**Supplementary data**

* + - 1. **Monoclonal antibody MM1:**

Nucleotide sequence of the heavy chain variable region

1 AAGCCTGGGG CCTCAGTGAA GATATCCTGC AAGTCTACTG GCTACACATT CAGTAGGTAC

61 TGGATAGAGT GGGTAAAGCA GAGGCCTGGA CATGGCCTTG AGTGGATTGG AGAGATTTTA

121 CCTGGAAGTG GAAGTACTAA CTACAATGAG AAGTTCAAGG GAAAGGCCAC ATTCACTGCA

181 GTTACATCCT CCAACACAGC CTACATGCAA CTCAGCAGTC TGACATCTGA GGACTCTGCC

241 GTCTATTACT GTGCAAGTAT TACGACGAAG GCCTGGTTTG CTTACTGGGG CCAAGGGACT

301 CTGGTCACTG TCTCTGCAGC CAAAACAACA GCCCCATCGG TCTATCCACT GGCCCCTGTG

361 TGTGGAGATA CAACTGGCTC CTCGGTGACT CTAGGATGCC TGGTCAAGGG TTATTTCCCT

421 GAGCCAGTGA CC

Amino acid sequence of the heavy chain variable region

1 KPGASVKISC KSTGYTFSRY

21 WIEWVKQRPG HGLEWIGEIL

41 PGSGSTNYNE KFKGKATFTA

61 VTSSNTAYMQ LSSLTSEDSA

81 VYYCASITTK AWFAYWGQGT

101 LVTVSAAKTT APSVYPLAPV

121 CGDTTGSSVT LGCLVKGYFP

141 EPVT

Nucleotide sequence of the light chain variable region

1 ACACAGTCTC CTGCTTCCTT AGCTGTATCT CTGGGGCAGA GGGCCACCAT CTCATACAGG

61 GCCAGCAAAA GTGTCAGTAC ATCTGGCTAT AGTTATATGC ACTGGAACCA ACAGAAACCA

121 GGACAGCCAC CCAGACTCCT CATCTATCTT GTATCCAACC TAGAATCTGG GGTCCCTGCC

181 AGGTTCAGTG GCAGTGGGTC TGGGACAGAC TTCACCCTCA ACATCCATCC TGTGGAGGAG

241 GAGGATGCTG CAACCTATTA CTGTCAGCAC ATTAGGGAGC TTACACGTTC GGAGGGGGGA

301 CCAAGCTGGA AA

Amino acid sequence of the light chain variable region

1 TQSPASLAVS LGQRATISYR

21 ASKSVSTSGY SYMHWNQQKP

41 GQPPRLLIYL VSNLESGVPA

61 RFSGSGSGTD FTLNIHPVEE

81 EDAATYYCQH IRELTRSEGG

1. PSWK

* + - 1. **Monoclonal antibody MM5：**

Nucleotide sequence of the heavy chain variable region

1 AAGCCTGGGG CTTCAGTGAA GATGTCCTGC AAGGCTTCTG GCTACACCTT CACCAGCTAC

61 TGGATTCACT GGGTGAAGCA GAGGCCTGGA CAAGGCCTTG AGTGGATCGG AGTGATTGAT

121 CCTTCAGATA GTTATACTAG GTACAATCAA AAGTTCAAGG GCAAGGCCAC ATTGACTGTA

181 GACACATCGT CCAGCACAGC CTACATGCAG CTCAGCAGCC TGACATCTGA GGACTCTGCG

241 GTCTATTACT GTACAAGAGA GGTAGTCACT CCCTTTGACT ACTGGGGCCA AGGCACCACT

301 CTCACAGTCT CCTCAGCCAA AACAACAGCC CCATCGGTCT ATCCACTGGC CCCTGTGTGT

361 GGAGATACAA CTGGCTCCTC GGTGACTCTA GGATGCCTGG TCAAGGGTTA TTTCCCTGAG

421 CCAGTGACC

Amino acid sequence of the heavy chain variable region

1 KPGASVKMSC KASGYTFTSY

21 WIHWVKQRPG QGLEWIGVID

41 PSDSYTRYNQ KFKGKATLTV

61 DTSSSTAYMQ LSSLTSEDSA

81 VYYCTREVVT PFDYWGQGTT

101 LTVSSAKTTA PSVYPLAPVC

121 GDTTGSSVTL GCLVKGYFPE

141 PVT

Nucleotide sequence of the light chain variable region

1 ACACAGTCTC CTGCTTCCTT AGCTGTATCT CTGGGGCAGA GGGCCACCAT CTCATACAGG

61 GCCAGCAAAA GTGTCAGTAC ATCTGGCTAT AGTTATATGC ACTGGAACCA ACAGAAACCA

121 GGACAGCCAC CCAGACTCCT CATCTATCTT GTATCCAACC TAGAATCTGG GGTCCCTGCC

181 AGGTTCAGTG GCAGTGGGTC TGGGACAGAC TTCACCCTCA ACATCCATCC TGTGGAGGAG

241 GAGGATGCTG CAACCTATTA CTGTCAGCAC ATTAGGGAGC TTACACGTTC GGAGGGGGGA

301 CCAAGCTGGA AA

Amino acid sequence of the light chain variable region

1 TQSPASLAVS LGQRATISYR

21 ASKSVSTSGY SYMHWNQQKP

41 GQPPRLLIYL VSNLESGVPA

61 RFSGSGSGTD FTLNIHPVEE

81 EDAATYYCQH IRELTRSEGG

101 PSWK

* + - 1. **E2 sequences downloaded from GeneBank at NCBI.**

Red letter regions indicate the locations of MM1 or MM5 epitopes. Yellow highlighted region is MM5 epitope and green highlighted region is MM1 epitope.

