

**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  
TAGCCATGGCGTTAGTATGAGTGTCTGTCAGCCTCCAGGACCCCCCTCCCGGGAGAG  
CCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCTT  
TCTTGATAAACCCGCTCAATGCCTGGAGATTGGGCGTGCCCCGCAAGACTGCTAG  
CCGAGTAGTGTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCAG

### **HIV-1**

TGCCCCGGGATTCCAGGGAGGCGTGGCCTGGGCGGGACTGGGGAGTGGCGAGCCCTC  
AGATCCTGCATATAAGCAGCTGCTTTTTGCCTGTACTGGGTCTCTCTGGTTAGACCAGA  
TCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCTTAAGCCTCAATAAAG  
CTTGCCTTGAGTGCTTCAAGTAGTGTGTGCCCGTCTGTTGTGTGACTCTGGTAACTAGA  
GATCCCTCAGACCCTTTTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCGAACAGG

### **SARS-CoV1**

GACCTGAAAGCGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGCTAACAT  
GCTTAGGATAATGGCCTCTCTTGTCTTGCTCGCAAACATAACACTTGCTGTAACCTTATC  
ACACCGTTTCTACAGGTTAGCTAACGAGTGTGCGCAAGTATTAAGTGAATGGTCATGT  
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-PO<sub>4</sub>-3'

5'-TACTCACCGGTTCCGCAG-Dabcyl-3'

### HIV-1

Forward primer: 5'-GACCAGATCTGAGCCTGGGAGCT-3'

Reverse primer: 5'-GGGTCTGAGGGATCTCTAGTTACCAGAGT-3'

Displacing probes:

5'-FAM-CTTAAGCCTCAATAAAGCTTGCCTTGA-PO<sub>4</sub>-3'

5'-AAGGCAAGCTTTATTGAGGCTTAAG-Dabcyl-3'

### SARS-CoV1

Forward primer: 5'-GCTCGCAAACATAACACTTGC-3'

Reverse primer: 5'-ACATATAGAGAGCCGCCACACATG-3'

Displacing probes:

5'-FAM-CTACAGGTTAGCTAACGAGTGTGCG-PO<sub>4</sub>-3'

5'-CACACTCGTTAGCTAACCTGTAG-Dabcyl-3'

### SARS-CoV2

Forward primer: 5'-TTATCACCCGCGAAGAAGCT-3'

Reverse primer: 5'-GTAGGTTAGTACCCACAGCATCTCTAGT-3'

Displacing probes:

5'-FAM-CGTGCGTGGATTGGCTTTGATGTAGAG-PO<sub>4</sub>-3'

5'-CTACATCAAAGCCAATCCACGCACG-Dabcyl-3'