This Word module should be used for all taxonomic proposals.

Please complete **Part 1** and:

either **Part 3** for proposals to create new taxa or change existing taxa

or **Part 2** for proposals of a general nature.

Submit the completed Word module, together with the accompanying Excel module named in Part 3, to the appropriate ICTV Subcommittee Chair.

For guidance, see the notes written in blue, below, and the help notes in file Taxonomic\_Proposals\_Help\_2018.

**Part 1:** **TITLE, AUTHORS, etc**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code assigned:** | ***2018.015M*** | | (to be completed by ICTV officers) |
| **Short title:** Two (2) new genera each including one (1) novel species in the family *Filoviridae* (*Mononegavirales*) | | | |
|  | | | |
| **Author(s):** | | | |
| The ICTV *Filoviridae* Study Group:  Amarasinghe, Gaya; [gamarasinghe@wustl.edu](mailto:gamarasinghe@wustl.edu)  Basler, Christopher; [cbasler@gsu.edu](mailto:cbasler@gsu.edu)  Bavari, Sina; [sina.bavari.civ@mail.mil](mailto:sina.bavari.civ@mail.mil)  Bukreyev, Alexander A.; [abukreye@utmb.edu](mailto:abukreye@utmb.edu)  Chandran, Kartik; [kartik.chandran@einstein.yu.edu](mailto:kartik.chandran@einstein.yu.edu)  Crozier, Ian; [ian.crozier@nih.gov](mailto:ian.crozier@nih.gov)  Dolnik, Olga; [Dolnik@staff.uni-marburg.de](mailto:Dolnik@staff.uni-marburg.de)  Dye, John M.; [John.m.dye1.civ@mail.mil](mailto:John.m.dye1.civ@mail.mil)  Formenty, Pierre B. H.; [formentyp@who.int](mailto:formentyp@who.int)  Griffiths, Anthony; [agriffiths@TxBiomed.org](mailto:agriffiths@TxBiomed.org)  Hewson, Roger; [roger.hewson@phe.gov.uk](mailto:roger.hewson@phe.gov.uk)  Kobinger, Gary; [Gary.Kobinger@crchudequebec.ulaval.ca](mailto:Gary.Kobinger@crchudequebec.ulaval.ca)  Kuhn, Jens H.; [kuhnjens@mail.nih.gov](mailto:kuhnjens@mail.nih.gov)  Leroy, Eric M.; [eric.leroy@ird.fr](mailto:eric.leroy@ird.fr)  Mühlberger, Elke; [muehlber@bu.edu](mailto:muehlber@bu.edu)  Netesov, Sergey V. (Нетёсов, Сергей Викторович); [netesov.s@nsu.ru](mailto:netesov.s@nsu.ru)  Palacios, Gustavo; [gustavo.f.palacios.ctr@mail.mil](mailto:gustavo.f.palacios.ctr@mail.mil)  Pályi, Bernadett; [palyi.bernadett@oki.antsz.hu](mailto:palyi.bernadett@oki.antsz.hu)  Pawęska, Janusz T.; [januszp@nicd.ac.za](mailto:januszp@nicd.ac.za)  Smither, Sophie; [sjsmither@mail.dstl.gov.uk](mailto:sjsmither@mail.dstl.gov.uk)  Takada, Ayato (高田礼人); [atakada@czc.hokudai.ac.jp](mailto:atakada@czc.hokudai.ac.jp)  Towner, Jonathan S.; [jit8@cdc.gov](mailto:jit8@cdc.gov)  Wahl, Victoria; [Victoria.Wahl@NBACC.DHS.GOV](mailto:Victoria.Wahl@NBACC.DHS.GOV)  And:  Zhāng, Tāo (张韬); [zhangtao17m@big.ac.cn](mailto:zhangtao17m@big.ac.cn)  Bào, Yīmíng (鲍一明); [baoym@big.ac.cn](mailto:baoym@big.ac.cn)  And:  Shī, Mǎng (施莽); [mang.shi@sydney.edu.au](mailto:mang.shi@sydney.edu.au)  Holmes, Edward; [edward.holmes@sydney.edu.au](mailto:edward.holmes@sydney.edu.au)  Zhāng, Yǒngzhèn (张永振), [zhangyongzhen@icdc.cn](mailto:zhangyongzhen@icdc.cn) | | | |
| **Corresponding author with e-mail address:** | | | |
| Kuhn, Jens H.; [kuhnjens@mail.nih.gov](mailto:kuhnjens@mail.nih.gov) | | | |
| **List the ICTV study group(s) that have seen this proposal:** | | | |
| A list of study groups and contacts is provided at <http://www.ictvonline.org/subcommittees.asp> . If in doubt, contact the appropriate subcommittee chair (there are six virus subcommittees: animal DNA and retroviruses, animal ssRNA-, animal ssRNA+, fungal and protist, plant, bacterial and archaeal) | | ICTV *Filoviridae* Study Group | |
| **ICTV Study Group comments (if any) and response of the proposer:** | | | |
|  | | | |
|  | | | |
| Date first submitted to ICTV: | | | June 6, 2018 |
| Date of this revision (if different to above): | | |  |

