

## Data S1

pcDNA3.1(+) (NC OE)

GACGGATCGGGAGATCTCCCGATCCCCTATGGTGCA  
CTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAA  
GCCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCG  
CTGAGTAGTGCGCGAGCAAAATTTAAGCTACAACAA  
GGCAAGGCTTGACCGACAATTGCATGAAGAATC  
TGCTTAGGGTTAGGCGTTTTTCGCTGCTTCGCGATG  
TACGGGCCAGATATACGCGTTGACATTGATTATTGA  
CTAGTTATTAATAGTAATCAATTACGGGGTTCATTAGT  
TCATAGCCCATATATGGAGTTCCGCGTTACATAACTT  
ACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGAC  
CCCCGCCATTGACGTCAATAATGACGTATGTTCCC  
ATAGTAACGCCAATAGGGACTTTCCATTGACGTCAA  
TGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCA  
GTACATCAAGTGTATCATATGCCAAGTACGCCCCCT  
ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCAT  
TATGCCCAGTACATGACCTTATGGGACTTTCTACT  
TGGCAGTACATCTACGTATTAGTCATCGCTATTACC  
ATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGT  
GGATAGCGGTTTACTCACGGGGATTTCCAAGTC  
TCCACCCCATGACGTCAATGGGAGTTGTTTTGGC  
ACCAAATCAACGGGACTTTCCAAAATGTCGTAACA  
ACTCCGCCCATGACGCAAATGGGCGGTAGGCGTG  
TACGGTGGGAGGTCTATATAAGCAGAGCTCTCTGGC  
TAACTAGAGAACCCACTGCTTACTGGCTTATCGAAA  
TTAATACGACTCACTATAGGGAGACCAAGCTGGCT  
AGCGTTTAAACTTAAGCTTGGTACCGAGCTC(GGA  
TCC)ACTAGTCCAGTGTGGTG(GAATTC)TGCAGATAT  
CCAGCACAGTGGCGGCCGCTCGAGTCTAGAGGGCCC  
GTTTAAACCCGCTGATCAGCCTCGACTGTGCCTTCT  
AGTTGCCAGCCATCTGTTGTTTGCCTTCCCTCCGTC  
CCTTCCCTGACCCTGGAAGGTGCCACTCCCCTGTC  
CTTTCCTAATAAAATGAGGAAATTGCATCGCATTGT  
CTGAGTAGGTGTCACTTATTCTGGGGGGTGGGGTG  
GGGCAGGACAGCAAGGGGGAGGATGGGAAGAC  
AATAGCAGGCATGCTGGGGATGCGGTGGGCTCTATG  
GCTTCTGAGGCGGAAAGAACCAGCTGGGCTCT  
AGGGGTATCCCCACGCCCTGTAGCGGCGCATT  
AGCGCGCGGGTGTGGTGTACGCGCAGCGTGACC  
GCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTC  
GTTTTCTTCCCTTCTTCTCGCCACGTTTCGCCGCG  
TTTCCCCGTAAGCTCTAAATCGGGGGCTCCCTTAA  
GGTTCCGATTTAGTGCTTACGGCACCTCGACCCC  
AAAAAATTGATTAGGGTGTAGGTTACGTAGTGGG  
CCATCGCCCTGATAGACGGTTTTTCGCCCTTTCGACG  
TTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTT  
CAAACCTGGAACAACACTCAACCCTATCTCGGTCTA  
TTCTTTTATTATAAGGGATTTTTCGCGATTTTCGCG  
CTATTGGTTAAAAAATGAGCTGATTTAACAATAAATT  
TAACGCGAATTAATTCTGTGGAATGTGTGTAGTTA  
GGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGA  
AGTATGCAAAGCATGCATCTCAATTAGTCAGCAACC  
AGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGA  
AGTATGCAAAGCATGCATCTCAATTAGTCAGCAAC  
CATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCT  
AACTCCGCCCAGTTCGCCCCTTCTCCGCCCATGG  
CTGACTAATTTTTTTTATTATGCAGAGGCCGAGGC  
CGCCTCTGCCTCTGAGCTATTCCAGAAGTAGTGAGG  
AGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCT

