**Table S1**. The viral genome information used in phylogenic analysis and Dot plot comparisons

| Strain | Full name | Host | Location | Yeara | Accession number | Reference |
| --- | --- | --- | --- | --- | --- | --- |
| ADRVb | *AndriasDavidianus Ranavirus* | *Andrias davidianus* | China | 2010 | KC865735 | [1] |
| ATV | *Ambystoma Tigrinum Virus* | *Ambystoma tigrinum* | USA | 1995 | AY150217 | [2] |
| BIV | *Bohle Iridovirus* | *Limnodynastes ornatus* | Australia | 1992 | KX185156 | [3] |
| CGSIV-HN2011b | *Chinese Giant Salamander Iridovirus* | *Andrias davidianus* | China | 2011 | KF512820 | [4] |
| CGSIV-2010SXb | *Chinese Giant Salamander Iridovirus* | *Andrias davidianus* | China | 2010 | KF033124 | [5] |
| CH8/96 | *Testudo hermanni ranavirus* | *Testudo hermanni* | Germany | 1996 | KP266741 | [6] |
| CMTV-E | *Common Midwife Toad Virus* | *Mesotriton alpestris cyreni* | Spain | 2008 | JQ231222 | [7] |
| CMTV-NL | *Common Midwife Toad Virus* | *Pelophylax esculentus* | Netherlands | 2013 | KP056312 | [8] |
| CoIV | *Cod Iridovirus* | *Gadus morhua* | Danish | 1979 | KX574342 | [9] |
| EHNV | *Epizootic Hematopoietic Necrosis Virus* | *Perca Fluviatilis*, *Oncorhynchus mykIss* | Australia | 1986 | FJ433873 | [10] |
| ESV | *European Catfish Virus* | *Silurus glanis* | Germany | 1989 | JQ724856 | [11] |
| FV3 | *Frog Virus 3* | *Rana pipiens* | USA | 1962 | AY548484 | [12] |
| GGRV | *German gecko ranavirus* | *Uroplatus fimbriatus* | Germany | 2001 | KP266742 | [6] |
| GIV | *Grouper Iridovirus* | *Epinephelus awoara* | Taiwan, China |  | AY666015 | [13] |
| PEV | *Pelophylax esculentus virus* | *Pelophylax esculentus* | Denmark | 2008 | MF538627 | [14] |
| PPIV | *Pike-Perch Iridovirus* | *Sander lucioperca* | Finland | 1995 | KX574341 | [15] |
| RCV-Z | *Rana catesbeiana virus* | *Lithobates catesbeianus* | USA | 1998 | MF187210 | [16] |
| RCV-Z2 | *Rana catesbeiana virus* | *Lithobates catesbeianus* | USA | 2006 | MF187209 | [16] |
| REV | *Rana esculenta virus* | *Pelophylax esculentus* | Italy | 2002 | MF538628 | [14] |
| RGV | *Rana Grylio Virus* | *Rana Grylio* | China | 1999 | JQ654586 | [17] |
| Rmax | Ranavirus maximus | *Scophthalmus maximus* | Denmark | 1999 | KX574343 | [18] |
| RNRV | *Rana nigromaculata ranavirus* | *Rana nigromaculata* | Sichuan, China | 2016 | MG791866 | [19] |
| SERV | *Short-finned eel ranavirus* | *Anguilla austali* | Italy | 1999 | KX353311 | [20] |
| SGIV | *Singapore Grouper Iridovirus* | Singapore grouper | Singapore | 1998 | AY521625 | [21] |
| SSME | *spotted salamander - Maine* | *Ambystoma maculatum* | USA | 1998 | KJ175144 | [22] |
| STIV | *Soft-Shelled Turtle Virus* | Trionyx sinensis | China | 1997 | EU627010 | [23] |
| TCA | *Terrapene carolina carolina ranavirus* | *Terrapene carolina* | USA | - | MG953518 | [24] |
| TFV | *Tiger Frog Virus* | *Rana tigrina rugulosa* | China | 1999 | AF389451 | [25] |
| TMRV01 | *Trioceros melleri ranavirus* | *Trioceros melleri* | USA | - | MG953519 | [24] |
| TMRV02 | *Trioceros melleri ranavirus* | *Trioceros melleri* | USA | - | MG953520 |
| ToRV | *Tortoise ranavirus* | *Testudo kleinmann* | Germany | 1996 | KP266743 | [6] |
| ZRV | *zoo ranavirus* | *Anaxyrus boreas boreas* | USA |  | MK227779 | [26] |

a: Time of viral isolation.

b: ADRV was also known as Chinese giant salamander iridovirus (CGSIV)

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