

Fragment 1 (2055 bp)

P1 Forward Primer 5'- ACTATAGGGAGACCCAAGCTGGCTAGACGCGT ATGACGTATAGGTGTTGGCTC -3'

P2 Reverse Primer 5'- GTGGATCCGAGCTCGGTACCAAGCTT GCTAGC GCAGCAGCAATCCTCAATAAC -3'

Append with Restriction Enzyme site (NheI)

Fragment 2 (1689 bp)

P3 Forward Primer 5'-GTTATTGAGGATTGCTGCTGC -3'

P4 Reverse Primer 5'- GTGGATCCGAGCTCGGTACCAAGCTT GCTAGC ACATCCACCATCTGAAGA -3'

Append with Restriction Enzyme site (NheI)

Fragment 3 (2932 bp)

P5 Forward Primer 5'-TCTTCAGATGGTGTGGATGTG -3'

P6 Reverse Primer 5'- TCCGAGCTCGGTACCAAGCTT GCTAGC AAGAAGAAAGCCGAAGAGAAC -3'

Append with Restriction Enzyme site (NheI)

Fragment 4 (3771 bp)

P7 Forward Primer 5'-GTTCTCTTCGGCTTCTTCTTG -3'

P8 Reverse Primer 5'- TCCGAGCTCGGTACCAAGCTTGCTAG GATATC ACAGATATTCTGCCCGAAC -3'

Append with Restriction Enzyme site (EcoRV)

Fragment 5 (2571 bp)

P9 Forward Primer 5'-GTTCTGGGCGAATATCTGTGAT -3'

P10 Reverse Primer 5'- TAAACGGGCCCTCTAGACTCGA GCGGCCGC GTAAACACTGGTCAAGTGG -3'

Append with Restriction Enzyme site (NotI)

Fragment 6 (2450 bp)

P11 Forward Primer 5'-GCCACTTGACCAAGTGTACGC -3'

P12 Reverse Primer 5'- TAAACGGGCCCTCTAGACTCGA GCGGCCGC TTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTACGGCCGCATGGTCTCGCCAATC -3'

Append with Restriction Enzyme site (NotI)

Fig. S2