CCCGGGAGCTTGTATATCCATTTTCGGATCTGATCA  
AGAGACAGGATGAGGATCGTTTTCGCATGATTGAACA  
AGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGT  
GGAGAGGCTATTTCGGCTATGACTGGGCACAACAGAC  
AATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTC  
AGCGCAGGGGGCGCCCGGTTCTTTTTGTCAAGACCGA  
CCTGTCCGGTGCCTGAATGAACTGCAGGACGAGGC  
AGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCC  
TTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGG  
AAGGGACTGGCTGCTATTGGGCGAAGTGCCGGG  
GCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGA  
GAAAGTATCCATCATGGCTGATGCAATGCGGCGGCT  
GCATACGCTTGATCCGGCTACCTGCCATTTCGACCA  
CCAAGCGAAACATCGCATCGAGCGAGCACGTAATCG  
GATGGAAGCCGGTCTTGTGATCAGGATGATCTGGA  
CGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTG  
TTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCG  
AGGATCTCGTCGTGACCCATGGCGATGCTGCT  
TGCCGAATATCATGGTGGAAAATGGCCGCTTTTC  
TGGATTTCATCGACTGTGGCCGGCTGGGTGTGGCGGA  
CCGCTATCAGGACATAGCGTTGGCTACCCGTGATAT  
TGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTT  
CCTCGTGTCTTACGGTATCGCCGCTCCCGATTTCGCA  
GCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTT  
CTGAGCGGGACTCTGGGGTTCGAAATGACCGACC  
AAGCGACGCCAACCTGCCATCACGAGATTTTCGATT  
CCACCGCCGCTTCTATGAAAGGTTGGGCTTCGG  
AATCGTTTTCCGGGACGCCGGCTGGATGATCCTCA  
GCGCGGGGATCTCATGCTGGAGTTCTTCGCCACCC  
CAACTTGTATTATGCAGCTTATAATGGTTACAAATA  
AGCAATAGCATCACAATTTACAAATAAAGCATT  
TTTTCACTGCATTCTAGTTGTGGTTTTGTCCAAACTC  
ATCAATGTATCTTATCATGTCTGTATAACCGTCGAC  
CTCTAGCTAGAGCTTGGCGTAATCATGGTTCATAGCT  
GTTTCCCTGTGTGAAATTGTTATCCGCTCACAATTCCA  
CACAACATACAGCCGGAAGCATAAAGTGTAAGCC  
TGGGGTGCCTAATGAGTGAGCTAACTACATTAATT  
GCGTTGCGCTCACTGCCCGCTTTCAGTCGGGAAAC  
CTGTCGTGCCAGTGCATTAATGAATCGGCCAACGC  
GCGGGGAGAGGCGGTTTTGCGTATTGGGCGCTCTTCC  
GTTCTCTCGCTCACTGACTCGTGCCTCGGCTCGTT  
CGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCG  
GTAATACGGTTATCCACAGAATCAGGGGATAACGCA  
GGAAGAACATGTGAGCAAAAGGCCAGCAAAAG  
GCCAGGAACCGTAAAAGGCCGCGTTGCTGGCG  
TTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACA  
AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCG  
ACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGA  
AGCTCCCTCGTGCCTCTCCTGTTCCGACCCTGCCG  
CTTACCGGATACCTGTCCGCTTCTCCTTTCGGGA  
AGCGTGGCGCTTCTCATAGCTCACGCTGTAGGT  
ATCTCAGTTCGGTGTAGGTGTTTCGCTCCAAGCTGG  
GCTGTGTGCACGAACCCCCGTTTCAGCCCGACCGCT  
GCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACC  
CGGTAAGACACGACTTATCGCCACTGGCAGCAGCC  
ACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGC  
GGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACT  
ACGGCTACACTAGAAGAAGTATTTGGTATCTGCG  
CTCTGCTGAAGCCAGTTACCTTCGGAAAAGAG  
TTGGTAGCTCTTGTATCCGGCAAACAACCACCGC