|  |
| --- |
| **ICTV-EC comments and response of the proposer:** |
|  |

**Part 3:** **PROPOSED TAXONOMY**

|  |
| --- |
| **Name of accompanying Excel module: 2018.015M.N.v1.Filoviridae\_2gen** |

**Supporting material:**

Recently, during metagenomic study of fish (Shi *et al*.), two virus genomes were uncovered that have striking similarities to filovirus genomes. The first virus, tentatively named “Wēnlǐng frogfish filovirus”, was found in striated frogfish (also known as hairy frogfish, striated dogfish, hairy dogfish; Actinopterygii: Lophiiformes: Antennariidae: *Antennarius striatus*) and has a coding-complete genome of 17.2 kb in length. The second virus, tentatively named Wēnlǐng thamnaconus septentrionalis filovirus, was found in a filefish (Actinopterygii: Tetraodontiiformes: Monacathidae: *Thamnaconus septentrionalis*) and has a coding-complete genome of 14.2 kb in length. Both coding-complete genome sequences have been deposited to GenBank; no attempts to isolate the viruses have been reported.

Phylogenetic analysis of the palm domain of the RNA-dependent RNA polymerase clearly places both viruses within the family *Filoviridae* immediately ancestral to members of the current filovirus genera *Cuevavirus*, *Marburgvirus*, and *Ebolavirus*—all of which are thought to be mammalian in origin (Fig. 1). Likewise, analysis of individual open reading frames of the fish filovirus genomes firmly confirms the relationship of these viruses to classified filoviruses. For instance, in the case of “Wēnlǐng frogfish filovirus”, the N (NP), M (VP40), VP30, and L proteins are homologous to the respective classical filovirus genes, whereas in the case of “Wēnlǐng thamnaconus septentrionalis filovirus” only the N (NP) and L proteins are homologous (Figure 1). Yet, both fish filoviruses are only distantly related to each other, probably reflecting the very distant relationship of their fish hosts, and the genomic organizations of both viruses differ from classic filoviruses.

**Figure 1.** Phylogeny and genome structures of filoviruses (modified from Shi *et al*.).

C:\Users\kuhnjens\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Filo_temp.tiff

In 2017, the ICTV *Filoviridae* Study Group established filovirus taxon demarcation criteria based on the US National Center for Biotechnology Information (NCBI) Pairwise Sequence Comparison (PASC) tool. Genus demarcation was set at the 55–58% sequence diversity threshold range and species demarcation was set at the 23–36% sequence diversity threshold. Using RefSeq “type” filovirus genome sequences, an algorithm was established for streamlined filovirus classification (Fig. 2).

