

Table S1

<b>Virus Abbreviation</b>	<b>Fullname</b>	<b>Accession number</b>	<b>Family</b>	<b>Genus</b>
SPMMV	Sweet potato mild mottle virus	NC_003797	Potyviridae	Ipomovirus
WSMV	Wheat streak mosaic virus	NC_001886	Potyviridae	Tritimovirus
BVY	Blackberry virus Y	NC_008558	Potyviridae	Brambyvirus
RgMV	Ryegrass mosaic virus	NC_001814	Potyviridae	Rymovirus
PVY	Potato virus Y	NC_001616	Potyviridae	Potyvirus
BYMV	Barley yellow mosaic virus	NC_001616	Potyviridae	Bymovirus
MMV	Maclura mosaic virus	U58771	Potyviridae	Macluravirus
AEV	Avian encephalomyelitis virus	NC_003990	Picornaviridae	Tremovirus
HAV	Hepatitis A virus	NC_001489	Picornaviridae	Hepatovirus
HPeV	Human parechovirus	NC_001897	Picornaviridae	Parechovirus
DHBV	Duck hepatitis A virus 1	NC_008250	Picornaviridae	Avihepatovirus
PV	Human enterovirus C	NC_002058	Picornaviridae	Enterovirus
ASV	Avian sapelovirus	NC_006553	Picornaviridae	Sapelovirus
PTV	Porcine teschovirus 1	NC_003985	Picornaviridae	Teschovirus
FMDV	Foot-and-mouth disease virus A	NC_011450	Picornaviridae	Aphthovirus
ERBV	Equine rhinitis B virus 1	NC_003983	Picornaviridae	Erbovirus
EMCV	Encephalomyocarditis virus	NC_001479	Picornaviridae	Cardiovirus
SVV	Seneca Valley virus	NC_011349	Picornaviridae	Senecavirus
AiV	Aichi virus	NC_001918	Picornaviridae	Kobuvirus
AuRNAV	Aurantiochytrium single-stranded RNA virus	NC_007522	Labyrnviridae	Labyrnavirus
IFV	Infectious flacherie virus	NC_003781	Iflaviridae	Iflavirus
ABPV	Acute bee paralysis virus	NC_002548	Dicistroviridae	Aparavirus
CrPV	Cricket paralysis virus	NC_003924	Dicistroviridae	Cripavirus
DCV	Drosophila C virus	NC_001834	Dicistroviridae	Cripavirus
TSV	Taura syndrome virus	NC_003005	Dicistroviridae	Aparavirus
ToTV	Tomato torrado virus	NC_009013	Secoviridae	Torradovirus
RTSV	Rice tungro spherical virus	NC_001632	Secoviridae	Waikavirus
PYFV	Parsnip yellow fleck virus	NC_003628	Secoviridae	Sequivirus
CRLV	Cherry rasp leaf virus	NC_006271	Secoviridae	Cheravirus
TRSV	Tobacco ringspot virus 1	NC_005097	Secoviridae	Nepovirus
CPMV	Cowpea mosaic virus	NC_003549	Secoviridae	Comovirus
BBWV	Broad bean wilt virus 1	NC_005289	Secoviridae	Fabavirus
SDV	Satsuma dwarf virus	NC_003785	Secoviridae	Sadwavirus
HaRNAV	Heterosigma akashiwo RNA virus	NC_005281	Marnaviridae	Marnavirus
JP-B	Marine RNA virus JP-B	NC_009758	Unassigned	Unassigned
CtenRNAV	Chaetoceros tenuissimus RNA Virus	AB375474	Unassigned	Bacillarnavirus
RsRNAV	Rhizosolenia setigera RNA Virus	AB243297	Unassigned	Bacillarnavirus
CsfrRNAV	Chaetoceros scoialis f. radians RNA Virus	NC_012212	Unassigned	Bacillarnavirus
CcloRNAV01	Cylindrotheca closterium RNA Virus 01	NA	Unassigned	Unassigned
CcloRNAV02	Cylindrotheca closterium RNA Virus 02	NA	Unassigned	Unassigned
JP-A	Marine RNA virus JP-A	NC_009757	Unassigned	Unassigned

