

Supplementary Table1: Materials

Cell lines, cell culture medium and virus stocks

Item	Company	Cat.No.	Additional Information
MRC-5 cells	ATCC	CCL-171	
LLC-MK2 cells	ATCC	CCL-7	Amsterdam UMC
Vero cells	ATCC	CCL-81	sourced from ECACC (84,113,001)
Human nasal epithelial cells (HNECs)	Epithelix Sàrl	EP51AB	Donor no. AB0630.01
HeLa Ohio cells	ECACC	14J003	
MRC-5 cell culture media	Gibco – Life Technologies	31095	Eagle-MEM supplemented with 10 % FBS, L-glutamine (2 mM), non-1x essential amino acids solution, 1 mM sodium pyruvate, 100 mg/mL Gentamycin sulfate and 0.15 % sodium bicarbonate.
LLC-MK2 cell culture media	Gibco – Life Technologies	31095	Eagle-MEM supplemented with 10 % FBS, 1x non-essential amino acids solution, 100 mg/mL Gentamycin sulfate and 25 mM HEPES.
Vero cell culture media	Takeda Inhouse		TC-Vero medium supplemented with 5 % FBS, 2 mM L-glutamine, 1x non-essential amino acids solution, 1 mM sodium pyruvate, 100 mg/mL Gentamycin sulfate and 0.075 % sodium bicarbonate.
Human nasal epithelial cell culture medium	STEMCELL Technologies	05041, 07925, 15140122	PneumaCult™-Ex Plus Basal Medium supplemented with 1x PneumaCult™-Ex Plus Supplement, 0.1 % Hydrocortisone Stock Solution and 1 % Penicillin/Streptomycin (100 Units/ml).
HeLa Ohio cell	Gibco	21875034,	RPMI 1640 medium supplemented

culture medium		11879020	with 10 % FBS, 1 % Penicillin/Streptomycin (100 Units/ml) and 2 mM L-glutamine.
Glucose-free medium	Gibco	11879020	RPMI 1640 medium without glucose containing 10 % FBS, 1 % Penicillin/Streptomycin (100 Units/ml) and 2 mM L-glutamine.
TCID ₅₀ medium	Gibco		MEM-EARLES supplemented with 2 % FBS, 1 % Penicillin/Streptomycin (100 Units/ml), 2 mM L-glutamine and 30 mM MgCl ₂ .
HCoV-229E	ATCC	VR-740	Rockville, MD
HCoV-NL63	Lia van der Hoeck/ Laboratory of Experimental Virology Dep Medical Microbiology		Amsterdam UMC
SARS-CoV-2 strain BetaCoV/Germany/BavPat1/2020	EVAg	026V-03883	provided by the Charité Universitätsmedizin, Institute of Virology, Berlin, Germany
HRV-A54	ATCC	VR1661	Prepared by Irene Gösler, Blaas group (MPL, Vienna, Austria)
HRV-B14	ATCC	VR284	Prepared by Irene Gösler, Blaas group (MPL, Vienna, Austria)
HRV-A1B	ATCC	VR1645	Prepared by Irene Gösler, Blaas group (MPL, Vienna, Austria)
HRV-A2	ATCC	VR482	Prepared by Irene Gösler, Blaas group (MPL, Vienna, Austria)
HRV-A89	ATCC	VR1199	Prepared by Irene Gösler, Blaas group (MPL, Vienna, Austria)
HRV-A16	ATCC	VR283	Prepared by Irene Gösler, Blaas group (MPL, Vienna, Austria)

Chemicals, equipments, reagents and softwares

Item	Company	Cat.No.
PBS	Takeda in-house	7500144
D-PBS	Gibco	17-516F
MycoZAP	Lonza	VZA-2032
FCS	Gibco/Corning	10270106/3507 0CV
L-glutamine	Gibco/Thermo Fisher	25030024
Penicillin- Streptomycin	Gibco	15140122
Gentamicin	Gibco/Thermo Fisher	15710049
Sodium pyruvate	Gibco/Thermo Fisher	11360039
Non-essential amino acid solution (NEAS)	Gibco/Thermo Fisher	11140035
Sodium bicarbonate	Gibco/Thermo Fisher	25080060
HEPES	Gibco/Thermo Fisher	15630056
Animal Component Free cell dissociation kit	STEMCELL Technologies	5426
Accutase	Corning	25058049
2-DG	Sigma	D8375-5G
Triton X-100	Roche	33981126
Crystal violet powder	Acros Organics	405830250
Methanol (>= 99.9%)	Fisher Chemical	
Acetic acid glacial (>= 99.7%)	Fisher Chemical	A/0400/PB08
T25 cell culture flasks	Corning	430639
Nunc™ EasYFlask™ cell culture flask T75	Thermo Scientific	10364131
96well plates	Corning	3598
Deep-well plates	Greiner	780271
Costar® TC-treated 24 well plate	Corning	CLS3527

MicroAmp 96-well microtiter plate	Applied Biosystems	I02K0 Q415
Adhesive seals for PCR microtiter plates	Thermo Scientific	AB1170
Nuclease free water	Neofroxx	1058LT001
First strand cDNA Synthesis	Fischer Scientific	K1612
PowerTrack™ SYBR Green Master Mix	Applied Biosystems	A46109
ExtractMe Total RNA Kit+DNase I	Blirt	EM31
Universal mouse reference RNA (spike-in control)	Invitrogen	QSO640 (14920)
Glucose-Uptake Glo™ Assay kit	Promega	J1341
Microscope	Nikon	Diaphot 200 or Eclipse TS100
CASY® Cell Counter and Analyzer TT	Biovendis	N.a.
QuantStudio 1Real-Time PCR Instrument	Applied Biosystems	A40425
Nanophotometer N50-Touch	IMPLEN	T51384
GENios, GENios FL and GENios Plus microplate reader	Tecan	
GraphPad Prism		

Primers and oligo sequences

Name	Sequence (5'-3')
HPRT_F	TCAGGCAGTATAATCCAAAGATG
HPRT_R	AGTCTGGCTTATATCCAACACTT
HRV-A54_F	CCTGTGAGCCCTCTGAAAAG
HRV-A54_R	GGGGATTGCAAGTCATCTGT
HRV-B14_F	GGCGCCATATCCAATGGTGT
HRV-B14_R	TCCACCTGATCGAACGTCCA
HRV-A1B_F	TCTACGCGCAGCAGATAATG
HRV-A1B_R	ACTGCCACTGGCTCACTTCT
HRV-A2_F	TAATGTGGCAGCAGCGTTTC
HRV-A2_R	ATGTTGTACACCTGCGCAAG
HRV-A89_F	GCAATGCTAAGTGCTGTCCA

HRV-A89_R	AGGTGGAGGAGATTGGAGGT
HRV-A16_F	CCAAACACACCCAATACTGCTG
HRV-A16_R	TTGGTCCAGTTTGCTTGTGC
HRV-B14 primer amplicon	GGCGCCATATCCAATGGTGTCTATGTACAAGCACTTCTGTTTCCC AGGAGCGAGGTATAGGCTGTACCCACTGCCAAAAGCCTTTAACC GTTATCCGCCAACCAACTACGTAACAGTTAGTACCATCTTGTTCTT GACTGGACGTTTCGATCAGGTGGA
mZfp866_F2	ATC CAG GTG AGC TGA GGG AT
mZfp866_R2	AAC AGC TGA GCC ATC TCA CC
chimHRV-b14_RT	ATCAGCGATGCCGAACGTATGGCGCCATATCCAATGGTGT
chimHRV-b14_R1	ATCAGCGATGCCGAACGTAT