Human Infection with Orf Virus and Description of Its Whole Genome, France, 2017

Julien Andreani, Jessica Fongue, Jacques Y. Bou Khalil, Laurene David, Saïd Mougari, Marion Le Bideau, Jonatas Abrahão, Philippe Berbis, Bernard La Scola

Zoonotic transmission of parapoxvirus from animals to humans has been reported; clinical manifestations are skin lesions on the fingers and hands after contact with infected animals. We report a human infection clinically suspected as being ecthyma contagiosum. The patient, a 65-year-old woman, had 3 nodules on her hands. She reported contact with a sheep during the Aïd-el-Fitr festival in France during 2017. We isolated the parapoxvirus orf virus from these nodules by using a nonconventional cell and sequenced the orf genome. We identified a novel orf virus genome and compared it with genomes of other orf viruses. More research is needed on the genus *Parapoxvirus* to understand worldwide distribution of and infection by orf virus, especially transmission between goats and sheep.

Parapoxvirus is a genus of double-stranded DNA viruses (family *Poxviridae*) that contains 4 virus species: orf virus, bovine papular stomatitis virus, parapoxvirus of red deer, and pseudocowpoxvirus. Recently, a complete genome from a gray seal infected by a parapoxvirus was reported and constituted a putative novel virus in this genus (*1*). Zoonotic transmission of parapoxvirus from animals to humans has been reported in the past few decades; the main human clinical manifestations are skin lesions on the fingers and hands after contact with infected animals (*2*–*5*).

Most human cases of infection with parapoxvirus reported are caused by orf virus (*2*,*6*,*7*), but some human infections are caused by pseudocowpoxviruses (*8*,*9*). Infection of small ruminants with orf virus is frequent and widely distributed worldwide. Orf virus disease is also known as contagious ecthyma, scabby mouth, sore mouth, or infectious pustular dermatitis. Humans can be infected with orf virus by contact with sheep and goats during religious or cultural practices and during slaughter of animals (*4*,*10*), and infections appear to be more frequent during the last 3 months of each year (*3*). Human-to-human infection is extremely rare (*11*,*12*). Vaccination against orf virus is available for animals, although it does not confer long-term protective immunity (*13*). Human infections are relatively frequent when populations are exposed to sheep and goats (occupational disease). However, complete genomes of orf viruses are rarely found in public databases, which results in limited comparative studies in this field.

Diagnosis of human infections with orf virus is usually made by histologic analysis, molecular biology (PCR) studies, or electron microscopy. At least 11 complete orf virus genomes are available, and at least 19 are available for the entire genus *Parapoxvirus*. Nevertheless, a unique orf virus was sequenced after a human case report (*14*) (orf virus strain B029). These data are in contrast with those for orthopoxviruses (another *Poxviridae* genus) in which >300 genomes are available. One of the reasons for limited availability of parapoxvirus genomes is that many of these viruses are not cultivable on most diagnostic laboratories' cell lines (*15*).

In 2017, we identified a 65-year-old woman in France who had 3 nodules on her hands. She was given a diagnosis of ecthyma contagiosum. Genomic and electron microscopy data confirmed the initial diagnosis as infection with orf virus and identified this virus as the etiologic agent. We also isolated this virus on OA3.Ts cells.

Materials and Methods

Case-Patient

A 65-year-old woman came to North Hospital (Marseille, France) because of 3 nodules on her hands. She reported contact 3 weeks earlier with the carcass of a dead sheep during the Aïd-el-Fitr festival (June 25, 2017) in the Bouches-du-Rhones Department in southern France. Clinically, she had 3 painless, well-delimited erythematosus nodules on her fingers with an erythematosus halo (Figure 1). On

Author affiliations: Institut Hospitalo-Universitaire Méditerranée Infection, Marseille, France (J. Andreani, J.Y. Bou Khalil, S. Mougari, M. Le Bideau, B. La Scola); Centre Hospitalier Universitaire Hôpital Nord, Marseille (J. Fongue, L. David, P. Berbis); Universidade Federal de Minas Gerais, Belo Horizonte, Brazil (J. Abrahão)

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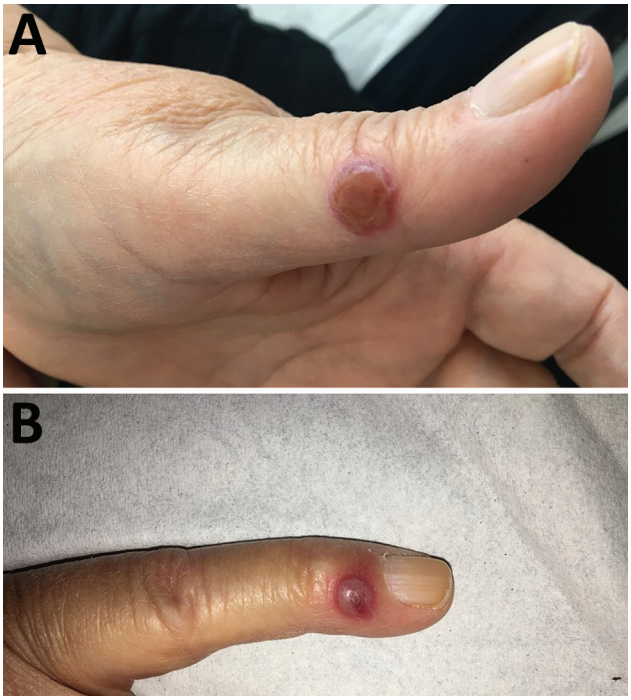

Figure 1. Nodules on the A) left thumb and B) left little finger of a 65-year-old woman infected with orf virus during Aïd-el-Fitr festival, France, 2017.

the basis of clinical suspicion of ecthyma contagiosum, we obtained a cutaneous biopsy specimen for biologic confirmations by PCR and histologic analysis. Histopathologic analysis of the skin biopsy specimen showed a moderate epidermal hyperplasia, spongiform degeneration with vacuolated cells, and inflammatory infiltration into the dermis (Figure 2). The patient was given antiseptic and local antimicrobial drug therapy (2% fusidic acid cream) to prevent bacterial superinfection. All skin lesions healed in 3 weeks.

Virus Detection, Isolation, and Production

We performed a parapoxvirus PCR on the cutaneous biopsy sample by using primers forward 5′-CGGTGCAGCACGAGGTC-3′, reverse 5′-CGGCGTATTCTTCTCGGACT-3′, and 6FAM-5′-GCCTAGGAAGCGCTCCGGCG-3′. These primers are specific for the B2L gene, which encodes the major membrane protein of parapoxvirus.

For virus culture, we crushed a biopsy sample and resuspended it in Hanks' balanced salt solution (Thermo Fisher Scientific, https://www.thermofisher.com). We then inoculated 400 µL of this sample onto 2 shell vials (200 µL/vial) (7-mL TRAC bottles; Thermo Fisher Scientific) containing 1 mL of OA3.Ts testes cells from *Ovis aries* sheep (CRL-6546; American Type Culture Collection, https://www.atcc.org) at a concentration of 10^6 cells/ mL. We incubated 1 vial at 32°C and 1 vial at 37°C in an atmosphere of 5% CO_2 and observed daily by inverted microscopy to detect any potential cytopathic effect.

For virus production, we prepared 15 flasks (T75cm^2; Corning, https://www.corning.com) containing OA3.Ts cells and Dulbecco's modified Eagle medium (Thermo Fisher Scientific) plus 10% fetal bovine serum and 1% glutamine. We then incubated the cells, and when they reached a confluence of 80% of confluence, we removed the medium and inoculated the monolayer with 5 mL of virus suspension at a multiplicity of infection of 0.01. We incubated the flasks at 37°C for 1 h to enable adsorption. We then added 20 mL of Dulbecco's modified Eagle medium to the flasks and incubated them for 3 days. On the third day, we discarded the supernatant, washed the cell monolayer 3 times with phosphate-buffered saline, and removed the monolayer by using a scraper. Once all the flasks were scraped and washed twice to collect cells, we transferred all contents to a 50-mL tube and kept the tube on ice.

We then centrifuged the cells at 500 × *g* for 10 min, removed the supernatant, resuspended the pellet in 10 mL of sterile lysis buffer (1 mmol/L $MgCl_2$, 10 mmol/L Tris, and 10 mmol/L KCl, pH 7.0), and incubated this suspension for 10 min on ice. We performed mechanical lysis by using a sterile douncer device (80 cycles on ice). In parallel, we filtered the entire supernatant by using a 0.45-µm polyvinylidene difluoride membrane (Dutscher, https://www.dutscher.com) and centrifuged the supernatant. Finally, we added 10 mL of 25% sucrose to a plastic centrifugation tube, and slowly transferred the virus mixture from the filtrate to avoid mixing with the sucrose solution (biphasic final solution). We centrifuged the tube at 60,000 × *g* for 1 h at 4°C, collected the pellet, and stored the pellet at −80°C in small aliquots before genome sequencing.

Sample Embedding and Cell Preparation

We maintained OA3.Ts cells in culture containing minimal essential medium plus 10% fetal bovine serum. We inoculated the cell monolayer with parapoxvirus at a multiplicity of infection of 0.01 and incubated. We then collected the contents after scraping the flask (T-25cm^2) at 24 h postinfection.

We used the protocol of cell embedding as described in Bou Khalil et al. (*16*). We replaced the Epon resin with LR White resin (Agar Scientific, http://www.agarscientific.com). In brief, we fixed cells for 1 h with 2.5% glutaraldehyde in a 0.1 mol/L sodium cacodylate buffer and washed with a mixture of 0.2 mol/L saccharose/0.1 mol/L sodium cacodylate. We then postfixed cells for 1 h with 1% OsO4 diluted in 0.2 mol/L potassium hexacyanoferrate (III)/0.1 mol/L sodium cacodylate solution. After washing the cells with distilled water, we gradually dehydrated them with ethanol, then gradually replaced the ethanol with LR white resin. We performed polymerization for 24 h at 60°C. We obtained ultrathin, 70-nm sections by using a UC7

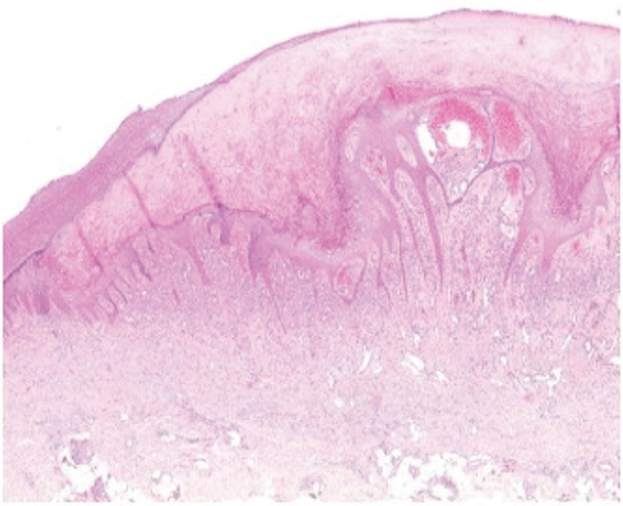

Figure 2. Histopathologic analysis of a skin biopsy specimen from a 65-year-old woman infected with orf virus during Aïd-el-Fitr festival, France, 2017. The specimen shows epidermal hyperplasia with acantolysis and papillomatosis, extensive hyperkeratosis, spongiform degeneration and vacuolated cells, and inflammatory infiltration in the dermis, predominantly by histiocytes and lymphocytes. Hematoxylin and eosin stain, original magnification x100.

ultramicrotome (Leica, https://www.leica-microsystems.com) and placed the sections onto HR25 300-mesh copper/rhodium grids (TAAB, https://www.taab.co.uk). We colored the sections with Reynolds solution. We obtained electron micrographs by using a Tecnai G2 transmission electron microscope (FEI, https://www.fei.com) operated at 200 keV and used ImageJ software (https://imagej.nih.gov) to determine particle size.

Genome Sequencing and Assembling

We sequenced genomic DNA of the parapoxvirus by using MiSeq Technology (Illumina, https://www.illumina.com) and the paired-end strategy. We barcoded sequences and compared them with 19 other genomic projects prepared from Nextera XT DNA Sample Prep Kit (Illumina). We quantified genomic DNA by using the Qubit Assay and the High-Sensitivity Kit (Life Technologies, https://www.thermofisher.com) at a concentration of 43 ng/µL. To prepare the paired-end library, we performed a dilution to obtain 1 ng of each genome as input to prepare the paired-end library. The tagmentation step (Illumina) fragmented and tagged the DNA. Limited cycle PCR amplification (12 cycles) completed the tag adapters and introduced dual-index barcodes. After purification by using AMPure XP Beads (Beckman Coulter Inc., https://www.beckmancoulter.com), we normalized the libraries on specific beads according to the Nextera XT protocol (Illumina). We pooled normalized libraries into a single library for sequencing, then loaded the pooled single-strand library onto the reagent cartridge and then onto the instrument along with the flow cell. We performed automated cluster generation and paired-end sequencing with dual index reads in a single 39-h run for 2 × 250 bp.

We obtained total information of 10.2 Gb from 1,140,000 clusters of density/mm^2 and established a cluster passing quality control filters at 91.2% (19,783,000 clusters). Within this run, we determined the index representation for the parapoxvirus to be 5.45%. We filtered the 1,078,648 paired-end reads according to the read qualities.

We assembled paired-end reads by using the Hybrid spades program (*17*) and only paired-end strategy in input. We obtained 1 contig of 132,823 bp with an average coverage of 190 reads/base.

Gene Prediction and Analysis

We used Prodigal software for gene prediction (*18*). For predicted proteins that had lengths <100 amino acids, we used Phyre 2 software to predict the tridimensional fold (*19*). For the 130 initial predicted proteins, we deleted 4 predicted proteins with abnormal folds. We performed a blastp analysis (https://blast.ncbi.nlm.nih.gov/Blast.cgi?PAGE=Proteins&) of all predicted proteins against the nonredundant database at the National Center for Biotechnology Information (https://www.ncbi.nlm.nih.gov) and performed annotation by using delta-blastp results (*20*) and Interproscan version 69.0 (https://www.ebi.ac.uk). To determine average nucleotide values, we compared close phylogenetic strains by using the OrthoANI algorithm (*21*); we compared predicted proteins by using the reciprocal best hit and ProteinOrtho software (*22*) with 80% coverage, 20% identity, and 10^{-2} as an E value cutoff. The genome is available in the EMBL-EBI database (https://www.ebi.ac.uk, accession no. LR594616).

Phylogenetic Analysis

We performed alignment of 22 complete genomes of parapoxviruses with a closely related squirrel poxvirus, by using molluscum contagiosum virus as an outgroup. We computed alignments by using MAFFT version 7 (*23*) with fast Fourier transformation, a heuristic progressive method, and manually controlled alignments in MEGA6.0 (https://www.megasoftware.net) to delete inverted repeat regions nonaligned at both ends. We conserved 208,216 positions to build a tree by using the general time-reversible model on the PhyML version 3 program (*24*) and visualized trees by using the iTol online program (*25*).

Results

Virus Isolation and Ultrastructure

The cutaneous biopsy specimen from the patient was found to contain parapoxvirus, which was confirmed by using

a quantitative PCR. We inoculated this biopsy specimen onto OA3.Ts cells, and monitored lysis daily by using an inverted microscope. We detected a cytopathic effect at 48 h postinfection. Electron microscopy confirmed the presence of virions in cells at 24 h after reculture and by observations of ultrathin sections (Figure 3).

Characterization of Orf Virus Genome

We obtained a linear complete genome of 132,823 bp with a guanine cytosine–rich content of ≈64.4%. This genome is the third smallest by length among parapoxviruses, after orf virus strain NP and seal parapoxvirus (Table). We propose to name this orf virus strain IHUMI-1.

Genome organization of orthopoxviruses are known to be conserved and follow the typical structure with inverted terminal repeat variations and a conserved central core genome (*33*,*34*). This structure was also suggested for parapoxviruses (*35*). We investigated synteny by using current complete genome reports. Mauve analysis of 12 complete genomes of orf virus enabled us to observe intraspecies conservation, except at the ends of some genomes (Appendix Figure 1, https://wwwnc.cdc.gov/EID/article/25/12/18-1513-App1.pdf). Moreover, analysis of synteny blocks across parapoxviruses showed the same typical organization (Appendix Figure 2). By using blast and MEGA analysis of the complete genome of orf virus IHUMI-1, we observed matches with all orf virus genomes, a squirrelpox virus genome, and a molluscum contagiosum virus genome (15% coverage and 80% identity). This region between the orf genome and molluscum contagiosum virus genome of ≈3,500 nt (positions on orf virus IHUMI-1 from 97,602 to 101,032) encodes a predicted protein essential for viruses: DNA-directed RNA polymerase subunit RPO132 (*Rbp2*).

Focusing on the 126 predicted proteins of virus strain IHUMI-1, we observed 124 best hits with different strains of orf virus, 1 hit with a hypothetical protein with *Mucor circinelloides* (with an E value of 10^{-3}), and 1 hit with *Ovis aries* sheep, the natural host. The protein showing the best hit with *O. aries* sheep was annotated as the interleukin-10 precursor. The gene for this protein is found in parapoxvirus and was probably acquired from mammals and known as a potential keystone protein that reduces inflammation during the infectious cycle (*36*–*39*). Despite the position of this gene at the left start region of genomes of parapoxviruses, this protein is highly conserved. The interleukin-10 gene of orf virus IHUMI-1 shows 99% nucleotide sequence identity with other orf virus strains and 79% with *O. aries* sheep and with *Capra hircus* goats; the gene showed, as reported, numerous synonymous mutations and adaptations by orf virus (*39*).

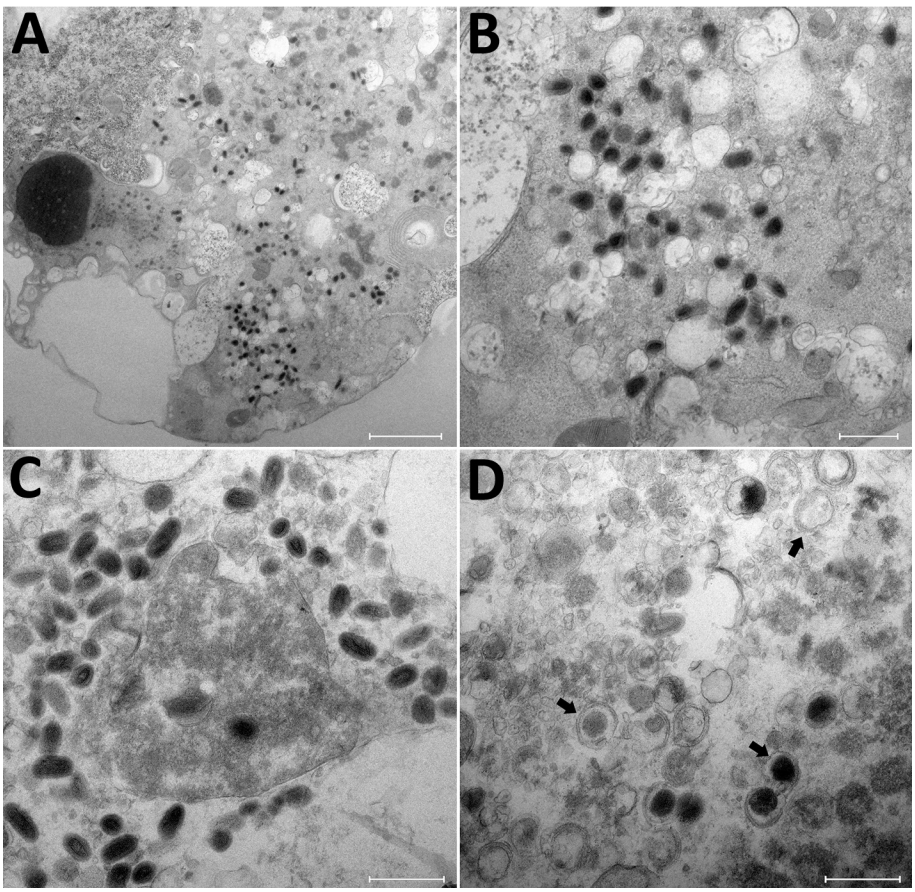

Figure 3. Transmission electron microscopy of OAT3.T cells infected with orf virus IHUMI-1 from a 65-year-old woman in France. A) Ultrathin section of an OAT3.Ts cell at 24 h postinfection harboring orf virus strain IHUMI-1 undergoing its replicative cycle where dense inclusion bodies could be clearly seen in the cell cytoplasm. B, C) Higher magnifications of infected cells showing typical enveloped virions. D) Ultrathin sections of an OAT3.Ts cell showing enveloped particles (arrows). Scale bars indicate 2 μm in panel A, 50 nm in panels B, C, and D.

