

# ICTV 5<sup>th</sup> Report

Francki, R. I. B., Fauquet, C. M., Knudson, D. L. & Brown, F. (eds) (1991). Classification and nomenclature of viruses. Fifth report of the International Committee on Taxonomy of Viruses. Archives of Virology Supplementum 2, 452 pp.

At this stage in the history of ICTV, there were no formal procedures for recognising and naming virus species and in some families/genera/groups there was a reluctance to use the term 'species'. Lists of species (or 'members') were revised when the Report was produced and sometimes differed substantially from the preceding Report. Occasionally, other changes to families, genera or groups were made that cannot otherwise be tracked in taxonomic decisions or minutes of the ICTV Executive Committee.

In the absence of any other documentation, this file lists the changes introduced by the 5<sup>th</sup> Report with page references.

## 1. Changes to genera and groups

[Family]	[Subfamily]	Genus/group	Change	Ref
Herpesviridae	Betaherpesvirinae	Human cytomegalovirus group	Renamed genus Cytomegalovirus	p107
Herpesviridae	Betaherpesvirinae	Murine cytomegalovirus group	Renamed genus Muromegalovirus	p107
Herpesviridae	Gammaherpesvirinae	Thetalymphecryptovirus	Unofficial genus abolished	p109
Reoviridae		Reovirus	Renamed genus Orthoreovirus	p187
Unassigned		Penicillium chrysogenum virus group	Group moved to family Partitiviridae	p209
Unassigned		Penicillium stoloniferum PsV-S group	Group abolished (single species moved to genus Partivirus)	p209
Unassigned		Cryptovirus subgroup A	Renamed Cryptovirus subgroup I	p213
Unassigned		Cryptovirus subgroup B	Renamed Cryptovirus subgroup II	p214
Bunyaviridae		Uukuvirus	Absorbed into genus Phlebovirus	p278

## 2. Change to genus assignment

Raccoonpox virus previously listed as Unassigned in subfamily Chordopoxvirinae, family Poxviridae is now listed as a member of genus Orthopoxvirus (p93).

Tanapox virus previously listed as Unassigned in subfamily Chordopoxvirinae, family Poxviridae is now listed as a member of genus Yatapoxvirus (p93).

As a consequence of splitting the genus Entomopoxvirus (family Poxviridae, subfamily Entomopoxvirinae), the viruses were all reassigned as follows. To genus Entomopoxvirus A (p99): Melolontha melolontha entomopoxvirus, Anomala cuprea entomopoxvirus, Aphodius tasmaniae entomopoxvirus, Demodema boranensis entomopoxvirus, Dermolepida albohirtum entomopoxvirus, Figulus sublaevis entomopoxvirus, Geotrupes sylvaticus entomopoxvirus. To genus Entomopoxvirus B (p100): Amscata moorei entomopoxvirus, Acrobasis zelleri entomopoxvirus, Choristoneura biennis entomopoxvirus, Choristoneura conflicta entomopoxvirus, Choristoneura diversuma entomopoxvirus, Chorizagrotis auxillaris entomopoxvirus, Melanoplus sanguinipes entomopoxvirus, Operophtera brumata entomopoxvirus. To genus Entomopoxvirus C (p100): Chironomus luridus entomopoxvirus, Aedes aegypti entomopoxvirus, Camptochironomus tentans entomopoxvirus, Chironomus attenuatus entomopoxvirus, Chironomus plumosus entomopoxvirus, Goeldichironomus holoprasinus entomopoxvirus, Oreopsyche angustella entomopoxvirus, Othnonius batesi entomopoxvirus, Phyllopertha horticola entomopoxvirus

Penicillium stoloniferum virus S, previously listed as member of the Penicillium stoloniferum PsV-S group is now listed as a member of genus Partitivirus, family Partitiviridae (p209).

Barmah Forest virus, previously listed in genus Bunyavirus, family Bunyaviridae is now listed as a member of genus Alphavirus, family Togaviridae (p218).

Avian reticuloendotheliosis virus, previously listed in Avian retrovirus group, family Retroviridae is now listed as a member of the Mammalian type C retrovirus group (p295).

