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Development and application of a colloidal-gold immunochromatographic strip for detecting Getah virus antibodies

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The sequence of mammalian cell codon-optimized GETV full-length E gene plasmid：

TCCGCCGCCCTGATGATGTGCGTGCTGGCCAATGTGACCTTCCCCTGTAGCGAGCCCGCCTGCGCCCCCTGCTGCTATGAAAAGCAGCCTGAGC
AGACCCTGAGGATGCTGGAGGACAATGTGGATAGACCCGGCTACTACGACCTGCTGGAGGCCACCATGACTTGTAATAACTCTGCCAGGCACC
GCCGGAGCGTGACCGAGCACTTTAATGTGTACAAGGCCACAAAGCCCTATCTGGCCTACTGTGCCGATTGCGGCGACGGCCAGTTCTGTTACTC
CCCCGTGGCTATTGAGAAGATCCGCGATGAGGCCTCCGACGGCATGATCAAGATCCAGGTGGCCGCCCAGATCGGAATTAACAAAGGCGGCAC
CCACGAGCACAATAAGATCAGGTACATCGCCGGGCATGACATGAAAGAGGCCAACCGGGATAGCCTGCAGGTGCACACCAGCGGGGTCTGCG
CTATCCGGGGAACCATGGGCCATTTCATCGTGGCCTATTGCCCTCCAGGCGACGAGCTGAAAGTGCAGTTCCAGGACGCCGAAAGTCACACCC
AGGCTTGTAAGGTGCAGTACAAGCACGCCCCTGCCCCCGTGGGGAGGGAGAAGTTCACTGTGAGGCCCCATTTTGGCATCGAAGTGCCCTGTA
CCACATACCAGCTGACCACAGCCCCCACCGAGGAAGAGATCGATATGCACACACCTCCCGACATCCCAGACATCACCCTGCTGAGCCAGCAGT
CAGGCAACGTGAAGATCACAGCCGGCGGAAAGACAATTAGATATAACTGCACCTGCGGCAGCGGGAACGTGGGCACCACCTCCTCCGATAAA
ACAATCAACTCCTGTAAGATTGCCCAGTGCCACGCCGCCGTGACCAACCATGACAAGTGGCAGTATACCTCTTCTTTCGTGCCACGGGCTGATC
AGCTGAGCAGAAAGGGCAAGGTGCACGTGCCATTTCCCCTGACCAATTCCACCTGCCGCGTCCCTGTGGCTAGAGCCCCTGGCGTGACCTACG
GCAAACGCGAACTGACCGTGAAGCTGCACCCAGATCACCCAACCCTGCTGACCTATCGGTCTCTGGGCGCCGACCCCCGGCCTTATGAGGAGT
GGATCGACCGGTACGTGGAGCGAACTATTCCCGTGACAGAGGATGGGATTGAATACCGCTGGGGCAACAACCCACCTGTGAGACTGTGGGCAC
AGCTGACCACAGAGGGAAAGCCTCACGGGTGGCCCCACGAGATCATCCTGTATTACTACGGGCTGTATCCTGCCGCCACCATCGCCGCCGTGA
GCGCCGCCGGCCTGGCCGTGGTGCTGAGCCTGCTGGCCAGCTGCTATATGTTCGCCACCGCCAGACGGAAATGTCTGACACCCTACGCACTGA
CCCCCGGAGCCGTGGTCCCCGTGACACTGGGCGTGCTGTGTTGCGCCCCCAGGGCCCACGCCGCTAGCTTTGCAGAGTCTATGGCATACCTGTG
GGATGAGAACCAGACCCTGTTCTGGCTGGAGCTGGCCACCCCCCTGGCCGCTATCATTATCCTGGTGTGCTGCCTGAAAAACCTGCTGTGCTGC
TGTAAGCCCCTGAGCTTTCTTGTGCTGGTGAGCCTGGGAACCCCAGTGGTGAAGTCCTATGAGCACACCGCTACAATCCCCAACGTGGTGGGC
TTCCCCTATAAGGCTCATATCGAGCGGAATGGGTTCAGCCCCATGACCCTGCAGCTGGAAGTGCTGGGCACTAGCCTGGAGCCCACTCTGAACC
TGGAGTACATTACATGCGAGTATAAGACCGTGGTGCCCTCCCCATACATCAAGTGTTGTGGCACATCCGAGTGCAGGAGCATGGAGCGCCCCGA
CTATCAGTGCCAGGTGTACACAGGCGTGTATCCTTTCATGTGGGGCGGGGCCTATTGTTTTTGTGACACCGAGAATACCCAGCTCTCCGAGGCCT
ACGTGGATCGGTCTGACGTGTGCAAGCACGACCACGCTGCCGCCTACAAGGCCCACACCGCCGCCATGAAGGCCACCATTCGCATTTCCTACG
GCAACCTGAATCAGACCACCACAGCCTTCGTGAACGGCGAGCATACCGTGACCGTGGGCGGATCCCGGTTCACCTTCGGCCCAATTTCTACCG
CCTGGACCCCATTTGACAACAAGATTGTGGTGTATAAGAACGACGTGTACAATCAGGACTTCCCTCCCTACGGCAGCGGGCAGCCCGGCAGGT