Table. Genomic characteristics of parapoxviruses used for analysis of an orf virus isolated from a 65-year-old woman infected during Aid-el-Fïtr, festival, France, 2017

Virus	Genome length, bp	GenBank accession no.	Source of virus	Reference
Orf virus strain PACA France 2017	132,823	LR594616	Hand nodule from human: 2017, France	This study
Orf virus strain OV-IA82	137,241	AY386263.1	Nasal secretion from lamb: 1982, Iowa	(*15*)
Orf virus strain NZ2	137,820	DQ184476.1	Sheep: New Zealand	(*26*)
Orf virus strain B029	134,104	KF837136.1	Human: Germany 1996	(*14*)
Orf virus strain OV-HN3/12	136,643	KY053526.1	Sheep: China 2012	(*27*)
Orf virus strain NA1/11	137,080	KF234407.1	Sheep: China 2011	(*27*)
Orf virus strain GO	139,866	KP010354.1	Lamb: Fujian, China, 2012	(*27*)
Orf virus strain D1701	134,038	HM133903.1	Sheep: Germany	(*28*)
Orf virus strain SJ1	139,112	KP010356.1	Lamb: Fujian, China, 2012	(*27*)
Orf virus strain YX	138,231	KP010353.1	Lamb: Fujian, China, 2012	(*27*)
Orf virus strain OV-SA00	139,962	AY386264.1	Goat kid: 2010, Texas	(*15*)
Orf virus strain NP	132,111	KP010355.1	Lamb: Fujian, China, 2011	(*27*)
Pseudocowpox virus strain VR634	145,289	GQ329670.1	Human after contact with contaminated cow: 1963, USA	(*29*)
Pseudocowpox virus strain F00.120R	133,169	GQ329669.1	Reindeer: Finland, 2009	(*29*)
Bovine papular stomatitis virus strain BV-TX09c1	135,072	KM875472.1	Domestic cow: 2009, USA	(*30*)
Bovine papular stomatitis virus strain BV-TX09c15	136,055	KM875470.1	Domestic cow: 2009, USA	(*30*)
Bovine papular stomatitis virus strain BV-TX09c5	135,635	KM875471.1	Domestic cow: 2009, USA	(*30*)
Bovine papular stomatitis virus strain BV-AR02	134,431	AY386265.1	Calf (oral lesions): Arkansas, 2004?	(*15*)
Parapoxvirus red deer/HL953	139,981	KM502564.1	Red deer (tonsil swab): Germany, 2013, subclinical infection	(*31*)
Seal parapoxvirus isolate AFK76s1	127,941	KY382358.2	Gray seal: Poland, 2015	(*1*)
Squirrel poxvirus strain red squirrel UK	148,803	HE601899.1	Red squirrel, UK: 2014, outgroup of parapoxvirus	(*32*)

Virus Clusters and Distribution

Orthopoxviruses, such as various strains of cowpox virus, circulate in Europe, and clusters are well identified with clades and subclades (*40*,*41*). Concerning parapoxviruses, a previous study of whole genomes of orf viruses showed that clusters exist and depend on whether the host is a goat or a sheep (*27*). Our phylogenetic analysis performed on whole genomes of parapoxviruses, which used the maximum-likelihood method, identified clusters with 2 different branches of orf viruses that had a common ancestor. This result is similar to that of Chi et al. (*27*) and showed 2 branches depending on whether the virus host was a goat or a sheep (Figure 4). In contrast, analysis by using the OrthoANi algorithm enabled us to separate orf viruses that originated

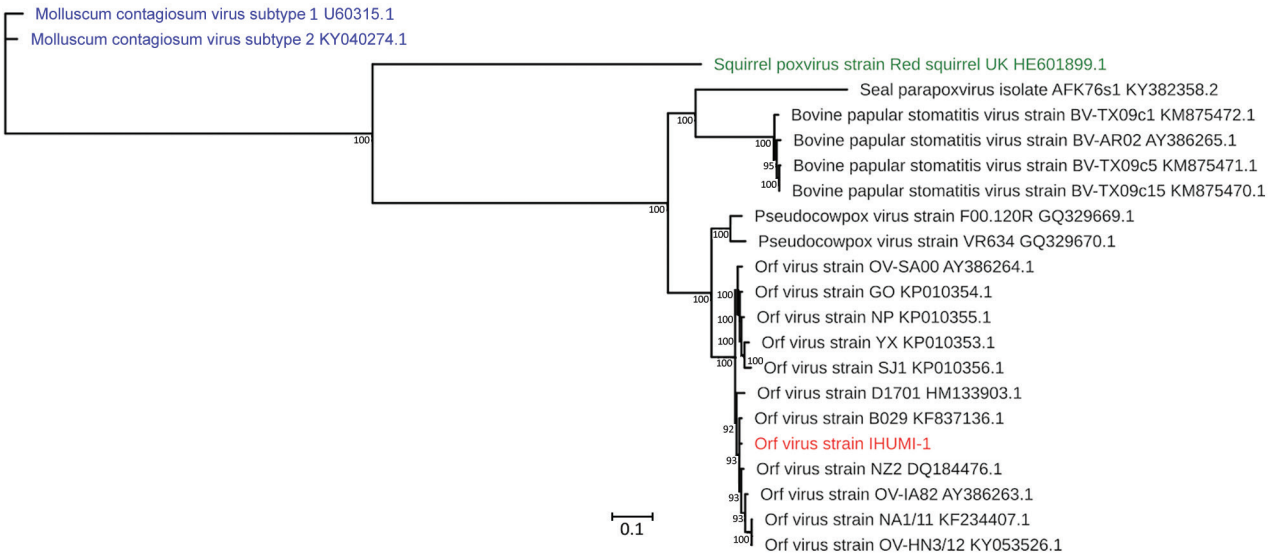

Figure 4. Maximum-likelihood tree based on complete sequences of orf virus IHUMI-1 from a 65-year-old woman in France (red) and 22 other viruses belonging to the family Poxviridae. Tree was constructed by using a general time-reversible model with 100 bootstrap replicates. All branches with bootstrap values <70 were collapsed. Numbers along branches are bootstrap values. Blue indicates 2 chordopoxviruses that served as outgroups, and green indicates a squirrel poxvirus still unclassified but related to the genus Parapoxvirus. GenBank accession numbers are provided for reference isolates. Scale bar indicates nucleotide substitutions per site.

from sheep and those that originated from goats (Figure 5). The only difference we observed was for orf virus strain D1701, which appeared to be an outgroup strain. Nevertheless, when we used the maximum-likelihood method and the OrthoANi algorithm, we found that orf virus IHUMI-1 clustered with orf virus strain B029. These 2 strains were human isolates obtained after infection from sheep.

Reciprocal best hit analysis enabled us to observe a high degree of conservation across orf virus genomes. A total of 102 proteins composed the core genomes of 12 orf viruses, and we did not detect any differences in core genomes of orf virus clusters. All virus proteins known to be essential (e.g., vascular endothelial growth factor, interleukin-10, and nuclear factor-κB inhibitor protein) (*39*,*42*,*43*) are present in the genome of orf virus strain IHUMI-1.

Protein analysis showed an absence of a predicted homolog open reading frame 119 in orf virus IHUMI-1. For his region, Chi et al. (*27*) reported numerous deletions and gap sequences (Appendix Figure 3), especially for 3 strains (NP, SJ1, and IHUMI-1). Coverage was <80% in that region for strains SJ1 and IHUMI-1, and the gene was almost completely deleted for strain NP (only 24% coverage) compared with strain OV-SA00. The consequence for orf virus IHUMI-1 is the deletion of the ORF119 gene. This deletion has been implied in cell apoptosis (*44*,*45*). Nevertheless, deletion of this gene did not affect the virus cycle and strain virulence (*46*).

Discussion

We determined the complete genome of orf virus strain IHUMI-1 isolated from a human. This virus is the third smallest (by genome length) in the genus *Parapoxvirus*. The genome organization of orf virus IHUMI-1 is extremely similar in its synteny with those of other orf viruses that do not have a genetic inversion. Analysis of the predicted protein highlights strong protein conservation, except for the deletion in the ORF119 gene. The mitochondrial protein coded by this gene was recently described as being capable of increasing cell apoptosis (*44*,*45*). Despite this finding, our observations and a previous report showed no phenotypic modification in the virus cycle regarding this gene deletion (*46*).

Conversely, phylogenetic analysis of the entire virus genome showed clustering of orf viruses depending on the host (sheep or goats). This result was similar to those of previous analyses performed on different complete genomes by Chi et al. (*27*). Some studies did not report similar results; however, the phylogenetic trees in those studies

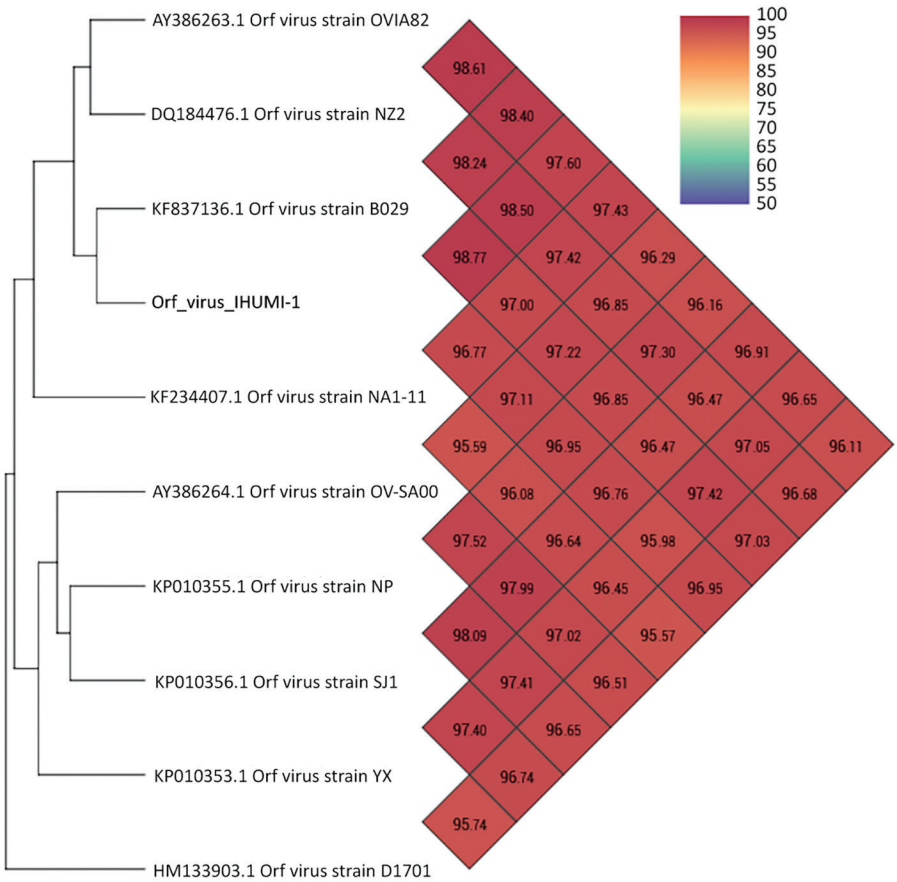

Figure 5. Heatmap representation of strain proximities across complete genomes of orf virus IHUMI-1 from a 65-year-old woman in France (red) and other available orf viruses. Because of the OrthoANi algorithm constraint, we deleted the complete genome of orf virus strain GO (GenBank accession no. KP010354.1) that clusters with orf virus strain NP and the complete genome of orf virus strain OV-HN3/12 (that clusters with NA1-11). GenBank accession numbers are provided for reference isolates. Values indicate percent similarity of nucleotides.

were limited to analysis of a few genes, such as the partial B2L gene (*47–49*). More complete genomes are needed to confirm this trend and verify there are 2 types of orf virus. In addition, we observed clustering on the whole genome between the IHUMI-1 and B029 strains of orf virus after human infection. Further investigations using more complete genome sequences might be able to confirm if some genetically related strains have the potential capacity to cross species barriers.

Numerous strains of parapoxviruses that infect animals are believed to show variable virulence in humans (e.g., orf strain D1701). However, implication of the host immune system in the severity of orf virus disease and in its evolution have been demonstrated (*50*).

Our results highlight the necessity of obtaining more complete genomes for parapoxviruses and retracing the route of infection when humans are infected. Further investigations of parapoxviruses should address the difficulties in isolating and cultivating this fastidious virus by using nonconventional cells for diagnostic analysis. However, recent description of a seal parapoxvirus (*1*) with a high-quality genome sequence obtained directly from a clinical sample could bypass the culture problem. In contrast, isolating the viral particle will always help to improve clinical research and future innovations.

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About the Author

Mr. Andreani is a PharmD-PhD student in the Institut National de la Santé et de la Recherche Médicale program at Aix-Marseille University, Marseille, France. His research interests include isolation and genomic characterization of large and giant DNA viruses.

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Address for correspondence: Bernard La Scola, Aix Marseille Université, Institut Hospitalo-Universitaire Méditerranée Infection, 19-21 Bd Jean Moulin, 13005 Marseille, France; email: bernard.la-scola@univ-amu.fr

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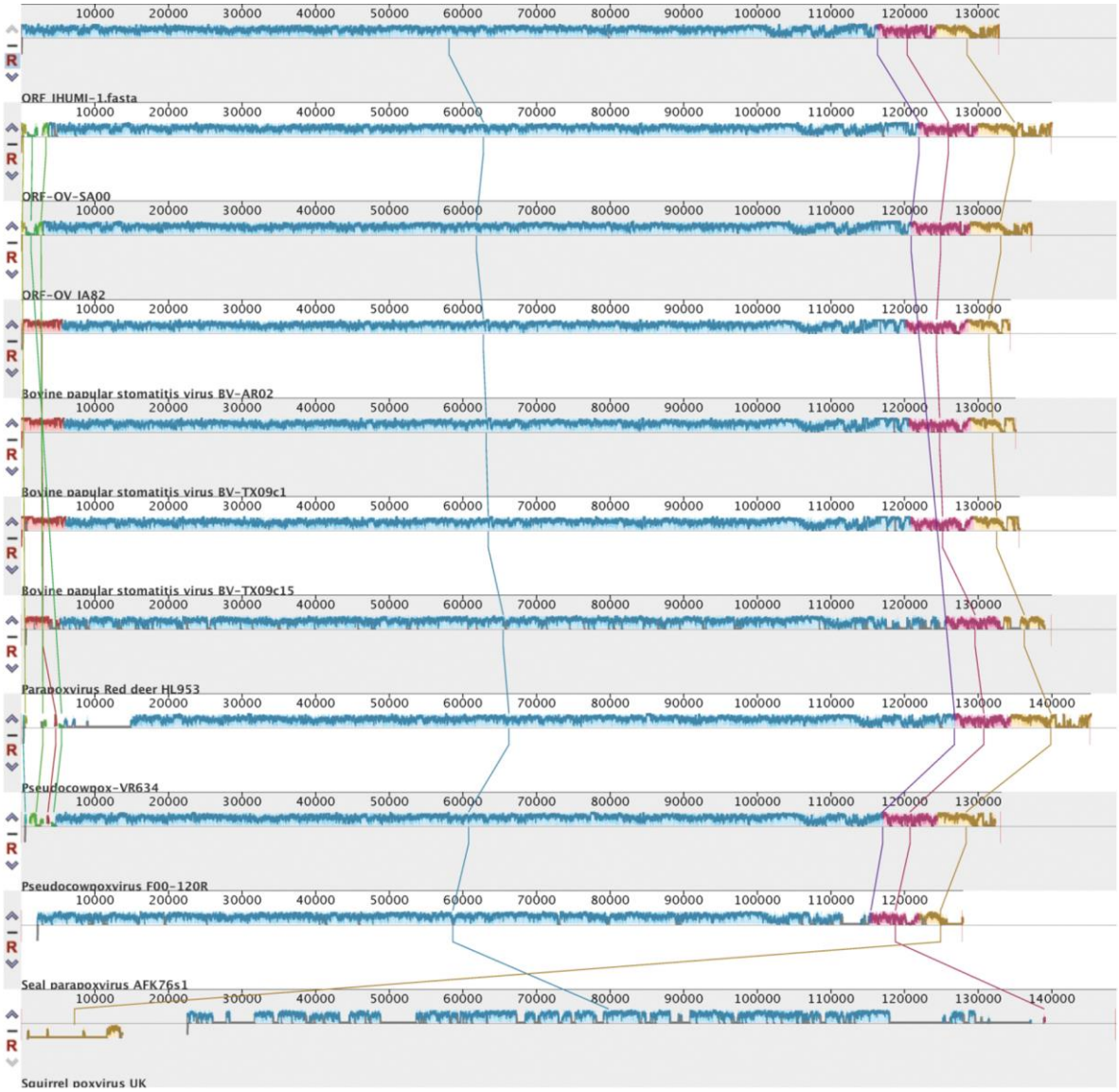
Human Infection with Orf Virus and Description of Its Whole Genome, France, 2017

Appendix

Appendix Figure 1. Mauve alignment obtained for orf virus genomes, France, 2017.



Appendix Figure 2. Mauve alignment obtained for different parapoxvirus genomes, France, 2017.

Appendix Figure 3 (below). Alignment of sequences for orf viruses, France, 2017.