TGGTAGCGGTTTTTTTTGTTTGCAAGCAGCAGATTACG  
CGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATC  
TTTTCTACGGGTCTGACGCTCAGTGGAACGAAAAC  
TCACGTTAAGGGATTTTGGTCATGAGATTATCAAAA  
AGGATCTTCACCTAGATCCTTTTAAATTA AAAATGA  
AGTTTTAAATCAATCTAAAGTATATATGAGTAACT  
TGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCA  
CCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATA  
GTTGCCTGACTCCCCGTCGTGTAGATAACTACGATAC  
GGGAGGGCTTACCATCTGGCCCCAGTGCTGCAAT  
GATACCGCGAGACCCACGCTCACC GGCTCCAGATTT  
ATCAGCAATAAACCAGCCAGCCGGAAGGGCCGA  
GCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCC  
ATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAA  
GTAGTTCGCCAGTTAATAGTTTGC GCAACGTTGTT  
GCCATTGCTACAGGCATCGTGGTGTACGCTCGTC  
GTTTGGTATGGCTTCATT CAGCTCCGGTCCCAACGA  
TCAAGGCGAGTTACATGATCCCCATGTTGTGCAAA  
AAAGCGTTAGCTCCTTCGGTCTCCGATCGTTGTCA  
GAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTA  
TGGCAGCACTGCATAATTCTCTTACTGT CATGCCATC  
CGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAAC  
CAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAG  
TTGCTCTTGCCCGGCGTCAATACGGGATAATACCG  
CGCCACATAGCAGAACTTTAAAAGTGTCTCATCATTG  
GAAAACGTTCTTCGGGGCGAAA AACTCTCAAGGA  
TCTTACCGCTGTTGAGATCCAGTTCGATGTAACCA  
CTCGTGACCCAACTGATCTTCAGCATCTTTTACTT  
TCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAG  
GCAAAATGCCGCAAAA AAGGGAATAAGGGCGAC  
ACGGAAATGTTGAATACTCATACTCTTCCTTTTCA  
ATATTATTGAAGCATTATATCAGGGTTATTGTCTCA  
TGAGCGGATACATATTTGAATGTATTTAGAAAAATA  
ACAAATAGGGGTTCCGCGCACATTTCCCGAAAAG  
TGCCACCTGACGTC

Mtr OE (pcDNA3.1(+)-Mtr)

GACGGATCGGGAGATCTCCCGATCCCTATGGTGCA  
CTCTCAGTACAATCTGCTCTGATGCCGATAGTTAAG  
CCAGTATCTGCTCCCTGCTTGTGTGTTGGAGGTCG  
TGAGTAGTGC GCGAGCAA AATTTA AGCTACAACA  
AGGCAAGGCTTGACCGACAATTGCATGAAGAATCTG  
CTTAGGGTTAGGCGTTTTGCGCTGCTTCGCGATGTA  
CGGGCCAGATATACGCGTTGACATTGATTATTGACTA  
GTTATTAATAGTAATCAATTACGGGGTCATTAGTT  
CATAGCCCATATATGGAGTTCCGCGTTACATAACT  
ACGGTA AATGGCCCCCTGGCTGACCGCCCAACG  
ACCCCGCCCATGACGTCAATAATGACGTATGTTCC  
CATAGTAACGCCAATAGGACTTTCCATTGACGTCAA  
TGGGTGGAGTATTTACGGTAAACTGCCCACTTGCC  
AGTACATCAAGTGTATCATATGCCAAGTACGCCCC  
CTATTGACGTCAATGACGGTAAATGGCCCCGCTGGC  
ATTATGCCAGTACATGACCTTATGGGACTTTTCT  
ACTTGGCAGTACATCTACGTATTAGTCATCGCTATT  
ACCATGGTGATGCGTTTTTGGCAGTACATCAATG  
GGCGTGGATAGCGGTTTACTCACGGGATTTCCA  
AGTCTCCACCCATTGACGTCAATGGGAGTTTGT  
GGCACCAAAAATCAACGGGACTTTCCAAAATGTCGT  
ACAACTCCGCCCATGACGCAAATGGGCGGTA

