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**Supplementary Data**

**Construction and characterization of a full-length infectious clone of Getah virus *in vivo***

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**Table S1.** Primers used for the construction of a full-length infectious cDNA clone of GETV.

|  |  |  |
| --- | --- | --- |
| Primer name | Primer sequence (5’-3’) | Purpose |
| PBR322PacI-381-F | ACGGGATCCTTAATTAATCTACGCCGGACGCATCG | Insertion of restriction sites Pac I and Mlu I into the pBR322vector |
| PBR322MluI-978-R | AGATCGCGAACGCGTACGCCAGCAAGACGTAGC |
| CMV-F | CGGTTAATTAAGGACATTGATTATTGACATG | Amplification of CMV sequences  |
| CMV-X-N-R | CGTTCGCGAATCACCTCTAGATTATATAACGAGCTCTGCTTATATAG |
| XbaI -1F | ACGTCTAGAATGGCGGACGTGTGAC | Amplification of S1 fragment |
| NruI -1R | ACCAGATCGCGAGTCGTCACCATGT |
| NruI -2F | ACATGGTGACGACTCGCGATCTGGT | Amplification of S2 fragment |
| BglII-MluI-NruⅠ-2R | CGTTCGCGACGTACGCGTCGTAGATCTGCTCGTTAGCATCTTGGAGTC |
| BglⅡ-3F | ACGAGATCTGCCTGTACGCCCTAGG | Amplification of S3 fragment |
| SrfI-MluI -3R | CGTACGCGTACCGCCCGGGCGGTCCACGTTGTCCTCC |
| SrfI-4F | ACGGCCCGGGCTACTACGATCTGCTCGAG | Amplification of S4 fragment |
| MluI -4R | CGTACGCGTTTTTTTTTTTTTTTTGTAAAATATTAAAAAAACAAATTAGACGCC |
| BGH-MluI -F | ACGACGCGTGGGTCGGCATGGCATCTCCACCT | Amplification of BGH sequences |
| BGH-NruI-R | CATTCGCGACATAGAGCCCACCGCAT |
| TY-BstbI-TB-F | TGCTGTCCATTCTCATTgGAATGTAGCCACCATACAGGAGGC | Production of restriction site BstbI as a marker for the rescued virus |
| TY-MluI-R | ATGCCATGCCGACCCACGCGTTTTTTTTTTTTTTTTGT |
| RFP BamHI-F | CGCGGATCCATGGTGAGCAAGGGC | Amplification of RFP gene |
| RFP EcoRI-R | CCGGAATTCCTAGTTTCCGGACTTGA |
| GFP BamHI-F | TATGGATCCATGCCCGCCATGAAGAT | Amplification of GFP gene |
| GFP EcoRI-R | ATAGAATTCTTAGGCGAATGCGATC |
| iLOV BamHI-F | CGCGGATCCATGATAGAGAAGAATTTC | Amplification of iLOV gene |
| iLOV EcoRI-R | CCGGAATTCTTATACATGATCACTTCC |
| 44 sgp 3’UTR-F | CATCTAAAGACCACGTATTACAGACATCGGATCCTTAGAATTCCCGGGAGGCTTGACAT | Primers for the construction of the recombinant viruses expressing reporter genes |
| 44 sgp 3’UTR-R | GTCTGTAATACGTGGTCTTTAGATGTAGTGTAATCCTGCATTTAGCGGCGCATAGTCA |
| TY-BstbI-F | TGCTGTCCATTCTCATTCGAATGTAGCCACCATACAGGAGGC |
| TY-MIuI-R | ATGCCATGCCGACCCACGCGTTTTTTTTTTTTTTTTGT |

The restriction enzyme sites within the primer sequences are underlined.

**Table S2.** Summary of the nucleotide and amino acid differences between the recombinant virus rGETV-GX (P1) and the passage five of the infectious cDNA clone pGETV-GX (P5).

|  |  |  |  |
| --- | --- | --- | --- |
| rGETV-GX | pGETV-GX | Amino acid change | Gene position |
| G3469 | A | E→K | *NSP2* |
| G10637  | A | S→S | *E1* |
| C11039  | T | F→F | *E1* |