CSFV subgenotype 1.1

KX431227/2008/Brazil/1.1 QLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

MT586071/2016/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

HQ380243/2010/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

HQ380242/2010/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICAA

HQ380233/2010/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380232/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGFTTTWKEYSHDLQLNDGTVKAICVA

HQ380245/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380234/2009/China/1.1 RLACKEDYRYALSSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380244/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380241/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380239/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380238/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380231/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380240/2009/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HM175885/2008/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

HQ380237/2008/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380235/2008/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

HQ380236/2008/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

EU497410/2006/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

AY526732/2005/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYTHDLQLNDGTVKATCVA

DQ127910/2004/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

AF531433/2002/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

AF333000/2001/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

DQ907719/1995/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

AY663656/2003/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

AY805221/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

AY775178/1945/China/1.1 RLACKEDYRYALSSTNEIGLLGAGGLTTTWEEYSHDLQLNDGTVKAICVA

AF092448/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLNDGTVKAICVA

AF091507/China/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSQDLQLNDGTVKAICVA

Z46258/China/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

HM237795/Czech Republic/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHDLQLNDGTVKAICVA

KX586773/2000/Ecuador/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLQLNDGTVKATCVA

EU490425/2008/France/1.1 QLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

X87939/1968/France/1.1 LACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

KF977610/2013/Germay/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHDLQLNDGTVKAICVA

U45478/1996/Germany RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYRHDLQLNDGTVKAICAA

U45477/1984/Germany /1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

KC503764/2011/India/1.1 RLACKEDYRYAISSTNEIGPLGARGLTTTWKEYSYDLQLNDGTVKAICVA

KC589736/2012/India/1.1 STTNEIGPLGARGLTTTWKEFSYGLQLNDGTVKAICVA

KC589739/2011/India/1.1 STTNEIGPLGARGLTTTWKEFSYGLQLNDGTVKAICVA

KM262189/2009/India/1.1 RLACKEDYRYAISSTNEIGPLGARGLTTTWKEYSYDLQLNDGTVKAICVA

MH734359/2007/India/1.1 RLACKEDYRYAISSTNEIGPLGARGLTTTWKEFSYGLQLNDGTVKAICVA

EU857642/India/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

JQ411588/1951/Italy/1.1 RLACKENYRYAISSTNEIGLLGAEGLTTTWQEYNQDLQLNDGTVKAICEA

D49533/1999/Japan/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

D49532/1999/Japan/1.1 LACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

MK026452/1972/Japan/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSRDLQLNDGTVKAICVA

MK026451/1969/Japan/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWEEYNHDLQLNDGTVKAICVA

MK026454/1966/Japan/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAVCVA

MZ643988/1997/Mexico/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWEEYRHDLQLNDGTVKAICMA

X96550/1996/Switzerland/1.1 RLACKEDYRYAISSTNEIGLLGAGGLTTIWKEYSHDLQLNDGTVKAICAA

MN558887/2018/SouthKorea/1.1 RLACKEDYRYALSSTNEIGLLGAGGLTTTWEEYNHDLQLNDGTVKAICVA

EU935427/2001/Thailand/1.1 SSTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

EU935426/2001/Thailand/1.1 STTNEIGLLGAGGLTTTWKEYNHDLQLNDGTVKAICVA

KF977609/2013/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHDLQLNDGTVKAICVA

KF977608/2013/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHDLQLNDGTVKAICVA

KF977607/2013/1.1 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHDLQLNDGTVKAICVA

AY259122/1.1 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

CSFV subgenotype 1.2

AF134208/1991/China/1.2 RLACKEDHRYAISSTNKIGPLGAEGLTTTWKEYNHNLQLDDGTVKAICMA

AY578688/2001/Italy/1.2 RLACKEDHRYAISSTNKIGLLGAEGLTTTWKEYNHNLQLDDGTVRAICMA

AY578687/2001/Italy/1.2 RLACKEDHRYAISTTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICMA

AF091661/1998/Italy/1.2 RLACKENYRYAISSTNEIGLLGAEGLTTTWQEYNQDLQLNDGTVKAICEA

M31768/1945/Italy/1.2 RLACKEDHRYAISTTNEIGLHGAEGLTTTWKEYNHNLQLDDGTVKAICMA

KF739397/2011/Russia/1.2 TNEIGLLGAEGLTTTWKEYNHNLQLDDGTVRAICMA

AF099102/1999/Russia/1.2 RLACKEDHRYAISSTNKIGLLGAEGLTTTWKEYNHNLQLDDGTVRAICMA

MZ643986/2021/USA/1.2 RLACKEDFRYAISSTNEIGLLGAEGLTTTWEDYDHNLQLDDGTVKAICTA

KJ873238/1950/USA/1.2 RLACKEDHRYAISSTNKIGPLGAFSLTTTWKEYNHNLQLDDGTVKAICMA

KM522833/1960/LK-VNIVViM/1.2 RLACKEDHRYAISSTNKIGLLGAEGLTTTWKEYNHNLQLDDGTVRAICMA

CSFV subgenotype 1.3

JX028200/2012/Guatemala/1.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLQLDDGTVKATCVA

JQ411570/1986/Malaysia/1.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICVA

AF134209/1998/Thailand/1.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICVA

CSFV subgenotype 1.4

JX028202/2012/Cuba/1.4 RLACKEDFRYAISSTNEIGLLGAEGLTTTWKDYDHNLQLDDGTIKAICTA

JX028203/2011/Cuba/1.4 RLACKEDFRYAISSTNEKGLLGAEGLTTTWKDYDHNLQLDDGTIKAICTA

JX028204/2010/Cuba/1.4 RLACKEDFRYAISSTNEIGLLGAEGLTTTWKDYDHNLQLDDGTIKAICTA

KX576461/2010/Cuba/1.4 RLACKEDFRYAISSTNEIGLLGAEGLTTTWKDYDHNLQLDDGTIKAICTA

JX028201/1958/Cuba/1.4 RLACKEDFRYAISSTNEIGQLGAEGLTTTWKDYDHNLQLDDGTIKAICTA

AFP86049/2009/Cuba/1.4 rlackedfryaisstneigllgaegltttwkdydhnlqlddgtikaicta

CSFV subgenotype 1.5

KX431232/2009/Brazil/1.5 RLACKEDYRYAISSTKEIGLLGAEGLTTTWKEYSHDLQLNDGTVKAICVA

KX431231/2004/Brazil/1.5 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLQLNDGTVKAICVA

KX431230/2003/Brazil/1.5 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLQLNDGTVKAICVA

KX431229/2003/Brazil/1.5 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLQLNDGTVKAICVA

KX431228/2001/Brazil/1.5 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLQLNDGTVKAICMA

CSFV subgenotype 1.6

KX431233/2009/Brazil/1.6 RLACREDYRYALSSTNEIGLLGAEGLTTIWQEYSHDLQLNDGTVKAICAA

KX586764/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586766/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586768/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586769/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586770/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586754/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGVEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586774/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICAA

KX586760/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586761/2015/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICAA

KX586755/2014/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586759/2014/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586757/2014/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586771/2013/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586756/2013/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586772/2012/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586762/2012/Ecuador/1.6 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

CSFV subgenotype 1.7

KX586767/2015/Ecuador/1.7 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

KX586758/2014/Ecuador/1.7 RLACKEDYRYALSSTNEIGLLGAEGLTTTWQEYSHNLQLNDGTVKAICVA

CSFV subgenotype 2.1

MT586073/2018/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MT799517/2016/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

MT799518/2016/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

MT799513/2016/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT586078/2016/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT586070/2016/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYNHGLQLDDGTVRAICTA

MT586069/2015/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWSEYSHGLQLDDGTVRATCTA

MT586067/2015/China/2.1 RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KT953606/2015/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KT953598/2015/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KU375257/2014/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT586066/2013/China/2.1 RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KC502868/2012/China/2.1 LTTNEIGPLGAGGLTTTWREYSHGLQLDDGTVRAICTA

KC867689/2012/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

KC597187/2012/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

AGR67367/2012/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KC809979/2011/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

JN886990/2011/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

KC867687/2011/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYNHGLQLDDGTVRAICIA

KC502863/2011/China/2.1 SSTNEIGPLGAEGLTTIWREYSHSLQLDDGTVRAICTA

JQ268754/2010/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KX759642/2009/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

APU54879/2009/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

FJ582644/2008/China/2.1 RLSCKEDYRYAISSTNKIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

FJ607780/2008/China/2.1 RLSCKEDYRYAISSTNKIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

FJ598610/2008/China/2.1 RLSCKEDYRYAISSTNKIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KX759643/2006/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

DQ907713/2005/China/2.1 RLSCKQDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGSVRAICTA

EF683606/2005/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

AY568569/2001/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYNHGLQLDDGTVRATCTA

KT853127/1999/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAVCIA

KT853128/1999/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

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KT853130/1999/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KT853125/1999/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

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KT853126/1998/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAVCIA

KT853123/1998/China/2.1 PLGAEGLTTTWKEYNHGLRLDDGTVRAICTA

KT853122/1997/China/2.1 PLGAEGLTTTWKEYNHGLRLDDGTVRAICTA

KT853131/1996/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

KT853133/1996/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KT853121/1994/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KT853120/1993/China/2.1 PLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

AF143090/China/2.1 RLSCKEDYRYAISSTDEVGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

AF143087/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF683621/China/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGSVRAICTA

EF683619/China/2.1 RLSCKEDYRYAISSTNEVGPLGAEGLTTTWREYSHGLQLDDGTVRAIRTA

JQ411601/2011/Lithuania/2.1 RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

JQ411597/2011/Lithuania/2.1 RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

AFJ79252/2011/Lithuania/2.1 RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

HQ148063/2009/Lithuania/2.1 RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

KF233958/2009/Israel/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583691/2020/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583718/2019/Japan/2.1 LSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583717/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583716/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583697/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583696/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583690/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTV

LC583689/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583688/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

