# **Figure 1: Complete Plasmid Sequence of NR-54975**

>NR-54975 lot 70043622 complete plasmid sequence

GTCGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATA

GCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGC

CCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAG

GGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTAC

ATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCG

CCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACG

TATTAGTCATCGCTATTACCATGGTCGAGGTGAGCCCCACGTTCTGCTTCACTCTCCCCA

TCTCCCCCCCCTCCCCACCCCCAATTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNG

GGCGGGGCGAGGCGGAGAGGTGCGGCGGCAGCCAATCAGAGCGGCGCGCTCCGAAAGTTT

CCTTTTATGGCGAGGCGGCGGCGGCGGCGGCCCTATAAAAAGCGAAGCGCGCGGCGGGCG

GGAGTCGCTGCGCGCTGCCTTCGCCCCGTGCCCCGCTCCSCCGCCGCCTCGCGCCGCCCG

CCCCGGCTCTGACTGACCGCGTTACTCCCACAGGTGAGCGGGCGGGACGGCCCTTCTCCT

CCGGGCTGTAATTAGCGCTTGGTTTAATGACGGCTTGTTTCTTTTCTGTGGCTGCGTGAA

AGCCTTGAGGGGCTCCGGGAGGGCCCTTTGTGCGGGGGGAGCGGCTCGGGGGGTGCGTGC

GTGTGTGTGTGCGTGGGGAGCGCCGCGTGCGGCTCCGCGCTGCCCGGCGGCTGTGAGCGC

TGCGGGCGCGGCGCGGGGCTTTGTGCGCTCCGCAGTGTGCGCGRGCTGTCCGCGGGGGGA

CGGCTGCCTTCGGGGGGGACGGGGCAGGGCGGGGTTCGGCTTCTGGCGTGTGACCGGCGG

CTCTAGCGCCTCTGCTAACCATGTTCATGCCTTCTTCTTTTTCCTACAGCTCCTGGGCAA

CGTGCTGGTTGTTGTGCTGTCTCATCATTTTGGCAAAGAATTGCGGCCGTCTCAGGCCGA

GTTCGGTACCGCTAGCCGCCACCATGTTCATCTTCCTGCTGTTCCTGACCCTGACCAGCG

GCAGCGACCTGGACCGGTGCACCACCTTCGACGACGTGCAGGCCCCCAACTACACCCAGC

ACACCAGCAGCATGCGGGGCGTGTACTACCCCGACGAGATCTTCCGGAGCGACACCCTGT

ACCTGACCCAGGACCTGTTCCTGCCCTTCTACAGCAACGTGACCGGCTTCCACACCATCA

ACCACACCTTCGGCAACCCCGTGATCCCCTTCAAGGACGGCATCTACTTCGCCGCCACCG

AGAAGAGCAACGTGGTGCGGGGCTGGGTGTTCGGCAGCACCATGAACAACAAGAGCCAGA

GCGTGATCATCATCAACAACAGCACCAACGTGGTGATCCGGGCCTGCAACTTCGAGCTGT

GCGACAACCCCTTCTTCGCCGTGAGCAAGCCCATGGGCACCCAGACCCACACCATGATCT

TCGACAACGCCTTCAACTGCACCTTCGAGTACATCAGCGACGCCTTCAGCCTGGACGTGA

GCGAGAAGAGCGGCAACTTCAAGCACCTGCGGGAGTTCGTGTTCAAGAACAAGGACGGCT

TCCTGTACGTGTACAAGGGCTACCAGCCCATCGACGTGGTGCGGGACCTGCCCAGCGGCT

TCAACACCCTGAAGCCCATCTTCAAGCTGCCCCTGGGCATCAACATCACCAACTTCCGGG

CCATCCTGACCGCCTTCAGCCCCGCCCAGGACATCTGGGGCACCAGCGCCGCCGCCTACT

TCGTGGGCTACCTGAAGCCCACCACCTTCATGCTGAAGTACGACGAGAACGGCACCATCA

CCGACGCCGTGGACTGCAGCCAGAACCCCCTGGCCGAGCTGAAGTGCAGTGTGAAGAGCT

TCGAGATCGACAAGGGCATCTACCAGACCAGCAACTTCCGGGTGGTGCCCAGCGGCGACG

TGGTGCGGTTCCCCAACATCACCAACCTGTGCCCCTTCGGCGAGGTGTTCAACGCCACCA

AGTTCCCCAGCGTGTACGCCTGGGAGCGGAAGAAGATCAGCAACTGCGTGGCCGACTACA

GCGTGCTGTACAACAGCACCTTCTTCAGCACCTTCAAGTGCTACGGCGTGAGCGCCACCA

AGCTGAACGACCTGTGCTTCAGCAACGTGTACGCCGACAGCTTCGTGGTGAAGGGCGACG

ACGTGCGGCAGATCGCCCCCGGCCAGACCGGCGTGATCGCCGACTACAACTACAAGCTGC

CCGACGACTTCATGGGCTGCGTGCTGGCCTGGAACACCCGGAACATCGACGCCACCAGCA