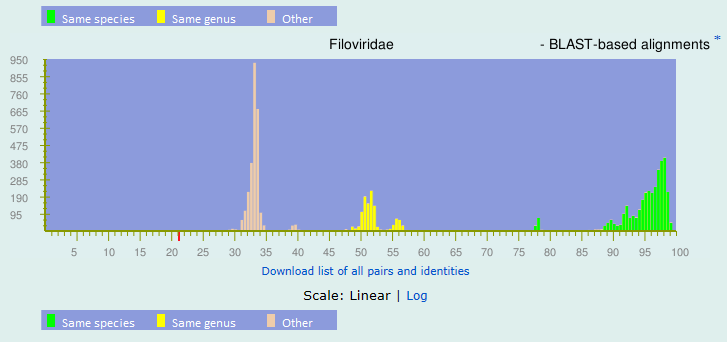
**Figure 2.** Algorithm/flow chart for filovirus classification based on genomics sequence information and PASC-derived sequence demarcation criteria established by the ICTV *Filoviridae* Study Group (Bào *et al*.). A putative filovirus genome of interest is compared to the type filovirus RefSeq genome sequence (i.e., that of Marburg virus/H.sapiens-tc/KEN/1980/Mt. Elgon-Musoke) and then sequentially moved through the process until its proper taxonomic placement is revealed or the need to create novel taxa is obvious.

****

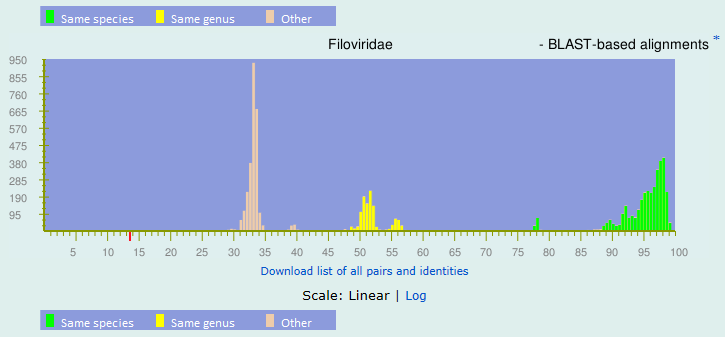
PASC analysis using the coding-complete genome sequences of both fish filoviruses revealed that “Wēnlǐng frogfish filovirus” is most closely related to Reston virus (21.2% sequence identity); that “Wēnlǐng thamnaconus septentrionalis filovirus” is most closely related to Sudan virus (13.57% sequence identity), and that both viruses share little similarity to each other (<15% sequence identity; Fig. 3).

**Figure 3.** Screenshots of the US National Center for Biotechnology Information (NCBI) PAirwise

Sequence Comparison (PASC) tool result after comparing distinct near-complete, coding-complete or complete filovirus genome sequences. Top: PASC results for “Wēnlǐng frogfish filovirus”. Middle: PASC results for “Wēnlǐng thamnaconus septentrionalis filovirus”. Bottom: PASC results using both viruses. Brown bars represent genome pairs assigned to (the three established) different genera; yellow bars represent genome pairs assigned to (the seven established) separate species; and green bars represent genome pairs assigned to the same established species. BLAST: Basic Local Alignment.