Tools (/Tools/) > Multiple Sequence Alignment (/Tools/msa) > MView

Results for job mview-I20180712-133951-0236-40078163-p1m

```
Reference sequence (1): Orf_virus_OV-SA00_NC_005336.1_115015-122053
Identities normalised by aligned length.
Colored by: identity
```

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                                                    cov    pid   1 [         .         .         .         .         :         .         .         . 80
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGACTTCGTAAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 2 Orf_virus_D1701                              98.3%  88.3%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGGCTTCGTAAACGCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 3 Orf_virus_NA1-11                             97.9%  87.5%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGGCTTCGTAAACGCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGGCTTCGTAAACGCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGGCTTCGTAAACGCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 6 Orf_virus_NZ2                                98.5%  88.2%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGGCTTCGTAAACGCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 7 Orf_virus_YX                                 98.1%  95.5%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGACTTCGTAAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 8 Orf_virus_GO                                 98.8%  96.4%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGACTTCGTAAACTTGCAGACATGCCGCTGTTCCGGAAGCTCATGG
 9 Orf_virus_B029                               91.8%  81.7%      TACGACGAGTAGCCGCCAAAACTGAATAACTACCGGACTTCGTAAACGCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGACTTCGTAAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
11 Orf_virus_SJ1                                77.2%  74.2%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGACTTCGTAAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
12 Orf_virus_NP                                 24.1%  23.5%      TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGACTTCGTAAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
   consensus/100%                                                 TACGACGAGTAGCCGCCAAAACTGAATAACTAsCGGuCTTCGTAAACssGCAGACATGCCGCTGTTCCGGAAGCTCATGG
   consensus/90%                                                  TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGuCTTCGTAAACsCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
   consensus/80%                                                  TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGuCTTCGTAAACsCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
   consensus/70%                                                  TACGACGAGTAGCCGCCAAAACTGAATAACTATCGGuCTTCGTAAACsCGCAGACATGCCGCTGTTCCGGAAGCTCATGG

                                                    cov    pid  81           .         1         .         .         .         .         :         . 160
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TCTCCCGCGCCCTCGTCAAGGAATGTTTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACCCGATGCTTCCTCCCG
 2 Orf_virus_D1701                              98.3%  88.3%      TCTCTCGCGCCCTCGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTGCCCACGCGATGCTTCCTCCCG
 3 Orf_virus_NA1-11                             97.9%  87.5%      TTTCGCGCTCCCTGGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACGCGATGCTTCCTCCCA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TTTCGCGCTCCCTGGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACGCGATGCTTCCTCCCA
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TTTCGCGCTCCCTGGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACCCGATGCTTCCTCCCG
 6 Orf_virus_NZ2                                98.5%  88.2%      TTTCGCGCTCCCTGGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCTACGCGATGCTTCCTCCCG
 7 Orf_virus_YX                                 98.1%  95.5%      TCTCCCGCGCCCTCGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACCCGATGCTTCCTCCCG
 8 Orf_virus_GO                                 98.8%  96.4%      TCTCCCGCGCCCTCGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACCCGATGCTTCCTCCCG
 9 Orf_virus_B029                               91.8%  81.7%      TTTCGCGCTCCCTGGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACGCGATGCTTCCTCCCG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TTTCGCGCTCCCTGGTCAAAGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTGCCCACGCGATGCTTCCTCCCG
11 Orf_virus_SJ1                                77.2%  74.2%      TCTCCCGCGCCCTCGTTAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACCCGATGCTTCCTCCCG
12 Orf_virus_NP                                 24.1%  23.5%      TCTCCCGCGCCCTCGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACCCGATGCTTCCTCCCG
   consensus/100%                                                 TsTCsCGCsCCCTsGTsAAuGAATGTsTGACTCTGGACTTCCGGCAGGGCGAGCGTCTsCCsACsCGATGCTTCCTCCCu
   consensus/90%                                                  TsTCsCGCsCCCTsGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTsCCCACsCGATGCTTCCTCCCu
   consensus/80%                                                  TsTCsCGCsCCCTsGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACsCGATGCTTCCTCCCG
   consensus/70%                                                  TsTCsCGCsCCCTsGTCAAGGAATGTCTGACTCTGGACTTCCGGCAGGGCGAGCGTCTCCCCACsCGATGCTTCCTCCCG

                                                    cov    pid 161           .         .         .         2         .         .         .         . 240
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTGCAGGAGCC
 2 Orf_virus_D1701                              98.3%  88.3%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACAAACGAAGTCTCCCGGCACGTGCAGGAGCC
 3 Orf_virus_NA1-11                             97.9%  87.5%      GTGCCCGCTGGGACGACATTCCACAGAGTCTGCGACACTTCGCCGCTGACGGACGAAGTCTCCCGGCACGTGCAGGAGCC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GTGCCCGCTGGGACGACATTCCACAGAGTCTGCGACACTTCGCCGCTGACGGACGAAGTCTCCCGGCACGTGCAGGAGCC
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGGACGAAGTATCCCGGCACGTGCAGGAGCC
 6 Orf_virus_NZ2                                98.5%  88.2%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGGACGAAGTCTCCCGGCACGTGCAGGAGCC
 7 Orf_virus_YX                                 98.1%  95.5%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTGCAGGAGCC
 8 Orf_virus_GO                                 98.8%  96.4%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCCGGCACGTGCAGGAGCC
 9 Orf_virus_B029                               91.8%  81.7%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGGACGAAGTCTCCCGGCACGTGCAGGAGCC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GTGCCCGCAGGGACAACCTTCCACAGAGTCTGCGACACCTCGCCGCTGACGGACGAAGTCTCCCGGCACGTGCAGGAGCC
11 Orf_virus_SJ1                                77.2%  74.2%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCCGGCACGTGCAGGAGCC
12 Orf_virus_NP                                 24.1%  23.5%      GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACAAACGAAGTCTCCCGGCACGTGCAGGAGCC
   consensus/100%                                                 GTGCCCGCsGGGACuACsTTCCACAGAGTCTGCGACACsTCGCCGCTGACuuACGAAGTsTCCsGGCACGTGCAGGAGCC
   consensus/90%                                                  GTGCCCGCsGGGACGACATTCCACAGAGTCTGCGACACsTCGCCGCTGACuuACGAAGTCTCCsGGCACGTGCAGGAGCC
   consensus/80%                                                  GTGCCCGCuGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGuACGAAGTCTCCCGGCACGTGCAGGAGCC
   consensus/70%                                                  GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGuACGAAGTCTCCCGGCACGTGCAGGAGCC

                                                    cov    pid 241           :         .         .         .         .         3         .         . 320
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCACGCCGC
 2 Orf_virus_D1701                              98.3%  88.3%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCATGCCGC
 3 Orf_virus_NA1-11                             97.9%  87.5%      CGTCATGGGCACCGGACGAGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCATGCCGC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CGTCATGGGCACCGGACGAGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCATGCCGC
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGGCAGGGCATGATCGGCGACAACGCGGGCATGTCGC
 6 Orf_virus_NZ2                                98.5%  88.2%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCATGGCGC
 7 Orf_virus_YX                                 98.1%  95.5%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCACGCCGC
 8 Orf_virus_GO                                 98.8%  96.4%      CGTCATGAGCACCGGAAGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGAATGCCGC
 9 Orf_virus_B029                               91.8%  81.7%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGGCAGGGCATGATCGGCGACAACGCGGGCATGGCGC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCATGCCGC
11 Orf_virus_SJ1                                77.2%  74.2%      CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCACGCCGC
12 Orf_virus_NP                                 24.1%  23.5%      CGTCGCATGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCA------
   consensus/100%                                                 CGTCusGCACCGGAsGuGTCCAGTACTACTACTTCGAGAGCGGsCAGGGCATGATCGGCGACAACGCGGGsA......
   consensus/90%                                                  CGTCATGuGCACCGGACGuGTCCAGTACTACTACTTCGAGAGCGGsCAGGGCATGATCGGCGACAACGCGGGCAsGsCGC
   consensus/80%                                                  CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCAsGsCGC
   consensus/70%                                                  CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTCGAGAGCGGCCAGGGCATGATCGGCGACAACGCGGGCAsGsCGC

                                                    cov    pid 321           .         .         :         .         .         .         .         4 400
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                                                  cov    pid
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   GCATGCTCGTGTGCACGCGGTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAAACC
 2 Orf_virus_D1701                              98.3%  88.3%   G---GCTCGTGTGCACGCGCTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCGGACAAGACC
 3 Orf_virus_NA1-11                             97.9%  87.5%   GCATGCTCGTGTGCACGCGCTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAGACC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%   GCATGCTCGTGTGCACGCGCTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAGACC
 5 Orf_virus_OV-IA82                            98.6%  88.5%   GCATGCTCGTGTGCACGCGCTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAGACC
 6 Orf_virus_NZ2                                98.5%  88.2%   GCATGCTCGTGTGCACGCGGTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAGACC
 7 Orf_virus_YX                                 98.1%  95.5%   GCATGCTCGTGTGCACGCGGTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAAACC
 8 Orf_virus_GO                                 98.8%  96.4%   GCATGCTCGTGTGCACGCGGTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAAACC
 9 Orf_virus_B029                               91.8%  81.7%   GCATGCTCGTGTGCACGCGGTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAGACT
10 Orf_virus_IHUMI-1                            78.5%  70.9%   GCATGCTCGTGTGCACGCGCTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAGACC
11 Orf_virus_SJ1                                77.2%  74.2%   GCATGCTCGTGTGCACGCGGTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAAACC
12 Orf_virus_NP                                 24.1%  23.5%   ------------------------------------------------------------------------------
   consensus/100%                                               ..............................................................................
   consensus/90%                                                G...GCTCGTGTGCACGCGsTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCuGACAAuACs
   consensus/80%                                                GCATGCTCGTGTGCACGCGsTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAuACC
   consensus/70%                                                GCATGCTCGTGTGCACGCGsTCGGCGTACAACGGCGGCGACGTCGTCGTGCGGTCCACGCGGAGCAGAGCAGACAAuACC

                                                  cov    pid  401         .         .         .         .         :         .         .         . 480
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
 2 Orf_virus_D1701                              98.3%  88.3%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
 3 Orf_virus_NA1-11                             97.9%  87.5%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
 5 Orf_virus_OV-IA82                            98.6%  88.5%   GTGGTCGCGCCCTGCCAGGGCATGGCGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
 6 Orf_virus_NZ2                                98.5%  88.2%   GTGGTCGCGCCCTGCCAGGGCATGGCGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTCGAGAGCGGCTC
 7 Orf_virus_YX                                 98.1%  95.5%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGTTGCTGAGTCCCTTCTGCGCCTTCGACATCACGCCGGTCGAGAGCGGCTC
 8 Orf_virus_GO                                 98.8%  96.4%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGTTGCTGAGTCCCTTCTGCGCCTTCGACATCACGCCGGTCGAGAGCGGCTC
 9 Orf_virus_B029                               91.8%  81.7%   GTGGTCGCGCCCTGCCAGGGCATGGCGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
10 Orf_virus_IHUMI-1                            78.5%  70.9%   GTGGTCGCGCCCTGCCAGGGCATGGCGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
11 Orf_virus_SJ1                                77.2%  74.2%   GTGGTCGCGCCCTGCCAGGGCATGGTGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTGGAGAGCGGCTC
12 Orf_virus_NP                                 24.1%  23.5%   ------------------------------------------------------------------------------
   consensus/100%                                               ..............................................................................
   consensus/90%                                                GTGGTCGCGCCCTGCCAGGGCATGGsGCTGsTGCTGAGsCCCTTCTGCGCCTTCGACATCACGCCGGTsGAGAGCGGCTC
   consensus/80%                                                GTGGTCGCGCCCTGCCAGGGCATGGsGCTGsTGCTGAGsCCCTTCTGCGCCTTCGACATCACGCCGGTsGAGAGCGGCTC
   consensus/70%                                                GTGGTCGCGCCCTGCCAGGGCATGGsGCTGCTGCTGAGCCCCTTCTGCGCCTTCGACATCACGCCGGTsGAGAGCGGCTC

                                                  cov    pid  481         .         5         .         .         .         .         :         . 560
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   CGCGATATTCGCGGAGGTCACGGTCGGCGCGCCCAGCATGGACCACGTCGAGGCGGTCGCCGGCGACGGCGACGCGGCCG
 2 Orf_virus_D1701                              98.3%  88.3%   CGCGATATTCGCGGAGGTCATCGTCACCGCGCCCAGCATGGACCACGTCGAGGCGGTCACCGGCACGGGCGAGGCGGCCG
 3 Orf_virus_NA1-11                             97.9%  87.5%   CGCGATATTTGCGGAGGTCATCGTCACCGCGCCCAGCATGGACCACGTCGAGGCGGTCACCGGCACGGGCGAGGCGGCCG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%   CGCGATATTTGCGGAGGTCATCGTCACCGCGCCCAGCATGGACCACGTCGAGGCGGTCACCGGCACGGGCGAGGCGGCCG
 5 Orf_virus_OV-IA82                            98.6%  88.5%   CGCGATATTCGCGGAGGTCATCGTCACTTCGCCCAGCATGGACCACGTCGAGGCGGTCACCGGCACGGGCGAGGCGGCCG
 6 Orf_virus_NZ2                                98.5%  88.2%   CGCGATATTCGCGGAGGTCATCGTCACCGCGCCCAGCATGGACTACGTCGAGGCGGTCACCGGCACGGGCGAGGCGGCCG
 7 Orf_virus_YX                                 98.1%  95.5%   CGCGATATTCGCGGAGGTCACGGTCGGCGCGCCCAGCATGGACCACGTCGAGGCGGTCGCCGGCGACGGCGACGCGGCCG
 8 Orf_virus_GO                                 98.8%  96.4%   CGCGATATTCGCGGAGGTCACGGTCGGCGCGCCCAGCATGGACCACGTCGAGGCGGTCGCCGGAGACGGCGACGCGGCCG
 9 Orf_virus_B029                               91.8%  81.7%   CGCGATATTCGCGGAGGTCATCGTCACCGCGCCCAGCATGGACCACGTCGAGGCGGTCACCGGCACGGGCGAGGCGGCCG
10 Orf_virus_IHUMI-1                            78.5%  70.9%   CGCGATATTCGCGGAGGTCATCGTCACCGCGCCCAGCATGGACCACGTCGAGGCGGTCACCAGCACGGGCGAGGCGGCCG
11 Orf_virus_SJ1                                77.2%  74.2%   CGCGATATTCGCGGAGGTCACGGTCGGCGCGCCCAGCATGGACCACGTCGAGGCGGTCGCCGGTGACGGCGACGCGGCCG
12 Orf_virus_NP                                 24.1%  23.5%   ------------------------------------------------------------------------------
   consensus/100%                                               ..............................................................................
   consensus/90%                                                CGCGATATTsGCGGAGGTCAssGTCusssCGCCCAGCATGGACsACGTCGAGGCGGTCuCCuGsussGGCGAsGCGGCCG
   consensus/80%                                                CGCGATATTsGCGGAGGTCAssGTCusCGCGCCCAGCATGGACCACGTCGAGGCGGTCuCCGGsussGGCGAsGCGGCCG
   consensus/70%                                                CGCGATATTCGCGGAGGTCAssGTCusCGCGCCCAGCATGGACCACGTCGAGGCGGTCuCCGGCussGGCGAsGCGGCCG

                                                  cov    pid  561         .         .         .         6         .         .         . 640
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCAAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 2 Orf_virus_D1701                              98.3%  88.3%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 3 Orf_virus_NA1-11                             97.9%  87.5%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 5 Orf_virus_OV-IA82                            98.6%  88.5%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 6 Orf_virus_NZ2                                98.5%  88.2%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 7 Orf_virus_YX                                 98.1%  95.5%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 8 Orf_virus_GO                                 98.8%  96.4%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
 9 Orf_virus_B029                               91.8%  81.7%   TTCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
10 Orf_virus_IHUMI-1                            78.5%  70.9%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
11 Orf_virus_SJ1                                77.2%  74.2%   TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
12 Orf_virus_NP                                 24.1%  23.5%   ------------------------------------------------------------------------------
   consensus/100%                                               ..............................................................................
   consensus/90%                                                TsCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCuAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
   consensus/80%                                                TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC
   consensus/70%                                                TGCGGATATTCAACTCGCACCACCCGCTCTGGCCGCGACACGGCTCGAACGTCTGCTTCGCGCTGCGGTTGCTGCGAGAC

                                                  cov    pid  641         :         .         .         .         .         7         .         . 720
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   GCGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATAGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 2 Orf_virus_D1701                              98.3%  88.3%   GCGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATAGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 3 Orf_virus_NA1-11                             97.9%  87.5%   GTGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATGGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%   GTGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATGGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 5 Orf_virus_OV-IA82                            98.6%  88.5%   GTGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATGGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 6 Orf_virus_NZ2                                98.5%  88.2%   GTGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATGGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 7 Orf_virus_YX                                 98.1%  95.5%   GCGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATAGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 8 Orf_virus_GO                                 98.8%  96.4%   GCGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATAGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
 9 Orf_virus_B029                               91.8%  81.7%   GTGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATGGACGGGCGCTGGCACACCGTGTTGAGGACGTCCTGCGGCAA
10 Orf_virus_IHUMI-1                            78.5%  70.9%   GTGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATGGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
11 Orf_virus_SJ1                                77.2%  74.2%   GCGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATAGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
12 Orf_virus_NP                                 24.1%  23.5%   ------------------------------------------------------------------------------
   consensus/100%                                               ..............................................................................
   consensus/90%                                                GsGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATuGACGGGCGCTGGCACACCGTGsTGAGGACGTCCTGCGGCAA
   consensus/80%                                                GsGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATuGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA
   consensus/70%                                                GsGCGCACGGGCGAGCGCGTGGTCGAGCAGATGTTCATuGACGGGCGCTGGCACACCGTGCTGAGGACGTCCTGCGGCAA

                                                  cov    pid  721         .         .         :         .         .         .         .         8 800
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   CAAGGTCTGCGTGCCCGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGATATCA
 2 Orf_virus_D1701                              98.3%  88.3%   CAAGGTCTGCGTGCCTGCCGACCTCGTGGGCCATACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAAATCA
 3 Orf_virus_NA1-11                             97.9%  87.5%   CAAGGTCTGCGTGCCTGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAGATCA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%   CAAGGTCTGCGTGCCTGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAGATCA
 5 Orf_virus_OV-IA82                            98.6%  88.5%   CAAGGTCTGCGTGCCCGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAGATCA
 6 Orf_virus_NZ2                                98.5%  88.2%   CAAGGTCTGCGTGCCCGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAGATCA
 7 Orf_virus_YX                                 98.1%  95.5%   CAAGGTCTGTGTGCCCGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGATATCA
 8 Orf_virus_GO                                 98.8%  96.4%   CAAGGTTTGCGTGCCCGCAGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGATATCA
 9 Orf_virus_B029                               91.8%  81.7%   CAAGGTCTGCGTGCCCGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAGATCG
10 Orf_virus_IHUMI-1                            78.5%  70.9%   CAAGGTCTGCGTGCCCGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAGATCA
11 Orf_virus_SJ1                                77.2%  74.2%   CAAGGTCTGCGTGCCCGCAGACCTCGTGGGCCAGACGAGCCTCGAGGAGGTGCCCTTCTGCGACGTAACGCCCGAGATCA
12 Orf_virus_NP                                 24.1%  23.5%   ------------------------------------------------------------------------------
   consensus/100%                                               ..............................................................................
   consensus/90%                                                CAAGGTsTGsGTGCCsGCsGACCTCGTGGGCCAsACGAuCCTCGAGGAGGTGCCCTTCTGCGACGTuACGCCCGAsATCu
   consensus/80%                                                CAAGGTCTGCGTGCCsGCsGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAsATCA
   consensus/70%                                                CAAGGTCTGCGTGCCsGCCGACCTCGTGGGCCAGACGAACCTCGAGGAGGTGCCCTTCTGCGACGTGACGCCCGAsATCA

                                                  cov    pid  801         .         .         .         .         :         .         .         . 880
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   TGCGCCGCGCGCTGGCGATCGACCCGCCGTACGAGGCCGTGGCGCACCCGCGCCGCTGCGTGTACGGGGCCATGGACGTC
 2 Orf_virus_D1701                              98.3%  88.3%   TGCGCCGCGCGCTGGCGATCGACCCGCCGTACGAGGCCGTGGCGCACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
 3 Orf_virus_NA1-11                             97.9%  87.5%   TGCGCCGCGCACTGGCGATCGACCCGCCGTACGAGGCCGTGGCGCACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
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 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     TGCGCCGCGCACTGGCGATCGACCCGCCGTACGAGGCCGTGGCGCACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
 5 Orf_virus_OV-IA82                            98.6%  88.5%     TGCGCCGCGCACTGGCGATCGACCCGCCGTACGAGGCCGTGGCGCACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
 6 Orf_virus_NZ2                                98.5%  88.2%     TGCGCCGCGCGCTGGCGATCGACCCGCCGTACGAGGCCGTGGCGCACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
 7 Orf_virus_YX                                 98.1%  95.5%     TGCGCCGCGCGCTGGCGATCAACCCGCCGTACGAGGCCGTGGCGCACCCGCGCCGCTGCGTGTACGGCGCTATGGACGTC
 8 Orf_virus_GO                                 98.8%  96.4%     TGCGCCGCGCGCTGGCGATCAACCCGCCGTACGAGGCCGTGGCGCACCCGCGCCGCTGCGTGTACGGCGCCATGGACGTC
 9 Orf_virus_B029                               91.8%  81.7%     TGCGCCGCGCGCTGGCGATCGACCCGCCGTACGAGGCCGTGGCGTACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
10 Orf_virus_IHUMI-1                            78.5%  70.9%     TGCGCCGCGCGCTGGCGATCGACCCGCCGTACGAAGCCGTGGCGCACCCGCACCGCTGCGTGTACGGCGCCATGGACGTC
11 Orf_virus_SJ1                                77.2%  74.2%     TGCGCCGCGCGCTGGCGATCAACCCGCCGTACGAGGCCGTGGCGCACCCGCGCCGCTGCGTGTACGGCGTTATGGACGTC
12 Orf_virus_NP                                 24.1%  23.5%     --------------------------------------------------------------------------------
   consensus/100%                                                ................................................................................
   consensus/90%                                                 TGCGCCGCGCuCTGGCGATCuACCCGCCGTACGAuGCCGTGGCGsACCCGCuCCGCTGCGTGTACGGsGssATGGACGTC
   consensus/80%                                                 TGCGCCGCGCuCTGGCGATCuACCCGCCGTACGAGGCCGTGGCGCACCCGCuCCGCTGCGTGTACGGCGCsATGGACGTC
   consensus/70%                                                 TGCGCCGCGCuCTGGCGATCuACCCGCCGTACGAGGCCGTGGCGCACCCGCuCCGCTGCGTGTACGGCGCCATGGACGTC