CCGGCAACTACAACTACAAGTACCGGTACCTGCGGCACGGCAAGCTGCGGCCCTTCGAGC

GGGACATCAGCAACGTGCCCTTCAGCCCCGACGGCAAGCCCTGCACCCCCCCCGCCCTGA

ACTGCTACTGGCCCCTGAACGACTACGGCTTCTACACCACTACCGGCATCGGCTACCAGC

CCTACCGGGTGGTGGTGCTGAGCTTCGAGCTGCTGAACGCCCCCGCCACCGTGTGCGGCC

CCAAGCTGAGCACCGACCTGATCAAGAACCAGTGCGTGAACTTCAACTTCAACGGCCTGA

CCGGCACCGGCGTGCTGACCCCCAGCAGCAAGCGGTTCCAGCCCTTCCAGCAGTTCGGCC

GGGACGTGAGCGACTTCACCGACAGCGTGCGGGACCCCAAGACCAGCGAGATCCTGGACA

TCAGCCCCTGCGCCTTCGGCGGCGTGAGCGTGATCACCCCCGGTACCAACGCCAGCAGCG

AGGTGGCCGTGCTGTACCAGGACGTGAACTGCACCGACGTGAGCACCGCCATCCACGCCG

ACCAGCTGACCCCCGCCTGGCGGATCTACAGCACCGGCAACAACGTGTTCCAGACCCAGG

CCGGCTGCCTGATCGGCGCCGAGCACGTGGACACCAGCTACGAGTGCGACATCCCCATCG

GCGCCGGCATCTGCGCCAGCTACCACACCGTGAGCCTGCTGCGGAGCACCAGCCAGAAGA

GCATCGTGGCCTACACCATGAGCCTGGGCGCCGACAGCAGCATCGCCTACAGCAACAACA

CCATCGCCATCCCCACCAACTTCAGCATCAGCATCACCACCGAGGTGATGCCCGTGAGCA

TGGCCAAGACCAGCGTGGACTGCAACATGTACATCTGCGGCGACAGCACCGAGTGCGCCA

ACCTGCTGCTGCAGTACGGCAGCTTCTGCACCCAGCTGAACCGGGCCCTGAGCGGCATCG

CCGCCGAGCAGGACCGGAACACCCGGGAGGTGTTCGCCCAGGTGAAGCAGATGTACAAGA

CCCCCACCCTGAAGTACTTCGGCGGCTTCAACTTCAGCCAGATCCTGCCCGACCCCCTGA

AGCCCACCAAGCGGAGCTTCATCGAGGACCTGCTGTTCAACAAGGTGACCCTGGCCGACG

CCGGCTTCATGAAGCAGTACGGCGAGTGCCTGGGCGACATCAACGCCCGGGACCTGATCT

GCGCCCAGAAGTTCAACGGCCTGACCGTGCTGCCCCCCCTGCTGACCGACGACATGATCG

CCGCCTACACCGCCGCCCTGGTGAGCGGCACCGCCACCGCCGGCTGGACCTTCGGCGCCG

GCGCCGCCCTGCAGATCCCCTTCGCCATGCAGATGGCCTACCGGTTCAACGGCATCGGCG

TGACCCAGAACGTGCTGTACGAGAACCAGAAGCAGATCGCCAACCAGTTCAACAAGGCCA

TCAGCCAGATCCAGGAGAGCCTGACCACCACCAGCACCGCCCTGGGCAAGCTGCAGGACG

TGGTGAACCAGAACGCCCAGGCCCTGAACACCCTGGTGAAGCAGCTGAGCTCCAACTTCG

GCGCCATCAGCAGCGTGCTGAACGACATCCTGAGCCGGCTGGACCCCCCCGAGGCCGAGG

TGCAGATCGACCGGCTGATCACCGGCCGGCTGCAGAGCCTGCAGACCTACGTGACCCAGC

AGCTGATCCGGGCCGCCGAGATCCGGGCCAGCGCCAACCTGGCCGCCACCAAGATGAGCG

AGTGCGTGCTGGGCCAGAGCAAGCGGGTGGACTTCTGCGGCAAGGGCTACCACCTGATGA

GCTTCCCCCAGGCCGCCCCCCACGGCGTGGTGTTCCTGCACGTGACCTACGTGCCCAGCC

AGGAGCGGAACTTCACCACCGCCCCCGCCATCTGCCACGAGGGCAAGGCCTACTTCCCCC

GGGAGGGCGTGTTCGTGTTCAACGGCACCAGCTGGTTCATCACCCAGCGGAACTTCTTCA

GCCCCCAGATCATCACCACCGACAACACCTTCGTGAGCGGCAACTGCGACGTGGTGATCG

GCATCATCAACAACACCGTGTACGACCCCCTGCAGCCCGAGCTGGACAGCTTCAAGGAGG

AGCTGGACAAGTACTTCAAGAACCACACCAGCCCCGACGTGGACCTGGGCGACATCAGCG

GCATCAACGCCAGCGTGGTGAACATCCAGAAGGAGATCGACCGGCTGAACGAGGTGGCCA

AGAACCTGAACGAGAGCCTGATCGACCTGCAGGAGCTGGGCAAGTACGAGCAGGGATCCG

GATACATCCCCGAGGCCCCCAGAGATGGCCAGGCCTACGTGCGGAAGGACGGCGAGTGGG

TACTGCTGAGCACATTCCTGGGCAGATCCCTGGAGGTGCTGTTCCAGGGCCCAGGCCACC

ACCACCACCACCACCATCATAGCGCCTGGTCCCACCCCCAGTTCGAGAAGTGATAACTCG

AGCGATAATTCACTCCTCAGGTGCAGGCTGCCTATCAGAAGGTGGTGGCTGGTGTGGCCA

ATGCCCTGGCTCACAAATACCACTGAGATCTTTTTCCCTCTGCCAAAAATTATGGGGACA

