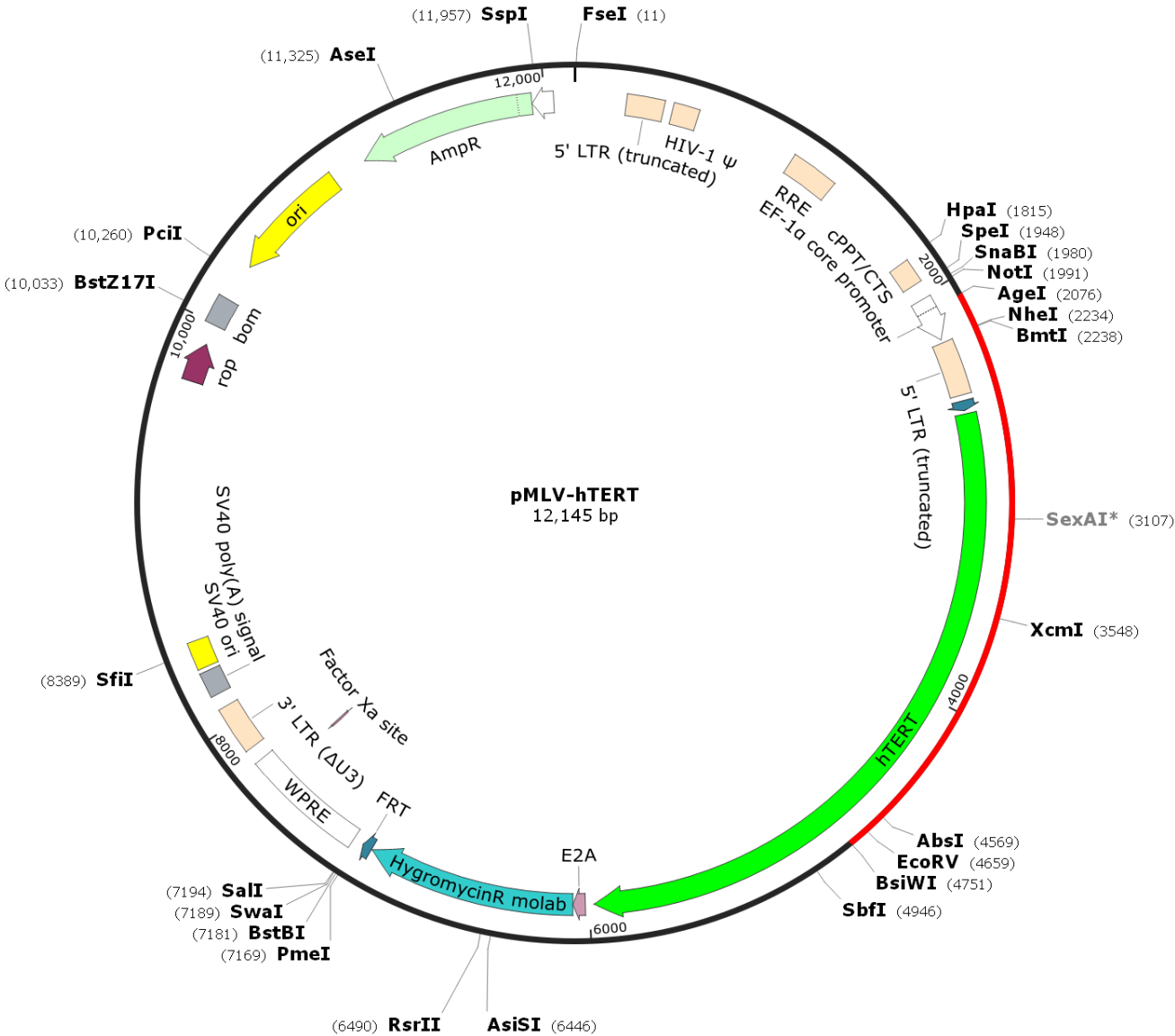


Vector: pMLV-hTERT (modified LV expressing Flp-flanked hTERT)

Antibiotic Selection: Amp (in bacterial cells); Hygro (in mammalian cells)

Creator(s): Wenping Luo @ Molecular Oncology Laboratory of The University of Chicago Medical Center

Date of Construction: December 10, 2018



pMLV-hTERT Full-Length Sequence

GAATTGGCCGGCCACTACCGCGTGTAGTCTTATGCAATACTCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATG
CCTTACAAGGAGAGAAAAAGCACCGTGCATGCCGATTGGTGGAAAGTAAGGTGGTACGATCGTGCCCTTATTAGGAAGGCAACA
GACGGGTCTGACATGGATTGGACGAACCACTGAATTGCCGATTGCAGAGATATTGTATTTAAGTGCCTAGCTCGATACAAT
AACGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCCTAAGCCTCAATAAA
GCTTGCCCTGAGTGCCTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTTTTAGTC
AGTGTGGAAAAATCTCTAGCAGTGGCGCCGAACAGGGACCTGAAAGCGAAAGGGAAACCAGAGCTCTCTCGACGCAGGACTC
GGCTTGCTGAAGCGCGCACGGCAAGAGGCGAGGGGCGGCGACTGGTGTAGTACGCCAAAAATTTTACTAGCGGAGGCTAGAA
GGAGAGAGATGGGTGCGAGAGCGTCAGTATTAAGCGGGGAGAATTAGATCGCGATGGGAAAAAATTCGGTTAAGGCCAGGG
GGAAAGAAAAAATATAAATTTAAACATATAGTATGGGCAAGCAGGGAGCTAGAACGATTTCGAGTTAATCCTGGCCTGTTAG
AAACATCAGAAGGCTGTAGACAAATACTGGGACAGCTACAACCATCCCTTCAGACAGGATCAGAAGAACCTTAGATCATTATA
TAATACAGTAGCAACCCCTCTATTGTGTGCATCAAAGGATAGAGATAAAAAGACACCAAGGAAGCTTTAGACAAGATAGAGGAA
GAGCAAAACAAAAGTAAGACCACCGCACAGCAAGCGGCCACTGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGG
AGAAGTGAATTATATAAATATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGGCAAAGAGAAGAGTGGTGC
AGAGAGAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCCTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGCGCAGCCTC
AATGACGCTGACGGTACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACAATTTGCTGAGGGCTATTGAGGCG
CAACAGCATCTGTTGCAACTCACAGTCTGGGGCATCAGCAGCTCCAGGCAAGAATCCTGGCTGTGAAAAGATACCATAAGGA
TCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGAAAACCTATTTCACCACCTGCTGTGCCCTTGGAAATGCTAGTTGGAGTAAT
