

Packaged spliced sequences of HCV (5'-noncoding region, 300nt), HIV-1 (LTR, 331) , SARS-CoV1(379 nt), and SARS-CoV2(190 nt).

(Each sequence is started with its name. The positions of primer pair and probe of each sequence are underlined)

HCV

ACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTC
TAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCTCCGGGAGAG
CCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTT
TCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAG
CCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCAG

HIV-1

TGCCCCGGGATTCAGGGAGGCGTGGCCTGGGCGGGACTGGGGAGTGCCGAGCCCTC
AGATCCTGCATATAAGCAGCTGCTTTTTGCCTGTACTGGGTCTCTCTGGTTAGACCAGA
TCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAG
CTTGCCCTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGA
GATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCGAACAGG

SARS-CoV1

GACCTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGCTAACAT
GCTTAGGATAATGGCCTCTCTTGTCTTGCTCGCAAACATAACACTTGCTGTAACCTTATC
ACACCGTTTCTACAGGTTAGCTAACGAGTGTGCGCAAGTATTAAGTGAGATGGTCAGT
GTGGCGGCTCACTATATGTTAAACCAGGTGGAACATCATCCGGTGATGCTACAACCTGCT
TATGCTAATAGTGTCTTTAACATTTGTCAAGCTGTTACAGCCAATGTAAATGCACTTCTT
TCAACTGATGGTAATAAGATAGCTGACAAGTATGTCCGCAATCTACAACACAGGCTCTA
TGAGTGTCTCTATAGAAATAGGGATGTTGATCATGAATTCGTGGATGAGTTTTACGCTTA

SARS-CoV2

CCTGCGTAAACATTTATGAATTACCAAGTCAATGGTTACCCTAATATGTTTATCACCCGC
GAAGAAGCTATTCGTCACGTTCTGTCGTGGATTGGCTTTGATGTAGAGGGCTGTCATGC

AACTAGAGATGCTGTGGGTACTAACCTACCTCTCCAGCTAGGATTTTCTACAGGTGTTA

ACTTAGTAGCTGTACCGACTGGTTATG

The sequences of primers and probes used for RT-PCR detection

HCV

Forward primer: 5'-GCAGAAAGCGTCTAGCCATGGCGT-3'

Reverse primer: 5'-AACACTACTCGGCTAGCAGT-3'

Displacing probes:

5'-FAM-CTGCGGAACCGGTGAGTACA-PO₄-3'

5'-TACTCACCGTTCCGCAG-Dabcyl-3'

HIV-1

Forward primer: 5'-GACCAGATCTGAGCCTGGGAGCT-3'

Reverse primer: 5'-GGGTCTGAGGGATCTCTAGTTACCAGAGT-3'

Displacing probes:

5'-FAM-CTTAAGCCTCAATAAAGCTTGCCTTGA-PO₄-3'

5'-AAGGCAAGCTTTATTGAGGCTTAAG-Dabcyl-3'

SARS-CoV1

Forward primer: 5'-GCTCGCAAACATAACACTTGC-3'

Reverse primer: 5'-ACATATAGAGAGCCGCCACACATG-3'

Displacing probes:

5'-FAM-CTACAGGTTAGCTAACGAGTGTGCG-PO₄-3'

5'-CACACTCGTTAGCTAACCTGTAG-Dabcyl-3'

SARS-CoV2

Forward primer: 5'-TTATCACCCGCGAAGAAGCT-3'

Reverse primer: 5'-GTAGGTTAGTACCCACAGCATCTCTAGT-3'

Displacing probes:

5'-FAM-CGTGCGTGGATTGGCTTTGATGTAGAG-PO₄-3'

5'-CTACATCAAAGCCAATCCACGCACG-Dabcyl-3'