                                                   cov    pid  881          .         9         .         .         .         .         :         . 960
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGGAGCACGTCCTCGCCGGGCCC-GG
 2 Orf_virus_D1701                              98.3%  88.3%     CGGTGCGCGAACGAGTACCTTGTGTACTGCACCTTCAAAACGGAGCCGGCGCGGCGCAACACGTCCTCGCCGGGCCCTAG
 3 Orf_virus_NA1-11                             97.9%  87.5%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC-GG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC-GG
 5 Orf_virus_OV-IA82                            98.6%  88.5%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC-GG
 6 Orf_virus_NZ2                                98.5%  88.2%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGACACGGCGCAGCACGTCCTCGCCGGGCCC-GG
 7 Orf_virus_YX                                 98.1%  95.5%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGTACGTCCTCGCCGGGTCC-GG
 8 Orf_virus_GO                                 98.8%  96.4%     CGGTGCGCGAACGAGTACCTCGTGTACTGTACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC-GG
 9 Orf_virus_B029                               91.8%  81.7%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC-GG
10 Orf_virus_IHUMI-1                            78.5%  70.9%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGACACGGCGCAGCACGTCCTCGCCGGGCCC-GG
11 Orf_virus_SJ1                                77.2%  74.2%     CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC-GG
12 Orf_virus_NP                                 24.1%  23.5%     --------------------------------------------------------------------------------
   consensus/100%                                                ................................................................................
   consensus/90%                                                 CGGTGCGCGAACGAGTACCTsGTGTACTGsACCTTCAAuACGGAGCCGuCuCGGCGsAusACGTCCTCGCCGGGsCC.uG
   consensus/80%                                                 CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGuCuCGGCGCAGCACGTCCTCGCCGGGCCC.GG
   consensus/70%                                                 CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGCGGCGCAGCACGTCCTCGCCGGGCCC.GG

                                                   cov    pid  961          .         .         .         0         .         .         .         . 1040
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%     ACGGCCCCCTGTCGCCCGCGACTCCGTCGGCCTCGCAGCCCGCGGCCGCGCGCGCCCCGACGACGCCGCAGGAAGTGACC
 2 Orf_virus_D1701                              98.3%  88.3%     ACGCCCCCCTGTCGCCCGCGACTCCGTCAACCTCGCGGGCCGCGGCCGCGCGCGCCCCGACAACGCCGCAGGAAGTGACC
 3 Orf_virus_NA1-11                             97.9%  87.5%     ACGGCCCCTTGTCGCCCGCGACTCCGTCGACCTCGCGGGCCGTGGCCGCGCGCGCCCCGACGACGCCGCAGGAAGTGACC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     ACGGCCCCTTGTCGCCCGCGACTCCGTCGACCTCGCGGGCCGTGGCCGCGCGCGCCCCGACGACGCCGCAGGAAGTGACC
 5 Orf_virus_OV-IA82                            98.6%  88.5%     ACGGCCCCCTGTCGCCCGCGACTCCGTCGACCTCGCGGGCCGCGGCTGCGCGCGCCCCGACGACGCCGCAGGAAGTGGCC
 6 Orf_virus_NZ2                                98.5%  88.2%     ACAGCCCGCTGTCGCCCGCGACTCCGTCGACCTCGCGGGCCGCGGCCGCGCGCGTCCCCACGACGCCGCAGGAAGTGGCC
 7 Orf_virus_YX                                 98.1%  95.5%     ACGGCCCCCTGTCGCCCGCGACT---TTGATCTCGCAGGCCGCGGCCGCGCGCGCCCCGACGACGCCGCAGGAAGTGACC
 8 Orf_virus_GO                                 98.8%  96.4%     ACGGCCCCCTGTCGCCCGCGACTCCGTCGACTTCGCAGGCCGCGGCCGCGCGCGCCCCAACGACGCCGCAGGAAGTGACA
 9 Orf_virus_B029                               91.8%  81.7%     ACGGCCCCCTGTCGCCCGCGACTCCGTCGACCTCGCAGGCCGCGGCCGCGCGCGCCCCGACGACGCCGCAGGAAGTGGCC
10 Orf_virus_IHUMI-1                            78.5%  70.9%     ACAGCCCGCTGTCGCCCGCGACTCCGTCAACCTCGCAGGCCGCGGCCGCGCGCACCCCACGACGCCTCAGGAAGTGACC
11 Orf_virus_SJ1                                77.2%  74.2%     ACGGCCCCCTGTCGCCCGCGACTCCGTCGACTTCGCAGGCCGCGGCCGCGCGCGCCCCGACGACGCCGCAGGAAGTGACC
12 Orf_virus_NP                                 24.1%  23.5%     --------------------------------------------------------------------------------
   consensus/100%                                                ................................................................................
   consensus/90%                                                 ACusCCCssTGTCGCCCGCGACT...TsuussTCGCuGsCCGsGGCsGCGCGCusCCCsACuACGCCsCAGGAAGTGuCs
   consensus/80%                                                 ACuGCCCssTGTCGCCCGCGACTCCGTCuACsTCGCuGGCCGsGGCCGCGCGCGCCCCsACGACGCCGCAGGAAGTGuCC
   consensus/70%                                                 ACGGCCCCCTGTCGCCCGCGACTCCGTCGACCTCGCuGGCCGCGGCCGCGCGCGCCCCsACGACGCCGCAGGAAGTGuCC

                                                   cov    pid 1041          :         .         .         .         .         1         .         . 1120
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%     TCGCCGACCACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACTGACT-TGACC--AAGGA-CCCACCGTCCACT
 2 Orf_virus_D1701                              98.3%  88.3%     TCGC---CCACGAGGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACTGACCTAACCTGAAGGACCCACCACCGCCCACT
 3 Orf_virus_NA1-11                             97.9%  87.5%     TCGCCGACAACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCCAC-CTCACT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     TCGCCGACAACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCCAC-CTCACT
 5 Orf_virus_OV-IA82                            98.6%  88.5%     TCGCCGACCACGAGGCTCGTGGAGACCTGCCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCACCGTCCACT
 6 Orf_virus_NZ2                                98.5%  88.2%     TCGCCGACCACGAGGCTCCTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCACCGTCCACT
 7 Orf_virus_YX                                 98.1%  95.5%     TCGCCGACCACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACTGACT-TGACCCAAGGAC-CCCACCGTCCACT
 8 Orf_virus_GO                                 98.8%  96.4%     TCGCCGACCACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGAC------TGACCCAAAGGA-CCCCACCTCCACT
 9 Orf_virus_B029                               91.8%  81.7%     TCGCCGACCACGAGGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCCACCTCCACT
10 Orf_virus_IHUMI-1                            78.5%  70.9%     TCGCCAACCACGAGGCTCGTAGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCACCGTCCACT
11 Orf_virus_SJ1                                77.2%  74.2%     TCGCCGACCACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGAC------TGACCCGAGGGA-CCCACCGTCCACT
12 Orf_virus_NP                                 24.1%  23.5%     --------------------------------------------------------------------------------
   consensus/100%                                                ................................................................................
   consensus/90%                                                 TCGC...CsACGAuGCTCsTuGAGACCTGsCTGCGCGACGCCCTCGAC......TuACC..AuGus.CCCssC.ssCACT
   consensus/80%                                                 TCGCCuACsACGAuGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGAC......TGACCsuAuGGA.CCCssC.ssCACT
   consensus/70%                                                 TCGCCGACCACGAuGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACsGACs.TGACCCuAAGGA.CCCssCssCCACT

                                                   cov    pid 1121          .         .         :         .         .         .         .         2 1200
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%     CACATTCCACTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCGATAATTGAATTGTTATAGGACAAACAG
 2 Orf_virus_D1701                              98.3%  88.3%     CACATTCCACTGCCAGACAACAGACGCAAGCTTTTTTTGCATCTACCTCGCTGATAATTGAATTGTTATAGTACAAACAG
 3 Orf_virus_NA1-11                             97.9%  87.5%     CACGCACCACTTCCAGACGACAGACTCAGGCTTTTTCTGCATCTACCTCACTGATAATTGAATTGTTATAGGACAAACAG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     CACGCACCACTTCCAGACGACAGACTCAGGCTTTTTCTGCATCTACCTCGCTGATAATTGAATTGTTATAGGACAAACAG
 5 Orf_virus_OV-IA82                            98.6%  88.5%     CACATTCCACTGCCAGAC----AACTCAAGCTTTTTCTGCATCTACCTCGCTAATAATTGAATTGTTATAGTACAAACAG
 6 Orf_virus_NZ2                                98.5%  88.2%     CACATTCCACTGCCAGAC----AACTCAAGCTTTTTCTGCATCTACCTCGCTAATAATTGAATTGTTATAGGACAAACAG
 7 Orf_virus_YX                                 98.1%  95.5%     CACGTTCCACTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCGATAATTGAATTGTTATAGGACAAACAG
 8 Orf_virus_GO                                 98.8%  96.4%     CACATTCCACTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCGATAATTGAATTGTTATAGGACAAACAG
 9 Orf_virus_B029                               91.8%  81.7%     CACGCACCACTGCCAGACAACAGACTCAGGCTTTTTCTGCATCTACCTCGCTGATAATTGAATTGTTATAGGACAAACAG
10 Orf_virus_IHUMI-1                            78.5%  70.9%     CACATTCCACTGCCAGAC----AACGCAAGCTTTTTCTGCATCTACCTCGCTAATAATTGAATTGTTATAGTACAAACAG
11 Orf_virus_SJ1                                77.2%  74.2%     CACGTTCCACTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCGATAATTGAATTGTTATAGGACAAACAG
12 Orf_virus_NP                                 24.1%  23.5%     --------------------------------------------------------------------------------
   consensus/100%                                                ................................................................................
   consensus/90%                                                 CACussCCACssCCAGAC....uACsCAuGCTTTTTsTGCATCTACCTCuCsuATAATTGAATTGTTATAGsACAAACAG
   consensus/80%                                                 CACussCCACTsCCAGAC....uACsCAuGCTTTTTCTGCATCTACCTCuCsuATAATTGAATTGTTATAGsACAAACAG
   consensus/70%                                                 CACussCCACTGCCAGAC....uACTCAuGCTTTTTCTGCATCTACCTCuCsuATAATTGAATTGTTATAGsACAAACAG

                                                   cov    pid 1201          .         .         .         .         :         .         .         . 1280
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%     GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTCGACTCCATCTTCAACCGACGCCACCGTAATTTCGGGCCGGA
 2 Orf_virus_D1701                              98.3%  88.3%     GCGCACTCAAGCACAATGGCGTGTTTTCTCGAATTGTTAGACTCCATCTTCAACCGACGCCACCGTAATTTCAGGCCGGA
 3 Orf_virus_NA1-11                             97.9%  87.5%     GTGCACTCGAGCACAATGGCGTGTTTTCTCGAATTGTTAGACTCCATCTTCAACAGACACCACCGTAATTTCAGGCCGGA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     GCGCACTCGAGCACAATGGCGTGTTTTCTCGAATTGTTAGACTCTATCTTCAACCGACACCACCGTAATTTCGGGCCGGA
 5 Orf_virus_OV-IA82                            98.6%  88.5%     GCGCACTCGAGCACAATGGCGTGTTTTATCGAATTGTTAGACTCCATCTTCAACCGACACCACCGTAATTTCGGGCCGGA
 6 Orf_virus_NZ2                                98.5%  88.2%     GCGCACTCGAGCACAATGGCGTGTTTTATCGAATTGTTAGACTCCATCTTCAACCGACGCCACCGTAATTTCGGGCCGGA
 7 Orf_virus_YX                                 98.1%  95.5%     GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTCGACTCCATCTTCAACCGACACCACCGTAATTTTGGGCCGGA
 8 Orf_virus_GO                                 98.8%  96.4%     GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTCGACTCCATCTTCAACCGACACCACCGTAATTTTGGGCCGGA
 9 Orf_virus_B029                               91.8%  81.7%     GCGCACTCGAGCACAATGGCGTGTTTTATCGAATTGTTAGACTCCATCTTCAACCGACGCCACCGTAATTTCAGGCCGGA
10 Orf_virus_IHUMI-1                            78.5%  70.9%     GCGCACTCGAGCACAATGGCGTGTTTTATCGAATTGTTAGACTCCATCTTCAACCGACACCACCGTAATTTCAGGCCGGA
11 Orf_virus_SJ1                                77.2%  74.2%     GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTCGACTCCATCTTCAACCGACGCCACCGTAATTTCGGGCCGGA
12 Orf_virus_NP                                 24.1%  23.5%     --------------------------------------------------------------------------------
   consensus/100%                                                ................................................................................
   consensus/90%                                                 GsGCACTCuAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCsATCTTCAACsGACuCCACCGTAATTTsuGGCCGGA
   consensus/80%                                                 GCGCACTCGAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCCATCTTCAACCGACuCCACCGTAATTTsuGGCCGGA
   consensus/70%                                                 GCGCACTCGAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCCATCTTCAACCGACuCCACCGTAATTTCuGGCCGGA

                                                   cov    pid 1281          .         3         .         .         .         .         :         . 1360
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%     AGACATGTACAGGCCCTCCGACCCCACCCCGCCCTCCAAATCTCGCACTCCCCGCACCCCGCA---------CCAACACA
 2 Orf_virus_D1701                              98.3%  88.3%     AGACATGTACAGGCCCTCTGACGCCACCCCGCCCTCTCAATATCGCACGCCTCGCACTCCCCGCACCCCGCACCAACACA
 3 Orf_virus_NA1-11                             97.9%  87.5%     AGACATGTACAGGCCCTCTGACG---CCCCGCCCCCCAAATCTCACACGCCTCGCACTCCCCG---------------CA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%     AGACATGTACAGGCCCTCTGACG---CCCCGCCCCCCAAATCTCACACGCCTCGCACTCCCCG---------------CA
 5 Orf_virus_OV-IA82                            98.6%  88.5%     GGACATGTACAGGCCCTCTGACG---CCCCGCCCCCCAAATCTCACACGCCTCGCACTCCCCG---------------CA
 6 Orf_virus_NZ2                                98.5%  88.2%     GGACATGTACAGGCCCTCTGACG---CCCCGCCCCCCAAATCGCACACGCCTCGCACTCCCCG---------------CA
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                                                  cov    pid
 7 Orf_virus_YX                                  98.1%  95.5%   AGACATGTACAGGCCCTCCGACCCCACCCCGCCCTCCAAATCTCACACTCCCCGCACCCTGCA---------CCAACACA
 8 Orf_virus_GO                                  98.8%  96.4%   AGACATGTACAGGCCCTCCGACCCCACCCCGCCCTCCAAATCTCGCACTCCCCGCACCCTGCA---------CCAACACA
 9 Orf_virus_B029                                91.8%  81.7%   GGACATGTACAGGCCCTCTGACG---CCCCGCCCCCCAAATCTCACACGCCTCGCACTCCCCG---------------CA
10 Orf_virus_IHUMI-1                             78.5%  70.9%   GGACATGTACAGGCCCTCTGACG---CCCCGCCCCCCAAATCTCACACGCCTCGCACCCCCCG---------------CA
11 Orf_virus_SJ1                                 77.2%  74.2%   AGACATGTACAGGCCCTCCGACCCCACCCCGCCCTCCAAATCTCGCACGCCTCGCACCCCGCA---------CCAACACA
12 Orf_virus_NP                                  24.1%  23.5%   --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                uGACATGTACAGGCCCTCsGACs...CCCCGCCCsCssAATssCuCACsCCsCGCACsCssCu...............CA
   consensus/80%                                                uGACATGTACAGGCCCTCsGACs...CCCCGCCCsCCAAATCTCuCACsCCsCGCACsCssCu...............CA
   consensus/70%                                                uGACATGTACAGGCCCTCsGACs...CCCCGCCCsCCAAATCTCuCACsCCsCGCACsCCsCu...............CA

                                                  cov    pid 1361          .         .         .         4         .         .         . 1440
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   CCCCGCGGAACCGGTGTCCTGAACGTCCGCGGCGACACAACTCTTCTCCCATCTGCGGTGCTTGTGTGGACTCCCTGCCG
 2 Orf_virus_D1701                               98.3%  88.3%   CCCCGCGGAACCAGTGTTCCGGACACCCGCGGCGACACAACTCCTCTCCCATCTGCGGTGCTTATGTGGACTCCCTGCCG
 3 Orf_virus_NA1-11                              97.9%  87.5%   CCCCGCGGACCCAGTGTCCCGGACACCCGCGGCGACAAAACTCCTCTCCCATCTACGGTGCTTATGTGGACTCCCTGCCG
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%   CCCCGCGGACCCAGTGTCCCGGACACCCGCGGCGACAAAACTCCTCTCCCATCTACGGTGCTTATGTGGACTCCCTGCCG
 5 Orf_virus_OV-IA82                             98.6%  88.5%   CCCCGCGGACCCAGTGTCCCGGACACCCGCGGCGACAAAGCTCCTCTCCCATCTACGGTGCTTATGTGGACTCCCTGCCG
 6 Orf_virus_NZ2                                 98.5%  88.2%   CCCCGCGGACCCAGTGTCCCGGACACCCGCGGCGACAAAGCTCCTCTCCCATCTACGGCGCTTATGTGGACTCCCTGCCG
 7 Orf_virus_YX                                  98.1%  95.5%   CCCCGCGGAACCAGTGTCCTGAACGTCCGCGGCGACACAACTCTTCTCCCATCTGCGGTGCTTGTGTGGACTCCCTGCCG
 8 Orf_virus_GO                                  98.8%  96.4%   CCCCGCGGAACCAGTGTCCTGAACGTCCGCGGCGACACAACTCTTCTCCCATCTGCGGTGCTTGTGTGGACTCCCTGCCG
 9 Orf_virus_B029                                91.8%  81.7%   CCCCGCGGACCCAGTGTTCCGGACACCCGCAGCGACAAAGCTCCTCTCCCATCTACGGTGCTTATGTGGACTCCCTGCCG
10 Orf_virus_IHUMI-1                             78.5%  70.9%   CCCCGCGGACCCAGTGTCCCGGACACCCGCGGCGACACAACTCCTCTCCCATCTACGGTGCTTATGTGGACTCCCTGCCG
11 Orf_virus_SJ1                                 77.2%  74.2%   CCCCGCGGAACCAGTGTCCTGAACGCCCGCGGCGACACAACTCTTCTCCCATCTGCGGTGCTTGTGTGGACTCCCTGCCG
12 Orf_virus_NP                                  24.1%  23.5%   --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                CCCCGCGGAsCCuGTGTsCsGuACusCCGCuGCGACAsAuCTCsTCTCCCATCTuCGGsGCTTuTGTGGACTCCCTGCCG
   consensus/80%                                                CCCCGCGGAsCCAGTGTsCsGuACusCCGCGGCGACAsAuCTCsTCTCCCATCTuCGGTGCTTuTGTGGACTCCCTGCCG
   consensus/70%                                                CCCCGCGGAsCCAGTGTCCsGuACusCCGCGGCGACAsAuCTCsTCTCCCATCTuCGGTGCTTuTGTGGACTCCCTGCCG

