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List of Abbreviations

LIST OF ABBREVIATIONS

+RNA	Positive-strand RNA
-RNA	Negative-strand RNA
3Br	3-bromopropylamine
aa	Amino acid
AMC	7-amino-4-methylcoumarin
AU	Arbitrary units
BHK	Baby hamster kidney
C	Carboxyl (terminus of a protein)
CARD	Caspase activation and recruitment domain
Cardif	CARD adaptor inducing interferon beta
CBP	CREB-binding protein
CCHFV	Crimean-Congo hemorrhagic fever virus
cDNA	Complementary DNA
cGAS	Cyclic GMP-AMP synthase
CLR	C-type lectin receptor
CMV	Cytomegalovirus
CoV	Coronavirus
CP	Cysteine protease
C _T	Threshold cycle
CYLD	Cylindromatosis protein
DMEM	Dulbecco's modified Eagle medium
DMV	Double-membrane vesicle
DNA	Deoxyribonucleic acid
DTT	Dithiothreitol
DUB	Deubiquitinase
DUBA	Deubiquitinase A
DUGV	Dugbe virus
<i>E. coli</i>	<i>Escherichia coli</i>
EAV	Equine arteritis virus
EDTA	Ethylenediaminetetraacetic acid
eGFP	Enhanced GFP
ELF	Equine lung fibroblast
ER	Endoplasmic reticulum
ERGIC	ER-Golgi intermediate compartment
EVA	Equine viral arteritis
FBS	Fetal bovine serum
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase

GFP	Green fluorescent protein
GST	Glutathione S transferase
HCoV	Human coronavirus
HEK293	Human embryonic kidney 293 cells
HEL	Helicase
HEPES	4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid
HIV	Human immunodeficiency virus
hpi	Hours post infection
ICTV	International Committee on Taxonomy of Viruses
IFN- β	Beta interferon
IFNR	Interferon receptor
IKK α / β / ϵ	I κ B kinase alpha/beta/epsilon
IL8	Interleukin 8
IP	Immunoprecipitation
IPS-1	IFN β promoter stimulator 1
IRF3/7/9	Interferon regulatory factor 3/7/9
ISG15	IFN-stimulated gene-encoded protein of 15 kDa
ISGF3	IFN-stimulated gene factor 3
IsoT	Isopeptidase T
I κ B α	Inhibitor of NF- κ B alpha
JAMM	JAB1/MPN/Mov34
kb	Kilobases
K_{cat}	Catalytic constant
kDa	Kilo Dalton
K_M	Michaelis constant
KPNA1	Karyopherin alpha 1
LDV	Lactate dehydrogenase-elevating virus
LGP2	Laboratory of genetics and physiology protein 2
LSB	Laemmli sample buffer
Lys	Lysine
MAD	Multiwavelength anomalous dispersion
MAVS	Mitochondrial antiviral signalling protein
MDA5	Melanoma differentiation-associated protein 5
MEF	Mouse embryonic fibroblast
MERS	Middle East respiratory syndrome
MES	2-[N-morpholino]ethanesulfonic acid
MHV	Mouse hepatitis virus
MJD	Machado-Joseph disease proteases
MLV	Modified live virus

MOI	Multiplicity of infection
mRNA	Messenger RNA
mut	Mutant
Mx1	Myxovirus resistance protein 1
N	Amino (terminus of a protein)
N	Nucleocapsid
NCBI	National Center for Biotechnology Information
NDV	Newcastle disease virus
NEMO	NF- κ B essential modulator
NF- κ B	Nuclear factor κ B
NLR	NOD1-like receptor
NOD	Nucleotide-binding oligomerization domain
NOD1	NOD-containing protein 1
NS1	Nonstructural protein 1 (influenzavirus)
NS3	Nonstructural protein 3 (flavivirus)
nsp	Nonstructural protein (nidovirus)
NWO	Netherlands Organization for Scientific Research
OAS	Oligoadenylate synthetase
ORF	Open reading frame
OTU	Ovarian tumor
OTUB1/2	Otubain 1/2
PAGE	Polyacrylamide gel electrophoresis
PAMP	Pathogen-associated molecular pattern
PBS	Phosphate buffered saline
PCR	Polymerase chain reaction
PD	Pull-down
PEDV	Porcine epidemic diarrhea virus
PEG	Polyethylene glycol
PFU	Plaque-forming units
<i>Pfu</i>	<i>Pyrococcus furiosus</i>
PKR	Protein kinase R
PL1/2pro	Papain-like protease 1/2 (coronavirus)
PLP1/2	Papain-like protease 1/2 (arterivirus)
pp	Polyprotein
PRF	Programmed ribosomal frameshift
PRO	Protease
PRR	Pattern-recognition receptor
PRRSV	Porcine reproductive and respiratory syndrome virus
PYHIN	Pyrin and HIN domain-containing

qRT-PCR	Quantitative RT-PCR
RdRp	RNA-dependent RNA polymerase
RIG-I	Retinoic acid-inducible gene I
RLR	RIG-I-like receptor
RMSD	Root-mean-square deviation
RNA	Ribonucleic acid
RTC	Replication and transcription complex
RT-PCR	Reverse transcriptase PCR
SARS	Severe acute respiratory syndrome
SD	Standard deviation
SDS	Sodium dodecyl sulfate
SHFV	Simian hemorrhagic fever virus
SP	Serine protease
STAT	Signal transducer and activator of transcription
STING	Stimulator of interferon genes
SUMO	Small ubiquitin-like modifier
TAMRA	5-carboxytetramethylrhodamine
TBK1	TANK-binding kinase 1
TCEP	Tris(2-carboxyethyl)phosphine
TFR	Transferrin receptor
TGEV	Transmissible gastroenteritis virus
TLR	Toll-like receptor
TMD	Transmembrane domain
TNF	Tumor necrosis factor
TRAF3/6	TNF receptor-associated factor 3/6
TRIM25	Tripartite motif containing protein 25
TYMV	Turnip yellow mosaic virus
Ub	Ubiquitin
Ubl	Ubiquitin-like
UCH	Ubiquitin C-terminal hydrolase
USP	Ubiquitin specific protease
VISA	Virus-induced signalling adapter
WCL	Whole cell lysate
WPDV	Wobbly possum disease virus
wt	Wild-type