AAATCTCTGGAACAGATTGGAATCACACGACCTGGATGGAGTGGGACAGAGAAATTAACAATTACACAAGCTTAATACACTC
CTTAATTGAAGAATCGCAAACCAGCAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAAATGGGCAAGTTTGTGGAAT
TGTTTTAACATAACAAATTTGGCTGTGGTATATAAAATTTATCATAATGATAGTAGGAGGCTTGGTAGGTTTAAAGAATAGTTT
TTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCAATTATCGTTTCAGACCCACCTCCCAACCCCGAGGGG
ACCCGACAGGCCCGAAGGAATAGAAGAAGAAGTGGAGAGAGAGACAGAGACAGATCCATTGATTAGTGAACGGATCTCGA
CGGTATCGGTTAACTTTTTAAAAGAAAAGGGGGATTGGGGGTACAGTGCAGGGGAAAAGAATAGTAGACATAATAGCAACAG
ACATACAACTAAAGAATTACAAAAACAAATTACAAAATTCAAAATTTTATCGATGGGCCACTAGTGGTACCGGATCCCC
GGGCTCGAGTACGTAGAATTCGCGGCCCGCGCTCCGGTGCCCGTCAAGTGGGCAGAGCGCACATCGCCACAGTCCCCGAGAA
GTTGGGGGGAGGGGTTCGGCAATTGAAccggtgcctagagaagtgccgccccgtaaaactgggaaagtgatgctgctactg
ctccgctttttcccgaggtgggggagaaaccgtatataagtgcagtagtcgcccgtgaacgttcttttccgcaacgggttg
ccgcagaaacacagctgaagctagcttcgaggggctcgcacctctcctcaccgccccgccccctacctgagccgcccac
cacgcccgttgatgcgcttctgcgcccctcccgcctggtgctcctgaaactgcgccccgcttagtaagttaaagct
caggtcgagaccgggctttgtccggcgtcccttggagcctacctagactcagccgctctccagctttgctgacctg
ctgtcactctacgtctttgtttctgttctgcgcccgttacagatccaagctgtgaccggcgcctacggtaccGA
AGTTCCTATTCCGAAGTTCCTATTCTCTAGAAAAGTATAGGAACTTCagatctTTAAaccaccATGCCGCGCGCTCCCCGCTG
CCGAGCCGTGCGCTCCCTGCTGCGCAGCCACTACCGCAGGTGCTGCCGCTGGCCACGTTCTGTGCGGCGCTGGGGCCCCAG
GGCTGGCGGCTGGTGCAGCGCGGGGACCCGGCGGCTTTCCGCGCGCTGGTGGCCAGTGCCTGGTGTGCGTGCCTGGGACG
CACGGCCGCCCCCGCCGCCCTCCTTCCGCCAGGTGTCTGCCGTAAGGAGCTGGTGGCCGAGTGTGCTGCAGAGGCTGTG
CGAGCGCGGCGGAAGAAGCTGCTGGCCTTCGGCTTCGCGCTGCTGGACGGGGCCCGGGGGCCCCCGAGGCCCTTACC
ACCAGCGTGCAGCTACCTGCCAACACGGTACCGACGCCTGCGGGGGAGCGGGGCGTGGGGGCTGCTGCTGCGCCGCG
TGGGCGACGACGTGCTGGTTACCTGCTGGCACGCTGCGCGCTCTTTGTGCTGGTGGCTCCCAGCTGCGCTACCAGGTGTG
CGGGCCGCGCTGTACCAGCTCGGCGCTGCCACTCAGGCCCGGCCCGCCACACGCTAGTGGACCCCGAAGGCGTCTGGGA