                                                  cov    pid 1441          :         .         .         .         .         5         . 1520
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   AGGAACAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
 2 Orf_virus_D1701                               98.3%  88.3%   AGGAACAGAAAGCGGTTCTGGCATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCCCGAACACCATCAGCCT
 3 Orf_virus_NA1-11                              97.9%  87.5%   AGGAACAGAAAGCGGTTCCAGAATCAACACAGTTGTCCCGAGGATTACGAGCGGTGTCAACTATCGGACACCATCAGCCT
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%   AGGAACAGAAAGCGGTTCCAGAATCAACACAGTTGTCCCGAGGATTACGAGCGGTGTCAACTATCGGACACCATCAGCCT
 5 Orf_virus_OV-IA82                             98.6%  88.5%   AGGAACAGAAAGCGGTTCCAGAATCAACACAGTTGTCCCGGAGATTACGAGCGGTGTCAACTCCAGGACACTATCAGCCT
 6 Orf_virus_NZ2                                 98.5%  88.2%   AGGAACAGAAAGCGGTTCCAGAATCAACACAGTTGTCCCGGAGATTACGAGCGGTGTCAACTCTCGGACACCATCAGCCT
 7 Orf_virus_YX                                  98.1%  95.5%   AGGAACAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
 8 Orf_virus_GO                                  98.8%  96.4%   AGGAACAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAAATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
 9 Orf_virus_B029                                91.8%  81.7%   AGGAACAGAAAGCGGTTCCAGAATCAACACAGTTGTCCCGGAGATTACGAGCGGTGTCAACTCTCGGACACCATCAGCCT
10 Orf_virus_IHUMI-1                             78.5%  70.9%   AGAAACAGAAAGCGGTTCCAGAATCAACACAGTTGTCCCGGAGATTACGAGCGGTGTCAACTCTCGGACACCATCAGCCT
11 Orf_virus_SJ1                                 77.2%  74.2%   AGGAACAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCGACTCTCGGAAACCATCAGCCT
12 Orf_virus_NP                                  24.1%  23.5%   --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                AGuAACAGAAAGCGGTTCsuGsATCuACACAGTTGTCCCGuuuATTACGAGCuGTGTCuACTsssGuAsACsATCAGCCT
   consensus/80%                                                AGGAACAGAAAGCGGTTCCAGsATCuACACAGTTGTCCCGuuGATTACGAGCuGTGTCAACTssCGGAsACCATCAGCCT
   consensus/70%                                                AGGAACAGAAAGCGGTTCCAGsATCuACACAGTTGTCCCGGAGATTACGAGCuGTGTCAACTCTCGGAsACCATCAGCCT

                                                  cov    pid 1521          .         .         :         .         .         .         6 1600
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   GGAGGCGACGCTACTCACGGTTACAACGACTTCCATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
 2 Orf_virus_D1701                               98.3%  88.3%   GGATGCGACGCTACTCACAGTTACATTGACGTC---------TATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
 3 Orf_virus_NA1-11                              97.9%  87.5%   GGAGGCGACGCTACTCACGGTTACAGTGACGTCCATCTCCAGCATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%   GGAGGCGACGCTACTCACGGTTACAGTGACGTCCATCTCCAGCATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
 5 Orf_virus_OV-IA82                             98.6%  88.5%   GGAGGCGACGCTACTCACGGTTACCTCGACTTC---------CATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
 6 Orf_virus_NZ2                                 98.5%  88.2%   GGATGCGACGCTACTCACGGTTACAGTGACGTC---------CATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
 7 Orf_virus_YX                                  98.1%  95.5%   GGAGGCGACGCTACTCACGGTTACAACGACTTCCATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
 8 Orf_virus_GO                                  98.8%  96.4%   GGAGGCGACGCTACTCACGGTTACAACGACTTCTATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
 9 Orf_virus_B029                                91.8%  81.7%   GGATGCGACGCTACTCACGGTTACAGTGACGTC---------CATCTCCAGCATATCCAGCTCCAGTAGCTCAGACTCTA
10 Orf_virus_IHUMI-1                             78.5%  70.9%   GGATGCGACGCTACTCACGGTTACAGTGACGTC---------CATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
11 Orf_virus_SJ1                                 77.2%  74.2%   GGAGGCGACGCTACTCACGGTTACAACGACTTCCATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
12 Orf_virus_NP                                  24.1%  23.5%   --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                GGAsGCGACGCTACTCACuGTTACsssGACsTC.........sATCTCCAGCATATsCAGCTCsAGTAGCTCAGACTCTA
   consensus/80%                                                GGAsGCGACGCTACTCACGGTTACAssGACsTC.........CATCTCCAGCATATsCAGCTCTAGTAGCTCAGACTCTA
   consensus/70%                                                GGAsGCGACGCTACTCACGGTTACAusGACsTC.........CATCTCCAGCATATsCAGCTCTAGTAGCTCAGACTCTA

                                                  cov    pid 1601          .         .         .         .         :         .         . 1680
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   TCTCTTTGGGGCAGTGCAGACTGTCCATGGTGTCTGCGACATCG------ACCTCCACGACCTTCTCCTCCTCGGAATGA
 2 Orf_virus_D1701                               98.3%  88.3%   GCTCTCTGGGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCG------ACCTCCACGACCCTATCCTCCTCGGAATGA
 3 Orf_virus_NA1-11                              97.9%  87.5%   GCTCTCTGGGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCACGACCTTCTCCTCCTCGGAATGA
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%   GCTCTCTGGGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCACGACCTTCTCCTCCTCGGAATGA
 5 Orf_virus_OV-IA82                             98.6%  88.5%   GCTCATTGGGGCAGTGCAGACTGTCCATTGTGTCCGCGACATCG------ACCTCCACGACCTTCTCCTACTCGTCCTGA
 6 Orf_virus_NZ2                                 98.5%  88.2%   TCTCTCTGGGGCAGTGCAGACTGTCCATGGTGTCCGCAACATCAACCTCCACCTCCACAACCTTCTCCTCCTCGGAATGA
 7 Orf_virus_YX                                  98.1%  95.5%   GCTCTCTGAGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCG------ACTTCCACGACATTTTCCTCCTCGGAATGA
 8 Orf_virus_GO                                  98.8%  96.4%   GCTCTCTGAGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCG------ACCTCCACGACATTTTCCTCCTCGGAATGA
 9 Orf_virus_B029                                91.8%  81.7%   TCTCTCTGGGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCACGACCTTCTCCTCCTCGGAATGA
10 Orf_virus_IHUMI-1                             78.5%  70.9%   TCTCTCTGGGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCACGACCTTCTCCTCCTCGGAATGA
11 Orf_virus_SJ1                                 77.2%  74.2%   TCTCTTTGGGGCAGTGCAGACTGTCCATGGTGTCTGCGACATCG------ACTTCCACGACATTTTCCTCCTCAGAATGA
12 Orf_virus_NP                                  24.1%  23.5%   --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                sCTCssTGuGGCAGTGCAGACTGTCCATsGTGTCsGCuACATCu......ACsTCCACuACssTsTCCTsCTCusssTGA
   consensus/80%                                                sCTCTsTGuGGCAGTGCAGACTGTCCATGGTGTCsGCGACATCG......ACsTCCACGACsTTsTCCTCCTCGGAATGA
   consensus/70%                                                sCTCTsTGGGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCG......ACCTCCACGACsTTsTCCTCCTCGGAATGA

                                                  cov    pid 1681          .         7         .         .         .         .         :         . 1760
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   ACGCTACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
 2 Orf_virus_D1701                               98.3%  88.3%   GCACCACACTTATTTTTGTATA--AGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
 3 Orf_virus_NA1-11                              97.9%  87.5%   GCGCCACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%   GCGCCACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
 5 Orf_virus_OV-IA82                             98.6%  88.5%   GCGCCACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
 6 Orf_virus_NZ2                                 98.5%  88.2%   GCGCCACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
 7 Orf_virus_YX                                  98.1%  95.5%   ACGCTACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGATACATCTACAAATAGTTAGGAAGCATGAGTAGTTCA
 8 Orf_virus_GO                                  98.8%  96.4%   ACGCTACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGATACATCTACAAATAGTTAGGAAGCATGAGTAGTTCA
 9 Orf_virus_B029                                91.8%  81.7%   GCACCACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
10 Orf_virus_IHUMI-1                             78.5%  70.9%   GCGCCACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAGACATCCACAAATAGTTAGGAAGCATGAGTAGTTCA
11 Orf_virus_SJ1                                 77.2%  74.2%   ACGCTACGCTTATTTTTGTATAATAGTTTGTATTGAACCTTAGATACATCTACAAATAGTTAAGAAGCATGAGTAGTTCA
12 Orf_virus_NP                                  24.1%  23.5%   --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                uCuCsACuCTTATTTTTGTATA..AGTTTGTATTGAACCTTAGAsACATCsACAAATAGTTAuGAAGCATGAGTAGTTCA
   consensus/80%                                                uCuCsACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAsACATCsACAAATAGTTAGGAAGCATGAGTAGTTCA
   consensus/70%                                                uCGCsACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGAsACATCsACAAATAGTTAGGAAGCATGAGTAGTTCA

                                                  cov    pid 1761          .         .         .         8         .         .         . 1840
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%   AGTAACGAGCCCAC------CCCTAAGCCCAAGCCCCCTGCTCCCATGACTCAGGAGGAGTTTAACAAAGAAGTAGAGAA
 2 Orf_virus_D1701                               98.3%  88.3%   AGTAGCGAAACCACACCTAAGCCCAAGCCTATCCCTGCTCCCCCCATGACTCAGGAGGAGTTCAACAGAGAAGTAGAGAA
 3 Orf_virus_NA1-11                              97.9%  87.5%   AGTAGCGAGACCAC------GCCCAAGCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTCAACAAAGAAGTAAAGAA
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%   AGTAGCGAGACCAC------GCCCAAGCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTCAACAAAGAAGTAAAGAA
 5 Orf_virus_OV-IA82                             98.6%  88.5%   AGTAGCGAGACCACCCCCTAAGCCCAAGCCCATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAACAAAGAAGTGAAGAA
 6 Orf_virus_NZ2                                 98.5%  88.2%   AGTAGCGAGACCACCCCCTAAGCCCAAGCCCATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAACAAAGAAGTGAAGAA
 7 Orf_virus_YX                                  98.1%  95.5%   AGTAACGAGACCAC------CCCTAAGCCC---CCTGCTCCTCCCATGACCCAGGATGAGTTTAACAAAGAAGTAGAGAA
 8 Orf_virus_GO                                  98.8%  96.4%   AGTAACGAGACCAC------CCCTAAGCCC------CCTTCTCCCATGACCCAGGAGGAGTTTAACAAAGAAGTAGAGAA
 9 Orf_virus_B029                                91.8%  81.7%   AGTAGCGAGACTAC------GCCCAAGCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAACAAAGAAGTAGAGAA
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10 Orf_virus_IHUMI-1                               78.5%  70.9%       AGTAGCGAGACTAC------GCCCAAGCCCATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAACAAAGAAGTGAAGAA
11 Orf_virus_SJ1                                   77.2%  74.2%       AGTAACGAGACCAC------CCCTAAGCCC---CCTGCTCCTCCCATGACCCAGGATGAGTTTAACAAAGAAGTAGAGAA
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                     ................................................................................
   consensus/90%                                                      AGTAuCGAusCsAC......sCCsAAGCCs......sCTsCsCCCATGACsCAGGAsGAGTTsAACAuAGAAGTuuAGAA
   consensus/80%                                                      AGTAuCGAGACsAC......sCCsAAGCCs...CCssCTsCTCCCATGACsCAGGAsGAGTTsAACAAAGAAGTuuAGAA
   consensus/70%                                                      AGTAuCGAGACCAC......sCCsAAGCCs...CCTGCTCCTCCCATGACsCAGGAGGAGTTsAACAAAGAAGTuuAGAA

                                                   cov    pid  1841       :         .         .         .         .         9         .          . 1920
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       ACGAAGAGAACAAAAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTGTCTGCCGACGGAACAG
 2 Orf_virus_D1701                                 98.3%  88.3%       ATGGGAAGAAAAGAAAAGGGAAAAATCTAGAATCGTTGAACGTGAGGCGGAAACCGTAACTGTGTCTGCCGACGGAACAG
 3 Orf_virus_NA1-11                                97.9%  87.5%       ACGGGAAGAAAGGAAAAGGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTATCTTCCGACGGATCAG
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%       ACGGGAAGAAAGGAAAAGGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTATCTTCCGACGGATCAG
 5 Orf_virus_OV-IA82                               98.6%  88.5%       ACGAAAAGAACAGAAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTATCTTCCGACGGATCAG
 6 Orf_virus_NZ2                                   98.5%  88.2%       ACGAAAAGAACAGAAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTATCTTCCGACGGATCAG
 7 Orf_virus_YX                                    98.1%  95.5%       ACGGGAAGAAAGGAAAAGGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTGTCTGGTGACGGAACAG
 8 Orf_virus_GO                                    98.8%  96.4%       ACGGGAAGAAAGGAAAAGGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTGTCTGGTGACGGAACAG
 9 Orf_virus_B029                                  91.8%  81.7%       ACGGGAAGAAAAGAAAAAGGAAAAACATAGAACCGTTGAACATGAGTTAGAAACCGTAACTGTGTCTGCCGACGGAACAG
10 Orf_virus_IHUMI-1                               78.5%  70.9%       ACGAAAAGAACAGAAAAAGGAAAAATCTAGAACCGTTGAACATGAGTTAGAAACCGTAACTGTATCTGCCAACGGAACAG
11 Orf_virus_SJ1                                   77.2%  74.2%       ACGAAGAGAACAAAAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTGTCTGGCGACGGAACAG
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                     ................................................................................
   consensus/90%                                                      AsGuuuAGAAsuuAAAAuGGAAAAAssTAGAAsCGTTGAACuTGAGssuGAAACCGTAACTGTuTCTssuuACGGAsCAG
   consensus/80%                                                      ACGuuuAGAAsuuAAAAuGGAAAAATCTAGAACCGTTGAACuTGAGTsAGAAACCGTAACTGTuTCTsssGACGGAsCAG
   consensus/70%                                                      ACGuuAAGAAsuuGAAAAuGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAACCGTAACTGTuTCTssGACGGAsCAG

                                                   cov    pid  1921       .         .         :         .         .         .         .          0 2000
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       AGAAAACAAGGACCTACGAGCGCGAGTCTGTGAAAACAACCGAATCAGAAAAGAACAACAATCCGTCAACC---AATGAT
 2 Orf_virus_D1701                                 98.3%  88.3%       AGAGAACAAGGACCTACGAGCGCGAGTCTGAAAAAACAACTGAAACAGAAAAGAACAACTATCCGTCAACC---AATGAT
 3 Orf_virus_NA1-11                                97.9%  87.5%       AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAAGAACCGAAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%       AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAAGAACCGAAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
 5 Orf_virus_OV-IA82                               98.6%  88.5%       AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAACAACCGAAACAGAAAAGAACAAC---ACGTCAACCGATGATGAT
 6 Orf_virus_NZ2                                   98.5%  88.2%       AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAACAACCGAAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
 7 Orf_virus_YX                                    98.1%  95.5%       AGAAAACAAGGACCTACGAGCGCGAGTCTGAGAAAACAACCGAAACAGAAAAGAACAACAATCCGTCAACC---AATGAT
 8 Orf_virus_GO                                    98.8%  96.4%       AGAAAACAAGGACCTACGAGCGCGAGTCTGAGAAAACAACCGAAACAGAAAAGAACAACAATCCGTCAACC---AATGAT
 9 Orf_virus_B029                                  91.8%  81.7%       AGAGAACAAGGATCTACGAGCGCGATTCTGAAAGAACAACCGAAACAGAAAAGAACAAC---ACGTCAACC------AAT
10 Orf_virus_IHUMI-1                               78.5%  70.9%       AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAACAACCGAAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
11 Orf_virus_SJ1                                   77.2%  74.2%       AGAAAACAAGGATCTACGAGCGCGAGTCTGAGAGAACAACCGAAAAAGAAACGAACAACAATCCGTCAACC---AATGAT
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                     ................................................................................
   consensus/90%                                                      AGAsAAsAAuGAssTACGAGCGCGAsTCTGsuAuAAsAACsGAAssAGAAAsGAACAAC...sCGTCAACC......uAT
   consensus/80%                                                      AGAsAAsAAuGAssTACGAGCGCGAGTCTGAuAuAAsAACCGAAACAGAAAAGAACAAC...sCGTCAACC...uATGAT
   consensus/70%                                                      AGAsAAsAAuGACsTACGAGCGCGAGTCTGAGAuAACAACCGAAACAGAAAAGAACAAC...sCGTCAACC...uATGAT

                                                   cov    pid  2001       .         .         .         .         :         .         .          . 2080
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       AATAAGGACAAAGTGACCGACAATCAGCCAAAAGAAGACGATAAGAAACTTGAGGAAACTCCCAAGGACAGTGAGAAGCC
 2 Orf_virus_D1701                                 98.3%  88.3%       AATAAGCAAAATACTTCTGTAGAGAAACCAGAGGAAACT------AAGCCTGCTTCTACTCCTGAAG---GTGAGAAG--
 3 Orf_virus_NA1-11                                97.9%  87.5%       AATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACC------AAGCCTGCTTCTACTCCTGAAG---GTGAGAAG--
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%       AATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACC------AAGCCTGCTTCTACTCCTGAAG---GTGAGAAG--
 5 Orf_virus_OV-IA82                               98.6%  88.5%       AATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACT------AAGCCTGCTTCTACTCCTGAAG---GTGAGAAG--
 6 Orf_virus_NZ2                                   98.5%  88.2%       AATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACC------AAGCCTGCTTCTACTCCTGAAG---GTGTGAAG--
 7 Orf_virus_YX                                    98.1%  95.5%       AATAAGGACAAAGTGACCGACAACCAGCCAAAAGAAGACGATAAAAAACCTGAGGAAACT---AAGGACAGTGAGAAGCC
 8 Orf_virus_GO                                    98.8%  96.4%       AATAAGGACAAAGTGACCGACAATCAGCCAAAAGAAGACGATAAGAAACCTGAGGAAACT---AAGGACAGTGAGAAGCC
 9 Orf_virus_B029                                  91.8%  81.7%       GATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACT------AAGCCTGCTTCTACTCCTGAAG---GTGATAAG--
10 Orf_virus_IHUMI-1                               78.5%  70.9%       AATAAGCAGAATACTCCTGTAGAGAAACCAGAAGAAACT------AATCCTGCTTCTACTCCTAAAG---GTGAGAAG--
11 Orf_virus_SJ1                                   77.2%  74.2%       AATAAGGACAAAGTGACCGACAATCAGCCAAAAGAAGACGATAAGAAACTTGAGGAACCTCCTAAGGACGGTGAGAAGCC
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                     ................................................................................
   consensus/90%                                                      uATAAGsAsAAsusssCsGssuAssAuCCAuAuGAAuss......AAsCsTGssssssCT...uAuG...GTGssAAG..
   consensus/80%                                                      AATAAGsAsAAsusssCsGssuAssAuCCAuAuGAAuss......AAuCsTGsssssACT...uAuG...GTGAGAAG..
   consensus/70%                                                      AATAAGsAsAAsusssCsGssuAssAuCCAuAuGAAuss......AAuCCTGsssssACTCCsuAuG...GTGAGAAG..

                                                   cov    pid  2081       .         1         .         .         .         .         :          . 2160
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       TACACCAACTGAAAAGCCCGCAAACACCTCTTCTGGTGA---------TAATAAGAAAGAGGGGGAAGAAGCAACCCTTG
 2 Orf_virus_D1701                                 98.3%  88.3%       ----CCAGCCGAAACTCCTG------CCCCGACTACTGACCCCCAACCCACCACACAACCGCCTGCAGAATCAAACTCTG
 3 Orf_virus_NA1-11                                97.9%  87.5%       ----CCAGCCGAAACTCCTG------CCCCGACCACTGACCCCCAACCCACTACACAACCACCCGCAGAATCAAACTCTG
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%       ----CCAGCCGAAACTCCTG------CCCCGACCACTGACCCCCAACCCACTACACAACCACCCGCAGAATCAAACTCTG
 5 Orf_virus_OV-IA82                               98.6%  88.5%       ----CCAGCTGAAACTCCTG------CCCCGACTACTGACCCCCAACCCACTACACAACCACCCGCAGAATCAGGCCCTG
 6 Orf_virus_NZ2                                   98.5%  88.2%       ----CCAGCCGAGACTCCTG------CCCCGACTACTGACCCCCAACCTACTACACAACCACCCGCAGAATCAAACCCTG
 7 Orf_virus_YX                                    98.1%  95.5%       TACACCAACTGAAAAGCCCGCAGACACCTCTTCTGGTGA---------TAATAAGAAAGAGGGGGAAGAAACAACCCTTA
 8 Orf_virus_GO                                    98.8%  96.4%       TACGCCAACTGAAAAGCCCGCAGACACCTCTTCTGGTGA---------TAATAAGAAAGAGGGGGGAGAAGCAACCCTTG
 9 Orf_virus_B029                                  91.8%  81.7%       ----CCAGCCGAAACTCCTG------CCCCGACTACTAACCCCCAACCCACTACACAACCACCCGCAGAATCGAACCCTG
10 Orf_virus_IHUMI-1                               78.5%  70.9%       ----CCAGCCGAGACTCCTG------CCCCGACTACTGACCCCCAACCCACTACACAACCACCCGCAGAATCAAACCCTG
11 Orf_virus_SJ1                                   77.2%  74.2%       TACACCAACTGAAAAGCCCGCAGACACCTCTTCTGGTGA---------TAATAAGAAAGAGGGGGAAGAAGCAACCCTTG
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                     ................................................................................
   consensus/90%                                                      ....CCAuCsGAuAssCCsG......CCsCssCsusTuA.........sAssAsusAAsusssGsAGAAsCuusCssTu
   consensus/80%                                                      ....CCAuCsGAuAssCCsG......CCsCssCsusTGA.........sAsTAsusAAssusssGsAGAAsCAAsCssTG
   consensus/70%                                                      ....CCAuCsGAAAssCCsG......CCsCssCTusTGA.........sAsTAsusAAssusssGsAGAAsCAAsCssTG

                                                   cov    pid  2161       .         .         .         2         .         .         .          . 2240
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       AGAGTCAACCCACGCCTGCACC-TACTCAGCCATCAAACAGCGA--------------AGCAC-----------------
 2 Orf_virus_D1701                                 98.3%  88.3%       GAAGTCAACCCACACCCGCTCCAGAACCAACCCCAGAATCT------------------GAGCCTACACCTGCATCAAAA
 3 Orf_virus_NA1-11                                97.9%  87.5%       GAAGTCAACCCACACCTGCTCCAGAACCAACCCCCGCACCTGAACCTACTCCGGCTCCAGAGCCTACACCTGCATCAGAG
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%       GAAGTCAACCCACACCTGCTCCAGAACCAACCCCCGCACCTGAACCTACTCCGGCTCCAGAGCCTACACCTGCATCAGAG
 5 Orf_virus_OV-IA82                               98.6%  88.5%       GAAGTCAACCCACACCTGTTCCAGAACCAACCCCCGCACCT------------------GAGCCTGCACCGG------AA
 6 Orf_virus_NZ2                                   98.5%  88.2%       GAAGTCAACCCGCACCTGCTTCAGAACCAACCCCCGCACCT------------------GAGCCTGCACCGGAAC-----
 7 Orf_virus_YX                                    98.1%  95.5%       AAAGTCAACCCACGCCTGCACC-TACTCAACCATCAAACAGCGA--------------AGCAC-----------------
 8 Orf_virus_GO                                    98.8%  96.4%       AGAGTCAACCCACGCCTGCACC-TACTCAGCCATCAAACAGCGA--------------AGCAC-----------------
 9 Orf_virus_B029                                  91.8%  81.7%       GAAGTCAACCCACACCTGCTTCAGAACCAACCCCCGCACCT------------------GAGCCTGCACCGG------AA
10 Orf_virus_IHUMI-1                               78.5%  70.9%       GAAGTCAACCCACACCTGCTTCAGAACCAACCCCCGCACCT------------------GAGCCTGCATCAGTAACTCAA
11 Orf_virus_SJ1                                   77.2%  74.2%       AGAGTCAACCCACGCCTGTACC-TACTCAGCCATCAAACAGCGA--------------AGCACCCACTCAACCTCCAAGC
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                     ................................................................................
   consensus/90%                                                      uuAGTCAACCCuCuCCsGsssC.sAssCAuCCssssusAsss..................GsuC................
   consensus/80%                                                      uuAGTCAACCCACuCCTGsssC.sAssCAuCCssCusACss..................GsuC................
   consensus/70%                                                      uuAGTCAACCCACuCCTGCssC.sAssCAuCCssCusACss..................GsuC................

                                                   cov    pid  2241       :         .         .         .         .         3         .          . 2320
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       ----------CCACTCAACCTCCAAGCAGTGAGACTCCACCCACT-CAACCTCCAAGC----AG--TACACCCT------
 2 Orf_virus_D1701                                 98.3%  88.3%       CCCACTCCTGCCACTGAGCCCGC----AGC--AACCGAACCCACTTCAGAACCAAAGC--CAAG--TTCTGTCCCTGAGC
 3 Orf_virus_NA1-11                                97.9%  87.5%       CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC--CAAG--TCCAGCCCCTGAGC
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%       CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC--CAAG--TCCAGCCCCTGAGC
 5 Orf_virus_OV-IA82                               98.6%  88.5%       CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC--CAAG--TCCAGCCCCTGAAA
 6 Orf_virus_NZ2                                   98.5%  88.2%       ----------CCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC--CAAG--TCCAGCCCCTAAGC
 7 Orf_virus_YX                                    98.1%  95.5%       ----------CCACTCAACCTCCAAGCAGTGAGACTCCATCCACT-CAACCCCCAAGC--AGTGAG--------------
 8 Orf_virus_GO                                    98.8%  96.4%       ----------CCACTCAACCTCCAAGCAGTGAGACTCCATCCACT-CAACCTCCGAGC----AG----------------
 9 Orf_virus_B029                                  91.8%  81.7%       CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC--CAAC--CCCCGCACCTGAGC
10 Orf_virus_IHUMI-1                               78.5%  70.9%       CCTGCTCCTGCCACTCAGCCTGC-ATCAGT--AACCGAACCCACTCCAACACCAGAGC--CAAG--TCCAGCCCCTAAGC
11 Orf_virus_SJ1                                   77.2%  74.2%       AGTACACCATCCACTCAACCTCCAAGCAGTGAGACTCCACCCACT-CAACCTCCAAGCAGTGAGACTCCATCCACTCAAC
12 Orf_virus_NP                                    24.1%  23.5%       --------------------------------------------------------------------------------
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    consensus/100%                                                          ................................................................................
    consensus/90%                                                           ..........CCACTsAuCCssC....AGs..uACsssAsCCuCT.CAusssCsuAGC....ss................
    consensus/80%                                                           ..........CCACTCAuCCTsC.AsCAGT..uACsssAsCCuCT.CAACssCsuAGC....AG................
    consensus/70%                                                           ..........CCACTCAuCCTsC.AsCAGT..uACTCsACCCuCT.CAACssCsuAGC..suAG..ssCsssss......

                                                        cov    pid 2321          .         .         :         .         .         .         .         4 2400
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      ------------------------------------CCACTCAACCTCCAAGCAGTACACCATCCACTGAAC--------
 2 Orf_virus_D1701                              98.3%  88.3%      CTACTCCGGCCTCTGATCCAACCCCTGCA------------------CCAGAACTTACACCAGCCGCAGAAC--------
 3 Orf_virus_NA1-11                             97.9%  87.5%      CTACTCCGGCTCCTGAACCAACCCCTGCACCAGAACCCACTCCCGCTCCAGAACCTACACCATCCACAGAACCGACTCCT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CTACTCCGGCTCCTGAACCAACCCCTGCACCAGAACCCACTCCCGCTCCAGAACCTACACCATCCACAGAACCGACTCCT
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CTACTCCGGCTTCCGAACCAACCCCTGCACCAGAACCCACTCCCGCTCCAAAACCTACACCAGCCACAGAACCGACTCCT
 6 Orf_virus_NZ2                                98.5%  88.2%      CTACTCCGGCTTCTGAACCAACCCCAGCATCTGAGCCTACTTCTGCTCCAGAACCTACACCATCCGCAGAACCAACTCCT
 7 Orf_virus_YX                                 98.1%  95.5%      ----------------------------------------------------------ACTCCATCCACTCAAC--------
 8 Orf_virus_GO                                 98.8%  96.4%      ----------------------------------------------------------TACACCATCCACTCAAC--------
 9 Orf_virus_B029                               91.8%  81.7%      CTACTCCGGCTTCCGAAC------------------CCACTCCTGCTCCAGAACCTACACCAGCCGCAGAACCGAGTCCT
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CTACTCCGGCTTCTGAACCAACCCCAGCATCTGAGCCTACTTCTGCTCCAGAACCTACACCATCCGCAGAACCAACTCCT
11 Orf_virus_SJ1                                77.2%  74.2%      CTCCATCCACTCAACCTCCATCCACTCAACCTCCATCCACTC---------AACCT---CCATCCACTCAACCT------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
    consensus/100%                                                          ................................................................................
    consensus/90%                                                           .................................................................CCAsCCuCssAAC........
    consensus/80%                                                           ...............................................................TACsCCAsCCuCssAAC........
    consensus/70%                                                           ...........................................................usssTACACCAsCCuCssAAC........

                                                        cov    pid 2401          .         .         .         .         :         .         .         . 2480
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      ------------------------------CTACTCCAGAGCCAGCTCCTTCTACCGAACCAACAACCAACGCCAACGG
 2 Orf_virus_D1701                              98.3%  88.3%      ----CAACTGTAGAAGCACCACC---------TGCTACAGCACCAACTTCCGAAACCCAACCAGCCACCAACAGCAATCC
 3 Orf_virus_NA1-11                             97.9%  87.5%      CAACCAACCGTAGAAACACCACC------ATCTGCTACAGCACCAACTACCGAAGCCCAGCCA---ACCAA---CAATCC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CAACCAACCGTAGAAACACCACC------ATCTGCTACAGCACCAACTACCGAAGCCCAGCCA---ACCAA---CAATCC
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CAACCAACCGTAGAAACAACACC------ATCTGCTCCAGCACCAACTCCCGAGGCCCAACCACCCGCCAA---CAATCC
 6 Orf_virus_NZ2                                98.5%  88.2%      CAACCAACTGTAGAAACACCACC------ATCTGCTCCAGCACCAACTCCCGAGGCCCAACCACCCGCCAACAGCAATCC
 7 Orf_virus_YX                                 98.1%  95.5%      ------------------------------CTACTCCAGAGCCAGCTCCTTCTACCGAACCAACAACCAACGCCAACGG
 8 Orf_virus_GO                                 98.8%  96.4%      ------------------------------CTACTCCAGAGCCAGCTCCTTCTACCGAACCAACAACCAACGCCAACGG
 9 Orf_virus_B029                               91.8%  81.7%      CAACCAACCGTAGAAACAACACC------ATCTGCACCAGCACCAACTACCGAAGCCCAGCCA---ACCAA---CAATCC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CAACCAACTGTAGAAACACCACC------ATCTGCTCCAGCACCAACTCCCGAGGCCCAACCACCCGCCAACAGCAATCC
11 Orf_virus_SJ1                                77.2%  74.2%      ---CCAAGCAGTGAGACTCCATCCACTGAACCTACTCCAGAGCCAGCTCCTTCCACCGAACCAACAACCAACGCCAACGG
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
    consensus/100%                                                          ................................................................................
    consensus/90%                                                           ..............................TuCssCAGsuCCAuCTsCssssuCCsAuCCA...uCCAA...CAAsss
    consensus/80%                                                           ..............................CTuCTsCAGsuCCAuCTsCssssuCCsAuCCA...uCCAA...CAAsss
    consensus/70%                                                           ..............................CTuCTsCAGsuCCAuCTsCssssuCCsAuCCA...uCCAA...CAAsss

                                                        cov    pid 2481          .         5         .         .         .         .         :         . 2560
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TACACCTGCCGCCACTACTTCAGAAACCACTGCCTAAATGAGTCCGTAAGCATTTCAGAGTAACGTACACTAGTAAGCGA
 2 Orf_virus_D1701                              98.3%  88.3%      CGCTACCGAA---ACCACTGGTGCCAGCACCTCCTAAATTAGTCCGTAAGCATTTCAGAGTAACGTACCTTAGCAAGCGC
 3 Orf_virus_NA1-11                             97.9%  87.5%      CACTACTGAAACCACCACTGGTACCAGCACTTCTTAAATGAGACC-TAAGCATTTCAGAGTAAC----CGTAGTAAGCGA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CACTACTGAAACCACCACTGGTACCAGCACTTCTTAAATGAGACC-TAAGCATTTCAGAGTAAC----CGTAGTAAGCGA
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CACTACTGAAACTACCACTGGTACCAGCACCTCCTAAGTGAGTACGTAAGCATTTCGGAGTAACGT--CGTAGCAAGCGC
 6 Orf_virus_NZ2                                98.5%  88.2%      CACTACTGAAACTACCACTGGTACCAGCACCTCCTAAGTGAGTACGTAAGCATTTCGGAGTAACGT--CGTAGCAAGCGC
 7 Orf_virus_YX                                 98.1%  95.5%      TACACCTGCCGCCACTACTTCAGAAACCACTGCCTAAATGAGTCCGCAAGCATTTCA---TAACGTA-CGTAGTAAGCGA
 8 Orf_virus_GO                                 98.8%  96.4%      TACACCTGCCGCCACTACTTCAGAAACCACTGCCTAAATGAGTCCGCAAGCATTTCA---TAACGTA-CGTAGTAAGCGA
 9 Orf_virus_B029                               91.8%  81.7%      CACTACTGAAACTACCACTGGTACCAGCACTTCTTAAGTGAGTCCGTAAGCATTTCAGAGTAACGT--CGTAGCAAGCGC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CACTACTGAAACTACCACTGGTACCAGCACCTCCTAAGTGAGTACGTAAGCATTTCAGAGTAACGT--CGTAGCAAGCGC
11 Orf_virus_SJ1                                77.2%  74.2%      TACACCTGCCGCCACTACTTCAGAAACCACTGCCTAAATGAGTCTGTAAGCATTTCAGAGTAACGT--ACTAGTAAGCGA
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
    consensus/100%                                                          ................................................................................
    consensus/90%                                                           suCssCsGss...ACsACTsssussAsCACssCsTAAuTsAGss.sAAGCATTTCu...TAAC....ssTAGsAAGCGs
    consensus/80%                                                           sACssCTGssuCsACsACTsssussAsCACssCsTAAuTGAGssC.sAAGCATTTCu...TAAC....ssTAGsAAGCGs
    consensus/70%                                                           sACssCTGssuCsACsACTsssussAsCACssCsTAAuTGAGTsCGTAAGCATTTCAGAGTAACGT..CsTAGsAAGCGs

                                                        cov    pid 2561          .         .         .         6         .         .         .         . 2640
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTCGCGGCGGTGTACGCTTT
 2 Orf_virus_D1701                              98.3%  88.3%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTCGCGGCGGTGTACGCTTT
 3 Orf_virus_NA1-11                             97.9%  87.5%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTCGTCGCGGCGGTGTACGCTTT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTCGTCGCGGCGGTGTACGCTTT
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TAGTCCGCCGCGAGCGGTTCTTGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTAGCGGCGGTGTACGCTTT
 6 Orf_virus_NZ2                                98.5%  88.2%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTCGCGGCGGTGTACGCTTT
 7 Orf_virus_YX                                 98.1%  95.5%      TAGTCCGCCGCGAGCGGTTCTCGCAAG-TTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTCGCGGCGGTGTACGCTTT
 8 Orf_virus_GO                                 98.8%  96.4%      TAGTCCGCCGCGAGCGGTTCTCGCAAG-TTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTCGCGGCGGTGTACGCTTT
 9 Orf_virus_B029                               91.8%  81.7%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTCGCGGCGGTGTACGCTTT
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTAGCGGCGGTGTACGCTTT
11 Orf_virus_SJ1                                77.2%  74.2%      TAGTCCGCCGCGAGCGGTTCTCGCAAG-TTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTTGCGGCGGTGTACGCTTT
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
    consensus/100%                                                          ................................................................................
    consensus/90%                                                           TAGTCCGCCGCGAGCGGTTCTsGCAAG.TTTTTCGGGTAAAAAGCGTACACCGTCGCCTsGTsGCGGCGGTGTACGCTTT
    consensus/80%                                                           TAGTCCGCCGCGAGCGGTTCTCGCAAG.TTTTTCGGGTAAAAAGCGTACACCGTCGCCTsGTsGCGGCGGTGTACGCTTT
    consensus/70%                                                           TAGTCCGCCGCGAGCGGTTCTCGCAAG.TTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTsGCGGCGGTGTACGCTTT

                                                        cov    pid 2641          :         .         .         .         .         7         .         . 2720
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TTTCACGCCCTTTTTGC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAGAGATGGCGTGCCTCCGGGTGTTCCTGGCG
 2 Orf_virus_D1701                              98.3%  88.3%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTCTAGGAGAGATGGCGTGCCTCAGAGTGTTTTTGGCG
 3 Orf_virus_NA1-11                             97.9%  87.5%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTTCCTGGCG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTTCCTGGCG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTCTAGGAAAGATGGCGTGCCTCAGGGTGTTCTTGGCG
 6 Orf_virus_NZ2                                98.5%  88.2%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTTCCTGGCG
 7 Orf_virus_YX                                 98.1%  95.5%      TTTCACGCCCTTTTTGC-AAATTTAAATTGTACCTGCGCTGGCTCTAAGAGAGATGGCGTGCATCCGGGTGTTCCTGGCG
 8 Orf_virus_GO                                 98.8%  96.4%      TTTCACGCCCTTTTTGC-AAATTTAAATTGTACCTGCACTGGCTCTAGGAGAGATGGCGTGCCTCCGGGTGTTCCTAGCG
 9 Orf_virus_B029                               91.8%  81.7%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTATAGGAAAGATGGCGTGTCTCAGGGTGTTCCTGGCG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCCGGCTCTAGGAGAGATGGCGTGCCTCAGAGTGTTCCTGGCG
11 Orf_virus_SJ1                                77.2%  74.2%      TTTCACGCCCTTTTTGCAAAATTTAAATTGTACCCGCGCTGGCTCTAAGAGAGATGGCGTGCCTCCGGGTGTTCCTGGCG
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
    consensus/100%                                                          ................................................................................
    consensus/90%                                                           TTTCACGCCCTTTTTGC.AAATTTAAATTGTACCsGCuCsGGCTsTAuGAuAGATGGCGTGssTCsGuGTGTTssTuGCG
    consensus/80%                                                           TTTCACGCCCTTTTTGC.AAATTTAAATTGTACCsGCGCsGGCTCTAuGAuAGATGGCGTGCCTCsGuGTGTTCsTGGCG
    consensus/70%                                                           TTTCACGCCCTTTTTGC.AAATTTAAATTGTACCsGCGCsGGCTCTAGGAuAGATGGCGTGCCTCsGuGTGTTCCTGGCG

                                                        cov    pid 2721          .         .         .         :         .         .         .         8 2800
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GTGTTCGCGCTGTGCGGAAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCATGGCCCACGCGCAGGACGT
 2 Orf_virus_D1701                              98.3%  88.3%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCGATGGATCGGCGAGCGCGACTTCTGCATGGCCCACGCGCAGGACGT
 3 Orf_virus_NA1-11                             97.9%  87.5%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCATGGCCCACGCACAGGACGT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCATGGCCCACGCACAGGACGT
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCACGGCCCACGCACAGGACGT
 6 Orf_virus_NZ2                                98.5%  88.2%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCACGGCCCACGCGCAGGACGT
 7 Orf_virus_YX                                 98.1%  95.5%      GTGTTCGCGCTGTGCGGAAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTTTGCATGGCCCACGCGCAGGACGT
 8 Orf_virus_GO                                 98.8%  96.4%      GTGTTCGCGCTGTGCGGAAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCATGGCCCACGCGCAGGACGT
 9 Orf_virus_B029                               91.8%  81.7%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCACGGCCCACGCGCAGGACGT
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GTGCTCGCGCTGTGCGGGAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCACGGCCCACGCGCAGGACGT
11 Orf_virus_SJ1                                77.2%  74.2%      GTGTTCGCGCTGTGCGGAAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCATGGCCCACGCGCAGGACGT
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
    consensus/100%                                                          ................................................................................
    consensus/90%                                                           GTGsTCGCGCTGTGCGGuAGCGTGCACTCGGCGCuATGGATCGGCGAGCGCGACTTsTGCAsGGCCCACGCuCAGGACGT
    consensus/80%                                                           GTGsTCGCGCTGTGCGGuAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCAsGGCCCACGCuCAGGACGT
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   consensus/70%                                                                  GTGsTCGCGCTGTGCGGuAGCGTGCACTCGGCGCAATGGATCGGCGAGCGCGACTTCTGCAsGGCCCACGCuCAGGACGT

