# **Figure 1: Complete Plasmid Sequence of NR-54980**

>NR-54980 lot 70043627 complete plasmid sequence

GTCGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATA

GCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGC

CCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAG

GGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTAC

ATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCG

CCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACG

TATTAGTCATCGCTATTACCATGGTCGAGGTGAGCCCCACGTTCTGCTTCACTCTCCCCA

TCTCCCCCCCCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNG

GGCGGGGCGAGGCGGAGAGGTGCGGCGGCAGCCAATCAGAGCGGCGCGCTCCGAAAGTTT

CCTTTTATGGCGAGGCGGCGGCGGCGGCGGCCCTATAAAAAGCGAAGCGCGCGGCGGGCG

GGAGTCGCTGCGCGCTGCCTTCGCCCCGTGCCCCGCTCCGCCGCCGCCTCGCGCCGCCCG

CCCCGGCTCTGACTGACCGCGTTACTCCCACAGGTGAGCGGGCGGGACGGCCCTTCTCCT

CCGGGCTGTAATTAGCGCTTGGTTTAATGACGGCTTGTTTCTTTTCTGTGGCTGCGTGAA

AGCCTTGAGGGGCTCCGGGAGGGCCCTTTGTGCGGGGGGAGCGGCTCGGGGGGTGCGTGC

GTGTGTGTGTGCGTGGGGAGCGCCGCGTGCGGCTCCGCGCTGCCCGGCGGCTGTGAGCGC

TGCGGGCGCGGCGCGGGGCTTTGTGCGCTCCGCAGTGTGCGCGRGCTGTCCGCGGGGGGA

CGGCTGCCTTCGGGGGGGACGGGGCAGGGCGGGGTTCGGCTTCTGGCGTGTGACCGGCGG

CTCTAGCGCCTCTGCTAACCATGTTCATGCCTTCTTCTTTTTCCTACAGCTCCTGGGCAA

CGTGCTGGTTGTTGTGCTGTCTCATCATTTTGGCAAAGAATTGCGGCCGTCTCAGGCCGA

GTTCGGTACCGCCACCATGATTCACTCCGTGTTCCTGCTGATGTTCCTGCTGACTCCTAC

AGAGAGCTATGTGGATGTGGGACCTGATTCCGTCAAGAGCGCCTGCATCGAAGTGGACAT

TCAGCAGACCTTCTTTGATAAGACATGGCCAAGACCCATCGACGTGAGCAAAGCCGATGG

CATCATCTACCCTCAGGGGAGGACCTATTCCAATATCACAATTACTTACCAGGGCCTGTT

CCCATATCAGGGAGACCACGGCGATATGTACGTGTATTCTGCTGGCCATGCAACAGGGAC

CACACCTCAGAAGCTGTTTGTGGCTAACTACAGCCAGGACGTCAAACAGTTCGCAAATGG

ATTTGTGGTCCGCATCGGCGCCGCTGCAAACTCTACCGGCACAGTGATCATTTCACCTAG

CACTTCCGCAACCATCCGAAAAATCTACCCAGCCTTCATGCTGGGAAGCTCCGTGGGCAA

TTTTAGCGACGGGAAAATGGGACGGTTCTTTAACCACACCCTGGTGCTGCTGCCTGATGG

ATGCGGCACACTGCTGAGGGCTTTCTACTGTATCCTGGAGCCACGCAGCGGAAACCACTG

CCCCGCAGGAAATAGCTACACCTCCTTTGCCACATATCATACTCCAGCTACCGACTGTTC

CGATGGCAACTACAATCGAAACGCCTCTCTGAATAGTTTCAAGGAATACTTCAACCTGCG

GAATTGCACATTCATGTACACTTATAACATCACCGAGGACGAAATTCTGGAGTGGTTCGG

AATCACTCAGACCGCACAGGGCGTGCACCTGTTTTCTAGTCGCTACGTCGACCTGTATGG

CGGGAACATGTTCCAGTTTGCCACTCTGCCCGTGTACGATACCATCAAGTACTATTCCAT

CATTCCTCATTCAATCCGCAGCATTCAGTCCGATCGAAAGGCTTGGGCCGCTTTCTACGT

GTATAAACTGCAGCCACTGACCTTCCTGCTGGACTTTAGCGTCGATGGCTACATCCGGAG

AGCCATTGACTGCGGGTTTAATGATCTGTCCCAGCTGCACTGTTCTTACGAAAGTTTCGA

CGTGGAGTCCGGCGTGTATTCTGTCTCAAGCTTTGAGGCCAAGCCCTCTGGGAGTGTGGT

CGAGCAGGCTGAAGGAGTGGAGTGCGATTTCAGTCCTCTGCTGTCAGGGACCCCCCCTCA

GGTGTACAACTTCAAGCGGCTGGTCTTTACTAACTGTAACTACAATCTGACCAAGCTGCT

GTCACTGTTCAGCGTGAATGACTTTACATGCTCCCAGATCAGCCCCGCAGCCATTGCTAG

TAACTGTTACTCCTCTCTGATCCTGGACTACTTCTCATATCCACTGAGTATGAAGAGCGA

CCTGAGCGTGAGTTCAGCCGGCCCCATCAGCCAGTTCAACTATAAACAGAGCTTCAGCAA

TCCTACATGCCTGATTCTGGCTACTGTGCCACATAATCTGACTACCATCACTAAGCCCCT