GGCGTGTACGGTGGGAGGTCTATATAAGCAGAGC  
TCTCTGGCTAACTAGAGAACCCACTGCTTACTGGC  
TTATCGAAATTAATACGACTCACTATAGGGAGACCC  
AAGCTGGCTAGCGTTTTAAACTTAAGCTTGGTACCG  
AGTCC(GGATCC)[GCCACC]{atgaagaaaacctgcagatgagatt  
gaagccattctcgaagaggatcatggtgctagacggtgggatggggaccatga  
tcacgcggtacaactaagtgaagaacattccaaggtcaagagttaaagatcac  
agcagggccactgaaaggcaacaatgacatcttaagtataactcagcctgatatt  
taccagattcataaggaacttgcgtgctggagcagatcatcgaacaaacacttt  
cagcagctactagtatgccaggtgactatggccttgaacacttggcctaccggat  
gaacaagtgcctgcagatgtggccagaaaagccgctgaggagataacttgcaga  
caggagtcaagaggttggctggagctctgggtccgactaataagacactttctgtc  
tccccatctgtgaaaggccagattataggaacatcacattgatgacttgtgacgc  
afaccaggagcaggccaaggactgctggatggcagggctgcacatcttactcattga  
aacaattttgatacagctaatgccaagcagccttgttgcgatccagaacctctt  
gaagagaattatgctcctcctcggcctatcttatttctgggaccattgtgataaaag  
tggagagactcttctggcagacgggagaggctttgtcaccagcgtgtctcattcgg  
acccccgtgctattgataaattgttctctgggtgcagctgaaatgaggccttctt  
gaaacaattgaaaatgtacaacagcctatgctcctgttaccacaaatgcaggtctcc  
caacactttggcgactatgatgaaacacatccacagatggccacgcacctgaagg  
actttgctgtgatggctgtgtaataatggttggatgctgtgttcaacacctgatc  
acatcagggaattgcggaagctgtgaaaaagtgtaagccaagagctccccctgc  
tagtgttttgaaggacatattactgctgctgctagagccctcagattggaccatac  
accaactttgtaacattggagagcgtgtaatgtggcagatccaggaaattgtcta  
aactcatcatggcagaaactatgagaagccctgagcattgcaaaagcacaggt  
ggaaatgggagctcaggtgctcgatcaacatggacgacggcatgctggatgttcc  
cagtgcattgaccagatttgcactcattgcttgcagcctgacattgccaaggtgc  
ccctgtgacttacttcttaactttgccgtgattgaaagctgggtgaaagtgctgcca  
gggaagtgcatagcaacagcatcagcctcaaggaggggggggacttctgg  
agaaggccccgaagattaagaagtttggagctgctgtggttattgctttgatg  
aggaaaggacaagcaacagaaacagatgttaaagtaattgtgtcaccagagcttac  
catctactgtggacaagtgggctcaatccaatgacatcatcttgacccaaca  
tccttaccattggtactggatggaggaacataactgtatgctatcaattttatccat  
gcaacaagatcattaaagaaacctaccaggagtcagaataagtgaggtctttc  
caacttactctctctccggggatggagccattcagaagcaatgcatggtgtg  
ttcctttatcagcgatcaagttgtatggacatggggatagcaatgccggcaacc  
tcctgtgtatgatgctatccacaaggacctcttcaagctctgtgaagacctcatctg  
gaacaaagactctgaggctactgagaactcttgcgzzatagcccagactcatggc  
acaggagggagaagaaatcatccagacagatgagtggaagaaatggctcattgaag  
agcgcctggagatgctctgtggaaggccattgaaagcacattgttgaagatacga  
agaagccaggttaaacggggaaaaataccctcggcctctgaaataattgaaggccc  
cctaataatggcatgaaagtgtgtgtgactttttgagctggaagatgtttctac  
ctcaggttataaagtcagccctgtcatgaaagagctgttggccacctatcccttcc  
atgaaaaaagaagagaagaagccagattgattaatggttccggttgaagaagga  
cccttaccagaccattgtgctggccactgttaaaggggacgtgcatgacatcgg  
caagaacatagttggcgtggtgctggcctgtaacaattcagagttattgattgag  
tcatgactccctgtgataagatactcaagctgctctggaccacaagcagatataatt  
ggcttgcaggaactcactccatccttggatgagatgattttgttccaaggaat  
ggagaggttggctataaagattccattgttgalaggaggagcaaccacttcaagaac  
ccacacagcagttaaattgcaccaggttacagcgcgcctgtgatccacgtcctagat  
gcatccaagagtggtgtgtgttctcagctgttagatgaaaactcagagatgacta  
cttgaagaataactggaagagatgaagatattagacaggaccactatgactctca  
aagagagaaaaactcgtaccctaaagtcaagccagaaaacacgggttccactgattg  
gctctctgaacctcactcagtggaagcccacttatttggaccagcctttagga  
ctacaacctgcaaaaagctgtgactacattgactggaagccttcttctgactctggc  
agctccggggcaagtagctcccgaaccgagatttccaagatatttgaacaagc  
agttagtgaaagaccagaaaggtatacaatgatgctcagaatgatcgaacatac  
tattagtcaaaagaactgcagggcaggggtgtgtgtgattctggccagcacag  
agtgccaggatgacatccacctgtatgcagaggggtgtgtgcccaggccgctga  
gcccatagcacctctatgactgaggcagcaggtcagaaggactcttagta