                                                        cov    pid 2801        .         .         .         .         :         .         .         . 2880
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CTTCGCGCGGCTGCAAGTGTGGATGCGCATCGACCGGAACGTGACCGCTGCGGATAACAACTCGGCCTGTGCGCTGGCGA
 2 Orf_virus_D1701                              98.3%  88.3%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATCGACCGGAACGTGACCGCCGCGGACAACAGCTCGGCCTGCGCGCTGGCGA
 3 Orf_virus_NA1-11                             97.9%  87.5%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATCGACCGGAACGTAACCGCCGCGGACAACAGCTCGGCCTGCGCGCTGGCGA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATCGACCGGAACGTAACCGCCGCGGACAACAGCTCGGCCTGCGCGCTGGCGA
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATCGACCGGAACGTGACCGCCGCGGACAACAGCTCGGCCTGCGCGCTGGCGA
 6 Orf_virus_NZ2                                98.5%  88.2%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATTGACCGGAACGTGACCGCCGCGGACAACAGCTCGGCCTGCGCGCTGGCGA
 7 Orf_virus_YX                                 98.1%  95.5%      ATTCGCGCGGCTGCAAGTGTGGATGCGCGTCGACCGGAACGTGACTGCTGCGGATAACAACTCGGCCTGCGCGCTGGCGA
 8 Orf_virus_GO                                 98.8%  96.4%      ATTCGCGCGGCTGCAAGTGTGGATGCGCGTCGACCGGAACGTGACTGCTGCGGATAACAACTCGGCCTGCGCGCTGGCGA
 9 Orf_virus_B029                               91.8%  81.7%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATCGACCGGAACGTGACCGCCGCGGACAACAGCTCGGCCTGCGCGCTGGCGA
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CTTCGCGCGGCTGCAGGTGTGGATGCGCATCGACCGGAACGTGACAGCCGCGGACAACAGCTCGGCTTGCGCGCTGGCGA
11 Orf_virus_SJ1                                77.2%  74.2%      CTTCGCGCGGCTGCAAGTGTGGATGCGCATCGACCGTAACGTGACCGCTGCGGATAACAACTCGGCCTGCGCGCTGGCGA
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  sTTCGCGCGGCTGCAuGTGTGGATGCGCuTsGACCGsAACGTuACsGCsGCGGAsAACAuCTCGGCsTGsGCGCTGGCGA
   consensus/80%                                                  sTTCGCGCGGCTGCAuGTGTGGATGCGCuTCGACCGGAACGTuACsGCsGCGGAsAACAuCTCGGCCTGCGCGCTGGCGA
   consensus/70%                                                  CTTCGCGCGGCTGCAuGTGTGGATGCGCATCGACCGGAACGTGACsGCsGCGGAsAACAuCTCGGCCTGCGCGCTGGCGA

                                                        cov    pid 2881        .         9         .         .         .         .         :         . 2960
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TAGAGACGCCGCCAAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
 2 Orf_virus_D1701                              98.3%  88.3%      TAGAGACGCCGCCGAGCAACTTCGACGTGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
 3 Orf_virus_NA1-11                             97.9%  87.5%      TAGAAACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCAATCAAC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TAGAAACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCAATCAAC
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TAGAGACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
 6 Orf_virus_NZ2                                98.5%  88.2%      TAGAGACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
 7 Orf_virus_YX                                 98.1%  95.5%      TAGAGACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
 8 Orf_virus_GO                                 98.8%  96.4%      TAGAGACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
 9 Orf_virus_B029                               91.8%  81.7%      TAGAAACACCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGGCCGCGATCAAC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TAGAGACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCTATCAAC
11 Orf_virus_SJ1                                77.2%  74.2%      TAGAGACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCGATCAAC
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  TAGAuACuCCGCCuAGCAACTTCGACGsGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGsCCGCsATCAAC
   consensus/80%                                                  TAGAuACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCuATCAAC
   consensus/70%                                                  TAGAuACGCCGCCGAGCAACTTCGACGCGGACGTCTACGTCGCCGCGGCCGGCATAAACGTCAGCGTGTCCGCuATCAAC

                                                        cov    pid 2961        .         .         .         0         .         .         .         . 3040
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TGCGGCTTCTTCAGCATGCGCCAGGTAGAGACAACGTACGACACGGCACGCCGGCAGATGTACGTGTACATGGACACCTG
 2 Orf_virus_D1701                              98.3%  88.3%      TGCGGCTTCTTCAACATGCGCCAGGTAGAGACAACGTACAACACGGCACGCCGGCAGATGTACGTCTACATGGACACCTG
 3 Orf_virus_NA1-11                             97.9%  87.5%      TGCGGCTTCTTCAACATGCGCCAGGTAGAGACGACGTACAACACGGCACGCCGGCAGATGTACGTGTACATGGACACCTG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TGCGGCTTCTTCAACATGCGCCAGGTAGAGACGACGTACAACACGGCACGCCGGCAGATGTACGTGTACATGGACACCTG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TGCGGCTTCTTCAACATGCGCCAAGTAGAGACAACGTACAACACGGCACGCCGGCAGATGTACGTGTACATGGACTCTTG
 6 Orf_virus_NZ2                                98.5%  88.2%      TGCGGCTTCTTCAACATGCGCCAGGTAGAGACGACGTACAACACGGCACGCCGGCAGATGTACGTGTACATGGACTCCTG
 7 Orf_virus_YX                                 98.1%  95.5%      TGCGGCTTCTTCAGCATGCGCCAGGTAGAGACAACGTACGACACGGCACGCCGGCAGATGTACGTGTACATGGACACCTG
 8 Orf_virus_GO                                 98.8%  96.4%      TGCGGCTTCTTCAGCATGCGCCAGGTAGAGACAACGTACAACACAGCACGCCGGCAGATGTACGTGTACATGGACACCTG
 9 Orf_virus_B029                               91.8%  81.7%      TGCGGCTTCTTCAACATGCGCCAGGTAGAGACGACGTACAACACGGCACGCCGGCAGATGTACGTGTACATGGACTCCTG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TGCGGCTTCTTCAACATGCGCCAAGTAGAGACGACGTACAACACGGCACGCCGGCAGATGTACGTGTACATGGACTCCTG
11 Orf_virus_SJ1                                77.2%  74.2%      TGCGGCTTCT----------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  TGCGGCTTCT......................................................................
   consensus/80%                                                  TGCGGCTTCTTCAuCATGCGCCAuGTAGAGACuACGTACuACACuGCACGCCGGCAGATGTACGTsTACATGGACsCsTG
   consensus/70%                                                  TGCGGCTTCTTCAuCATGCGCCAuGTAGAGACuACGTACuACACGGCACGCCGGCAGATGTACGTGTACATGGACsCCTG

                                                        cov    pid 3041        :         .         .         .         .         1         .         . 3120
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GGACCCTTGGGTGCTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 2 Orf_virus_D1701                              98.3%  88.3%      GGACCCCTGGGTGCTCAACGACCCCCAGCCGCTCTTCAGCCAGGAGCACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 3 Orf_virus_NA1-11                             97.9%  87.5%      GGACCCCTGGGTGCTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GGACCCCTGGGTGCTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GGACCCCTGGATGCTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 6 Orf_virus_NZ2                                98.5%  88.2%      GGACCCTTGGGTGATCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTTCCGTACCTGCTGGAGG
 7 Orf_virus_YX                                 98.1%  95.5%      GGACCCCTGGGTGCTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 8 Orf_virus_GO                                 98.8%  96.4%      GGACCCCTGGGTGCTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
 9 Orf_virus_B029                               91.8%  81.7%      GGACCCTTGGGTGATCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GGACCCTTGGGTGATCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  GGACCCsTGGuTGsTCuACGACCCCCAGCCGCTCTTCAGCCAGGAGsACGAAAACGAAACGCTsCCGTACCTGCTGGAGG
   consensus/70%                                                  GGACCCsTGGGTGsTCGACGACCCCCAGCCGCTCTTCAGCCAGGAGTACGAAAACGAAACGCTGCCGTACCTGCTGGAGG

                                                        cov    pid 3121        .         .         :         .         .         .         .         2 3200
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTTGAGGTGATCACGGGGATC
 2 Orf_virus_D1701                              98.3%  88.3%      TTCTAGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCTGGAGAGCAGCCCTTTGAGGTAATCCCGGGGACC
 3 Orf_virus_NA1-11                             97.9%  87.5%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTTGAGGTGATCCCGGGGATC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TTCTGGAGCTAGCGAGGCTGAACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTTGAGGTGATCCCGGGGATC
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTTGAGGTGATCCCGGGGATC
 6 Orf_virus_NZ2                                98.5%  88.2%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTCGAGGTGATCCCGGGGATC
 7 Orf_virus_YX                                 98.1%  95.5%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTTGAGGTGATCACGGGGATC
 8 Orf_virus_GO                                 98.8%  96.4%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTTGAGGTGATCACGGGGATC
 9 Orf_virus_B029                               91.8%  81.7%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTCGAGGTGATCCCGGGGATC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTCGAGGTGATCCCGGGGATC
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  TTCTuGAGCTAGCGAGGCTGsACATTCGCGTGGGCTGCACGGTGCCsGGAGAGCAGCCCTTsGAGGTuATCsCGGGGAsC
   consensus/70%                                                  TTCTGGAGCTAGCGAGGCTGTACATTCGCGTGGGCTGCACGGTGCCCGGAGAGCAGCCCTTsGAGGTGATCsCGGGGATC

                                                        cov    pid 3201        .         .         .         .         :         .         .         . 3280
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GACTACCCTCACACCAGCATGGAGTTTCTCCAGCACGTTCTACGGCCAAACCGCCGGTTCGCTCCAGCGAAGCTGCACAT
 2 Orf_virus_D1701                              98.3%  88.3%      GACTACCCTCACACCGGCATGGAGTTTCTCCAGCACGTTCTACGGCCAAACCGCCGGTTCGCTCCAGCGAAGCTGCACAT
 3 Orf_virus_NA1-11                             97.9%  87.5%      GACTACCCTCACACCGGCATGGAGTTTCTCCAGCACGTTCTACGGCCAAACCGCCGGTTTGCTCCAGCGAAGCTGCACAT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GACTACCCTCACACTGGCATGGAGTTTCTCCAGCACGTTCTACGGCCAAACCGCCGGTTTGCTCCAGCGAAGCTGCACAT
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GACTACCCCCACACCGGCATGGAGTTTCTCCAGCACGTTCTACGGCCGAACCGCCGGTTCGCTCCGGCGAAGCTGCACAT
 6 Orf_virus_NZ2                                98.5%  88.2%      GACTACCCGCACACCGGCATGGAGTTTCTCCAGCACGTTCTACGGCCGAACCGCCGGTTCGCTCCGGCGAAGCTGCACAT
 7 Orf_virus_YX                                 98.1%  95.5%      GACTACCCTCACACCAGCATGGAGTTTCTCCAGCACGTTCTACGGCCAAACCGCCGGTTCGCTCCAGCGAAGCTGCACAT
 8 Orf_virus_GO                                 98.8%  96.4%      GACTACCCTCACACCAGCATGGAGTTTCTCCAGCACGTTCTACGGCCAAACCGCCGGTTCGCTCCAGCGAAGCTGCACAT
 9 Orf_virus_B029                               91.8%  81.7%      GACTACCCGCACACTGGCATGGAGTTTCTACAGCACGTTCTACGGCCGAACCGCCGGTTCGCTCCGGCGAAGCTGCACAT
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GACTACCCGCACACCGGCATGGAGTTTCTCCAGCACGTTCTACGGCCGAACCGCCGGTTCGCTCCGGCGAAGCTGCACAT
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  GACTACCCsCACACsuGCATGGAGTTTCTsCAGCACGTTCTACGGCCuAACCGCCGGTTsGCTCCuGCGAAGCTGCACAT
   consensus/70%                                                  GACTACCCsCACACsuGCATGGAGTTTCTCCAGCACGTTCTACGGCCuAACCGCCGGTTsGCTCCuGCGAAGCTGCACAT

                                                        cov    pid 3281        .         3         .         .         .         .         :         . 3360
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 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GGACCTCGAAGTGGACTACCGGTGCGTGAGCGCCGTTTACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 2 Orf_virus_D1701                              98.3%  88.3%      GGACCTCGAGGTGGACTACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 3 Orf_virus_NA1-11                             97.9%  87.5%      GGACCTCGAGGTGGACCACCGGTGCGTGATCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GGACCTCGAGGTGGACCACCGGTGCGTGATCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GGACCTCGAGGTGGACCACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 6 Orf_virus_NZ2                                98.5%  88.2%      GGACCTCGAGGTGGACCACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 7 Orf_virus_YX                                 98.1%  95.5%      GGACCTCGAGGTGGACTACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 8 Orf_virus_GO                                 98.8%  96.4%      GGACCTCGAGGTGGACCACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
 9 Orf_virus_B029                               91.8%  81.7%      GGACCTCGAGGTGGACCACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GGACCTCGAGGTGGACCACCGGTGCGTGAGCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  GGACCTCGAuGTGGACsACCGGTGCGTGAsCGCCGTssACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG
   consensus/70%                                                  GGACCTCGAGGTGGACsACCGGTGCGTGAsCGCCGTCCACGTGAAGGCGTTCCTGCAGGACGCCTGTAGCGCCCGCAAGG

                                                 cov    pid 3361           .         .         .         4         .         .         .         . 3440
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CGCGGACGCCGCTCTACTTCGCGGGGCATGGCTCCAATCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 2 Orf_virus_D1701                              98.3%  88.3%      CGCGGACGCCACTCTACTTTGCGGGGCATGGCTCCAACCATCCAGATCGCCGGCCAAAAAAACCCAGTACCGCGCCCTCA
 3 Orf_virus_NA1-11                             97.9%  87.5%      CGCGGACGCCACTCTACTTCGCGGGGCATGGCTGCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CGCGGACGCCACTCTACTTCGCGGGGCATGGCTGCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CGCGGACGCCACTCTACTTCGCGGGGCATGGCTGCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 6 Orf_virus_NZ2                                98.5%  88.2%      CGCGGACGCCACTCTACTTCGCGGGGCATGGCTGCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 7 Orf_virus_YX                                 98.1%  95.5%      CGCGGACGCCGCTCTACTTCGCGGGGCATGGCTCCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 8 Orf_virus_GO                                 98.8%  96.4%      CGCGGACGCCGCTCTACTTCGCGGGGCATGGCTCCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
 9 Orf_virus_B029                               91.8%  81.7%      CGCGGACGCCACTCTACTTCGCGGGGCATGGCTGCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CGCGGACGCCACTCTACTTCGCGGGGCATGGCTGCAACCATCCAGATCGCCGGCC-AAAAAACCCAGTACCGCGCCCTCA
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  CGCGGACGCCuCTCTACTTsGCGGGGCATGGCTsCAAsCATCCAGATCGCCGGCC.AAAAAACCCAGTACCGCGCCCTCA
   consensus/70%                                                  CGCGGACGCCuCTCTACTTCGCGGGGCATGGCTsCAACCATCCAGATCGCCGGCC.AAAAAACCCAGTACCGCGCCCTCA

                                                 cov    pid 3441           :         .         .         .         .         5         .         . 3520
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GCATGTATCGTCGCCGATGTCCAGGAAGTGCCTCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGACGGCGGCCGT
 2 Orf_virus_D1701                              98.3%  88.3%      GCATGTGTCGTCGCCGATGTCCAGGAAGTGCTGCATGCAGACAGCGCGCTGAGGGCGCTCACCGCGCTGACAGCGGTCGT
 3 Orf_virus_NA1-11                             97.9%  87.5%      GCATGTATCGTCGCCGATCTCCAGGAAGTGCAGCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGACGGCAGCCGT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GCATGTATCGTCGCCGATCTCCAGGAAGTGCAGCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGACGGCAGCCGT
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GCACGTGTCGTCACCGATCTCCAGGAAGTGCAGCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGACGGCGGCCGT
 6 Orf_virus_NZ2                                98.5%  88.2%      GCACGTATCGTCGCCGATCTCCAGGAAGTGCAGCATGCAGACGGCGCGCTAAGGGCGCTCACCGCGCTGACGGCGGCCGT
 7 Orf_virus_YX                                 98.1%  95.5%      GCATGTATCGTCACCGATGTCCAGGAAGTGCCTCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGACGGCGGCCGT
 8 Orf_virus_GO                                 98.8%  96.4%      GCATGTATCGTCGCCGATGTCCAGGAAGTGCCTCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGACGGCGGCCGT
 9 Orf_virus_B029                               91.8%  81.7%      GCACGTATCGTCGCCGATCTCCAGGAAGTGCAGCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGGCGGCGGCCGT
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GCACGTATCGTCGCCGATCTCCAGGAAGTGCAGCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGGCGGCGGCCGT
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  GCAsGTuTCGTCuCCGATsTCCAGGAAGTGCssCATGCAGACuGCGCGCTuAGGGCGCTCACCGCGCTGuCuGCuGsCGT
   consensus/70%                                                  GCAsGTuTCGTCuCCGATsTCCAGGAAGTGCssCATGCAGACGGCGCGCTGAGGGCGCTCACCGCGCTGuCGGCuGCCGT

                                                 cov    pid 3521           .         .         :         .         .         .         .         6 3600
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GGTGTGCGCGATCGCCGTCGCGCTCGAGCGCGGGGAAGAGGCCGACGCCGTGGACCTTATCCTTATAAAATTTTCAATGA
 2 Orf_virus_D1701                              98.3%  88.3%      GGTGTGCGCAATCGCCATCGCGCTCGAGCGCGAGGCGGAGGCCGACGCCGTGGACCTTATCCTTATAAAATTTTCAATGA
 3 Orf_virus_NA1-11                             97.9%  87.5%      GGTGTGCGCGATCGTCATCACGCTCGAGCGCGGGGCGGAGGCCGACGCCGTAGACCTTATACTTATAAAATTTTCAATGA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      GGTGTGCGCGATCGTCATCACGCTTGAGCGCGGGGCGGAGGCCGACGCCGTAGACCTTATACTTATAAAATTTTCAATGA
 5 Orf_virus_OV-IA82                            98.6%  88.5%      GGTGTGCGCGATCGCCGTTGCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTGGACCTTATCCTTATAAAATTTTCAATGA
 6 Orf_virus_NZ2                                98.5%  88.2%      GGTGTGCGCGATCGCCATCGCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTGGACCTTATCCTTATAAAATTTTCAATGA
 7 Orf_virus_YX                                 98.1%  95.5%      GGTGTGCGCGATCGCCGTCGCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTTGACCTTATCCTTATAAAATTTTCAATGA
 8 Orf_virus_GO                                 98.8%  96.4%      GGTGTGCGCGATCGCCGTCGCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTTGACCTTATCCTTATAAAATTTTCAATGA
 9 Orf_virus_B029                               91.8%  81.7%      GGTGTGTGCGATCGCCATCGCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTGGACCTTATCCTTATAAAATTTTCAATGA
10 Orf_virus_IHUMI-1                            78.5%  70.9%      GGTGTGCGCGATCGCCATCGCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTGGACCTTATCCTTATAAAATTTTCAATGA
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  GGTGTGsGCuATCGsCuTsuCGCTsGAGCGCGuGGsuGAGGCCGACGCCGTsGACCTTATsCTTATAAAATTTTCAATGA
   consensus/70%                                                  GGTGTGCGCGATCGsCuTCuCGCTCGAGCGCGGGGCGGAGGCCGACGCCGTsGACCTTATsCTTATAAAATTTTCAATGA