The following phages, previously listed as members of the genus Levivirus are now removed from the genus and remain unassigned in the family Leviviridae (p308): Phage 7s, Phage alpha15, Phage B6, Phage B7, Phage beta, Phage fcan, Phage phiCb12r, Phage phiCb23r, Phage phiCb5, Phage phiCb8r, Phage phiCP18, Phage phiCP2, Phage phiCr14, Phage phiCr28, Phage PP7, Phage PRR1 (previously named PPR1), Phage R23, Phage R34, Phage ZG/1, Phage ZIK/1, Phage ZJ/1, Phage ZL/3, Phage ZS/3.

### 3. Species that were abolished (i.e. disappeared as fully-recognised members of their genus; the reference is to the genus list lacking these species or showing them only as possible/probable members of the genus)

Family	Genus	Species	Ref
Poxviridae	Parapoxvirus	Chamois contagious echthyma virus	p94
Poxviridae	Entomopoxvirus	Oreopsyche angustella entomopoxvirus	p99-100
Poxviridae	Entomopoxvirus	Orthmonius batesi entomopoxvirus	p99-100
Poxviridae	Entomopoxvirus	Phyllopertha horticola entomopoxvirus	p99-100
Poxviridae	Unassigned	Carnivorepox virus	p100
Poxviridae	Unassigned	Elephantpox virus	p100
Herpesviridae	Thetalymphocryptovirus	Gallid herpesvirus 2	p109
Herpesviridae	Thetalymphocryptovirus	Meleagrid herpesvirus	p109
Baculoviridae	Non-occluded baculoviruses	Apanteles melanoscelus virus	p121
Baculoviridae	Non-occluded baculoviruses	Hyposoter exiguae virus	p121
Adenoviridae	Aviadenovirus	Fowl adenovirus 3	p143
Adenoviridae	Aviadenovirus	Fowl adenovirus 4	p143
Adenoviridae	Aviadenovirus	Fowl adenovirus 5	p143
Adenoviridae	Aviadenovirus	Fowl adenovirus 6	p143
Adenoviridae	Aviadenovirus	Fowl adenovirus 7	p143
Adenoviridae	Aviadenovirus	Fowl adenovirus 8	p143
Adenoviridae	Aviadenovirus	Fowl adenovirus 9	p143
Corticoviridae	Corticovirus	Phage 06N 58P	p157
Podoviridae	T7 phage group	Phage Y	p163
Parvoviridae	Parvovirus	Parvovirus r-1	p169
Reoviridae	Reovirus	Canine reovirus	p187
Reoviridae	Reovirus	Simian reovirus	p187
Reoviridae	Orbivirus	Ife virus	p189
Reoviridae	Orbivirus	Japanant virus	p189
Reoviridae	Orbivirus	Llano Seco virus	p189
Reoviridae	Orbivirus	Orunga virus	p189
Reoviridae	Orbivirus	Paroo River virus	p189
Reoviridae	Orbivirus	T-50616 virus	p189
Reoviridae	Orbivirus	Umatilla virus	p189
Reoviridae	Aquareovirus	Turbot reovirus	p192
Totiviridae	Totivirus	Saccharomyces cerevisiae virus ScV2	p204
Togaviridae	Alphavirus	Bijou Bridge virus	p218