|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Top matches for [gi|1359120901|gb|MG599980.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1359120901) “Wēnlǐng frogfish filovirus” strain XYHYS28627 nucleoprotein, hypothetical protein, matrix protein, hypothetical protein, putative glycoprotein 1, putative glycoprotein 2, VP30, hypothetical protein, and L protein genes, complete cds: | | | | | | | | | |
| BLAST-based alignments | | | | |  |  |  |  |  |
| **1** |  | [**21.12%**](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=0) |  | [**gi|1199302436|gb|KY798007.1|**](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1199302436)[**Ebolavirus**](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)**|**[**Reston ebolavirus**](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539) |  | | | | |
| [2](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=1&scale=Linear) |  | [21.05%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=1) |  | [gi|15823608|dbj|AB050936.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15823608) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  | | | | |
| [3](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=2&scale=Linear) |  | [21.02%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=2) |  | [gi|22789222|ref|NC\_004161.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=22789222) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539) |  | | | | |
| [4](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=3&scale=Linear) |  | [21%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=3) |  | [gi|151564206|gb|EF446131.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=151564206) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Ravn virus - Ravn, Kenya, 1987](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378809) |  | | | | |
| [5](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=4&scale=Linear) |  | [20.88%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=4) |  | [gi|409194062|gb|JX458857.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=409194062) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [6](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=5&scale=Linear) |  | [20.78%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=5) |  | [gi|91177767|gb|DQ447652.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=91177767) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Lake Victoria marburgvirus - DRC1999](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378831) |  | | | | |
| [7](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=6&scale=Linear) |  | [20.46%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=6) |  | [gi|253317737|gb|FJ621585.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=253317737) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  | | | | |
| [8](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=7&scale=Linear) |  | [20.33%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=7) |  | [gi|254688035|gb|FJ750953.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=254688035) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [9](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=8&scale=Linear) |  | [20.28%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=8) |  | [gi|499104232|gb|KC545393.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=499104232) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Bundibugyo ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=565995) |  | | | | |
| [10](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=9&scale=Linear) |  | [20%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=9) |  | [gi|253317728|gb|FJ621584.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=253317728) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  | | | | |
| [11](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=10&scale=Linear) |  | [19.99%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=10) |  | [gi|254688059|gb|FJ750956.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=254688059) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [12](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=11&scale=Linear) |  | [19.92%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=11) |  | [gi|253317719|gb|FJ621583.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=253317719) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  | | | | |
| [13](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=12&scale=Linear) |  | [19.86%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=12) |  | [gi|302315369|ref|NC\_014372.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=302315369) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Tai Forest ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186541) |  | | | | |
| [14](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=13&scale=Linear) |  | [19.66%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=13) |  | [gi|355469071|ref|NC\_016144.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=355469071) [Cuevavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=1513236)|[Lloviu cuevavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=1513237) |  | | | | |
| [15](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=14&scale=Linear) |  | [19.63%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2601851_130.14.22.10_9000_Pasc&idx=14) |  | [gi|91177679|gb|DQ447653.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=91177679) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Lake Victoria marburgvirus - Angola2005](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378830) |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Top matches for [gi|1359120912|gb|MG599981.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1359120912) “Wēnlǐng thamnaconus septentrionalis filovirus” strain LQMMTII17328 hypothetical protein, nucleoprotein, hypothetical protein, putative glycoprotein, hypothetical protein, and L protein genes, complete cds: | | | | | | | | | |
| BLAST-based alignments | | | | |  |  |  |  |  |
| **1** |  | [**13.57%**](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=0) |  | [**gi|165940954|gb|EU338380.1|**](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=165940954)[**Ebolavirus**](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)**|**[**Sudan ebolavirus**](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186540) |  | | | | |
| [2](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=1&scale=Linear) |  | [13.52%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=1) |  | [gi|91177679|gb|DQ447653.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=91177679) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Lake Victoria marburgvirus - Angola2005](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378830) |  | | | | |
| [3](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=2&scale=Linear) |  | [13.39%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=2) |  | [gi|1124891100|gb|KY047764.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1124891100) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [4](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=3&scale=Linear) |  | [13.03%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=3) |  | [gi|355469071|ref|NC\_016144.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=355469071) [Cuevavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=1513236)|[Lloviu cuevavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=1513237) |  | | | | |
| [5](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=4&scale=Linear) |  | [13.02%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=4) |  | [gi|973433588|gb|KU296628.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=973433588) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [6](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=5&scale=Linear) |  | [12.98%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=5) |  | [gi|768029139|gb|KF113528.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=768029139) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [7](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=6&scale=Linear) |  | [12.88%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=6) |  | [gi|973431317|gb|KU296327.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=973431317) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [8](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=7&scale=Linear) |  | [12.88%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=7) |  | [gi|10313991|ref|NC\_002549.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=10313991) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [9](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=8&scale=Linear) |  | [12.86%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=8) |  | [gi|33860540|gb|AY354458.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=33860540) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [10](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=9&scale=Linear) |  | [12.86%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=9) |  | [gi|302315369|ref|NC\_014372.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=302315369) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Tai Forest ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186541) |  | | | | |
