**Supplementary Table S2.** Primers sequences used in this study.

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| --- | --- | --- | --- |
| **Primer name** | **Sequence (5́-3́)** | **Purpose** | **Restriction site** |
| **GFP recombinant** | **GAATTC**ATGGTGAGCAAGGGCGAGG | To amplify GFP | EcoRI |
| **GCGGCCGC**TTACTTGTACAGCTCGTCCA | NotI |
| **GFP-**  **internal C** | CCTCCTCTTTTGTTTTGCTTTCTGCCCCGCTTGTTCACGGCCTCGATGTTGTG | To generate internal C substrate |  |
| AGCAAAACAAAAGAGGAGGAAATGAAGGCTCAATCATGTGGCTCGACGGCGGCGTGCA |  |
| **GFP-**  **C/prM** | TTCATTGCTCCTGCGTAAGCTATGACAACTGCCAACTCGATGTTGTGGC | To generate C/prM substrate |  |
| CAGGAGCAATGAAGTTGTCGAATTTCCAGGGGAAGCTTGACGGCGGCGTGCAGC |  |
| **GFP-**  **prM/E** | CAATTAAAACTGTAAGCCGGAGCGACCAGCAGCAGGAGGATCTCGATGTTGTGGCG | To generate prM/E  substrate |  |
| GGCTTACAGTTTTAATTGTCTGGGAATGGGCAATCGTGACTTCGACGGCGGCGTGCAGC |  |
| **GFP-**  **E/NS1** | CAGTGTCAGCATGCACATTGGTCGCTAAGAACACGAGCACCTCGATGTTGTGGCG | To generate  E/NS1 substrate |  |
| GTGCATGCTGACACTGGATGTGCCATTGACATCACAAGAAAAGAGGACGGCGGCGTGCAGC |  |
| **GFP-**  **NS1/NS2A** | CCATTGAAAGCATCAACCTGCGATCTGACGAGTGTTGTCTCGATGTTGTGGCG | To generate  NS1/NS2A substrate |  |
| GTTGATGCTTTCAATGGTGAAATGGTTGACCCTTTTCAGCTGGACGGCGGCGTGCAGC |  |
| **GFP-**  **NS2A/NS2B** | CACCCCCTCTTCTTGTTTGGGTTGCAGACCATTAGTCCGGCCTCGATGTTGTGGCG | To generate  NS2A/NS2B substrate |  |
| CAAGAAGAGGGGGTGGCCAGCCACCGAGTTCCTTTCAGCGGACGGCGGCGTGCAGC |  |
| **GFP-**  **NS2B/NS3** | AACACGCCCCCTCTTTTTGTTGTTTTTAAAGTGAGCCAATAACCCTCGATGTTGTGGCG | To generate  NS2B/NS3 substrate |  |
| CAAAAAGAGGGGGCGTGTTTTGGGACACGCCATCCCCAAAACCTGACGGCGGCGTGCAG |  |
| **GFP-**  **internal NS3** | ACTCTACCTCTCCGTTGGGCTGCACTTGCACTGGTTATGGGGGACTCGATGTTGTGGCG | To generate  internal NS3 substrate |  |
| CGGAGAGGTAGAGTGGGCAGGAATCCTAACCAAGTTGACGGCGGCGTGCAGC |  |
| **GFP-**  **NS3/NS4A** | GGCTGATCTCTTGCCCGCTGCAAAATCCTTAAACCACTTGAGCTCGATGTTGTGGCG | To generate  NS3/NS4A substrate |  |
| CGGGCAAGAGATCAGCCGTCAGTTTCATAGAGGTGCTCGGTGACGGCGGCGTGCAGC |  |
| **GFP-**  **internal NS4A** | GTCTGTGACCTCTGTTTTTCTGGTTCCGGGATGAGGACCACCATCTCGATGTTGTGGCG | To generate  Internal NS4A substrate |  |
| AACAGAGGTCACAGACAGACAACCAGTTGGCAGTGTTTGACGGCGGCGTGCAGC |  |
| **GFP-**  **NS4A/NS4B** | CTCGTTTGCTGCCACCACTCCAACCACGGTCAAGACGCACTCGATGTTGTGGCG | To generate  NS4A/NS4B substrate |  |
| TGGCAGCAAACGAGTACGGGATGCTAGAAAAAACCAAAGACGGCGGCGTGCAGC |  |
| **GFP-**  **NS4B/NS5** | CCTTCCTTTCAAGGAGGGCTTGTCAGCGTTCTTGATGAGCTCGATGTTGTGGCG | To generate  NS4B/NS5 substrate |  |
| CTTGAAAGGAAGGCCCGGGGGCAGGACGCTAGGGGAGGACGGCGGCGTGCAGC |  |
| **NS2B-NS3-**  **pETDuet-1** | **GAATTC**GATGGTGTCAGGAAAAGCAACA | To amplify  NS2B-NS3 protease for MCS1 | EcoRI |
| **GCGGCCGC**TTATCTCTTTCTCAACATGTT | NotI |
| **NS2B-NS3pro mutagenesis** | TTGATGATCCCGGTGTTCCAGGTTATTGGCTCACTTTAAA | To delete a part of NS2B residues |  |
| TTTAAAGTGAGCCAATAACCTGGAACACCGGGATCATCAA |
| **NS2B-NS3pro inactive-mutagenesis** | ATTACCCGCGAGGAACAGCAGGCTCACCCATTCTGGATTC | To inactivate NS2B-NS3 protease |  |
| GAATCCAGAATGGGTGAGCCTGCTGTTCCTCGCGGGTAAT |  |
| **GFP-**  **pETDuet-1** | **CATATG**ATGGTGAGCAAGGGCGAGGAGCTG | To amplify GFP for pETDuet-1  MCS2 | NdeI |
| **GATATC**CACTTGTACAGCTCGTCCAT | EcoRV |

Bold and underlined sequences are inserted restriction sites.