Togaviridae	Alphavirus	Cabassou virus	p218
Togaviridae	Alphavirus	Tonate virus	p218
Flaviviridae	Flavivirus	Batu Cave virus	p226-227
Paramyxoviridae	Paramyxovirus	Finch paramyxovirus	p244
Paramyxoviridae	Paramyxovirus	Parainfluenza virus 5	p244
Paramyxoviridae	Paramyxovirus	Parrot paramyxovirus	p244
Paramyxoviridae	Paramyxovirus	Turkey parainfluenza virus	p244
Paramyxoviridae	Paramyxovirus	Nariva virus	p245
Rhabdoviridae	Vesiculovirus	Vesicular stomatitis virus Argentina	p254
Bunyaviridae	Bunyavirus	Calovo virus	p275-276
Bunyaviridae	Bunyavirus	Jerry Slough virus	p275-276
Bunyaviridae	Bunyavirus	M'Poko virus	p275-276
Bunyaviridae	Nairovirus	Ganjam virus	p279-280
Bunyaviridae	Hantavirus	Girard Point virus	p280
Bunyaviridae	Hantavirus	Lee virus	p280
Bunyaviridae	Hantavirus	Sapporo rat virus	p280
Bunyaviridae	Hantavirus	Tchoupitoulas virus	p280
Retroviridae	Mamalian type C retrovirus group	Baboon type C oncovirus	p294
Retroviridae	Mamalian type C retrovirus group	Rat type C oncovirus	p294
Retroviridae	Avain retrovirus group	Pheasant type C oncoviruses	p296
Retroviridae	Lentivirus	Progressive pneumonia virus	p298
Retroviridae	Lentivirus	Zwoogerziekte virus	p298
Unassigned	Carmovirus group	Glycine mottle virus	p304
Picornaviridae	Rhinovirus	Human rhinoviruses 101-113	p323
Tetraviridae	Unassigned	Antheraea beta virus	p331
Tetraviridae	Unassigned	Darna beta virus	p331
Tetraviridae	Unassigned	Philosamia beta virus	p331
Tetraviridae	Unassigned	Thosea beta virus	p331
Tetraviridae	Unassigned	Trichoplusia beta virus	p331
Unassigned	Tymovirus group	Andean potato latent virus	p337
Unassigned	Closterovirus group	Grapevine stem-pitting associated virus	p346
Unassigned	Closterovirus group	Lilac chlorotic leafspot virus	p346
Unassigned	Potexvirus group	Boussingaultia mosaic virus	p349
Unassigned	Potexvirus group	Cassava common mosaic virus	p349
Unassigned	Potyvirus group	Pepper mottle virus	p353

#### 4. Species names that disappeared by merging or splitting

Family	Genus	Old species	New species	Ref
Poxviridae	Orthopoxvirus	Buffalopox virus	Vaccinia virus	p93
Poxviridae	Orthopoxvirus	Rabbitpox virus	Vaccinia virus	p93
Reoviridae	Fijivirus	Arrhenatherum blue dwarf virus	Oat sterile dwarf virus	p196
Reoviridae	Fijivirus	Cereal tillering disease virus	Maize rough dwarf virus	p196
Reoviridae	Fijivirus	Lolium enation virus	Oat sterile dwarf virus	p196
Reoviridae	Fijivirus	Pangola stunt virus	Maize rough dwarf virus	p196
Reoviridae	Fijivirus	Rice black-streaked dwarf virus	Maize rough dwarf virus	p196
Totiviridae	Totivirus	Ustilago maydis virus	Ustilago maydis virus 1	p204
			Ustilago maydis virus 4	
			Ustilago maydis virus 6	
Retroviridae	HTLV-BLV group	Human T-lymphotropic viruses	Human T-cell lymphotropic virus 1	p297
			Human T-cell lymphotropic virus 2	
Retroviridae	Lentivirus	Maedi virus	Visna/Maedi virus	p298
Retroviridae	Lentivirus	Visna virus	Visna/Maedi virus	p298
Unassigned	Carlavirus group	Pepino latent virus	Potato virus S	p342

Unassigned	Luteovirus group	Beet mild yellowing virus	Beet western yellows virus	p310
Unassigned	Luteovirus group	Legume yellows virus	Bean leaf roll virus	p310
Unassigned	Luteovirus group	Malva yellows virus	Beet western yellows virus	p310
Unassigned	Luteovirus group	Pea leaf roll virus	Bean leaf roll virus	p310
Unassigned	Luteovirus group	Rice giallume virus	Barley yellow dwarf virus	p310
Unassigned	Luteovirus group	Solanum yellows virus	Potato leaf roll virus	p310
Unassigned	Luteovirus group	Subterranean clover red leaf virus	Soybean dwarf virus	p310
Unassigned	Luteovirus group	Turnip yellows virus	Beet western yellows virus	p310
Unassigned	Potyvirus group	Bearded iris mosaic virus	Iris severe mosaic virus	p353
Unassigned	Potyvirus group	Watermelon mosaic virus 1	Papaya ringspot virus	p353
Unassigned	Tobamovirus group	Cucumber virus 4	Cucumber green mottle mosaic virus	p358