LC583687/2019/Japan/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KY290453/2016/South Korea/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

KC149990/2011/South Korea/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

QKG32714/2019/Russia/2.1 STNEIGPLGAEGLTTTWREYSRGLQLDDGTVRAICTA

ADI32900/2005/South Africa/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

HM190299/2005/South Africa/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK026465/2012/Thailand/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK026464/2011/Thailand/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

FJ767710/2009/Thailand/2.1 SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

ACS34899/2009/Thailand/2.1 SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

JQ411567/1997/The Netherlands/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EU935431/2008/Thailand/2.1 SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

ACL97653/2008/Thailand/2.1 STTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

EU935428/2003/Thailand/2.1 SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK026461/2010/Viet Nam/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

AY027672/Italy/2.1 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

CSFV subgenotype 2.1a

GQ923951/2009/China/2.1a RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

EF369433/2006/China/2.1a FSSTNEIGPLGAEGLTTTWKEYNYGLQLDDGTVRAICTA

EF369432/2005/China/2.1a FSSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

AY554397/2004/China/2.1a RLSCKEDHRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

EF369431/2004/China/2.1a FSSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

AY526727/2003/China/2.1a KEDHRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

AY526726/2003/China/2.1a RLSCKEDHRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

JQ411566/1997/Germany/2.1a RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

AY072924/Paderborn/2.1a RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

GQ902941/2.1a RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

CSFV subgenotype 2.1b

MW033532/2020/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MW033531/2020/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MW033530/2020/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHCLQLDDGTVRAICTA

MW033533/2019/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777589/2018/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

MT777588/2016/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

MT777574/2018/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

MT777578/2018/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAVCTA

MK691768/2015/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KT953603/2015/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTV

KX844724/2015/China/2.1b RLSCKEDYRYAISSNNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

KX886279/2014/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTGGEYNHGLQLDDGTVRAICTA

KX898432/2014/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTS

KX898428/2014/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

ASZ83565/2014/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTGGEYNHGLQLDDGTVRAICTA

KC502865/2012/China/2.1b SSTKEIGPLGAGGLTTTWREYSHGLQLDDGTVRAICTA

JQ001834/2011/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTAWREYSHGLQLDDGTVRAICTV

KT853107/2011/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYRHGLQLDDGTVRAICTA

AY526728/2001/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYNHGLQLDDGTVRAICTA

KT853111/2011/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYRHGLQLDDGTVRAICTA

GU592790/2009/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

AY367767/China/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KC149991/2011/Korea/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGFQLDDGTVRAICTA

JQ411591/2009/Lithuania/2.1b RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

LC086647/2014/Mongolia/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHSLQLDDGTVRAICTA

KP711403/2013/Russia/2.1b EIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

JQ411582/2012/UK/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MF977825/2015/Viet Nam/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYDHGMQLDDGTVRAICTA

AXO58993/2015/Viet Nam/2.1b RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYDHGMQLDDGTVRAICTA

CSFV subgenotype 2.1c

MW033529/2020/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MT422347/2019/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MW392292/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICIA

MW392291/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MW392290/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

MW392289/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MW392288/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHGLQLDDGTVKAICTA

MK256373/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

AZU96636/2018/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MW392294/2017/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MW392293/2017/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK691765/2017/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KP233070/2013/China/2.1c RLSCREDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRTICTA

JX218094/2012/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

JX262391/2011/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KP343640/2011/China/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF369428/2005/China/2.1c SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MF977828/2016/Viet Nam/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MF977829/2016/Viet Nam/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MF977826/2015/Viet Nam/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MF977827/2015/Viet Nam/2.1c RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

CSFV subgenotype 2.1d

MT422348/2019/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT422346/2019/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

QOY25008/2019/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777590/2018/China/2.1d RLSCKEDHRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAVCTA

MT777573/2018/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777575/2018/China/2.1d RLTCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHSLQLNDGTVRAICTA

MT777576/2018/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777577/2018/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777579/2018/China/2.1d RLFCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777580/2018/China/2.1d RLFCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777581/2018/China/2.1d RLFCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777582/2018/China/2.1d RLFCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MK124638/2017/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MK124646/2017/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHDLQLDDGTVRAICTA

MK124642/2017/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

QCT24309/2017/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777567/2017/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777572/2017/China/2.1d RLSCKEDHRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAVCTA

KX886277/2016/China/2.1d RLLCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGFQLDDGTVRAICTA

MT777587/2016/China/2.1d QLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777586/2016/China/2.1d QLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777585/2016/China/2.1d QLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777584/2016/China/2.1d QLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777583/2016/China/2.1d RLSCKEDYRYAISSTNDIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777568/2016/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777569/2016/China/2.1d RLPCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777571/2016/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT777570/2016/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KX886278/2015/China/2.1d RLSCKEDYRYAISSTNEIGLLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KX880083/2015/China/2.1d RLSCKEDHRYAISSTNEIGPLGAEGLTTTWKGYNHCLQLDDGTVRAICTA

KT953610/2015/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHSLQLDDGTVRAICTA

KU556758/2015/China/2.1d RLSCKEDHRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KT953588/2015/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHSLQLDDGTVRAICTA

KX886276/2015/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAVCTA

KT119352/2014/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KT953604/2014/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHSLQLDDGTVRAICTA

KT953589/2014/China/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

KX880084/2014/China/2.1d RLSCKEDHRYAISSTNEIGPLGAEGLTTTWEGYNHGLQLDDGTVRAICTA

MF679604/2013/China/2.1d RLSCKEDHRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

FJ529205/2008/China/2.1d RLSCKEDYRYAISSTNKIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

QIS94331/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027052/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027053/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027054/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027055/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027051/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWKEYSLGLQLDDGTVRAICTA

MT027050/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027049/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT027048/2019/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTTWREYSHGLQLDDGTVRAICTA

MT027043/2018/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSHGLQLDDGTVRAICTA

MT027042/2017/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWKEYSLGLQLDDGTVRAICTA

MT027041/2017/Korea/2.1d RLSCKEDYRYAISSTNEIGPLGAEGLTTIWREYSLGLQLDDGTVRAICTA

CSFV subgenotype 2.1e

KX687712/1989/Germany/2.1e RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVKAICTA

JQ411561/1989/Germany/2.1e RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVKAICTA

CSFV subgenotype 2.1g

KT853115/2011/China/2.1g RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KT853113/2011/China/2.1g RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KT853114/2011/China/2.1g RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KT853112/2011/China/2.1g RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KU504339/2011/China/2.1g RLTCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

EF369442/2006/China/2.1g SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

EF369434/2006/China/2.1g PSSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

EF369439/2006/China/2.1g SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

EF369441/2006/China/2.1g LSTTIEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

AY450271/2002/China/2.1g RLTCKKDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

AY450272/2002/China/2.1g RLTCKEDHRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

KT853132/1996/China/2.1g PLGAEGLTTTWKEYNHGIQLDDGTVRATCTA

KF233945/1997/Croatia/2.1g RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRATCTA

CSFV subgenotype 2.1h

JQ001833/2011/China/2.1h RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF369440/2006/China/2.1h SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTE

EF369438/2006/China/2.1h SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF369435/2006/China/2.1h SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF369437/2006/China/2.1h SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF369429/2005/China/2.1h SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

AY450280/2002/China/2.1h RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

JQ411592/2011/Lithuania/2.1h RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

CSFV subgenotype 2.1i

KC502864/2012/China/2.1i SSTNEIGPLGAEDLTTTWKEYNHGLQLDDGTVRAICTA

KT853106/2011/China/2.1i RLSCKEDYRYAISSTNEIGPLGAEDLTTTWKEYNHGLQLDDGTVRAICTA

KT853116/2011/China/2.1i RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHGLQLDDGTVRAICTT

KT853105/2011/China/2.1i RLSCKEDYRYAISSTNEIGPLGAEDLTTTWKEYNHGLQLDDGTVRAICTA

JQ713127/2011/China/2.1i SSTNEIGPLGAEDLTTTWKEYNHGLQLDDGTVRAICTA

KT853110/2011/China/2.1i RLSCKEDYRYAISSTNEIGPLGAEDLTTTWKEYNHGLQLDDGTVRAICTA

KT853109/2011/China/2.1i RLSCKEDYRYAISSTNEIGPLGAEDLTTTWKEYNHGLQLDDGTVRAICTA

EF369436/2006/China/2.1i SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

GQ122383/2006/China/2.1i RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

EF369444/2004/China/2.1i SSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

CSFV subgenotype 2.1j

FJ456876/2007/China/2.1j RLSCKEDYRYAISSTNEIGPLGAEGLTTTRKEYNHGLQLDDGTVRAICTA

HQ697224/2009/China/2.1j RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

EF683605/2004/China/2.1j RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MF149061/2014/China/2.1j RLSCKEDYRYAISSTNEIGPLGAEGLTTTWEEYNHGLQLDDGTVRAICTA

CSFV subgenotype 2.2

JQ411562/1990/Austria/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSYGLQLDDGTVKAICIA

KX345847/2015/Bangladesh/2.2 LACKEDYQYAISSTDGIGLLGAEGLTPTWKEYSHGLQLNDGTVKATCIA

AOP17815/2015/Bangladesh/2.2 LACKEDYQYAISSTDGIGLLGAEGLTPTWKEYSHGLQLNDGTVKATCIA

MT586092/2017/China/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICVA

MT586074/2014/China/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

MT586084/2013/China/2.2 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWSEYSHGLQLDDGTVRATCTA

MK691769/1999/China/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

QCI34310/1999/China/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

AY526729/1995/China/2.2 RLACKEDFRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIS

DQ907717/China/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYGHGLQLDDGTVKAICIA

AF407339/China/2.2 RLACKEDYRYAISSTDEIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

FJ598611/2008/China/2.2 RLACKEDYRYAISSTDEIGLLGAGGLTTTWKEYNHDLQLNDGTVKASCVA

JQ411573/1994/Czech Republic/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSYGLQLDDGTVKAICIA

JQ411579/1998/Italy/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA KC533775/2016/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KJ417653/2013/India/2.2 STTNEIGPLGAEGLTTTWKECSHGLQLNDGTVKAICIA