TGCGAACGGGCTGGAACCATAGCGTCAGGGAGGCGGGGTCCCCCTGGGCTGCCAGCCCCGGGTGCGAGGAGGCGGGG
GCAGTGCCAGCCGAAGTCTGCCGTTGCCAAGAGGCCAGGCGTGGCGCTGCCCTGAGCCGAGCGGACGCCGTTGGGCA
GGGGTCTGGGCCACCCGGGACAGGACGCTGGACCGAGTACCGTGGTTTTCTGTGTGGTGTACCTGCCAGACCCGCCGAA
GAAGCCACCTCTTTGGAGGTGCGCTCTTGGCACGCGCCACTCCCACCATCCGTGGGCCGCCAGCACCGGGCCCCC
CATCCACATCGCGGCCACCACGTCCCTGGGACACGCCTTGTCCCCCGGTGTACGCCGAGACCAAGCACTTCTCTACTCTC
AGGCGACAAGGAGCAGCTGCGGCCCTCCTTCTACTCAGCTCTCTGAGGCCAGCTGACTGGCGCTCGGAGGCTCGTGGAG
ACCATCTTTCTGGGTTCCAGGCCCTGGATGCCAGGGACTCCCCGAGGTTGCCCGCCTGCCAGCGCTACTGGCAAATGC
GGCCCTGTTTTCTGGAGCTGCTTGGGAACCACGCGCAGTGCCCCACGGGGTGTCTCTCAAGACGCCTGCCGCTGCGAGC
TGCGGTACCCCCAGCAGCCGTTGCTGTGCCCGGAGAAGCCCCAGGGCTCTGTGGCGGCCCGAGGAGGAGGACACAGAC
CCCCGTGCGCTGGTGCAGCTGCTCCGCCAGCACAGCAGCCCCGGCAGGTGTACGGCTTCTGTGCGGGCTGCCGCGCCGGC
TGGTGGCCCCAGGCTCTGGGGCTCCAGGCACAACGAACGCCGCTTCTCAGGAACACCAAGAAGTTTATCTCCCTGGGGAA
GCATGCCAAGCTCTCGCTGCAGGAGCTGACGTGGAAGATGAGCGTGCGGGGCTGCGCTTGGCTGCGCAGGAGCCCAGGGGTT
GGCTGTGTTCCGGCCGAGAGCACCGTCTGCGTGTAGGAGATCCTGGCCAAGTTCTTGCCTGACTGGCTGATGAGTGTGTACGTCG
TCGAGCTGCTCAGGCTTTTCTTTTATGTCACGGAGACCAGTTTTCAAAGAACAGGCTCTTTTTCTACCGGAAGAGTGTCTG
GAGCAAGTTGCAAAGCATTGGAATCAGACAGCACTTGAAGAGGTTGACGCTGCGGGAGCTGTGGAAGCAGAGGTCAGGCAG
CATCGGGAAGCCAGGCCCGCCCTGCTGACGTCCAGACTCCGCTTCTATCCCCAAGCCTGACGGGCTGCGGCCGATTGTGAACA
TGGACTACGTCGTGGGAGCCAGAACGTTCCGCAGAGAAAAGAGGGCCGAGCGTCTCACCTCGAGGGTGAAGGCACGTTCAG

CGTGCTCAACTACGAGCGGGCGGGCGCCCCGGCCTCCTGGGCGCCTCTGTGCTGGGCTGGACGATATCCACAGGGCCTGG
CGCACCTTCGTGCTGCGTGTGCGGGCCAGGACCCGCCCTGAGCTGTACTTTGTCAAGGTGGATGTGACGGGCGCGTACG
ACACCATCCCCAGGACAGGCTCACGGAGGTATCGCCAGCATCATCAAACCCAGAACACGTACTGCGTGCCTCGGTATGC
CGTGGTCCAGAAGGCCGCCATGGGCACGTCCGCAAGGCCCTCAAGAGCCACGTCTCTACCTTGACAGACCTCCAGCCGTAC
ATGCGACAGTTTCGTGGCTCACCTGCAGGAGACCAGCCCGCTGAGGGATGCCGTGTCATCGAGCAGAGCTCCTCCCTGAATG
AGGCCAGCAGTGGCCTCTTCGACGTCTTCTACGCTTTCATGTGCCACCACGCCGTGCGCATCAGGGGCAAGTCTTACGTCCA
