACGGA ACATCTGTCG CAAGAATTCG CCCTTGTGTC

751 TGCTAGTCTG TTAGTCTGTT ACCTACCCCA CCAAAAGCGA ACTTGACGAG

801 CTTAGTCGTC TGAGGCTGAT AAATGCAGTG CCGCAAAGTA CACCTCGCGA

851 AATTTGTGTA TGAGATGTAT GAAAAATGTA AAAATAGATA GCAATCCGAA

901 CTATGCTCCA TGCTAATGTT CTTCCCAGCC GTTATTACTT GTTACATTGT

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1151 CATACATACA TATTTGCCTA GGAAGGTGCT GCGATTTTGG TGCGTGGCAA

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1301 ACTCCGTGAA GGGTGGGCGC GCCGACCCAG CTTTCTTGTA CAAAGTGGTG

1351 ATAAACGGCC GGCCGAGCTC GCCCGGGGAT CGAGCGCAGC GGTATAAAAG

1401 GGCGCGGGGT GGCTGAGAGC ATCAGTTGTG AATGAATGTT CGAGCCGAGC

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11351 ACATTTCCCC GAAAAGTGCC ACCTGAGTCT

**HJP-472-actin5C-FloxSyn21Gal80-10XUAS-EGFP-Kir2.1**

1 TAAGAAACCA TTATTATCAT GACATTAACC TATAAAAATA GGCGTATCAC

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**HJP-381-actin5C-FloxSyn21Gal80-10XUAS-mCD8GFP**

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11301 CAAGCTAAAC AATCTGCAGT AAAGTGCAAG TTAAAGTGAA TCAATTAAAA

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