# **Figure 1: Complete Plasmid Sequence of NR-54978**

>NR-54978 lot 70043625 complete plasmid sequence

GTCGACATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTCGAGGTGAGCCCCACGTTCTGCTTCACTCTCCCCATCTCCCCCCCCTCCCCACCCCCAATTTTGTATTTATTTATTTTTTAATTATTTTGTGCAGCGATGGGGGCGGGGGGGGGGGGGGCGCGCGCCAGGCGGGGCGGGGCGGGGCGAGGGGCGGGGCGGGGCGAGGCGGAGAGGTGCGGCGGCAGCCAATCAGAGCGGCGCGCTCCGAAAGTTTCCTTTTATGGCGAGGCGGCGGCGGCGGCGGCCCTATAAAAAGCGAAGCGCGCGGCGGGCGGGAGTCGCTGCGCGCTGCCTTCGCCCCGTGCCCCGCTCCGCCGCCGCCTCGCGCCGCCCGCCCCGGCTCTGACTGACCGCGTTACTCCCACAGGTGAGCGGGCGGGACGGCCCTTCTCCTCCGGGCTGTAATTAGCGCTTGGTTTAATGACGGCTTGTTTCTTTTCTGTGGCTGCGTGAAAGCCTTGAGGGGCTCCGGGAGGGCCCTTTGTGCGGGGGGAGCGGCTCGGGGGGTGCGTGCGTGTGTGTGTGCGTGGGGAGCGCCGCGTGCGGCTCCGCGCTGCCCGGCGGCTGTGAGCGCTGCGGGCGCGGCGCGGGGCTTTGTGCGCTCCGCAGTGTGCGCGRGCTGTCCGCGGGGGGACGGCTGCCTTCGGGGGGGACGGGGCAGGGCGGGGTTCGGCTTCTGGCGTGTGACCGGCGGCTCTAGCGCCTCTGCTAACCATGTTCATGCCTTCTTCTTTTTCCTACAGCTCCTGGGCAACGTGCTGGTTGTTGTGCTGTCTCATCATTTTGGCAAAGAATTGCGGCCGTCTCAGGCCGAGTTCGGTACCGCTAGCTCTAGAGCCACCATGTTTCTGATTATCTTTATTCTGCCCACTACCCTGGCCGTCATTGGAGACTTCAACTGCACTAACTCATTCATTAACGACTACAACAAGACAATCCCCCGCATTTCCGAGGATGTGGTCGACGTGTCTCTGGGGCTGGGAACATACTATGTGCTGAATCGAGTCTATCTGAACACCACACTGCTGTTTACTGGATACTTCCCTAAATCCGGCGCCAACTTCCGCGACCTGGCTCTGAAGGGCTCAATCTACCTGAGCACCCTGTGGTACAAACCCCCTTTTCTGTCAGATTTCAACAATGGGATCTTTAGCAAGGTGAAGAACACTAAGCTGTACGTCAACAACACCCTGTACTCTGAATTCAGTACAATCGTGATTGGATCTGTCTTTGTGAACACTAGTTATACCATCGTGGTCCAGCCTCACAATGGCATCCTGGAGATTACCGCCTGTCAGTATACAATGTGCGAATACCCACACACCGTGTGCAAGTCAAAAGGCAGCATTAGAAACGAGTCCTGGCATATCGATAGCTCCGAACCCCTGTGCCTGTTTAAGAAAAACTTCACATACAACGTGAGCGCCGACTGGCTGTATTTCCACTTTTACCAGGAGAGGGGAGTGTTCTATGCCTACTATGCTGATGTCGGCATGCCAACTACCTTCCTGTTTTCCCTGTACCTGGGCACAATTCTGTCTCATTACTATGTGATGCCCCTGACTTGCAACGCCATCTCTAGTAACACCGACAATGAGACACTGGAATATTGGGTGACCCCTCTGTCCCGGAGACAGTACCTGCTGAACTTCGATGAGCACGGCGTGATTACAAATGCTGTCGACTGTTCAAGCTCCTTCCTGAGTGAAATCCAGTGCAAGACTCAGTCATTTGCACCTAACACCGGGGTGTATGATCTGTCTGGCTTCACCGTCAAACCAGTGGCCACTGTCTACAGGCGCATTCCAAACCTGCCCGACTGTGATATCGACAATTGGCTGAACAATGTCTCCGTGCCATCTCCCCTGAATTGGGAGCGACGGATCTTCAGCAACTGCAATTTCAACCTGTCAACTCTGCTGAGACTGGTCCATGTGGATTCATTCAGCTGTAACAATCTGGACAAGAGCAAAATCTTTGGCTCCTGCTTCAACTCTATTACCGTGGACAAGTTCGCCATCCCAAATAGAAGGCGCGACGATCTGCAGCTGGGGTCTAGTGGATTTCTGCAGTCAAGCAACTACAAGATCGATATTTCCTCTAGTTCATGCCAGCTGTACTATAGCCTGCCACTGGTCAATGTGACCATCAACAATTTCAATCCCAGCTCCTGGAACCGACGGTACGGCTTCGGGTCCTTTAACCTGTCTAGTTATGATGTGGTCTACTCTGACCACTGTTTTAGTGTGAACTCAGATTTCTGTCCTTGCGCAGACCCAAGTGTGGTCAATTCATGCGCCAAGAGCAAACCACCCTCCGCTATTTGTCCTGCAGGCACAAAGTATAGGCATTGCGATCTGGACACAACTCTGTACGTGAAAAACTGGTGTCGCTGCAGCTGTCTGCCTGACCCAATCAGCACTTACTCCCCCAATACCTGCCCTCAGAAGAAAGTGGTCGTGGGAATTGGCGAGCACTGTCCTGGGCTGGGAATCAACGAGGAAAAGTGCGGGACCCAGCTGAATCATTCAAGCTGCTTCTGTTCCCCAGATGCCTTTCTGGGATGGTCTTTCGACAGTTGTATTTCAAACAACAGGTGCAACATCTTTTCTAATTTCATCTTTAACGGGATTAATAGTGGAACCACATGTTCAAACGATCTGCTGTACAGCAATACTGAGATCAGCACCGGCGTCTGCGTGAACTATGACCTGTACGGGATCACAGGCCAGGGGATTTTCAAGGAAGTGAGCGCCGCTTACTATAACAATTGGCAGAACCTGCTGTATGATAGCAATGGCAACATCATTGGGTTCAAGGACTTTCTGACCAACAAGACATATACTATCCTGCCCTGCTACTCTGGCAGAGTGAGTGCAGCCTTCTACCAGAACTCCTCTAGTCCTGCCCTGCTGTATAGGAATCTGAAGTGTAGCTACGTGCTGAACAATATCAGCTTTATTTCCCAGCCATTCTATTTTGACAGCTACCTGGGCTGCGTGCTGAACGCTGTCAATCTGACCTCCTACAGCGTGAGCAGCTGTGATCTGAGAATGGGATCCGGCTTCTGCATTGACTATGCACTGCCATCCAGCGGGGGGAGCGGAAGCGGAATCAGTTCACCATACAGGTTCGTGACTTTTGAGCCCTTCAACGTGAGCTTCGTGAACGACAGTGTGGAGACCGTCGGCGGGCTGTTTGAAATCCAGATTCCAACAAACTTCACTATTGCAGGCCACGAGGAGTTCATCCAGACCAGCTCCCCCAAAGTGACAATCGATTGTTCAGCCTTCGTCTGCAGCAATTATGCTGCATGTCATGATCTGCTGAGCGAGTACGGAACTTTTTGCGACAATATCAACAGCATTCTGAACGAAGTGAATGATCTGCTGGACATTACCCAGCTGCAGGTGGCTAACGCACTGATGCAGGGCGTCACACTGAGCTCCAATCTGAACACTAATCTGCACAGCGATGTGGACAATATCGACTTCAAGAGCCTGCTGGGATGTCTGGGGTCCCAGTGCGGATCAAGCTCCCGCTCCCTGCTGGAGGATCTGCTGTTCAACAAGGTGAAACTGTCTGACGTGGGCTTTGTCGAGGCCTACAACAATTGTACCGGAGGCAGCGAAATCCGGGATCTGCTGTGCGTGCAGAGCTTCAATGGCATCAAAGTCCTGCCTCCAATTCTGTCCGAAACTCAGATCAGCGGGTATACTACCGCAGCTACCGTGGCAGCAATGTTCCCACCTTGGAGCGCCGCAGCAGGAGTGCCCTTTTCCCTGAACGTCCAGTACCGCATCAATGGGCTGGGAGTGACCATGGACGTGCTGAACAAGAATCAGAAACTGATTGCCAACGCTTTCAATAAGGCTCTGCTGAGCATCCAGAACGGGTTTACCGCAACAAATTCTGCACTGGCCAAAATCCAGAGTGTCGTGAACGCTAATGCACAGGCCCTGAACAGCCTGCTGCAGCAGCTGTTTAATAAGTTCGGAGCTATTTCTAGTTCACTGCAGGAGATCCTGTCTAGACTGGATCCCCCCGAAGCACAGGTGCAGATCGACCGGCTGATTAACGGCAGACTGACCGCACTGAATGCCTACGTGTCACAGCAGCTGAGCGATATCACCCTGATCAAGGCTGGGGCAAGCCGAGCCATCGAGAAGGTGAACGAATGCGTGAAAAGTCAGTCACCCCGGATTAATTTCTGCGGCAACGGGAATCACATCCTGAGCCTGGTGCAGAACGCTCCTTATGGGCTGCTGTTTATCCATTTCAGTTACAAGCCCACCAGCTTCAAGACTGTCCTGGTGTCACCTGGACTGTGCCTGAGCGGAGATCGGGGCATTGCCCCCAAGCAGGGGTATTTCATCAAACAGAACGACTCCTGGATGTTTACAGGAAGCTCCTACTATTACCCCGAGCCTATCTCTGACAAGAATGTCGTGTTCATGAACAGCTGCTCCGTGAACTTCACCAAAGCCCCCTTCATCTACCTGAACAATAGCATCCCAAACCTGTCCGATTTCGAGGCTGAACTGTCTCTGTGGTTTAAGAATCACACCAGTATTGCCCCTAACCTGACATTCAATAGCCATATCAACGCTACATTTCTGGACCTGTATTACGAGATGAACGTTATCCAGGAATCTATTAAGAGTCTGAACAGCGGCCGCCTGGAGGTGCTGTTCCAGGGCCCAGGCGGGTACATCCCAGAGGCACCTCGAGACGGACAGGCTTATGTGAGAAAGGATGGAGAGTGGGTCCTGCTGTCCACCTTCCTGGGCCACCACCACCACCACCACCATCATAGCGCCTGGTCCCACCCCCAGTTCGAGAAGTGATAAGTCGAGCGATAATTCACTCCTCAGGTGCAGGCTGCCTATCAGAAGGTGGTGGCTGGTGTGGCCAATGCCCTGGCTCACAAATACCACTGAGATCTTTTTCCCTCTGCCAAAAATTATGGGGACATCATGAAGCCCCTTGAGCATCTGACTTCTGGCTAATAAAGGAAATTTATTTTCATTGCAATAGTGTGTTGGAATTTTTTGTGTCTCTCACTCGGAAGGACATATGGGAGGGCAAATCATTTAAAACATCAGAATGAGTATTTGGTTTAGAGTTTGGCAACATATGCCCATATGCTGGCTGCCATGAACAAAGGTTGGCTATAAAGAGGTCATCAGTATATGAAACAGCCCCCTGCTGTCCATTCCTTATTCCATAGAAAAGCCTTGACTTGAGGTTAGATTTTTTTTATATTTTGTTTTGTGTTATTTTTTTCTTTAACATCCCTAAAATTTTCCTTACATGTTTTACTAGCCAGATTTTTCCTCCTCTCCTGACTACTCCCAGTCATAGCTGTCCCTCTTCTCTTATGGAGATCCCTCGACCTGCAGCCCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCGGATCGATCCGCTGCATTAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTG

# **Figure 2: Plasmid Map of NR-54978**

