**1. The EGFP sequence:**

ATGGTGAGCAAGGGCGAGGAGCTGTTCACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGCGAACTTCAAGATCCGCCACAACATCGAGGACGGCGGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAG (717bp)  
**2. Primers for EGFP PCR:**

Forward: 5’-ATGGTGAGCAAGGGCGAGGAGC-3’

Reverse: 5’ -CTTGTACAGCTCGTCCATGCCG-3’

**3. Primers for pET-SUMO-EGFP vector DNA sequencing:**

Forward: 5'-AGATTCTTGTACGACGGTATTAG-3'

Reverse: 5'-TAGTTATTGCTCAGCGGTGG-3'

**4. The EGFP gene fragment PCR Conditions:**

Set Lid temperature: 104 °C

Set volume: 25 μL

(1) 94 °C 5 min

(2) Repeat these three steps below 30 cycles:

94 °C 30 Sec

55 °C 30 Sec

72 °C 1 min

(3) 72 °C 30 min

(4) Hold at 4 °C