## 5. Species that were re-named

<b>Family</b>	<b>Genus</b>	<b>Old name</b>	<b>New name</b>	<b>Ref</b>
Poxviridae	Parapoxvirus	Bovine pustular stomatitis virus	Stomatitis papulosa virus	p94
Poxviridae	Parapoxvirus	Milker's node virus	Pseudocowpox virus	p94
Poxviridae	Avipoxvirus	Canary pox virus	Canarypox virus	p95
Poxviridae	Avipoxvirus	Junco pox virus	Juncopox virus	p95
Poxviridae	Avipoxvirus	Pigeon pox virus	Pigeonpox virus	p95
Poxviridae	Avipoxvirus	Quail pox virus	Quailpox virus	p95
Poxviridae	Avipoxvirus	Sparrow pox virus	Sparrowpox virus	p95
Poxviridae	Avipoxvirus	Starling pox virus	Starlingpox virus	p95
Poxviridae	Avipoxvirus	Turkey pox virus	Turkeypox virus	p95
Poxviridae	Capripoxvirus	Sheep pox virus	Sheeppox virus	p96
Poxviridae	Capripoxvirus	Goat pox virus	Goatpox virus	p96
Herpesviridae	Simplexvirus	Bovid herpesvirus 2	Bovine herpesvirus 2	p106
Herpesviridae	Varicellovirus	Bovid herpesvirus 1	Bovine herpesvirus 1	p106
Herpesviridae	Varicellovirus	Equid herpesvirus 1	Equine herpesvirus 1	p106
Herpesviridae	Varicellovirus	Equid herpesvirus 4	Equine herpesvirus 4	p106
Plasmaviridae	Plasmavirus	Phage MV-L2	Acholeplasma phage L2	p124
Iridoviridae	Iridovirus	Tipula iridescent virus	Iridescent virus 1	p133
Papovaviridae	Polyomavirus	RKV virus	Rabbit kidney vacuolating virus	p148
Corticoviridae	Corticovirus	Phage PM2	Alteromonas phage PM2	p157
Siphoviridae	Lambda phage group	Phage PA2	Phage PA-2	p163
Parvoviridae	Parvovirus	Minute of mice virus	Minute virus of mice	p168
Parvoviridae	Parvovirus	H1 virus	H-1 virus	p169
Parvoviridae	Densovirus	Densovirus of Galleria mellonella	Galleria densovirus	p171
Parvoviridae	Densovirus	Densovirus of Junonia	Junonia densovirus	p171
Reoviridae	Orbivirus	Epizootic disease of deer virus	Epizootic hemorrhagic disease virus	p189
Reoviridae	Aquareovirus	13p2 virus of oysters	13p2 reovirus	p192
Reoviridae	Cypovirus	Abraxas grossulariata cytoplasmic polyhedrosis virus 8	Cypovirus type 8	p194
Reoviridae	Cypovirus	Actias selene cytoplasmic polyhedrosis virus 4	Cypovirus type 4	p194
Reoviridae	Cypovirus	Agrotis segetum cytoplasmic polyhedrosis virus 9	Cypovirus type 9	p194
Reoviridae	Cypovirus	Aporophylla lutulenta cytoplasmic polyhedrosis virus 10	Cypovirus type 10	p194
Reoviridae	Cypovirus	Biston betularia cytoplasmic polyhedrosis virus 6	Cypovirus type 6	p194
Reoviridae	Cypovirus	Inachis io cytoplasmic polyhedrosis virus 2	Cypovirus type 2	p194
Reoviridae	Cypovirus	Spodoptera exempta cytoplasmic	Cypovirus type 12	p194