cagaccctaccactgcctctcagacttcattgctcctttgattctggtgtctgtgac  
tacttgggtctgtttgctgttgctgctttggggtgaagagctgagtaagacatga  
ggatgatggcagactacacagcagcatcatggtgaaggcgtggcgacagggctgg  
cagaggcctttgcagaggagctccatgagagagttcggcagaactgtgggcact  
ctaggagtgagcagttggcgctcccagacttgcgcagactccggatgagggcat  
ccggcagctcctggtaccagccagcctgaccatactgagaagctfacatgtgg  
agactggccagcagcagcagccacagcagcctgacagctgacagaaatccttggca  
atggcaccgcttcagcaggtgagggctgtacttccaacgtaaaggccaatattt  
tgctgtgggaaaattccaagatcagactgaggattatgctttgaggaagaacatgc  
cagtgccgaggtggagaaatgcttggctccattctggctatgacacagactga}  
(GAATTC)TGCAGATATCCAGCACAGTGGCGGCCGC  
TCGAGTCTAGAGGGCCCGTTTAAACCCGCTGATCAG  
CCTCGACTGTGCCTTCTAGTTGCCAGCCATCTGTTGT  
TTGCCCTCCCCCGTGCCTTCCCTTGACCCTGGAAG  
GTGCCACTCCCCTGTCCTTCCCTAATAAATGA  
GGAATTCATCGCATTTGTCTGAGTAGGTGTCATT  
CTATTCTGGGGGGTGGGGTGGGGCAGGACAGCA  
AGGGGGAGGATTGGGAAGACAATAGCAGGCATGC  
TGGGGATGCGGTGGGCTCTATGGCTTCTGAGGCGGA  
AAGAACCAGCTGGGGCTTAGGGGGTATCCCCACGC  
GCCCTGTAGCGGCATTAAGCGCGCGGGTGTGGT  
GGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGC  
CCTAGCGCCCGCTCCTTTCGCTTCTTCCCTTCCCT  
TCTCGCCACGTTCCCGGCTTCCCCGTCAGCTCTA  
AATCGGGGGCTCCCTTTAGGGTTCGATTTAGTGCT  
TTACGGCACCTCGACCCCAAAAACCTTGATTAGGG  
TGATGGTTCACGTAGTGGGCCATCGCCCTGATAGA  
CGTTTTTTCGCCCTTTGACGTTGGAGTCCACGTT  
TTAATAGTGGACTCTTGTTCCAAACCTGGAACAACA  
CTCAACCCTATCTCGGTCTATTCTTTGATTTATAAG  
GGATTTTGCCGATTTCCGGCCTATTGGTTAAAAA  
TGAGCTGATTTAACAAAAATTTAACGCGAATTAAT  
TCTGTGGAATGTGTGTGAGTTAGGGTGTGGAAG  
TCCCAGGCTCCCCAGCAGGCAGAGATGCAAG  
CATGCATCTCAATTAGTCAGCAACCAGGTGTGGA  
AAGTCCCCAGGCTCCCCAGCAGGCAGAGATGCA  
AAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTC  
CGCCCTAACTCCGCCCATCCCCCTAACTCCGCC  
CAGTTCCGCCCATTTCCGCCCTTGGCTGACTAATT  
TTTTTTATTTATGCAGAGGCCGAGGCGCCCTCTGC  
CTCTGAGCTATTCAGAGTGTGAGGAGGCTTTTTT  
GGAGGCTAGGCTTTTGCAAAAAGCTCCCGGGAG  
CTTGATATCCATTTTCGATCTGATCAAGAGACAGG  
ATGAGGATCGTTTCGATGATTGAACAAGATGGAT  
TGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAG-  
GCTATTCGGCTATGACTGGGCACAACAGACAATCGG  
CTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGC  
AGGGGCGCCCGGTTCTTTTTGTCAAGACCGACCT  
GTCCGGTGCCCTGAATGAACTGCAGGACGAGGCAG  
CGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCCT  
GCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGG  
AAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGG  
CAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAG  
AAAGTATCCATCATGGCTGATGCAATGCGGCGGCTG  
CATACTGCTGATCCGGCTACCTGCCATTTCGACCACC  
AAGCGAAACATCGCATCGAGCGAGCACGTAATCGG  
ATGGAAGCCGGTCTTGTGATCAGGATGATCTGGAC  
GAAGAGCATCAGGGGCTCGCGCCAGCCGAAGTGT  
CGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAG  
GATCTCGTCTGACCCATGGCGATGCTGCTTGC

