*ctcgag*ggggggccc*ggtacc*caattcgccctatagtgagtcgtattacgcgcgctcactggccgtcgttttacaacgtcgtgactgggaaaaccctggcgttacccaacttaatcgccttgcagcacatccccctttcgccagctggcgtaatagcgaagaggcccgcaccgatcgcccttcccaacagttgcgcagcctgaatggcgaatgggacgcgccctgtagcggcgcattaagcgcggcgggtgtggtggttacgcgcagcgtgaccgctacacttgccagcgccctagcgcccgctcctttcgctttcttcccttcctttctcgccacgttcgccggctttccccgtcaagctctaaatcgggggctccctttagggttccgatttagtgctttacggcacctcgaccccaaaaaacttgattagggtgatggttcacgtagtgggccatcgccctgatagacggtttttcgccctttgacgttggagtccacgttctttaatagtggactcttgttccaaactggaacaacactcaaccctatctcggtctattcttttgatttataagggattttgccgatttcggcctattggttaaaaaatgagctgatttaacaaaaatttaacgcgaattttaacaaaatattaacgcttacaatttaggtggcacttttcggggaaatgtgcgcggaacccctatttgtttatttttctaaatacattcaaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgaaaaaggaagagtatgagtattcaacatttccgtgtcgcccttattcccttttttgcggcattttgccttcctgtttttgctcacccagaaacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtgggttacatcgaactggatctcaacagcggtaagatccttgagagttttcgccccgaagaacgttttccaatgatgagcacttttaaagttctgctatgtggcgcggtattatcccgtattgacgccgggcaagagcaactcggtcgccgcatacactattctcagaatgacttggttgagtactcaccagtcacagaaaagcatcttacggatggcatgacagtaagagaattatgcagtgctgccataaccatgagtgataacactgcggccaacttacttctgacaacgatcggaggaccgaaggagctaaccgcttttttgcacaacatgggggatcatgtaactcgccttgatcgttgggaaccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgtagcaatggcaacaacgttgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatagactggatggaggcggataaagttgcaggaccacttctgcgctcggcccttccggctggctggtttattgctgataaatctggagccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtagttatctacacgacggggagtcaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctcactgattaagcattggtaactgtcagaccaagtttactcatatatactttagattgatttaaaacttcatttttaatttaaaaggatctaggtgaagatcctttttgataatctcatgaccaaaatcccttaacgtgagttttcgttccactgagcgtcagaccccgtagaaaagatcaaaggatcttcttgagatcctttttttctgcgcgtaatctgctgcttgcaaacaaaaaaaccaccgctaccagcggtggtttgtttgccggatcaagagctaccaactctttttccgaaggtaactggcttcagcagagcgcagataccaaatactgtccttctagtgtagccgtagttaggccaccacttcaagaactctgtagcaccgcctacatacctcgctctgctaatcctgttaccagtggctgctgccagtggcgataagtcgtgtcttaccgggttggactcaagacgatagttaccggataaggcgcagcggtcgggctgaacggggggttcgtgcacacagcccagcttggagcgaacgacctacaccgaactgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaagggagaaaggcggacaggtatccggtaagcggcagggtcggaacaggagagcgcacgagggagcttccagggggaaacgcctggtatctttatagtcctgtcgggtttcgccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggcggagcctatggaaaaacgccagcaacgcggcctttttacggttcctggccttttgctggccttttgctcacatgttctttcctgcgttatcccctgattcTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGACCATGATTACGCCAAGCTCGAAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCTCCACAATTCGGCAGAGTTAAGACCAGATTCTTAGTTTTAGTTGAAGTGACTGGACGCGTACTGTCTGTGTCCGGCTTTTTTCTTTATCTCACAGCCAAATCACTAAATATCACC**GGATC**t**ATGGACTATAAGGACCACGACGGAGACTACAAGGATCATGATATTGATTACAAAGACGATGACGATAAGATGGCCCCAAAGAAGAAGCGGAAGGTCGGTATCCACGGAGTCCCAGCAGCCGTAGATTTGAGAACTTTGGGATATTCACAGCAGCAGCAGGAAAAGATCAAGCCCAAAGTGAGGTCGACAGTCGCGCAGCATCACGAAGCGCTGGTGGGTCATGGGTTTACACATGCCCACATCGTAGCCTTGTCGCAGCACCCTGCAGCCCTTGGCACGGTCGCCGTCAAGTACCAGGACATGATTGCGGCGTTGCCGGAAGCCACACATGAGGCGATCGTCGGTGTGGGGAAACAGTGGAGCGGAGCCCGAGCGCTTGAGGCCCTGTTGACGG**TCGCGGGAGAGCTGAGAGGGCCTCCCCTTCAGCTGGACACGGGCCAGTTGCTGAAGATCGCGAAGCGGGGAGGAGTCACGGCGGTCGAGGCGGTGCACGCGTGGCGCAATGCGCTCACGGGAGCACCCCTCAACCTGACCCCAGACCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCGGAACAGGTGGTTGCAATCGCGTCACACGATGGGGGAAAGCAGGCCCTAGAAACCGTTCAGCGACTCCTGCCCGTCCTGTGCCAGGCCCACGGCCTGACCCCAGACCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGCCCACGGCCTGACCCCAGCCCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCAGACCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCAGAACAAGTTGTCGCGATTGCAAGCAACAACGGAGGCAAACAAGCCTTAGAAACAGTCCAGAGATTGTTGCCGGTGCTGTGCCAAGCCCACGGCCTGACCCCGGACCAGGTGGTTGCAATCGCGTCACACGATGGGGGAAAGCAGGCCCTAGAAACCGTTCAGCGACTCCTGCCCGTCCTGTGCCAGGCCCACGGCCTGACCCCAGCCCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCAGACCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCAGAACAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGCCCACGGCCTGACCCCGGACCAGGTGGTTGCAATCGCGTCACACGATGGGGGAAAGCAGGCCCTAGAAACCGTTCAGCGACTCCTGCCCGTCCTGTGCCAGGCCCACGGCCTGACCCCAGCCCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCAGACCAGGTTGTGGCCATCGCCAGCAACATAGGTGGCAAGCAGGCCCTCGAAACCGTCCAGAGACTGTTACCGGTTCTCTGCCAGGACCACGGCCTGACCCCGGAACAGGTGGTTGCAATCGCGTCACACGATGGGGGAAAGCAGGCCCTAGAAACCGTTCAGCGACTCCTGCCCGTCCTGTGCCAGGCCCACGGCCTGACCCCCGACCAGGTTGTCGCTATTGCTAGTAACGGCGGAGGCAAACAGGCGCTGGAAACAGTTCAGCGCCTCTTGCCGGTCTTGTGTCAGGCCCACGGCCTGACGCCTGAGCAGGTAGTGGCTATTGCATCCAAC