Reoviridae	Cypovirus	polyhedrosis virus 12 Spodoptera exempta cytoplasmic polyhedrosis virus 3	Cypovirus type 3	p194
Reoviridae	Cypovirus	Spodoptera exigua cytoplasmic polyhedrosis virus 11	Cypovirus type 11	p194
Reoviridae	Cypovirus	Tiphena pronuba cytoplasmic polyhedrosis virus 7	Cypovirus type 7	p194
Reoviridae	Cypovirus	Trichoplusia ni cytoplasmic polyhedrosis virus 5	Cypovirus type 5	p194
Totiviridae	Totivirus	Saccharomyces cerevisiae virus LA	Saccharomyces cerevisiae virus L-A	p203
Flaviviridae	Flavivirus	St. Louis virus	St. Louis encephalitis virus	p226
Flaviviridae	Flavivirus	Edgehill virus	Edge Hill virus	p227
Flaviviridae	Pestivirus	Mucosal disease virus	Bovine viral diarrhea virus	p228
Coronaviridae	Coronavirus	Porcine hemagglutinating encephalitis virus	Porcine hemagglutinating encephalomyelitis virus	p235
Rhabdoviridae	Vesiculovirus	Vesicular stomatitis virus Cocal	Cocal virus	p253
Paramyxoviridae	Paramyxovirus	Yucaipa virus	Avian paramyxovirus 2	p244
Rhabdoviridae	Vesiculovirus	Vesicular stomatitis virus Brazil	Vesicular stomatitis Alagoas virus	p254
Rhabdoviridae	Vesiculovirus	Vesicular stomatitis virus New Jersey	Vesicular stomatitis New Jersey virus	p254
Orthomyxoviridae	Influenza type C viruses	Influenza type C virus	Influenza virus C	p270
Retroviridae	Mamalian type C retrovirus group	Viper type C oncovirus	Viper retrovirus	p295
Leviviridae	Unassigned	Phage PPR1	Phage PRR1	p308
Unassigned	Tymovirus group	Peanut yellow mottle virus	Peanut yellow mosaic virus	p337
Unassigned	Potexvirus group	Plantago virus X	Plantain virus X	p349
Unassigned	Tobamovirus group	Sunnhemp mosaic virus	Sunn-hemp mosaic virus	p358
Unassigned	Tobamovirus group	U2-tobacco mosaic virus	Tobacco mild green mosaic virus	p358
Unassigned	Nepovirus group	Cherry leafroll virus	Cherry leaf roll virus	p370
Unassigned	Furovirus group	Potato mop top virus	Potato mop-top virus	p378
Unassigned	Iarvirus group	North American plum line pattern virus	American plum line pattern virus	p390

## 6. New genera and groups that are listed

Genus/ group name	Family	Reference
Entomopoxvirus A*	Poxviridae	p99
Entomopoxvirus B*	Poxviridae	p100
Entomopoxvirus C*	Poxviridae	p100
Orthohepadnavirus	Hepadnaviridae	p115
Avihepadnavirus	Hepadnaviridae	p115
Plant reovirus subgroup 3	Reoviridae	p197
Hepatitis virus C group	Flaviviridae	p230
Hepatovirus	Picornaviridae	p322
Viroids	-	p403