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AHSV-9	African horsesickness virus	AAC40586	Reoviridae	Orbivirus
ApRV	Aedes pseudoscutellaris reovirus	AAZ94069	Reoviridae	Dinovernavirus
BAV-Ch	Banna virus	AF168005	Reoviridae	Seadornavirus
BmCPV-1	Bombyx mori cypovirus 1	AAK20302	Reoviridae	Cypovirus
BoRV-A/UK	Bovine rotavirus	CAA39085	Reoviridae	Rotavirus A
BTV-2	Bluetongue virus 2	AAA88823	Reoviridae	Orbivirus
CHUV	Chuzan virus	BAA76549	Reoviridae	Orbivirus
CPRV	Cryphonectria parasitica mycoreovirus-1	AAP45577	Reoviridae	Mycoreovirus
CSRV	Chum salmon reovirus CS	AAL31497	Reoviridae	Aquareovirus
CTFV-F1	Colorado tick fever virus	AAK00595	Reoviridae	Coltivirus
DsCPV-1	Dendrolimus punctatus cypovirus 1	AAN46860	Reoviridae	Cypovirus
ESRV	Eriocheir sinensis reovirus	AAT11887	Reoviridae	Cardoreovirus
EYAV-Fr578	Eyach virus	AAM18342	Reoviridae	Coltivirus
GCRV-873	Grass carp reovirus	ADT79734	Reoviridae	Aquareovirus
GSRV	Golden shiner reovirus	AF403399	Reoviridae	Aquareovirus
KDV-Ja7075	Kadipiro virus	AAF78848	Reoviridae	Seadornavirus
MpRV	Micromonas pusilla reovirus	AAZ94042	Reoviridae	Mimoreovirus
MRV-1	Mammalian orthoreovirus 1	AAA47234	Reoviridae	Orthoreovirus
MRV-2	Mammalian orthoreovirus 2	AAA47245	Reoviridae	Orthoreovirus
NLRV-lz	Nilaparvata lugens reovirus	BAA08542	Reoviridae	Fijivirus
PoRV-C/Co	Porcine rotavirus C	AAB00801	Reoviridae	Rotavirus C
RaRV	Mycoreovirus 3	BAC98431	Reoviridae	Mycoreovirus
RDV-A	Rice dwarf virus-A	BAA14222	Reoviridae	Phytoreovirus
RDV-Ch	Rice dwarf virus-Ch	AAB18743	Reoviridae	Phytoreovirus
RRSV-Th	Rice ragged stunt virus	AAC36456	Reoviridae	Oryzavirus
SBRV	Striped bass reovirus	AAM93410	Reoviridae	Aquareovirus
SiRV-A/SA11	Simian rotavirus	AAC58684	Reoviridae	Rotavirus A

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BBWV	Broad bean wilt virus 1	NC_005289	Secoviridae	Fabavirus
CcloRNAV01	Cylindrotheca closterium RNA Virus 01	NA	Unassigned	Unassigned
CcloRNAV02	Cylindrotheca closterium RNA Virus 02	NA	Unassigned	Unassigned
CPMV	Cowpea mosaic virus	NC_003549	Secoviridae	Comovirus
CRLV	Cherry rasp leaf virus	NC_006271	Secoviridae	Cheravirus
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ToTV	Tomato torrado virus	NC_009013	Secoviridae	Torradovirus
MB1	2007 RdRP amplicon from Monterey Bay, CA	ABV29327	Unassigned	Unassigned
KB23	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29326	Unassigned	Unassigned
KB22	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29325	Unassigned	Unassigned
KB21	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29324	Unassigned	Unassigned
KB20	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29323	Unassigned	Unassigned
KB19	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29322	Unassigned	Unassigned
KB18	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29321	Unassigned	Unassigned
KB16	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29319	Unassigned	Unassigned
KB15	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29318	Unassigned	Unassigned
KB14	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29317	Unassigned	Unassigned
KB13	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29316	Unassigned	Unassigned
KB12	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29315	Unassigned	Unassigned
KB11	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29314	Unassigned	Unassigned
KB10	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29313	Unassigned	Unassigned
KB9	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29312	Unassigned	Unassigned
KB8	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29311	Unassigned	Unassigned
KB6	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29309	Unassigned	Unassigned
KB5	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29308	Unassigned	Unassigned
KB4	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29307	Unassigned	Unassigned
KB3	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29306	Unassigned	Unassigned
KB2	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29305	Unassigned	Unassigned
KB1	2007 RdRP amplicon from Kaneohe Bay, HI	ABV29304	Unassigned	Unassigned
B	2003 RdRP amplicon from the Strait of Georgia, BC	AAQ21147	Unassigned	Unassigned
C	2003 RdRP amplicon from the Strait of Georgia, BC	AAQ21158	Unassigned	Unassigned
D	2003 RdRP amplicon from the Strait of Georgia, BC	AAQ21156	Unassigned	Unassigned
JP5	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP6	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP9	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP11	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP16	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP20	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP32	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP62	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP162	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
JP1743	2006 RdRP assembled from Strait of Georgia, BC metagenome	DX420985-DX421142	Unassigned	Unassigned
Sc1Fr13012603R	RdRPsequence amplified with MplSc1 primers from 1.38 g/ml density fraction of 2009 virome	KC620972	Unassigned	Unassigned
Sc1Fr13012604R	RdRPsequence amplified with MplSc1 primers from 1.38 g/ml density fraction of 2009 virome	KC620973	Unassigned	Unassigned
Sc1Fr13012607R	RdRPsequence amplified with MplSc1 primers from 1.38 g/ml density fraction of 2009 virome	KC620974	Unassigned	Unassigned
Sc1Fr13012610R	RdRPsequence amplified with MplSc1 primers from 1.38 g/ml density fraction of 2009 virome	KC620975	Unassigned	Unassigned
Sc1Fr13012615R	RdRPsequence amplified with MplSc1 primers from 1.38 g/ml density fraction of 2009 virome	KC620976	Unassigned	Unassigned
Sc1Fr13012617R	RdRPsequence amplified with MplSc1 primers from 1.38 g/ml density fraction of 2009 virome	KC620977	Unassigned	Unassigned