TCATGAAGCCCCTTGAGCATCTGACTTCTGGCTAATAAAGGAAATTTATTTTCATTGCAA

TAGTGTGTTGGAATTTTTTGTGTCTCTCACTCGGAAGGACATATGGGAGGGCAAATCATT

TAAAACATCAGAATGAGTATTTGGTTTAGAGTTTGGCAACATATGCCCATATGCTGGCTG

CCATGAACAAAGGTTGGCTATAAAGAGGTCATCAGTATATGAAACAGCCCCCTGCTGTCC

ATTCCTTATTCCATAGAAAAGCCTTGACTTGAGGTTAGATTTTTTTTATATTTTGTTTTG

TGTTATTTTTTTCTTTAACATCCCTAAAATTTTCCTTACATGTTTTACTAGCCAGATTTT

TCCTCCTCTCCTGACTACTCCCAGTCATAGCTGTCCCTCTTCTCTTATGGAGATCCCTCG

ACCTGCAGCCCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTAT

CCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCC

TAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGA

AACCTGTCGTGCCAGCGGATCGATCCGCTGCATTAATGAATCGGCCAACGCGCGGGGAGA

GGCGGTTTKCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTC

GTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAA

TCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGT

AAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAA

AATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTT

CCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTG

TCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTC

AGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCC

GACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTA

TCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCT

ACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATC

TGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAA

CAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAA

AAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAA

AACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTT

TTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGAC

AGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCC

ATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGC

CCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATA

AACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATC

CAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGC

AACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCA

TTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAA

GCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCA

CTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTT

TCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGT

TGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTG

CTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGA

TCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACC

AGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCG

ACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAG

GGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGG

GTTCCGCGCACATTTCCCCGAAAAGTGCCACCTG

# **Figure 2: Plasmid Map of NR-54975**

Plasmid map of NR-54975