| [11](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=10&scale=Linear) |  | [12.86%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=10) |  | [gi|930627076|gb|KT725292.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=930627076) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [12](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=11&scale=Linear) |  | [12.84%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=11) |  | [gi|685509613|gb|KM519951.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=685509613) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [13](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=12&scale=Linear) |  | [12.76%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=12) |  | [gi|22789222|ref|NC\_004161.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=22789222) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539) |  | | | | |
| [14](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=13&scale=Linear) |  | [12.76%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=13) |  | [gi|783070230|gb|KR006953.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=783070230) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [15](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=14&scale=Linear) |  | [12.76%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737720_130.14.18.6_9000_Pasc&idx=14) |  | [gi|253317728|gb|FJ621584.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=253317728) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Top matches for [gi|1359120901|gb|MG599980.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1359120901) “Wēnlǐng frogfish filovirus” strain XYHYS28627 nucleoprotein, hypothetical protein, matrix protein, hypothetical protein, putative glycoprotein 1, putative glycoprotein 2, VP30, hypothetical protein, and L protein genes, complete cds: | | | | | | | | | |
| BLAST-based alignments | | | | |  |  |  |  |  |
| 1 |  | [21.12%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=0) |  | [gi|1199302436|gb|KY798007.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1199302436) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539) |  | | | | |
| [2](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=1&scale=Linear) |  | [21.05%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=1) |  | [gi|15823608|dbj|AB050936.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=15823608) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  | | | | |
| [3](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=2&scale=Linear) |  | [21.02%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=2) |  | [gi|22789222|ref|NC\_004161.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=22789222) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539) |  | | | | |
| [4](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=3&scale=Linear) |  | [21%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=3) |  | [gi|151564206|gb|EF446131.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=151564206) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Ravn virus - Ravn, Kenya, 1987](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378809) |  | | | | |
| [5](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=4&scale=Linear) |  | [20.88%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=4) |  | [gi|409194062|gb|JX458857.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=409194062) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [6](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=5&scale=Linear) |  | [20.78%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=5) |  | [gi|91177767|gb|DQ447652.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=91177767) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Lake Victoria marburgvirus - DRC1999](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378831) |  | | | | |
| [7](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=6&scale=Linear) |  | [20.46%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=6) |  | [gi|253317737|gb|FJ621585.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=253317737) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Reston ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186539)|[Reston ebolavirus - Reston](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=129003) |  | | | | |
| [8](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=7&scale=Linear) |  | [20.33%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=7) |  | [gi|254688035|gb|FJ750953.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=254688035) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [9](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=8&scale=Linear) |  | [20.28%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=8) |  | [gi|499104232|gb|KC545393.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=499104232) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Bundibugyo ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=565995) |  | | | | |
| [**122**](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=121&scale=Linear) |  | [**14.2%**](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=121) |  | [**gi|1359120912|gb|MG599981.1|**](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1359120912) **“Wēnlǐng thamnaconus septentrionalis filovirus” strain LQMMTII17328 hypothetical protein, nucleoprotein, hypothetical protein, putative glycoprotein, hypothetical protein, and L protein genes, complete cds** |  | | | | |
| Top matches for [gi|1359120912|gb|MG599981.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1359120912) “Wēnlǐng thamnaconus septentrionalis filovirus” strain LQMMTII17328 hypothetical protein, nucleoprotein, hypothetical protein, putative glycoprotein, hypothetical protein, and L protein genes, complete cds: | | | | | | | | | |
| BLAST-based alignments | | | | |  |  |  |  |  |
| [**1**](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=122&scale=Linear) |  | [**14.56%**](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=122) |  | [**gi|1359120901|gb|MG599980.1|**](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1359120901) **“Wēnlǐng frogfish filovirus” strain XYHYS28627 nucleoprotein, hypothetical protein, matrix protein, hypothetical protein, putative glycoprotein 1, putative glycoprotein 2, VP30, hypothetical protein, and L protein genes, complete cds** |  | | | | |
| [2](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=123&scale=Linear) |  | [13.57%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=123) |  | [gi|165940954|gb|EU338380.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=165940954) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Sudan ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186540) |  | | | | |
| [3](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=124&scale=Linear) |  | [13.52%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=124) |  | [gi|91177679|gb|DQ447653.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=91177679) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269)|[Lake Victoria marburgvirus - Angola2005](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=378830) |  | | | | |
| [4](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=125&scale=Linear) |  | [13.39%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=125) |  | [gi|1124891100|gb|KY047764.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1124891100) [Marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186537)|[Marburg marburgvirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=11269) |  | | | | |
| [5](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=126&scale=Linear) |  | [13.03%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=126) |  | [gi|355469071|ref|NC\_016144.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=355469071) [Cuevavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=1513236)|[Lloviu cuevavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=1513237) |  | | | | |
| [6](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=127&scale=Linear) |  | [13.02%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=127) |  | [gi|973433588|gb|KU296628.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=973433588) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [7](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=128&scale=Linear) |  | [12.98%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=128) |  | [gi|768029139|gb|KF113528.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=768029139) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [8](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=129&scale=Linear) |  | [12.88%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=129) |  | [gi|973431317|gb|KU296327.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=973431317) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [9](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=130&scale=Linear) |  | [12.88%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=130) |  | [gi|10313991|ref|NC\_002549.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=10313991) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  | | | | |
| [10](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?cmdresult=main&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=131&scale=Linear) |  | [12.86%](https://www.ncbi.nlm.nih.gov/sutils/pasc/viridty.cgi?textpage=pa2txt&jobkey=JSID_01_2737721_130.14.18.6_9000_Pasc&idx=131) |  | [gi|33860540|gb|AY354458.1|](https://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=33860540) [Ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186536)|[Zaire ebolavirus](https://www.ncbi.nlm.nih.gov/Taxonomy/Browser/wwwtax.cgi?id=186538) |  |  |  |  |  |