AGJ72759/2012/India/2.2 STTNEIGLQGAEGLTTTWREYSHALQLNDGTVKAICIA

KC481703/2012/India/2.2 STTNEIGLQGAEGLTTTWREYSHALQLNDGTVKAICIA

KC589735/2012/India/2.2 SSTNEIGPLGAEGLTTTWKDYSHGLQLNDGTVKAICIA

KF751894/2012/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KF751892/2012/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KJ417652/2012/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KJ417651/2012/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KC851953/2012/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

JQ861548/2011/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYRHGLQLNDGTVKAVCIA

KF751914/2009/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KF751913/2009/India/2.2 RLACKEDYRYAISSADGIGLLGAEGLTTTWKEYSHGLQLSDGTVKAICIA

KF751909/2009/India/2.2 STNEIGPLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KF751907/2009/India/2.2 STNEIGPLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KF751908/2007/India/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KF751904/2007/India/2.2 RLACKEDYRYAIPSTDGIGLLGAEGLTTTWKEYSHGLQLNDGTVKAICIA

KF751902/2005/India/2.2 RLACKEDYRYAIPSTDGIGLLGAEGLTTTWEEYSHGLQLNDGTVKAICIA

MK026459/1980/Japan/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

JQ411560/1989/Germany/2.2 RLACKEDHRYAISSTSEVGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

JX162241/2011/Nepal/2.2 RLACKEDYRYAISSTDGIGLLGAEGLTTTWKEYSHGLQLDDGTVRAICIA

JQ411587/1977/Netherlands/2.2 RLVCKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

KJ619377/1977/Netherlands/2.2 RLVCKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

EU935421/2008/Thailand/2.2 SSTNEIGLLGAEGLTTIWKEYSHDLQLDDGTVKAICIA

EU935432/2008/Thailand/2.2 STTNEIGLLGAEGLTTIWKEYSHDLQLDDGTVKAICIA

MK026463/2001/Thailand/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

EU935425/2001/Thailand/2.2 SSTNEIGLLGAEGLTATWKEYSHGLQLDDGTVKAICIA

EU935424/2001/Thailand/2.2 STTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

KP702207/2014/Viet Nam/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKATCTA

AKO63333/2014/Viet Nam/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKATCTA

MH979232/2014/Viet Nam/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKATCTA

MZ643989/2010/Viet Nam/2.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAICIA

CSFV subgenotype 2.3

JQ411565/1994/Austria/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KF233959/2009/Bulgaria/2.3 RLACKEDYRYAISSTDEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KF233957/2008/Bulgaria/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

KF233952/2007/Bulgaria/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLRLDDGTVKAVCTA

KF233951/2007/Bulgaria/2.3 RLACKKEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

HQ148062/2007/Bulgaria/2.3 RLACKKEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

KF233949/2006/Bulgaria/2.3 RLACKEEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

KF233947/2002/Bulgaria/2.3 RLACKEEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

KX687718/2002/Bulgaria/2.3 RLACKEEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

KX687717/1998/Bulgaria/2.3 RLACKEEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

KF233944/1997/Bulgaria/2.3 RLACKEEYRYALSSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

JQ595295/1993/Belgium/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

KF233953/2007/Croatia/2.3 RLACKEXYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KX687716/2007/Croatia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411586/2006/Croatia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KX687714/2002/Croatia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

HQ148061/2002/Croatia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

JQ411572/1996/Czech Republic/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

J04358/1966/France/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

GU233734/2009/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHDLHLDDGTVKAVCTA

GU233733/2009/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

GU233731/2006/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

GU233732/2005/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

GU324242/2004/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

JQ411584/2000/Germany/2.3 RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

QZX63168/1999/Germany/2.3 RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

MZ643987/1999/Germany/2.3 RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

JQ411581/1998/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411564/1994/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

JQ411563/1992/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411578/1982/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

JQ411559/1984/Germany/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

JQ411589/2007/Hungary/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KX687720/1993/Hungary/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KX687721/1992/Hungary/2.3 RLACKKDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

MK026457/1980/Japan/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

MK026458/1951/Japan/2.3 RLACKEDYRYAISSTNEVGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

KF233961/2013/Latvia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

AHB34606/2013/Latvia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCTA

JQ411599/2011/Lithuania/2.3 RLSCKEDYRYAISSTNEIGPLGAKGLTTTWKEHNHGLQLDDGTVRAICTA

JQ411569/1995/Poland/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKAVCAA

KF233956/2007/Romania/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KF233955/2006/Romania/2.3 RLACKEDYRYAISSTNEVGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KF233954/2006/Romania/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

F233948/2004/Romania/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KF233960/2010/Serbia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

KF233950/2006/Serbia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

KY849593/2005/Serbia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411590/2007/Slovakia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411583/2000/Slovakia/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411585/2001/Spain/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

FJ265020/2001/Spain/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

JQ411568/1995/Poland/2.3 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHSLQLDDGTVKAVCTA

KF233946/2000/Yugoslav Republic of Macedonia/2.3

 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLHLDDGTVKAVCTA

CSFV subgenotype 2.4

KM362426/India/2.4 RLACKEDYRYAISSTNEIGPLGAEGLTTTWTEYNHGLQLDDGTVKAICTA

CSFV subgenotype 2.5

JX898525/2012/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KT853103/2011/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KT853102/2011/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

JX898523/2011/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

HQ697226/2010/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

HQ697227/2009/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

HQ697223/2008/China/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK782042/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYEHGLQLDDGTVRAICTA

MN977268/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYEHGLQLDDGTVRAICTA

MK782036/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHGLQLDDGTVRAICTA

MK782043/2018/Viet Nam/2.5 RLSCKEDYRYALSSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK782041/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNQGLQLDDGTVRAICTA

MK782045/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK782037/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYEHGLQLDDGTVRAICTA

MK782038/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYSHGLQLDDGTVRAICTA

MK782044/2018/Viet Nam/2.5 RLSCKEDYRYALSSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

MK782040/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYEHGLQLDDGTVRAICTA

MK782039/2018/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYEHGLQLDDGTVRAICTA

MH979231/2015/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KP702208/2014/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

KP702206/2014/Viet Nam/2.5 RLSCKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHGLQLDDGTVRAICTA

CSFV subgenotype 2.6

KP702210/2014/Viet Nam/2.6 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKATCTA

KP702209/2014/Viet Nam/2.6 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYSHGLQLDDGTVKATCTA

EU180068/Indonesia/2.6 RLACKEDYRYAISSTNEIGLLGAEGLTTTWEEYSHGLQLDDGTVKAICTA

 CSFV subgenotype 2.7

LC000001/India/2013/2.7 RLACKEDYRYAISSTNEIGPLGAEGLTTTWTEYNHGLQLDDGTVKAICTA

LC000002/India/2012/2.7 RLACKEDYRYAISSTNEIGPLGAEGLTTTWTEYNHGLQLDDGTVKAICTA

CSFV subgenotype 3.1

JQ411575/1997/United Kingdom/3.1 RLACKEDYRYAISSTNEIGLLGAGGLTTTWKEYSHDLQLDDGTVKAICSA

CSFV subgenotype 3.2

MH548920/1999/Korea/3.2 RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

MH548918/1998/Korea/3.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

MH548916/1997/Korea/3.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

MH548917/1997/Korea/3.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

MH548915/1988/Korea/3.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

MH548914/1987/Korea/3.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

KT716271/1999/South Korea/3.2 RLACKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

ALP83489/1999/South Korea/3.2 LACKEDYRYAISSTNEIGPLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

KF669877/1998/South Korea/3.2 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKEYNHNLQLDDGTVKAICTA

CSFV subgenotype 3.4

HCU43924/1997/China/3.4 RLACKEDYRYAISSTNEIGLLGAEGLTTTWKDYSHNLQLDDGTVKAICTA

AY526730/1996/China/3.4 RLACKEGYRYAISSTNEIGLLGAEGLTTTWKDYSHNLQLDDGTVKAICTA

AY646427/1994/China/3.4 RLACKEGYRYAISSTNEIGLLGAEGLTTTWKDYSHNLQLDDGTVKAICTA

AY526731/1990/China/3.4 RLACKEGYRYAISSTNEIGLLGAEGLTTTWKDYSHNLQLDDGTVKAICTA

MK026460/1986/Japan/3.4 RLACKEGYRYAISSTNEIGLLGAEGLTTTWKDYSHNLQLDDGTVKAICTA

JQ411571/1974/Japan/3.4 RLACKEGYRYAISSTNEIGLLGAEGLTTTWKEYSHNLQLDDGTVKAICTA

BVDV isolated from pigs

HQ258810/2009/China/BVDV-2 FPECKEGFQYAISKDKKMGLSGPESLTTTWHLPTKKLVDSMVQVWCEGED

JN400273/2008/China/BVDV-1 IPECRPDYSYAIARSEKIGLLGAEDLTTQWYDYSDGMQLEDGMVRVWCTN

AF526381/1995/China/BVDV-1 YPDCKPGFLYAIARNEKIGLLGAEGLTTTWHEYSAKMRLKDTMVKVWCKE

KY852369/2015/India/BVDV-1 YPDCKPDFLYAIAKNDEIGPLGATGLTTQWYEYSDGMRLRDSEVEVWCKD

KY852368/2014/India/BVDV-1 YPDCKPDFLYAIAKNDEIGPLGATGLTTQWYEYSDGMRLRDSEVEVWCKD

KY852367/2013/India/BVDV-1 YPDCKPDFLYAIAKNDEIGPLGATGLTTQWYEYSDGMRLRDSEVEVWCKD

KY852366/2013/India/BVDV-1 YPDCKPDFSYAIAKNDEIGPLGATGLTTQWYEYSDGMRLQDSTVEVWCKD

KY852365/2013/India/BVDV-1 YPDCKPDFLYAIAKNDEIGPLGATGLTTQWYEYSDGMRLRDSEVEVWCKD

KY852364/2013/India/BVDV YPDCKPDFLYAIAKNDEIGPLGATGLTTQWYEYSDGMRLRDSEVEVWCKD

BDV isolated from pigs

MF102262/2015/Switzerland/BDV QFACNEDYRYAISKTRDVGPLGATGLTRTWSEYREGLSLDDGTIYAVCSR

AB897785/2012/Japan/BDV-1 QFACREGYRYALAKTKEIGPLGAESLTTTWTDYQVKLKLDDGTVRATCTR

KF925348/2000/Germany/BDV-3 QFACIENYKYALSKTSNVGPLGAEDLTTTWHDYKPNLQLDDGTIRAVCQR

MZ664275/1994/Netherlands/BDV QFACREDFRYALAKTKEIGLLGAEGLTTTWTDYQRTFYLDDGTVRATCER

* + - 1. **Supplementary table 1. The number cases for each strain over the years worldwide and in China**