CGAATATCATGGTGGAAAATGGCCGCTTTTCTGG  
ATTCATCGACTGTGGCCGGCTGGGTGTGGCGGAC  
CGTATCAGGACATAGCGTTGGCTACCCGTGATATTG  
CTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTC  
CTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGCA  
GCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTT  
CTGAGCGGGACTCTGGGGTTTCGAAATGACCGACCA  
AGCGACGCCCAACCTGCCATCACGAGATTTTCGATT  
CCACCGCCGCTTCTATGAAGGTTGGGCTTCGG  
AATCGTTTTCCGGGACGCCGGCTGGATGATCCTC  
CAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCA  
CCCCAACTTGTATTGTCAGCTTATAATGGTTACA  
AATAAAGCAATAGCATCACAAATTTACAAATAAA  
GCATTTTTTTCAGTGCATTCTAGTTGTGGTTTGTCCA  
AACTCATCAATGTATCTTATCATGTCTGTATACCGT  
CGACCTCTAGCTAGAGCTTGGCGTAATCATGGTCA  
TAGCTGTTTCTGTGTGAAATGTTATCCGCTCACA  
ATTCCACACAACATACGAGCCGGAAGCATAAAGT  
GTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTC  
ACATTAATTGCGTTGCGTCACTGCCCGCTTTCCA  
GTCGGGAAACCTGTCGTGCCAGCTGCATTAATGA  
ATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTA  
TTGGGCGCTCTTCCGCTTCTCGCTCACTGACTCGC  
TGCCTCGGTGTTCCGGCTGCGGCGAGCGGTATCA  
GCTCACTCAAAGGCGGTAATACGGTTATCCACAGAA  
TCAGGGGATAACGCAGGAAGAACATGTGAGCA  
AAAGGCCAGCAAAGGCCAGGAACCGTAAAAG  
GCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCC  
CCTGACGAGCATCACAAAATCGACGCTCAAGTCA  
GAGGTGGCGAAACCCGACAGGACTATAAAGATACCA  
GGCGTTTCCCCCTGGAAGCTCCCTCGTGCCTCT  
CCTGTTCCGACCCTGCCGTTACCGGATACTGTCCG  
CCTTCTCCCTTCGGGAAGCGTGGCGCTTCTCA  
TAGCTACGCTGTAGGTATCTCAGTTCCGTTGTAGGT  
CGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCC  
CGTTCAGCCCAGCGCTGCGCCTTATCCGGTAACCT  
CGTCTGAGTCCAACCCGTAAGACAGGACTTATC  
GCCACTGGCAGCAGCCACTGGTAACAGGATTAGCA  
GAGCGAGGTATGTAGGCGGTACAGAGTTCTTG  
AAGTGGTGGCCTAACTACGGCTACACTAGAAGAA  