\* By splitting the existing genus Entomopoxvirus

## 7. New species that are listed

<b>Family</b>	<b>Subfamily</b>	<b>Genus</b>	<b>Species</b>	<b>Ref</b>
Poxviridae	Chordopoxvirinae	Orthopoxvirus	Taterapox virus	p93
Poxviridae	Chordopoxvirinae	Avipoxvirus	Psittacinepox virus	p95
Poxviridae	Entomopoxvirinae	Entomopoxvirus B	Arphia conspersa entomopoxvirus	p100
Poxviridae	Entomopoxvirinae	Entomopoxvirus B	Locusta migratoria entomopoxvirus	p100
Poxviridae	Entomopoxvirinae	Entomopoxvirus B	Oedaleus senegalensis entomopoxvirus [because of a typographical error listed as Oedaleus senegalensis]	p100
Poxviridae	Entomopoxvirinae	Entomopoxvirus B	Schistocerca gregaria entomopoxvirus	p100
Hepadnaviridae		Orthohepadnavirus	Hepatitis B virus	p115
Hepadnaviridae		Orthohepadnavirus	Woodchuck hepatitis B virus	p115
Hepadnaviridae		Orthohepadnavirus	Ground squirrel hepatitis B virus	p115
Hepadnaviridae		Avihepadnavirus	Duck hepatitis B virus	p115
Hepadnaviridae		Avihepadnavirus	Heron hepatitis B virus	p115
Baculoviridae	Eubaculovirinae	Nuclear polyhedrosis viruses MNPV subgenus	Choristoneura fumiferana multiple nuclear polyhedrosis virus	p119
Baculoviridae	Eubaculovirinae	Nuclear polyhedrosis viruses MNPV subgenus	Mamestra brassicae multiple nuclear polyhedrosis virus	p119
Baculoviridae	Eubaculovirinae	Nuclear polyhedrosis viruses MNPV subgenus	Orgyia pseudotsugata multiple nuclear polyhedrosis virus	p119
Baculoviridae	Eubaculovirinae	Nuclear polyhedrosis viruses SNPV subgenus	Heliothis zea single nuclear polyhedrosis virus	p119
Baculoviridae	Eubaculovirinae	Nuclear polyhedrosis viruses SNPV subgenus	Trichoplusia ni single nuclear polyhedrosis virus	p119
Baculoviridae	Eubaculovirinae	Granulosis viruses	Pieris brassicae granulosis virus	p120
Baculoviridae	Eubaculovirinae	Granulosis viruses	Artogeia rapae granulosis virus	p120
Baculoviridae	Eubaculovirinae	Granulosis viruses	Cydia pomonella granulosis virus	p120
Iridoviridae		Iridovirus	Iridescent virus 30	p133
Iridoviridae		Iridovirus	Iridescent virus 31	p133
Iridoviridae		Iridovirus	Iridescent virus 32	p133
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus NE-8D	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus NYb1	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus CA4B	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus AL1A	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus NY2C	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus NC1D	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus NC1C	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus CA1A	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus CA2A	p138
Phycodnaviridae		Phycodnavirus	Paramecium bursaria Chlorella virus IL2A	p138

Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus IL2B	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus IL3A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus IL3D	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus SC1A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus SC1B	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NC1A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NE8A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus AL2C	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus MA1E	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NY2F	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus CA1D	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NC1B	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NYs1	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus IL5-2s1	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus AL2A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus MA1D	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NY2B	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus CA4A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus NY2A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus XZ3A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus SH6A	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus BJ2C	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus XZ6E	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus XZ4C	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus XZ5C	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus XZ4A	p138
Phycodnaviridae	Phycodnavirus	Hydra viridis Chlorella virus 1	p138
Phycodnaviridae	Phycodnavirus	Hydra viridis Chlorella virus 2	p138
Phycodnaviridae	Phycodnavirus	Hydra viridis Chlorella virus 3	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus A1	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus B1	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus G1	p138

Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus M1	p138
Phycodnaviridae	Phycodnavirus	Paramecium bursaria Chlorella virus R1	p138
Adenoviridae	Mastadenovirus	Human adenovirus 35	p142
Adenoviridae	Mastadenovirus	Human adenovirus 36	p142
Adenoviridae	Mastadenovirus	Human adenovirus 37	p142
Adenoviridae	Mastadenovirus	Human adenovirus 38	p142
Adenoviridae	Mastadenovirus	Human adenovirus 39	p142
Adenoviridae	Mastadenovirus	Human adenovirus 40	p142
Adenoviridae	Mastadenovirus	Human adenovirus 41	p142
Adenoviridae	Mastadenovirus	Human adenovirus 42	p142
Adenoviridae	Mastadenovirus	Human adenovirus 43	p142
Adenoviridae	Mastadenovirus	Human adenovirus 44	p142
Adenoviridae	Mastadenovirus	Human adenovirus 45	p142
Adenoviridae	Mastadenovirus	Human adenovirus 46	p142
Adenoviridae	Mastadenovirus	Human adenovirus 47	p142
Adenoviridae	Mastadenovirus	Bovine adenovirus 10	p142
Adenoviridae	Mastadenovirus	Ovine adenovirus 6	p142
Adenoviridae	Mastadenovirus	Canine adenovirus 2	p142
Adenoviridae	Mastadenovirus	Murine adenovirus 2	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 2	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 1	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 10	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 11	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 12	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 13	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 14	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 15	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 16	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 17	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 18	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 19	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 20	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 21	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 22	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 23	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 24	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 25	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 26	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 27	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 3	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 4	p142
Adenoviridae	Mastadenovirus	Simian adenovirus 5	p142
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