TCGGGGACATCCAGTCCCGGACCGTGGAGTCCAAGGACCTGTACGCCAACACCGCCCTGAAGCTGAGCCGGCCATCTTCAGGAACAGTGCAC
GTGCCCTATACCCAGACCCCTAGCGGCTTCAAGTACTGGATCAAGGAGCGGGGCACAAGCCTGAATGATAAGGCCCCATTCGGGTGCGTGATCA
AGACCAACCCCGTGCGCGCCGAGAATTGCGCCGTGGGCAATATCCCCGTGAGCATGGACATTCCCGATACCGCCTTCACCAGAGTGATCGATGC
CCCCGCCGTGACAAACCTGGAGTGCCAGGTGGCCGTGTGCACTCACTCCAGCGACTTTGGAGGAATTGCCACCCTGACTTTCAAGACCGATAA
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CATCGTGCCCTACGGCGCCTCTCACAATAATCAGGTGTTTCCTGACATGAGCGGCACCGCCATGACCTGGGTGCAGAGAGTGGCCGGCGGCCT
GGGCGGCCTGACCCTGGCCGCCGTGGCCGTGCTGATCCTGGTGACCTGCGTGACCATGAGGAGA

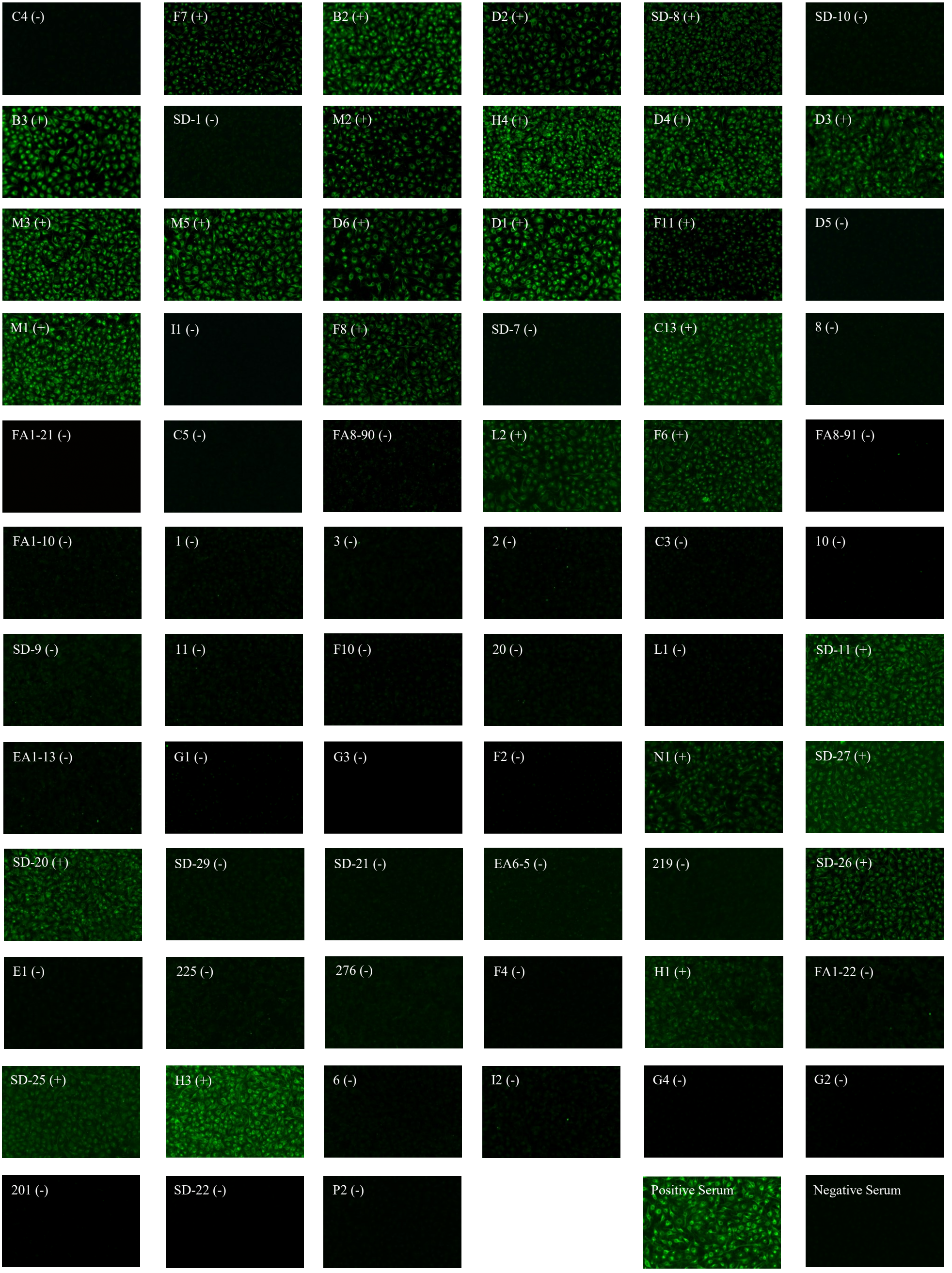
C4 (-)
F7 (+)
B2 (+)
D2 (+)
SD-8 (+)
SD-10 (-)
B3 (+)
SD-1 (-)
M2 (+)
H4 (+)