|  |  |  |
| --- | --- | --- |
|  | Worldwide | China |
| Sub-genotype | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 3.1 | 3.2 | 3.4 | 1.1 | 1.2 | 2.1 | 2.2 | 2.5 | 3.4 |
| 1945 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |
| 1946 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1947 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1948 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1949 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1950 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1951 | 1 |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1952 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1953 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1954 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1955 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1956 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1957 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1958 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1959 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1960 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1961 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1962 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1963 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1964 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1965 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1966 | 1 |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| 1967 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1968 | 1 |   |   |   |   | 0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1969 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1970 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1971 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1972 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1973 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1974 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 1975 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1976 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1977 |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1978 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1979 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1980 |   |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1981 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1982 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1983 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1984 | 1 |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1985 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1986 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| 1987 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 1988 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| 1989 |   |   |   |   |   |   |   | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1990 |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 1 |
| 1991 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |
| 1992 |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1993 |   |   |   |   |   |   |   | 1 |   | 2 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |
| 1994 |   | 1 |   |   |   |   |   | 1 | 1 | 2 |   |   |   |   |   |   | 1 |   |   | 1 |   |   | 1 |
| 1995 | 1 |   |   |   |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   | 1 |   |   | 1 |   |   |
| 1996 | 2 |   |   |   |   |   |   | 3 |   | 1 |   |   |   |   |   |   | 1 |   |   | 3 |   |   | 1 |
| 1997 | 1 |   |   |   |   |   |   | 4 |   | 1 |   |   |   |   |   | 2 | 1 |   |   | 1 |   |   | 1 |
| 1998 |   | 1 | 1 |   |   |   |   | 2 | 1 | 2 |   |   | 1 |   |   | 2 |   |   |   | 2 |   |   |   |
| 1999 | 2 | 1 |   |   |   |   |   | 6 | 2 | 2 |   |   |   |   |   | 3 |   |   |   | 6 | 2 |   |   |
| 2000 | 1 |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2001 | 3 | 2 |   |   | 1 |   |   | 2 | 3 | 2 |   |   |   |   |   |   |   | 1 |   | 2 |   |   |   |
| 2002 | 1 |   |   |   |   |   |   | 3 |   | 4 |   |   |   |   |   |   |   | 1 |   | 3 |   |   |   |
| 2003 | 1 |   |   |   | 2 |   |   | 3 |   |   |   |   |   |   |   |   |   | 1 |   | 2 |   |   |   |
| 2004 |   |   |   |   | 1 |   |   | 4 |   | 2 |   |   |   |   |   |   |   | 1 |   | 4 |   |   |   |
| 2005 | 1 |   |   |   |   |   |   | 7 | 1 | 2 |   |   |   |   |   |   |   | 1 |   | 5 |   |   |   |
| 2006 | 1 |   |   |   |   |   |   | 12 |   | 6 |   |   |   |   |   |   |   | 1 |   | 12 |   |   |   |
| 2007 | 1 |   |   |   |   |   |   | 1 | 2 | 8 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |
| 2008 | 6 |   |   |   |   |   |   | 6 | 3 | 1 |   | 1 |   |   |   |   |   | 4 |   | 4 | 1 | 1 |   |
| 2009 | 10 |   |   | 1 | 1 | 1 |   | 10 | 4 | 3 |   | 1 |   |   |   |   |   | 9 |   | 5 |   | 1 |   |
| 2010 | 3 |   |   | 2 |   |   |   | 2 | 1 | 1 |   | 1 |   |   |   |   |   | 3 |   | 1 |   | 1 |   |
| 2011 | 2 | 1 |   | 1 |   |   |   | 28 | 2 | 1 |   | 3 |   |   |   |   |   |   |   | 21 |   | 3 |   |
| 2012 | 1 |   | 1 | 1 |   | 2 |   | 9 | 8 |   |   | 1 |   | 1 |   |   |   |   |   | 7 |   | 1 |   |
| 2013 | 4 |   |   |   |   | 2 |   | 4 | 2 | 2 |   |   |   | 1 |   |   |   |   |   | 3 | 1 |   |   |
| 2014 |   |   |   |   |   | 3 | 1 | 11 | 4 |   |   | 2 | 2 |   |   |   |   |   |   | 10 | 1 |   |   |
| 2015 |   |   |   |   |   | 9 | 1 | 17 | 2 |   |   | 1 |   |   |   |   |   |   |   | 13 |   |   |   |
| 2016 | 1 |   |   |   |   |   |   | 19 | 1 |   |   |   |   |   |   |   |   | 1 |   | 16 |   |   |   |
| 2017 |   |   |   |   |   |   |   | 11 | 1 |   |   |   |   |   |   |   |   |   |   | 9 | 1 |   |   |
| 2018 | 1 |   |   |   |   |   |   | 21 |   |   |   | 11 |   |   |   |   |   |   |   | 20 |   |   |   |
| 2019 |   |   |   |   |   |   |   | 24 |   |   |   |   |   |   |   |   |   |   |   | 5 |   |   |   |
| 2020 |   |   |   |   |   |   |   | 5 |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |
| 2021 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |