|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Virus** | **Nucleotide or amino acid** | **β-HKU9**  **(MG762674)** | **β--GCCDC1**  **(NC\_030886)** | **β-BtRt-BetaCoV/GX2018**  **(MK211379)** | **β-Eidolon\_helvum/Cameroon/2013**  **(NC\_048212)** | **Top BLAST hit** | **Accesion number of top BLAST hit** |
| P\_rufus\_AMB130 | Genome\* | 73.15 | 72.87 | 73.28 | 73.54 | Bat coronavirus HKU9, complete genome | EF065514 |
|  | ORF1a | 47.67 | 53.7 | 53.77 | 48.25 | ORF1a [Bat coronavirus] | AWV67046 |
|  | ORF1b | 70.08 | 75.2 | 74.68 | 76.10 | ORF1ab polyprotein [Bat coronavirus] | YP\_009824989 |
|  | S | 45.59 | 47.3 | 46.7 | 46.47 | spike glycoprotein [Bat coronavirus] | QEH60463 |
|  | NS3 | 40.38 | 41.18 | 4.6 | 41.67 | hypothetical protein [Bat coronavirus HKU9] | ADM33567 |
|  | E | 50.68 | 47.95 | 50.63 | 46.58 | envelope protein [Eidolon bat coronavirus/Kenya/KY24/2006 | ADX59468 |
|  | M | 58.56 | 59.73 | 60.55 | 62.44 | Membrane glycoprotein [Bat coronavirus HKU9] | ABN10930 |
|  | N | 50 | 50.61 | 50.84 | 48.27 | N protein [Rousettus bat coronavirus HKU9] | AVP25400 |
|  | NS7a† | 3.3 | 2.1 | 1.9 | 2.2 | CMRF35-like molecule 1 viral protein [Murine norovirus GV/CR10/2005/USA] | 5OR7 |
|  | NS7b | 40.28 | 0.1 | 63.64 | 40 | NS7b [Rousettus bat coronavirus HKU9] | AVP25412 |
| R\_madagascariensis\_MIZ178 | Genome\* | 77 | 75.08 | 75.88 | 95.15 | Bat coronavirus isolate CMR900 | MG693169 |
|  | ORF1a | 60.59 | 59.36 | 59.84 | 96.03 | ORF1a [Bat coronavirus] | AWV67062 |
|  | ORF1b | 82.02 | 81.09 | 82.54 | 99.02 | ORF1ab polyprotein [Bat coronavirus] | YP\_009824989 |
|  | S | 49.84 | 50.86 | 51.23 | 66.61 | Spike protein [Bat coronavirus] | AWV67064 |
|  | NS3 | 46.93 | 44.44 | 39.02 | 89.32 | ORF3 protein [Eidolon bat coronavirus Kenya/KY24/2006] | ADX59467 |
|  | E | 58.11 | 55.41 | 64.86 | 92 | envelope protein [Eidolon bat coronavirus/Kenya/KY24/2006] | ADX59468 |
|  | M | 70.70 | 70.75 | 71.09 | 91.98 | membrane protein [Bat coronavirus] | YP\_009824992 |
|  | N | 61.19 | 59.25 | 63.01 | 86.6 | capsid [Bat coronavirus] | AWV67051 |
|  | NS7a | 55.65 | 25.89 | 1.5 | 8.7 | hypothetical protein ORFx [Bat coronavirus] | AWV67068 |
|  | NS7b | 0.1 | 1.3 | 46.67 | 0.8 | hypothetical protein [Bat coronavirus HKU9] | ADM33571 |
|  | NS7c | None | 28.57 | 0 | 45.89 | hypothetical protein ORFy [Eidolon bat coronavirus/Kenya/KY24/2006] | ADX59472 |
| R\_madagascariensis\_MIZ240 | Genome\* | 77.06 | 75.25 | 75.99 | 95.31 | Bat coronavirus isolate CMR891-892 | MG693171 |
|  | ORF1a | 60.54 | 59.41 | 59.77 | 96.15 | ORF1a [Bat coronavirus] | AWV67062 |
|  | ORF1b | 81.91 | 81.12 | 82.28 | 99.13 | ORF1ab polyprotein [Bat coronavirus] | YP\_009824989 |
|  | S | 51.05 | 50.6 | 51.37 | 66.61 | Spike protein [Bat coronavirus] | AWV67064 |
|  | NS3 | 45.81 | 44.44 | 4.7 | 89.74 | ORF3 [Bat coronavirus] | AWV67065 |
|  | E | 58.11 | 55.41 | 64.86 | 92 | envelope protein [Eidolon bat coronavirus/Kenya/KY24/2006] | ADX59468 |
|  | M | 71.43 | 71.23 | 71.29 | 91.98 | membrane protein [Bat coronavirus] | YP\_009824992 |
|  | N | 61.62 | 61.73 | 66.99 | 87.23 | nucleocapsid protein [Eidolon bat coronavirus/Kenya/KY24/2006] | ADX59470 |
|  | NS7a | 53.28 | 2.4 | 0.4 | 1.5 | hypothetical protein ORFx [Bat coronavirus] | AWV67068 |
|  | NS7b | 0 | 2 | 0.5 | 2 | hypothetical protein [Bat coronavirus HKU9] | ADM33571 |
|  | NS7c | None | 28.57 | 0 | 45.89 | hypothetical protein ORFy [Eidolon bat coronavirus/Kenya/KY24/2006] | ADX59472 |

\*BLASTn and †HHPred query indicated by superscript. All other queries were BLASTx. Note that accession number for NCBI corresponds to RCSB Protein Data Bank number for HHPred.