GTGCCAGGGGATCCCGCAGGGCTCCATCCTCTCCACGCTGCTCTGCAGCCTGTGCTACGGCGACATGGAGAACAAGCTGTTT
GCGGGGATTCGGCGGGACGGGCTGCTCCTGCGTTTTGGTGGATGATTTCTTGTGGTACACCTCACCTCACCCACGCGAAAA
CCTTCTCAGGACCTGGTCCGAGGTGTCCCTGAGTATGGCTGCGTGGTGAACCTGCGGAAGACAGTGGTGAACCTTCCCTGT
AGAAGACGAGGCCCTGGGTGGCACGGCTTTTGTTCAGATGCCGGCCACGGCCTATTCCCCGGTGCGGCTGCTGCTGGAT
ACCCGGACCTGGAGGTGCAGAGCGACTACTCCAGCTATGCCCGGACCTCCATCAGAGCCAGTCTCACCTTCAACCGCGGCT
TCAAGGCTGGGAGGAACATGCGTTCGCAAACCTTTTGGGGTCTTGCGGCTGAAGTGTACAGCCTGTTTCTGGATTTGACAGGT
GAACAGCCTCCAGACGGTGTGCACCAACATCTACAAGATCCTCCTGCTGCAGGCGTACAGGTTTTCACGCATGTGTGCTGCAG
CTCCATTTTCATCAGCAAGTTTGGAAAGAACCCACATTTTCTGCGCGTCATCTCTGACACGGCCTCCCTCTGCTACTCCA
TCTGAAAGCCAAGAAGCAGGGATGTGCTGGGGGCCAAGGGCGCCGCCGGCCCTGCCCCCAGGCGCGTGCAGTGGCT
GTGCCACCAAGCATTCCTGCTCAAGCTGACTCGACACCGTGTACCTACGTGCCACTCCTGGGGTCACTCAGGACAGCCCAG
ACGCAGCTGAGTCGGAAGCTCCCGGGGACGACGCTGACTGCCCTGGAGGCCGAGCCAACCCGGCACTGCCCTCAGACTTCA
AGACCATCCTGGACCGCGCAAGCGCGGCTCCGGCCAGTGCACCAACTACGCCCTGCTGAAGCTGGCCGGCGACGTGGAGTC
CAACCCCGGCCCATGAAAAAGCCTGAACTCACCGCGACGTCTGTGAGAAAGTTTCTGATCGAAAAGTTTCGACAGCGTCTCC
GACCTGATGCAGCTCTCGGAGGGCGAAGAATCTCGTGTTCAGCTTCGATGTAGGAGGGCGTGGATATGTCTGCGGGTAA
ATAGCTGCGCCGATGGTTTTCTACAAAGATCGTTATGTTTATCGGCACCTTTCATCGGCCGCGTCCCGATTCCGGAAGTGT
TGACATTTGGGGAATTCAGCGAGAGCCTGACCTATTGCATCTCCCGCCGTGCACAGGGTGTACGTTGCAAGACCTGCCTGAA
ACCGAAGTGCCCGCTGTTCTGCAGCCGGTGCGGGAGGCCATGGATGCGATCGCTGCGGCCGATCTTAGCCAGACGAGCGGGT
TCGGCCATTCGGACCGCAAGGAATCGGTCAATACACTACATGGCGTGAATTCATATGCGCGAATGCTGATCCCCATGTGTA
TCACTGGCAAACGTGTGATGGACGACACCGTCACTGCGTCCGTGCGCAGGCTCTCGATGAGCTGATGCTTTGGGCCGAGGAC
TGCCCCGAAGTCCGGCACCTCGTGCACGCGGATTTCCGGCTCCAACAATGCTCTGACGGACAATGGCCGCATAACAGCGGTCA
TTGACTGGAGCGAGGCGATGTTCCGGGATTTCCAAATACGAGGTGCGCAACATCTTCTTCTGGAGGCCGTGGTTGGCTTGTAT
GGAGCAGCAGACGCGCTACTTCGAGCGGAGGCATCCGGAGCTTGCAGGATCGCCGCGGCTCCGGGCGTATATGCTCCGCATT
