Supplementary Materials

**Supplementary Table 1. Summary of BLAST queries to reference homologs for proteins identified in Malagasy fruit bat *Nobecoviruses.***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Virus** | **Nucleotide or amino acid** | **β-HKU9**  **(MG762674)** | | **β--GCCDC1**  **(NC\_030886)** | | **β-BtRt-BetaCoV/GX2018**  **(MK492263)** | | **β-Eidolon\_helvum/Cameroon/2013**  **(NC\_048212)** | |
|  |  | **% identity/query cover** | **Protein accession #** | **% identity/query cover** | **Protein accession #** | **% identity/query cover** | **Protein accession #** | **% identity/query cover** | **Protein accession #** |
| P\_rufus\_AMB130 | Genome\* | 73.15/26\* | MG762674 | 72.87/22\* | NC\_030886 | 73.35/26\* | MK492263 | 73.54/26\* | NC\_048212 |
|  | ORF1a | 47.67/99 | AVP25405 | 53.7/98 | YP\_009273004 | 54.52/98 | QEH60462 | 48.35/99 | YP\_009824989 |
|  | ORF1b | 75.08/99 | AVP25405 | 75.2/99 | YP\_009273004 | 72.72/99 | QEH60462 | 76.10/98 | YP\_009824989 |
|  | S | 45.59/99 | AVP25406 | 47.3/99 | YP\_009273005 | 46.93/99 | QEH60463 | 46.47/99 | YP\_009824990 |
|  | NS3 | 40.38/72 | AVP25407 | 41.18/71 | YP\_009273006 | 39.63/76 | QEH60464 | 41.67/73 | YP\_009824991 |
|  | E | 50.68/92 | AVP25408 | 47.95/92 | YP\_009273007 | 49.32/92 | QEH60465 | 46.58/92 | YP\_009944266 |
|  | M | 58.56/99 | AVP25409 | 59.73/99 | YP\_009273008 | 60.63/99 | QEH60466 | 62.44/99 | YP\_009824992 |
|  | N | 50/89 | AVP25410 | 50.61/89 | YP\_009273009 | 50.6/89 | QEH60467 | 48.27/89 | YP\_009824993 |
|  | NS7a | --- | --- | --- | --- | --- | --- | --- | --- |
|  | NS7b | 40.28/98 | AVP25412 | --- | --- | 43.26/96 | QEH60470 | 40/99 | YP\_009824995 |
| R\_madagascariensis\_MIZ178 | Genome\* | 77/32\* | MG762674 | 75.08/27\* | NC\_030886 | 75.95/34\* | MK492263 | 95.15/89\* | NC\_048212 |
|  | ORF1a | 60.59/99 | AVP25405 | 59.36/99 | YP\_009273004 | 60.22/99 | QEH60462 | 96.03/99 | YP\_009824989 |
|  | ORF1b | 82.02/99 | AVP25405 | 81.09/99 | YP\_009273004 | 82.36/99 | QEH60462 | 99.02/99 | YP\_009824989 |
|  | S | 49.84/99 | AVP25406 | 50.86/98 | YP\_009273005 | 50.62/99 | QEH60463 | 66.61/99 | YP\_009824990 |
|  | NS3 | 46.93/75 | AVP25407 | 44.44/72 | YP\_009273006 | 45.56/72 | QEH60464 | 89.32/99 | YP\_009824991 |
|  | E | 58.11/97 | AVP25408 | 55.41/97 | YP\_009273007 | 66.22/97 | QEH60465 | 92/98 | YP\_009944266 |
|  | M | 70.70/99 | AVP25409 | 70.75/99 | YP\_009273008 | 70.75/99 | QEH60466 | 91.98/99 | YP\_009824992 |
|  | N | 61.19/98 | AVP25410 | 59.25/96 | YP\_009273009 | 62.80/98 | QEH60467 | 86.6/99 | YP\_009824993 |
|  | NS7a | 55.65/76 | AVP25411 | 25.89/57 | YP\_009273011 | 54.78/76 | QEH60469 | --- | --- |
|  | NS7b | 80/95 | AVP25411 | --- | --- | 77.14/95 | QEH60469 | --- | --- |
|  | NS7c | 46.1/96 | AVP25412 | 28.57/82 | YP\_009273013 | 47.14/95 | QEH60470 | 45.89/99 | YP\_009824995 |
| R\_madagascariensis\_MIZ240 | Genome\* | 77.06/32 | MG762674 | 75.25/30 | NC\_030886 | 75.99/33 | MK492263 | 95.31/89 | NC\_048212 |
|  | ORF1a | 60.54/99 | AVP25405 | 59.41/99 | YP\_009273004 | 60.09/99 | QEH60462 | 96.15/99 | YP\_009824989 |
|  | ORF1b | 81.91/99 | AVP25405 | 81.12/99 | YP\_009273004 | 82.13/99 | QEH60462 | 99.13/99 | YP\_009824989 |
|  | S | 51.05/99 | AVP25406 | 50.6/96 | YP\_009273005 | 50.31/99 | QEH60463 | 66.61/99 | YP\_009824990 |
|  | NS3 | 45.81/75 | AVP25407 | 44.44/72 | YP\_009273006 | 44.97/72 | QEH60464 | 89.74/99 | YP\_009824991 |
|  | E | 58.11/97 | AVP25408 | 55.41/97 | YP\_009273007 | 66.22/97 | QEH60465 | 92/98 | YP\_009944266 |
|  | M | 71.43/97 | AVP25409 | 71.23/99 | YP\_009273008 | 71.23/99 | QEH60466 | 91.98/99 | YP\_009824992 |
|  | N | 61.62/98 | AVP25410 | 61.73/86 | YP\_009273009 | 67.48/87 | QEH60467 | 87.23/99 | YP\_009824993 |
|  | NS7a | 53.28/96 | AVP25411 | --- | --- | 52.76/88 | QEH60469 | --- | --- |
|  | NS7b | 66.67/92 | AVP25411 | --- | --- | 66.67/92 | QEH60469 | 42.86/35 | YP\_009824995 |
|  | NS7c | 46.81/96 | AVP25412 | 28.57/82 | YP\_009273013 | 47.86/95 | QEH60470 | 45.89/99 | YP\_009824995 |

\*BLASTn query indicated by superscript. All other queries were BLASTx.

---BLASTx query generated no hits.

NOTE: ORF1b was BLASTx queried as the segment of ORF1ab that did not overlap ORF1a.