

Supplementary table 1

Supplementary table 1 Sequences of oligonucleotides used for molecular analysis.

Two-Tube Assay	Virus	primer	Target gene	Primer set 5'-3'	Size (bp)	Concentrations*
Tube 1						
	HRV	HRV-F HRV-R	5'-UTR	<u>GTACGACTCACTATAGGG</u> ACCCCTGAATGYGGCTAACCT <u>GTACGACTCACTATAGGG</u> ACGGACACCCAAAGTAGTYGGT	145	75 nM/L
	FluB	FluB-F FluB-R	M	<u>GTACGACTCACTATAGGG</u> AAAAAGRAGATTCATCACAGAGC <u>GTACGACTCACTATAGGG</u> ATTCTGCTATTTCAAATGCTTCA	167	50 nM/L
	229E	229E-F 229E-R	N	<u>GTACGACTCACTATAGGG</u> ACTCGGAATCCTTCAAGTGACAGA <u>GTACGACTCACTATAGGG</u> AACGAGAAGGCTTAGGAGTAC	184	50 nM/L
	OC43	OC43-F OC43-R	N	<u>GTACGACTCACTATAGGG</u> AATTGCACCAGGAGTCCCA <u>GTACGACTCACTATAGGG</u> ATATCGGTGCCGTACTGGTCT	200	50 nM/L
	HKU1	HKU1-F HKU1-R	N	<u>GTACGACTCACTATAGGG</u> ATATAGTRAAACCTGATATGGCT <u>GTACGACTCACTATAGGG</u> ATACCAAAACACTGTTGAACAT	221	50 nM/L
	PIV3	PIV3-F PIV3-R	HA	<u>GTACGACTCACTATAGGG</u> ATTGTCAATTATGATGGYTCAATCT <u>GTACGACTCACTATAGGG</u> ATTTTTGACACCCAGTTGTGTTGCAG	236	50 nM/L
	FluA	FluA-F FluA-R	M	<u>GTACGACTCACTATAGGG</u> ACATTGGGATCTTGCACTTGATATT <u>GTACGACTCACTATAGGG</u> ATTTTTTTTTGTAGAAACAAGGTAGTTTTTTACTC	265	100 nM/L
	PIV1	PIV1-F PIV1-R	HA	<u>GTACGACTCACTATAGGG</u> ATCTCATTATTACCYGGACCAA <u>GTACGACTCACTATAGGG</u> ATCCTGTTGTCGTTGATGTCATA	285	87.5 nM/L
	ADV	ADV-F ADV-R	Hexon	<u>GTACGACTCACTATAGGG</u> AGCCSCARTGGKCWACATGCACATC <u>GTACGACTCACTATAGGG</u> ACAGCACSCCICGRATGTCAAA	339	100 nM/L
Tube 2						
	RSVA	RSVA-F	F	<u>GTACGACTCACTATAGGG</u> ACATCCCCTCTATGCACAACC	159	50 nM/L