CAGTATTTGGTATCTGCGCTCTGTGAAGCCAGTT  
ACCTTCGGAAAAGAGTTGGTAGCTCTTGATCCGGC  
AAACAAACCACCGCTGGTAGCGGTTTTTTTTGTTG  
CAAGCAGCAGATTACGCGCAGAAAAAAGGATCTC  
AGAAGATCCTTTGATCTTTTCTACGGGGTCTGACG  
CTCAGTGGAACGAAACTCAGTTAAGGGATTTT  
GGTCATGAGATTATCAAAAAGGATCTTCACTAGATC  
CTTTTAATTAATAAATGAAGTTTTAATCAATCT  
AAAGTATATATGAGTAACTTGGTCTGACAGTTACCA  
ATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTG  
TCTATTTTCGTTTATCCATAGTTGCCTGACTCCCCG  
TCGTGTAGATAACTACGATACGGGAGGGCTTACCAT  
CTGGCCCCAGTGCTGCAATGATACCGGAGACCCA  
CGCTCACCGGCTCCAGATTTATCAGCAATAAACCA  
GCCAGCCGGAAGGGCCGAGCGCAGAGTGGTCCCT  
GCAACTTTATCCGCTCCATCCAGTCTATTAATTGTT  
GCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAAT  
AGTTTGCAGCAACGTTGTTGCCATTGCTACAGGCA  
TCGTGGTGTACGCTCGTCTTTGGTATGGCTTCA  
TTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACA

TGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCC  
TTCGGTCCCTCCGATCGTTGTCAGAAGTAAGTTGGCC  
GCAGTGTTATCACTCATGGTTATGGCAGCACTGCA  
TAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTT  
TCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGA  
GAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCG  
GCGTCAATACGGGATAATACCGCGCCACATAGCA  
GAACTTTAAAAGTGCTCATCATTGGAAAACGTTCT  
TCGGGGCGAAA ACTCTCAAGGATCTTACCGCTGT  
TGAGATCCAGTTCGATGTAACCCACTCGTGCACCC  
AACTGATCTTCAGCATCTTTTACTTTTACCAGCGT

TTCTGGGTGAGCAAAAACAGGAAGGCAAAATGC  
CGCAAAAAGGGAATAAGGGCGACACGGAAATGTT  
GAATACTCATACTCTTCCTTTTTCAATATTATTGAAG  
CATTTATCAGGGTTATTGTCTCATGAGCGGATACATA  
TTTGAATGTATTTAGAAAAATAAACAAATAGGGGT  
TCCGCGCACATTTCCCCGAAAAGTGCCACCTGAC  
GTC

Restriction enzyme sites are marked using (); the Kozak  
sequence is marked using []; and the Mtr CDS sequence is  
marked using {}.