Together, these results indicate that “Wēnlǐng frogfish filovirus”, here renamed Xīlǎng virus (XILV) and “Wēnlǐng thamnaconus septentrionalis filovirus”, here renamed Huángjiāo virus (HUJV), are representatives of novel species in two novel filovirus genera:

* Novel genus *Striavirus*, including a single new species *Xilang striavirus* for XILV
* Novel genus *Thamnovirus*, including a single new species *Huangjiao thmanovirus* for (HUJV)

Both genera are named after components of the species names for the fish in which XILV and HUJV were discovered (*Antennarius striatus* and *Thamnoconus septentrionalis*, respectively). Species names follow the non-Latinized binomial format established for all negative-sense RNA viruses. Virus names were chosen based on localities close to the places of their discovery in China (Xīlǎng Mountain [西朗山] and Huángjiāo Island (黄焦岛), respectively).

| **References:** |
| --- |
| Bào Y, Amarasinghe GK, Basler CF, Bavari S, Bukreyev A, Chandran K, Dolnik O, Dye JM, Ebihara H, Formenty P, Hewson R, Kobinger GP, Leroy EM, Mühlberger E, Netesov SV, Patterson JL, Paweska JT, Smither SJ, Takada A, Towner JS, Volchkov VE, Wahl-Jensen V, Kuhn JH. [Implementation of objective PASC-derived taxon demarcation criteria for official classification of filoviruses.](https://www.ncbi.nlm.nih.gov/pubmed/28492506) Viruses. 2017 May 11;9(5). pii: E106. doi: 10.3390/v9050106.  PMID: 28492506    Shi M, Lin XD, Chen X, Tian JH, Chen LJ, Li K, Wang W, Eden JS, Shen JJ, Liu L, Holmes EC, Zhang YZ. [The evolutionary history of vertebrate RNA viruses.](https://www.ncbi.nlm.nih.gov/pubmed/29618816) Nature. 2018 Apr;556(7700):197-202. doi: 10.1038/s41586-018-0012-7. Epub 2018 Apr 4.  PMID: 29618816 |