GGAGGGGGCAGACCCGCACTGGAGTCAATCGTGGCCCAGCTTTCGAGGCCGGACCCCGCGCTGGCCGCACTCACTAATGATCATCTTGTAGCGCTGGCCTGCCTCGGCGGACGACCCGCCTTGGATGCGGTGAAGAAGGGGCTCCCGCACGCGCCTGCATTGATTAAGCGGACCAACAGAAGGATCCCCGAGAGGACATCACATCGAGTGGCAGGTTCCCAACTCGTGAAGAGTGAACTTGAGGAGAAAAAGTCGGAGCTGCGGCACAAATTGAAATACGTACCGCATGAATACATCGAACTTATCGAAATTGCTAGGAACTCGACTCAAGACAGAATCCTTGAGATGAAGGTAATGGAGTTCTTTATGAAGGTTTATGGATACCGAGGGAAGCATCTCGGTGGATCACGAAAACCCGACGGAGCAATCTATACGGTGGGGAGCCCGATTGATTACGGAGTGATCGTCGACACGAAAGCCTACAGCGGTGGGTACAATCTTCCCATCGGGCAGGCAGATGAGATGCAACGTTATGTCGAAGAAAATCAGACCAGGAACAAACACATCAATCCAAATGAGTGGTGGAAAGTGTATCCTTCATCAGTGACCGAGTTTAAGTTTTTGTTTGTCTCTGGGCATTTCAAAGGCAACTATAAGGCCCAGCTCACACGGTTGAATCACATTACGAACTGCAATGGTGCGGTTTTGTCCGTAGAGGAACTGCTCATTGGTGGAGAAATGATCAAAGCGGGAACTCTGACACTGGAAGAAGTCAGACGCAAGTTTAACAATGGCGAGATCAATTTCCGCTCAGGATCAGGAGAAGGAAGAGGATCACTTCTTACATGTGGAGATGTTGAAGAAAACCCAGGACCAgtgagcaagggcgaggaggataacatggccatcatcaaggagttcatgcgcttcaaggtgcacatggagggctccgtgaacggccacgagttcgagatcgagggcgagggcgagggccgcccctacgagggcacccagaccgccaagctgaaggtgaccaagggtggccccctgcccttcgcctgggacatcctgtcccctcagttcatgtacggctccaaggcctacgtgaagcaccccgccgacatccccgactacttgaagctgtccttccccgagggcttcaagtgggagcgcgtgatgaacttcgaggacggcggcgtggtgaccgtgacccaggactcctccctgcaggacggcgagttcatctacaaggtgaagctgcgcggcaccaacttcccctccgacggccccgtaatgcagaagaagaccatgggctgggaggcctcctccgagcggatgtaccccgaggacggcgccctgaagggcgagatcaagcagaggctgaagctgaaggacggcggccactacgacgctgaggtcaagaccacctacaaggccaagaagcccgtgcagctgcccggcgcctacaacgtcaacatcaagttggacatcacctcccacaacgaggactacaccatcgtggaacagtacgaacgcgccgagggccgccactccaccggcggcatggacgagctgtacaagtaaaattc**GATATC**TAACCGACTCCACTCCCACACAATTAAGACAATGCTTGGTGATTTGGACTTTTGGCTAAATTATATAATAAAAATTTGAAAAGGTTGATATAATAAACTAATTTGAAAAGCTAAAAAAAAAAAAAAAAAA

Bold: multi cloning site for ORF insertion

Red: restriction sites for linearizing the vector.

RNA synthesis should be done with T3 RNA polymerase.