GAAATACTCCTATATTAACAAGTGCAGCCGGTTCCTGTCCGACGATAGAACCGAAGTGCC

ACAGCTGGTCAACGCCAATCAGTACTCTCCCTGTGTGAGTATCGTCCCTTCAACCGTGTG

GGAAGACGGGGATTACTATAGAAAACAGCTGAGCCCCCTGGAGGGAGGAGGATGGCTGGT

GGCATCCGGATCTACAGTCGCCATGACTGAGCAGCTGCAGATGGGGTTCGGAATCACAGT

GCAGTACGGCACAGACACTAACTCTGTCTGTCCCAAGCTGGAATTCGCTAACGATACTAA

GATCGCAAGTCAGCTGGGAAACTGCGTGGAGTACTCTCTGTATGGCGTGAGTGGCAGAGG

GGTCTTCCAGAATTGTACCGCAGTGGGCGTCCGACAGCAGCGGTTTGTGTACGACGCCTA

TCAGAATCTGGTCGGCTACTATAGCGACGATGGGAACTACTATTGCCTGAGGGCCTGTGT

GAGCGTCCCTGTGTCCGTCATCTACGATAAGGAAACCAAAACACACGCCACACTGTTCGG

GTCCGTGGCTTGCGAGCATATTAGCTCCACAATGTCTCAGTACAGTAGATCAACTAGGTC

AATGCTGAAGAGGCGCGATAGCACCTATGGACCTCTGCAGACACCAGTGGGGTGTGTCCT

GGGACTGGTGAACTCTAGTCTGTTTGTCGAGGACTGCAAGCTGCCCCTGGGCCAGAGCCT

GTGCGCCCTGCCCGACACCCCCAGCACCCTGACCCCCGCCAGCGTGGGCAGCGTGCCCGG

CGAGATGCGGCTGGCCAGCATCGCCTTCAACCACCCCATCCAGGTGGACCAGCTGAACAG

CAGCTACTTCAAGCTGAGCATCCCCACCAACTTCAGCTTCGGCGTGACCCAGGAGTACAT

CCAGACCACCATCCAGAAGGTGACCGTGGACTGCAAGCAGTACGTGTGCAACGGCTTCCA

GAAGTGCGAGCAGCTGCTGCGGGAGTACGGCCAGTTCTGCAGCAAGATCAACCAGGCCCT

GCACGGCGCCAACCTGCGGCAGGACGACAGCGTGCGGAACCTGTTCGCTAGCGTGAAGAG

CAGCCAGAGCAGCCCCATCATCCCCGGCTTCGGCGGCGACTTCAACCTGACCCTGCTGGA

GCCCGTGAGCATCAGCACCGGCAGCCGGAGCGCCCGGAGCGCCATCGAGGACCTGCTGTT

CGACAAGGTGACCATCGCCGACCCCGGCTACATGCAGGGCTACGACGACTGCATGCAGCA

GGGCCCCGCCAGCGCCCGGGACCTGATCTGCGCCCAGTACGTGGCCGGCTACAAGGTGCT

GCCCCCCCTGATGGACGTGAACATGGAGGCCGCCTACACCAGCAGCCTGCTGGGCAGCAT

CGCCGGCGTGGGCTGGACCGCCGGCCTGAGCAGCTTCGCCGCCATCCCCTTCGCCCAGAG

CATCTTCTACCGGCTGAACGGCGTGGGCATCACCCAGCAGGTGCTGAGCGAGAACCAGAA

GCTGATCGCCAACAAGTTCAACCAGGCCCTGGGCGCCATGCAGACCGGCTTCACCACCAC

CAACGAGGCCTTCCACAAGGTGCAGGACGCCGTGAACAACAACGCCCAGGCCCTGAGCAA

GCTGGCCAGCGAGCTGAGCAACACCTTCGGCGCCATCAGCGCCAGCATCGGCGACATCAT

CCAGCGGCTGGACCCCCCCGAGCAGGACGCCCAGATCGACCGGCTGATCAACGGCCGGCT

GACCACCCTGAACGCCTTCGTGGCCCAGCAGCTGGTGCGGAGCGAGAGCGCCGCCCTGAG

CGCCCAGCTGGCCAAGGACAAGGTGAACGAGTGCGTGAAGGCCCAGAGCAAGCGGAGCGG

CTTCTGCGGCCAGGGCACCCACATCGTGAGCTTCGTGGTGAACGCCCCCAACGGCCTGTA

CTTCATGCACGTGGGCTACTACCCCAGCAACCACATCGAGGTGGTGAGCGCCTACGGCCT

GTGCGACGCCGCCAACCCCACCAACTGCATCGCCCCCGTGAACGGCTACTTCATCAAGAC

CAACAACACCCGGATCGTGGACGAGTGGAGCTACACCGGCAGCAGCTTCTACGCCCCCGA

GCCCATCACCAGCCTGAACACCAAGTACGTGGCCCCCCAGGTGACCTACCAGAACATCAG

CACCAACCTGCCCCCCCCCCTGCTGGGCAACAGCACCGGCATCGACTTCCAGGACGAGCT

GGACGAGTTCTTCAAGAACGTGAGCACCAGCATCCCCAACTTCGGCAGCCTGACCCAGAT

CAACACCACCCTGCTGGACCTGACCTACGAGATGCTGAGCCTGCAGCAGGTGGTGAAGGC

CCTGAACGAGAGCTACATCGACCTGAAGGAGCTGGGCAACTACACCTACGGATCCGGATA

CATCCCCGAGGCCCCCAGAGATGGCCAGGCCTACGTGCGGAAGGACGGCGAGTGGGTACT

GCTGAGCACATTCCTGGGCAGATCCCTGGAGGTGCTGTTCCAGGGCCCAGGCCATCACCA

CCATCACCACCATCATAGCGCCTGGTCCCACCCCCAGTTCGAGAAGGGCGGCGGTAGTGG

AGGGGGCGGATCTGGCGGCTCAGCTTGGAGCCACCCCCAGTTCGAAAAGTGATAATGACT

CGAGCGATAATTCACTCCTCAGGTGCAGGCTGCCTATCAGAAGGTGGTGGCTGGTGTGGC

CAATGCCCTGGCTCACAAATACCACTGAGATCTTTTTCCCTCTGCCAAAAATTATGGGGA

CATCATGAAGCCCCTTGAGCATCTGACTTCTGGCTAATAAAGGAAATTTATTTTCATTGC

AATAGTGTGTTGGAATTTTTTGTGTCTCTCACTCGGAAGGACATATGGGAGGGCAAATCA

TTTAAAACATCAGAATGAGTATTTGGTTTAGAGTTTGGCAACATATGCCCATATGCTGGC

TGCCATGAACAAAGGGTGGCTATAAAGAGGTCATCAGTATATGAAACAGCCCCCTGCTGT

CCATTCCTTATTCCATAGAAAAGCCTTGACTTGAGGTTAGATTTTTTTTATATTTTGTTT

TGTGTTATTTTTTTCTTTAACATCCCTAAAATTTTCCTTACATGTTTTACTAGCCAGATT

TTTCCTCCTCTCCTGACTACTCCCAGTCATAGCTGTCCCTCTTCTCTTATGGAGATCCCT

CGACCTGCAGCCCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTT

ATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTG

CCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGG

GAAACCTGTCGTGCCAGCGGATCGATCCGCTGCATTAATGAATCGGCCAACGCGCGGGGA

GAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGG

TCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAG

AATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACC

GTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACA

AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGT

TTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACC

TGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATC

TCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGC

CCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACT

TATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTG

CTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTA

TCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCA

AACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAA

AAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACG

AAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCC

TTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTG

ACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCAT

CCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTG

GCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAA

TAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCA

TCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGC

GCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTT

CATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAA

AAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTAT

CACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCT

TTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGA

GTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAG

TGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGA

GATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCA

CCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGG

CGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATC

AGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAG

GGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTG

# **Figure 2: Plasmid Map of NR-54980**

The image shows the plasmid map for NR-54980.