	RSVA-R		<u>GTACGACTCACTATAGGGACATGTTTCAGCTTGTGGGAA</u>		
NL63	NL63-F	Polymerase	<u>GTACGACTCACTATAGGGATCCCAAATGTGATAGAGCTTTGC</u>	177	50 nM/L
	NL63-R		<u>GTACGACTCACTATAGGGACTGTTAAACTTTGTGCCAACTC</u>		
PIV2	PIV2-F	HA	<u>GTACGACTCACTATAGGGATCTACACTGCATCAGCCAGC</u>	195	50 nM/L
	PIV2-R		<u>GTACGACTCACTATAGGGACCCCTAAAAGAGATGAGCCC</u>		
HMPV	HMPV-L-F	L	<u>GTACGACTCACTATAGGGACATGCCCACTATAAAAGGTCAG</u>	209	100 nM/L
	HMPV-L-R		<u>GTACGACTCACTATAGGGACACCCCAGTCTTTCTTGAAA</u>		
	HMPV-N-F	N	<u>GTACGACTCACTATAGGGAGAGCTAAYAGAGTGCTAAGTGATG</u>	209	50 nM/L
	HMPV-N-R		<u>GTACGACTCACTATAGGGA</u> ACTTTCTGCTTTGCTTCCTGT		
RSVB	RSVB-F	F	<u>GTACGACTCACTATAGGGAAAACGAAGATTTCTGGGCTTC</u>	280	75 nM/L
	RSVB-R		<u>GTACGACTCACTATAGGGATGCGACAGCTCTGTTGATTT</u>		
HBoV	HBoV-F	NP1	<u>GTACGACTCACTATAGGGAAAGAAAAGGGAGTCCAGAA</u>	298	100 nM/L
	HBoV-R		<u>GTACGACTCACTATAGGGATTTTTTTTCTCTGTGTTGACTGAATACAG</u>		
PIV4	PIV4-F	Phosphoprot ein	<u>GTACGACTCACTATAGGGACTGAACGGTTGCATTCAGGT</u>	480	50 nM/L
	PIV4-R		<u>GTACGACTCACTATAGGGATTGCATCAAGAATGAGTCCT</u>		
Internal control primer					
Rnasep	Rnasep F	RNase P	<u>GTACGACTCACTATAGGGAGAGGCCTGGCTTTTGA</u> ACTT	126	25 nM/L
	Rnasep R		<u>GTACGACTCACTATAGGGA</u> ATCAAATTGAGGGCACTGGA		
Universal primer					
	Tag		<u>GTACGACTCACTATAGGGA</u>		10 µM/L

* Varied primer concentrations in 25 µL PCR mixture.

Supplementary table 2

Supplementary table 2 Primer of S genes for HKU1, HCoV-NL63 and HCoV-OC43.

Primer	Sequence 5'-3'	Location
HKU1 F1	GCTGTTATAGGTGATTTTAATTG	23150-23170
HKU1 R1	CGTTCCCAATTAAGAGGTGA	24130-24150
HKU1 F2	CCTAATACTGGTGTTTATGA	24010-24030
HKU1 R2	CAATCAATAGTAACTTTAGGAG	25550-25570
HKU1 F3	CAAGGTATTTTTAAAGAAGTTTCTG	25010-25030
HKU1 R3	CTATTAAGTGCTTGAGCATTAG	26240-26260
HKU1 F4	GTTTGGGTGTTACTATGGATGTTT	26100-26110
HKU1 R4	CATACTCATCACAACAATTATGAC	27130-27150
NL63 F1	GAGTGGTAGGTTGTTGTTACG	20520-20540
NL63 R1	CCCACAAAAGTGCTAACATGAG	21670-21690
NL63 F2	GCCACTGGTTCTGATGTTAATTG	21420-21440
NL63 R2	CTGGTTGGTTACATGGTGTCAC	22610-22630
NL63 F3	CGTTCTTCAAACCAGTCACTTGC	22520-22540
NL63 R3	GCCTTATTAATGATGCAGCC	23520-23540
NL63 F4	CTTTGGCACTGCAAGCACGAC	23440-23460
NL63 R4	GAGTAAGTTGAAATAGGCCACC	24670-24700
OC43 F1	CTAGGCTGCATGATGCTTAGACC	23710-23730
OC43 R1	GACATCAGGCTGCTCATATT	24860-24880
OC43 F2	AACACAATCTAT AGCACCACC	24680-24700
OC43 R2	CATATAAAAGGTTCTGCCAAC	25720-25740
OC43 F3	GGCATTTTTGTTGAGGTTAATGCG	25680-25700
OC43 R3	CCAATCTATTAGAGAGTTGTTGC	26920-26950
OC43 F4	CCAGTAGATCTGCTATAGAGG	26490-26510
OC43 R4	GACGAACTTAGTCGTCATGTGAAG	27830-27850