D4 (+)
D3 (+)
M3 (+)
M5 (+)
D6 (+)
D1 (+)
F11 (+)
D5 (-)
M1 (+)
I1 (-)
F8 (+)
SD-7 (-)
C13 (+)
8 (-)
FA1-21 (-)
C5 (-)
FA8-90 (-)
L2 (+)
F6 (+)
FA8-91 (-)
FA1-10 (-)
1 (-)
3 (-)
2 (-)
C3 (-)
10 (-)
SD-9 (-)
11 (-)
F10 (-)
20 (-)
L1 (-)
SD-11 (+)
EA1-13 (-)
G1 (-)
G3 (-)
F2 (-)
N1 (+)
SD-27 (+)
SD-20 (+)
SD-29 (-)
SD-21 (-)
EA6-5 (-)
219 (-)
SD-26 (+)
E1 (-)
225 (-)
276 (-)
F4 (-)
H1 (+)
FA1-22 (-)
SD-25 (+)
H3 (+)
6 (-)
I2 (-)
G4 (-)
G2 (-)
201 (-)
SD-22 (-)
P2 (-)
Positive Serum
Negative Serum

Fig. S1 Clinical serum samples were analyzed by IFA tests. The pig serum samples were diluted 1:500 in PBS, and incubated with GETV infected cells. The GETV positive or negative pig serum were used as control.