GGTCTTGACCAACTCTATCAGAGCTTGGTTGACGGCAATTTTCGATGATGCAGCTTGGGCGCAGGGTTCGATGCGACGCAATCG
TCCGATCCGGAGCCGGGACTGTCCGGCGTACACAAATCGCCCGCAGAAGCGCGGCCGTCTGGACCGATGGCTGTGTAGAAGT
ACTCGCCGATAGTGGAAACCGACGCCCCAGCACTCGTCCGTAGTAAGAAGTTCTTATTCGGAAGTTCTTATCTCTAGAAAAG
TATAGGAACCTCATCGATGTTTATCACGCGTGTTTAAACTCTAGATTCGAAATTTAAATGTGACAAATCAACCTCTGGATTA
CAAAATTTGTGAAAGATTGACTGGTATTCTTAACTATGTTGCTCCTTTTACGCTATGTGGATACGCTGCTTTAATGCCTTTGT
ATCATGCTATTGCTTCCCGTATGGCTTTTCATTTTCTCCTCCTTGTATAAAATCCTGGTTGCTGTCTCTTTATGAGGAGTTGTG
GCCGTTGTGACGGCAACGTGGCGTGGTGTGCACTGTGTTTGTGACGCAACCCCCACTGGTTGGGGCAATGGCCACCACCTGT
CAGCTCCTTTCCGGGACTTTTCGCTTTCCCTCCCTATTGCCACGGCGGAACCTCATCGCCGCTGCCCTGCCCCGCTGCTGGA
CAGGGGCTCGGCTGTTGGGCACTGACAAATCCGTGGTGTGTCGGGGAAATCATGCTCCTTTCTTGGCTGCTCGCCTGTGT
TGCCACCTGGATTCTGCGCGGGACGTCCTTCTGCTACGTCCCTTCGGCCCTCAATCCAGCGGACCTTCTTCCCGCGGCCCTG
CTGCCGGCTCTGCGGCCCTTCCGCGTCTTCCGCTTCCGCTCAGACGAGTCCGATCTCCCTTTGGGCGGCCCTCCCCGCTG
CTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTAAAAGAAAAGGGGGGACTGGAAGGGCTAATTC
CTCCCAACGAAAAAAGATCTGCTTTTGTCTTGTACTGGGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGC
TAACTAGGGAACCCACTGCTTAAAGCCTCAATAAAGCTTGCCCTGAGTGTCTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACT
CTGGTAACTAGAGATCCCTCAGACCTTTTAGTCACTGTGGAAAATCTTAGCAGTAGTAGTTTCATGTCATCTTATTATTCA
GTATTTATAACTTGCAGAAAGAAATGAATATCAGAGAGTGAAGAGAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGC
AATAGCATCACAAATTTACAAATAAAGCAATTTTTTTTCACTGCATTCAGTTGTGGTTTTGTCCAAACTCATCAATGTATCTT
ATCATGCTGCGCTTAGCTATCCCGCCCCTAACCTCCGCCAGTTCCGCCCATTTCTCCGCCCATGGCTGACTAATTTTTTTTT
ATTTATGACAGAGGCCGAGGCCCTCGGCCCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTTGGAGGCCCTTCGACCGA
TGCCCTTGAGAGCCTTCAACCCAGTCACTCCTTCCGGTGGGCGCGGGGCATGACTATCGTCCGCCACTTATGACTGTCTT
CTTTATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTGGGTCAATTTTCGGCGAGGACCGCTTTCGCTGGAGCGCGACG
