

Development of a self-contained microfluidic chip and an internet-of-things-based point-of-care device for automated identification of respiratory viruses

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Table S1. Primer sequences for amplifying the target gene of SARS-CoV-2, Influenza A, Influenza B and human 18S rRNA gene.

Primer names	Sequence (5'→ 3')	Final concentration
CoV2-As1e-F3	CGGTGGACAAATTGTCAC	0.2 µM
CoV2-As1e-B3	CTTCTCTGGATTAAACACACTT	0.2 µM
CoV2-As1e-FIP	TCAGCACACAAAGCCAAAAATTTATTTTTC TGTGCAAAGGAAATTAAGGAG	1.6 µM
CoV2-As1e-BIP	TATTGGTGGAGCTAAACTTAAAGCCTTTTCT GTACAATCCCTTTGAGTG	1.6 µM
CoV2-As1e-LF	TTACAAGCTTAAAGAATGTCTGAACACT	0.4 µM
CoV2-As1e-LB	TTGAATTTAGGTGAAACATTTGTCACG	0.4 µM
Influenza A-F3	AGATGTTGTGGCAATGACT	0.2 µM
Influenza A-B3	AAGACCAATCTACAGTATCACT	0.2 µM
Influenza A-FIP	CGGCCTCATAAGTCTAGCC- GTCAGGGTATAGCGGAAG	1.6 µM
Influenza A-BIP	TGCTTCTGGGTGAATTAATCAGG- ACGCCACAAAAAGAAATGC	1.6 µM
Influenza A-LF	CAGCTCAGGATGTTGAACGAAA	0.8 µM
Influenza A-LB	AGAAAAACAATCTGGACTAGTGCG	0.8 µM
Influenza-B-F3	GGACATGAACAACAAAGATGC	0.2 µM
Influenza-B -B3	GGCAACAAGTTTAGCAACAA	0.2 µM
Influenza-B -FIP	GGACAATACATTACGCATATCCCTTGATAA AGGAGGAAGTAAACACTCA	1.6 µM
Influenza-B-BIP	GGAACATTCCTCAAACACCCCAGCCTTCCA CTCTGGTCAT	1.6 µM
Influenza-B-LF	GTCAAACGGAAGTCCCTTCTTTC	0.8 µM
Influenza-B-LB	GATACAAGTCCTTATCAACTCTGCA	0.8 µM
Human-18S-FIP	TTCGTCACTACCTCCCCGGG- CTACCACATCCAAGGAAGGC	0.2 µM
Human-18S-BIP	ACAGGACTCTTTCGAGGCCCT- TGCCCTCCAATGGATCCTC	0.2 µM
Human-18S-F3	AGGGTTCGATTCCGGAGAG	1.6 µM
Human-18S-B3	GAATTACCGCGGCTGCTG	1.6 µM
Human-18S-LF	GTGGGTAATTTGCGCGCCTG	0.4 µM
Human-18S-LB	ATTGGAATGAGTCCACTTT	0.4 µM