Supplementary Files

Table S1. RT-RPA primers

Primer	Sequence (5' to 3')
Influenza A Virus	
F-IA-NEW	AGGCTCTCATGGAATGGCTAAAGACAAGAC
R-IA-NEW	TGGACAAAGCGTCTACGCTGCAGTCCTCGC
F1- IA-106	TAAAGACAAGACCAATCTTGTCACCTCTGACT
R1-IA-106	TGGACAAAGCGTCTACGCTGCAGTCCTCGCTC
F2-IA-238	ATGAGTCTTCTAACCGAGGTCGAAACGTA
R2-IA-238	CAAAGCGTCTACGCTGCAGTCCTCGCTC
F-IA-N	ATGAGTCTTCTAACCGAGGTCGAAACGTAC
R-IA-N	GATTGGTCTTGTCTTTAGCCATTCCATGAGAG
Influenza B Virus	
F3-IB-276	TCAAAGGAACAAGGACCAGAGGGAAACTATGC
R3-IB-276	TGTAGGGTCCTCCTGGTGCTTTTTCTGCAT
F4-IB-347	TTGGAACCTCAGGATCTTGCCCTAACG
R4-IB-347	CTGCACCATGTAATCAACAACAATTCT
F-IB-NEW	CAAATGAAGAGCCTCTATGGAGACTCAAATC
R-IB-NEW	CATGTAATCAACAACAATTCTGCCGCTTTG
Respiratory Syncytial Virus	
F5- RSV-434	GATAGCATAATATCTGTCAACTCAATAGA
R5-RSV-434	CTTATTTTTTCTATCATTTCTTCTCTTA
F-RSV-NEW-247	CCAAGTGATAACCCTTTCTCTAAGTTGTAC
R-RSV-NEW-247	CTCTTAGACCAACCATAGCATCTCTTATTC
F6-RSV-230	GATCATTCAGGTAATACAGAAAAATCTAACCAAC
R6-RSV-230	CCAGCTCCTTCACCTATGAATGCTATACAA
F-RSV-NEW-205	AATCTAACCAACTTTACACCACCACTTCAC
R-RSV-NEW-205	GCTCCTTCACCTATGAATGCTATACAACTG

Table S2. crRNA and probe sequences

crRNA	Sequence (5' to 3')
Influenza A Virus	
crRNA1	UAAUUUCUACUAAGUGUAGAUUGUUCACGCUCACCGUGCCCA
crRNA-IA-NEW1	UAAUUUCUACUAAGUGUAGAUAGGGGGCCTGACGGGATGAT
crRNA-IA-NEW2	UAAUUUCUACUAAGUGUAGAUCAGTCTCTGCGCGATCTCGG
Probe-Cas12a	FAM-TTATTATT-BHQ1
Influenza B Virus	
crRNA2	UAAUUUCUACUAAGUGUAGAU CUAUAAUGCACGACAGAACAA
crRNA3	UAAUUUCUACUAAGUGUAGAU UGGUAGUCCUCCGUCUUCUGU
Probe-Cas12a	FAM-TTATTATT-BHQ1
Respiratory Syncytial Virus	
crRNA4	UAAUUUCUACUAAGUGUAGAU AUAACAAUGAAGAAGAAUCUA
Probe-Cas12a	FAM-TTATTATT-BHQ1
crRNA5	UAAUUUCUACUAAGUGUAGAU UUGCAUGCUUCCUUGGCAUCA
Probe-Cas12a	FAM-TTATTATT-BHQ1

Supplementary sequences

Plasmid templates

Influenza A Virus

ATGAGTCTTCTAACCGAGGTCGAAACGTACGTTCTTTCTATCATCCCGTCAGGCCCCCTCAAAGCCGAGA
TCGCGCAGAGACTGGAAAGTGTCTTTGCAGGAAAGAACACAGATCTTGAGGCTCTCATGGAATGGCTA
AAGACAAGACCAATCTTGTCACCTCTGACTAAGGGAATTTTAGGATTTGTGTTCACGCTCACCGTGCCC
AGTGAGCGAGGACTGCAGCGTAGACGCTTTGTCCA

Influenza B Virus

TCAAAGGAACAAGGACCAGAGGGAAACTATGCCCGGACTGTCTCAACTGTACAGATCTGGATGTGGCC
TTGGGCAGGCCAATGTGTGTGGGGACCACACCTTCTGCTAAAGCTTCAATACTCCATGAGGTCAGACCT
GTTACATCCGGGTGCTTTCCTATAATGCACGACAGAACAAAAATTAGGCAACTACCCAATCTTCTCAGAG
GATATGAAAAGATCAGGTTATCAACCCAAAATGTTATTGATGCAGAAAAAGCACCAGGAGGACCCTACA
GACTTGGAACCTCAGGATCTTGCCCTAACGCTACCAGCAAAATCGGATTTTTTGCAACAATGAAAAGCA
CCAGGAGGACCCTACAGACTTGGAACCTCAGGATCTTGCCCTAACGCTACCAGCAAAATCGGATTTTTT
GCAACAATGGCTTGGGCTGTCCCAAAGGACAACTACAAAAATGCAACGAACCCACAAACAGTGGAAGT
ACCATACATTTGTACAGAAGGGGAAGACCAAATTACTGTTTGGGGGTTCCATTCGGACAACAAAACCCA
AATGAAGAGCCTCTATGGAGACTCAAATCCTCAAAAGTTCACCTCATCTGCTAATGGAGTAACCACACA
TTATGTTTCTCAGATTGGCGACTTCCCAGATCAAACAGAAGACGGAGGACTACCACAAAGCGGCAGAAT
TGTTGTTGATTACATGGTGCAG

Respiratory Syncytial Virus

GATAGCATAATATCTGTCAACTCAATAGACATAGAAGTCACTAAAGAGAGCCCGATAACATCTGGCACCA
ACATTATCAATCCAACAAGTGAAGCCGACAGTACCCCAGAAACTAAAGCCAACTACCCAAGAAAACCC
CTAGTAAGCTTCAAAGAAGATCTCACCCCAAGTGATAACCCTTTCTCTAAGTTGTACAAAGAAACCATA
GAAACATTTGATAACAATGAAGAAGAATCTAGCTACTCATATGAGGAGATCAATGACCAAACAAATGAC
AACATTACAGCAAGACTAGATAGAATTGATGAAAAATTAAGTGAAATATTAGGAATGCTCCATACATTAG
TAGTTGCAAGTGCAGGACCTACTTCGGCTCGTGACGGAATAAGAGATGCTATGGTTGGTCTAAGAGAAG
AAATGATAGAAAAAATAAG

GATCATTCAGGTAATACAGAAAAATCTAACCAACTTTACACCACCACTTCACATCAGACATCTTTAGTAA
GGAATAGTGCATCACTTTATTGCATGCTTCCTTGGCATCATGTCAATAGATTTAACTTTGTATTTAGTTCCA
CAGGATGCAAGATCAGTATAGAATATATTTTAAAAGATCTTAAGATTAAAGATCCCAGTTGTATAGCATTC
ATAGGTGAAGGAGCTGG