ATGATCGGCCGTGTCGCTTGGGATTCGGAATCTTGCACGCCCTCGCTCAAGCCTTCGTCACCTGGTCCCGCCACCAACGTT
TCGGCGAGAAGCAGGCCATATCGCCGGCATGGCGGCCGACGCGTGGGTACGCTTGTGTTGGGTTTCGCGACGCGAGGCTG
GATGGCCTTCCCCATTAATGATTTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGCTTGCAGGCCATGCTGTCCAGGCAGGTA
GATGACGACCATCAGGGACAGCTTCAAGGATCGCTCGCGGCTCTTACCAGCCTAACTTCGATCATTTGGACCGCTGATCGTCA
CGCGGATTTATGCCGCCCTCGGCGAGCACATGGAACGGGTTGGCATGGATTTGATAGCGCCGCCCTATACCTTGTCTGCCCTCC
CGGTTGCGTCCGGTGCATGGAGCCGGGCCACCTCGACCTGAATGGAAGCCGGCGGCACCTCGCTAACGGATTCACCACTC
CAAGAAATGGAGCCAATCAATTTCTTGGGAGAAGTGTGAATGCGCAAACCAACCTTGGCAGAACATATCCATCGCGTCCGC
CATCTCCAGCAGCCGACGCGGCGCATCTCGGGCAGCGTTGGGTCTGGCCACGGGTGCGCATGATCGTCTCCTGTGCTTGG
AGGACCCGGCTAGGCTGGCGGGGTTGCCCTTACTGGTTAGCAGAATGAATCACCGATACGCGAGCGAACGTGAAGCGACTGCT

GCTGCAAAACGTCTGCGACCTGAGCAACAACATGAATGGTCTTCCGGTTTTCCGTGTTTTCGTAAAGTCTGGAAACGCGGAAGTC
AGCGCCCTGCACCATTATGTTCCGGATCTGCATCGCAGGATGCTGCTGGCTACCCGTGTGGAACACCTACATCTGTATTAACG
AAGCGCTGGCATTGACCCGTGAGTGATTTTTCTCTGGTCCC GCCGCATCCATACCGCCAGTTGTTTTACCCCTACAACGTTCCA
GTAACCGGGCATGTTTCATCATCAGTAACCCGTATCGTGAGCATCCTCTCTCGTTTTCATCGGTATCATTACCCCATGAACAG
AAATCCCCCTTACACGGAGGCATCAGTGACCAAACAGGAAAAACCGCCCTTAACATGGCCCCGCTTTATCAGAAGCCAGACA
TTAACGCTTCTGGAGAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGTGAATCGCTTCACGACCACGCTGATG
AGCTTTACCGCAGCTGCCCTCGCGCTTTCCGGTGATGACGGTGAACCTCTGACACATGCAGCTCCCGGAGACGGTCACAGC
TTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCTCAGCGGGTGTGGCGGGTGTGGGGGCGCAGCCATG
ACCCAGTCACGTAGCGATAGCGGAGTGATACTGGCTTAACTATGCGGCATCAGAGCAGATTGTAAGTGCAGGAGTGCACCATAT
GCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAAATACCGCATCAGGGCGCTTCCCGCTTCTCGCTCACTGACTCGCTG
CGCTCGGTCTCGGTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAATCAGGGGATAACG
CAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCT
CCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATAACAGGCG
TTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCTGTTCCGACCCGTCCGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGG
GAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCCGCTCCAAGCTGGGCTGTGTGCA
CGAACCCCCGTTTACGCCCCGACCGCTGCGCTTATCCGGTAACTATCGTCTTGTAGTCCAACCCGGTAAGACACGACTTATCG
CCACTGGCAGCAGCCACTGGTAAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTA
ACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGATCT
CAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGGAAACGAAACTCACGTTAAGGGATTTTTGGTCATGAGAT
TATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAATAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTG
GTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCGACTC
CCCGTCTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGCGAGACCCACGCTCAC
CGGCTCCAGATTTATCAGCAATAAACAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCGCAACTTTATCCGCTCCAT
CCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCCGCGAGTTAATAGTTTGCAGCAACGTTGTTGCCATTGCTGCA
GGCATCGTGGTGTACGCTCGTCTGTTGGTATGGCTTCAATCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCC
CCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCCGGTCCCGATCGTTGTCAGAAGTAAGTTGGCCGAGTGTATCACTCAT
GGTTATGGCAGCACTGCATAAATCTCTTACTGTCAATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAG
TCATTTCTGAGAAATAGTGTATGCGGGCAGCGAGTTGCTCTTGGCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAA
CTTTAAAAGTGCTCATCATTTGAAAAACGTTCTTCCGGGGCGAAAACCTCAAGGATCTTACCGCTGTTGAGATCCAGTTTCGAT
GTAACCCACTCGTGCACCCAACTGATCTTACGATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAA
AATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCTTTTTTCAATATTAATTGAAGCATTT
ATCAGGGTTATTTGCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCC
CCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATATCATGACATTAACCTATAAAAAATAGGCGTATCACGAGGCCCTTT
CGTCTTCAA