                                                 cov    pid 3601           .         .         .         .         :         .         .         . 3680
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TATGCTAGTTTTTATGCGACCTTCCTTGGAAAAATCGGAATTCAAAAATGAAATAAAACGGCGTTTTGCACGCATATTAT
 2 Orf_virus_D1701                              98.3%  88.3%      TATGCTAGTTTTTATGCAACCTTCCTTGGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
 3 Orf_virus_NA1-11                             97.9%  87.5%      TATGCTAGTTTTTATGCGACCTTCCTTAGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TATGCTAGTTTTTATGCGACCTTCCTTAGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TATGCTAGTTTTTATGCGACCTTCCTTAGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
 6 Orf_virus_NZ2                                98.5%  88.2%      TATGCTAGTTTTTATGCGACCTTCCTTAGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
 7 Orf_virus_YX                                 98.1%  95.5%      TATGCTAGTTTTTATGCGACCTTCCTTGGAAAAATCGGAATTCAAAAATGAAATAAAACGGCGTTTTGCACGCATATTAT
 8 Orf_virus_GO                                 98.8%  96.4%      TATGCTAGTTTTTATGCGACCTTCCTTGGAAAAATCGGAATTCAAAAATGAAATAAAACGGCGTTTTGCACGCATATTAT
 9 Orf_virus_B029                               91.8%  81.7%      TATGCTAGTTTTTATGCGACCTTCCTTAGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TATGCTAGTTTTTATGCGACCTTCCTTAGAAAATTCGGAATTCAAAAATGAAATAAAACGGCGTTTAGCACGCATATTAT
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  TATGCTAGTTTTTATGCuACCTTCCTTuGAAAAsTCGGAATTCAAAAATGAAATAAAACGGCGTTTsGCACGCATATTAT
   consensus/70%                                                  TATGCTAGTTTTTATGCGACCTTCCTTuGAAAAsTCGGAATTCAAAAATGAAATAAAACGGCGTTTsGCACGCATATTAT

                                                 cov    pid 3681           .         7         .         .         .         .         :         . 3760
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TAATACCGACTACCATAG-CAGGCGTCCGCAGCTGCT--GAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
 2 Orf_virus_D1701                              98.3%  88.3%      TAATACCGACCACCATAGCCAGGCGTCCGCAGCTGCT--GAGAAAGTCCCTT---CTGCGGGCTCCATGTCATTTCAACG
 3 Orf_virus_NA1-11                             97.9%  87.5%      TAATACCGACTACCATGG-CAGGCGTCCGCAGCTGCCAGAAGAAAGTCCCT--TACTGCGGGCTCCATGTCATTTCAACG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      TAATACTGACTACCATGG-CAGGCGTCCGCAGCTGCCAGAAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      TAATACCGACCACCATGG-CAGGCGTCCGCAGCTGCCAGAAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
 6 Orf_virus_NZ2                                98.5%  88.2%      TAATACCGACCACCATGG-CAGGCGTCCGCAGCTGCCAGAAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
 7 Orf_virus_YX                                 98.1%  95.5%      TAATACCGACTACCATAG-CAGGCGTCCGCAGCTGCT--GAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
 8 Orf_virus_GO                                 98.8%  96.4%      TAATACCGACTACCATAG-CAGGCGTCCGCAGCTGCT--GAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
 9 Orf_virus_B029                               91.8%  81.7%      TAATACCGACCACCATGG-CAGGCGTCCGCAGCTGCCAGAAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      TAATACCGACCACCATGG-CAGGCGTCCGCAGCTGCCAGAAGAAAGTCCCTTCTACTGCGGGCTCCATGTCATTTCAACG
11 Orf_virus_SJ1                                77.2%  74.2%      --------------------------------------------------------------------------------
12 Orf_virus_NP                                 24.1%  23.5%      --------------------------------------------------------------------------------
   consensus/100%                                                 ................................................................................
   consensus/90%                                                  ................................................................................
   consensus/80%                                                  TAATACsGACsACCATuG.CAGGCGTCCGCAGCTGCs..uAGAAAGTCCCT....CTGCGGGCTCCATGTCATTTCAACG
   consensus/70%                                                  TAATACCGACsACCATuG.CAGGCGTCCGCAGCTGCs..uAGAAAGTCCCTT.TACTGCGGGCTCCATGTCATTTCAACG

                                                 cov    pid 3761           .         .         .         8         .         .         .         . 3840
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GGGCAACCGGAGCATCCGGCCGGCGATGTCCGAGGCGTTGCAGAATGACTTCAGCTACAACCCGCGACCGCCTCCGCCGA
 2 Orf_virus_D1701                              98.3%  88.3%      GGGCAACCGGAGCATCCGGCCGGCGATGTCCGAGGCGTTGCAGAATGATTTCAGCTACAACCCGCGACCGCCTCCGCCGA
 3 Orf_virus_NA1-11                             97.9%  87.5%      GGGCAACCGGAGCATCCGGCCGGCGATGTCCGAGGCGCTGCAGAATGATTTCAGCTACAACCCGCGGCCGCCTCCGCCGA
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                                                 cov    pid
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
 7 Orf_virus_YX                                 98.1%  95.5%
 8 Orf_virus_GO                                 98.8%  96.4%
 9 Orf_virus_B029                               91.8%  81.7%
10 Orf_virus_IHUMI-1                            78.5%  70.9%
11 Orf_virus_SJ1                                77.2%  74.2%
12 Orf_virus_NP                                 24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                 cov    pid 3841         :         .         .         .         .         9         .         . 3920
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                              98.3%  88.3%
 3 Orf_virus_NA1-11                             97.9%  87.5%
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
 7 Orf_virus_YX                                 98.1%  95.5%
 8 Orf_virus_GO                                 98.8%  96.4%
 9 Orf_virus_B029                               91.8%  81.7%
10 Orf_virus_IHUMI-1                            78.5%  70.9%
11 Orf_virus_SJ1                                77.2%  74.2%
12 Orf_virus_NP                                 24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                 cov    pid 3921         .         .         :         .         .         .         .         0 4000
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                              98.3%  88.3%
 3 Orf_virus_NA1-11                             97.9%  87.5%
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
 7 Orf_virus_YX                                 98.1%  95.5%
 8 Orf_virus_GO                                 98.8%  96.4%
 9 Orf_virus_B029                               91.8%  81.7%
10 Orf_virus_IHUMI-1                            78.5%  70.9%
11 Orf_virus_SJ1                                77.2%  74.2%
12 Orf_virus_NP                                 24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                 cov    pid 4001         .         .         .         .         :         .         .         . 4080
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                              98.3%  88.3%
 3 Orf_virus_NA1-11                             97.9%  87.5%
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
 7 Orf_virus_YX                                 98.1%  95.5%
 8 Orf_virus_GO                                 98.8%  96.4%
 9 Orf_virus_B029                               91.8%  81.7%
10 Orf_virus_IHUMI-1                            78.5%  70.9%
11 Orf_virus_SJ1                                77.2%  74.2%
12 Orf_virus_NP                                 24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                 cov    pid 4081         .         1         .         .         .         .         :         . 4160
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                              98.3%  88.3%
 3 Orf_virus_NA1-11                             97.9%  87.5%
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
 7 Orf_virus_YX                                 98.1%  95.5%
 8 Orf_virus_GO                                 98.8%  96.4%
 9 Orf_virus_B029                               91.8%  81.7%
10 Orf_virus_IHUMI-1                            78.5%  70.9%
11 Orf_virus_SJ1                                77.2%  74.2%
12 Orf_virus_NP                                 24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                 cov    pid 4161         .         .         .         2         .         .         .         . 4240
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                              98.3%  88.3%
 3 Orf_virus_NA1-11                             97.9%  87.5%
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
 7 Orf_virus_YX                                 98.1%  95.5%
 8 Orf_virus_GO                                 98.8%  96.4%
 9 Orf_virus_B029                               91.8%  81.7%
10 Orf_virus_IHUMI-1                            78.5%  70.9%
11 Orf_virus_SJ1                                77.2%  74.2%
12 Orf_virus_NP                                 24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                 cov    pid 4241         :         .         .         .         .         3         .         . 4320
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                              98.3%  88.3%
 3 Orf_virus_NA1-11                             97.9%  87.5%
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%
 5 Orf_virus_OV-IA82                            98.6%  88.5%
 6 Orf_virus_NZ2                                98.5%  88.2%
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                                                  cov    pid
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
10 Orf_virus_IHUMI-1                             78.5%  70.9%
11 Orf_virus_SJ1                                 77.2%  74.2%
12 Orf_virus_NP                                  24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                  cov    pid 4321          .         .         :         .         .         .         .         4 4400
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                               98.3%  88.3%
 3 Orf_virus_NA1-11                              97.9%  87.5%
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%
 5 Orf_virus_OV-IA82                             98.6%  88.5%
 6 Orf_virus_NZ2                                 98.5%  88.2%
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
10 Orf_virus_IHUMI-1                             78.5%  70.9%
11 Orf_virus_SJ1                                 77.2%  74.2%
12 Orf_virus_NP                                  24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                  cov    pid 4401          .         .         .         .         :         .         .         . 4480
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                               98.3%  88.3%
 3 Orf_virus_NA1-11                              97.9%  87.5%
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%
 5 Orf_virus_OV-IA82                             98.6%  88.5%
 6 Orf_virus_NZ2                                 98.5%  88.2%
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
10 Orf_virus_IHUMI-1                             78.5%  70.9%
11 Orf_virus_SJ1                                 77.2%  74.2%
12 Orf_virus_NP                                  24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                  cov    pid 4481          .         5         .         .         .         .         :         . 4560
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                               98.3%  88.3%
 3 Orf_virus_NA1-11                              97.9%  87.5%
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%
 5 Orf_virus_OV-IA82                             98.6%  88.5%
 6 Orf_virus_NZ2                                 98.5%  88.2%
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
10 Orf_virus_IHUMI-1                             78.5%  70.9%
11 Orf_virus_SJ1                                 77.2%  74.2%
12 Orf_virus_NP                                  24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                  cov    pid 4561          .         .         .         6         .         .         .         . 4640
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                               98.3%  88.3%
 3 Orf_virus_NA1-11                              97.9%  87.5%
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%
 5 Orf_virus_OV-IA82                             98.6%  88.5%
 6 Orf_virus_NZ2                                 98.5%  88.2%
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
10 Orf_virus_IHUMI-1                             78.5%  70.9%
11 Orf_virus_SJ1                                 77.2%  74.2%
12 Orf_virus_NP                                  24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                  cov    pid 4641          :         .         .         .         .         7         .         . 4720
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                               98.3%  88.3%
 3 Orf_virus_NA1-11                              97.9%  87.5%
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%
 5 Orf_virus_OV-IA82                             98.6%  88.5%
 6 Orf_virus_NZ2                                 98.5%  88.2%
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
10 Orf_virus_IHUMI-1                             78.5%  70.9%
11 Orf_virus_SJ1                                 77.2%  74.2%
12 Orf_virus_NP                                  24.1%  23.5%
   consensus/100%
   consensus/90%
   consensus/80%
   consensus/70%

                                                  cov    pid 4721          .         .         :         .         .         .         .         8 4800
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%
 2 Orf_virus_D1701                               98.3%  88.3%
 3 Orf_virus_NA1-11                              97.9%  87.5%
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%
 5 Orf_virus_OV-IA82                             98.6%  88.5%
 6 Orf_virus_NZ2                                 98.5%  88.2%
 7 Orf_virus_YX                                  98.1%  95.5%
 8 Orf_virus_GO                                  98.8%  96.4%
 9 Orf_virus_B029                                91.8%  81.7%
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10 Orf_virus_IHUMI-1                          78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                              77.2%  74.2%      GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGGCACGCCGAGAGAAGTACTTCGAGGTTTGCGGCGCCAGCA
12 Orf_virus_NP                               24.1%  23.5%      ----------------------------------------------------------------------------
   consensus/100%                                               ............................................................................
   consensus/90%                                                ............................................................................
   consensus/80%                                                .............CAGGCGCTCCACCGCGTGGTCGAGCAGuCACGsCGAGAGAAGTACTTsGAGGTsTGsGGCGCCuGsA
   consensus/70%                                                uGGCGAGCTsTTsCAGGCGCTCCACCGCGTGGTCGAGCAGuCACGsCGAGAGAAGTACTTCGAGGTsTGCGGCGCCuGsA

                                                cov    pid 4801          .         .         .         .         :         .         .         . 4880
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      ACGACGCCGACGCACCCGTCAGCGAGATGGACACCGCGGCCGCACTCCCGCAGCCCCAGCCTGCGCCCCTGGCGATCACG
 2 Orf_virus_D1701                             98.3%  88.3%      ACGGCGCCGACG---CCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCTGCGCCCTTTGTGATCACG
 3 Orf_virus_NA1-11                            97.9%  87.5%      ACGGCGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG
 4 Orf_virus_OV-HN3_12                         98.1%  87.2%      ACGGCGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG
 5 Orf_virus_OV-IA82                           98.6%  88.5%      ACGACGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCTTCGTGGTCACG
 6 Orf_virus_NZ2                               98.5%  88.2%      ACGACGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCCTCGTGGTCACG
 7 Orf_virus_YX                                98.1%  95.5%      ACGACGCCGACGCACCCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCCTGGCGATCACG
 8 Orf_virus_GO                                98.8%  96.4%      ACGACGCCGACGCACCCGTCGTCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCCTTGCGATTACG
 9 Orf_virus_B029                              91.8%  81.7%      ACGACGCCGACGCGCCCGTCGTCGAGATGGACACTGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCTTCGTGGTCACG
10 Orf_virus_IHUMI-1                           78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                               77.2%  74.2%      ACGACGCCGACGCACCCGTCGGCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCCGCGCCCCTGGCGATTACG
12 Orf_virus_NP                                24.1%  23.5%      ----------------------------------------------------------------------------
   consensus/100%                                               ............................................................................
   consensus/90%                                                ............................................................................
   consensus/80%                                                ACGuCGCCGACG...CCGTCusCGAGATGGACACsGCGGCCGCACsCCCGCAGCCCCAGCCsGCGCCCsTsGssuTsACG
   consensus/70%                                                ACGuCGCCGACGCuCCCGTCGsCGAGATGGACACCGCGGCCGCACCCCCGCAGCCCCAGCCsGCGCCCsTsGssuTsACG

                                                cov    pid 4881          .         9         .         .         .         .         :         . 4960
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CCACAGAACGCGTTCATGTTCGTGCCGCAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 2 Orf_virus_D1701                             98.3%  88.3%      CCGCAGAACGCGTTCATGTTCGTGCCGCAAAACAGCCACGTGCATGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 3 Orf_virus_NA1-11                            97.9%  87.5%      CCGCAGAACGCGTTCGTGTTCGTGCCGCAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 4 Orf_virus_OV-HN3_12                         98.1%  87.2%      CCGCAGAACGCGTTCGTGTTTGTGCCGCAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 5 Orf_virus_OV-IA82                           98.6%  88.5%      CCGCAGAACGCGTTCATGTTCGTGCCGCAAGGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 6 Orf_virus_NZ2                               98.5%  88.2%      CCGCAGAACGCGTTCATGTTCGTGCCGCAAGGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 7 Orf_virus_YX                                98.1%  95.5%      CCACAGAACGCGTTCATGTTCGTGCCGCAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 8 Orf_virus_GO                                98.8%  96.4%      CCGCAGAACGCGTTCATGTTCGTGCCGCAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
 9 Orf_virus_B029                              91.8%  81.7%      CCGCAGAACGCGTTCATGTTCGTGCCGCAAGGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
10 Orf_virus_IHUMI-1                           78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                               77.2%  74.2%      CCACAGAACGCGTTCATGTTCGTGCCGCAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
12 Orf_virus_NP                                24.1%  23.5%      ----------------------------------------------------------------------------
   consensus/100%                                               ............................................................................
   consensus/90%                                                ............................................................................
   consensus/80%                                                CCuCAGAACGCGTTCuTGTTsGTGCCGCAAuuCAGCCACGTGCAsGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG
   consensus/70%                                                CCuCAGAACGCGTTCuTGTTCGTGCCGCAAuGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

                                                cov    pid 4961          .         .         .         0         .         .         .         . 5040
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 2 Orf_virus_D1701                             98.3%  88.3%      CCCCTCCATCTTCGGGCGCGACCTCCCCCCTCAGCCGCCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 3 Orf_virus_NA1-11                            97.9%  87.5%      CCCCTCCATCTTCGGGCGCGACCTCCCCTTTCAGCCGCCCGAAGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 4 Orf_virus_OV-HN3_12                         98.1%  87.2%      CCCCTCCATCTTTGGGCGCGACCTCCCCTTTTAGCCGCCCGAAGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 5 Orf_virus_OV-IA82                           98.6%  88.5%      CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCCGAGGAGCTGCTGAGCGACCACGACCCGCTCATGAGCCAGG
 6 Orf_virus_NZ2                               98.5%  88.2%      CCCCTCCATCTTCGGGCGCGACCTCCCCCCTCAGCCGCCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 7 Orf_virus_YX                                98.1%  95.5%      CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCAGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 8 Orf_virus_GO                                98.8%  96.4%      CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCAGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
 9 Orf_virus_B029                              91.8%  81.7%      CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
10 Orf_virus_IHUMI-1                           78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                               77.2%  74.2%      CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG
12 Orf_virus_NP                                24.1%  23.5%      ----------------------------------------------------------------------------
   consensus/100%                                               ............................................................................
   consensus/90%                                                ............................................................................
   consensus/80%                                                CCCCTCCATCTTsGGGCGCGACsTCCCCssTsAGCCGCCsGAuGAGCTGCTGAGCGACsACGACCCGCTCATGAGCCAGG
   consensus/70%                                                CCCCTCCATCTTCGGGCGCGACsTCCCCssTCAGCCGCCsGAuGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

                                                cov    pid 5041          :         .         .         .         .         1         .         . 5120
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTCAACGACAGCGACAGCGAT
 2 Orf_virus_D1701                             98.3%  88.3%      CCGGCGAGCCGCCGAGCCCGCGGTCTCCCTGCGAGGGCGACCTCTGGTGCTTCGAGACGCTCGGCGACAGCGACAGCGAT
 3 Orf_virus_NA1-11                            97.9%  87.5%      CCGGCGAACCGCCGAGTCCGCGGTCGCCCTGCGAGGCAGACCTCTGGTGCTTCGAGACGCTCGGCGACAGCGACAGCGAT
 4 Orf_virus_OV-HN3_12                         98.1%  87.2%      CTGGCGAACTGCCGAGTCCGCGGTCGCCCTGCGAGGCAGACCTTTGGTGCTTTGAGACGCTCGGCGACAGCGACAGCGAT
 5 Orf_virus_OV-IA82                           98.6%  88.5%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTCGGCGACAGCGACAGCGAT
 6 Orf_virus_NZ2                               98.5%  88.2%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTCGGCGACAGCGACAGCGAT
 7 Orf_virus_YX                                98.1%  95.5%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTC------AACGACAGCGAT
 8 Orf_virus_GO                                98.8%  96.4%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTC------AACGACAGCGAT
 9 Orf_virus_B029                              91.8%  81.7%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTCGGCGACAGCGACAGCGAT
10 Orf_virus_IHUMI-1                           78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                               77.2%  74.2%      CCGGCGAGCCGCCGAGCCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCTTCGAGACGCTCAACGACAGCGACAGCGAT
12 Orf_virus_NP                                24.1%  23.5%      ----------------------------------------------------------------------------
   consensus/100%                                               ............................................................................
   consensus/90%                                                ............................................................................
   consensus/80%                                                CsGGCGAuCsGCCGAGsCCGCGGTCsCCCTGCGAGGssGACCTsTGGTGCTTsGAGACGCTC......AuCGACAGCGAT
   consensus/70%                                                CCGGCGAuCCGCCGAGsCCGCGGTCGCCCTGCGAGGCsGACCTCTGGTGCTTCGAGACGCTC......AuCGACAGCGAT

                                                cov    pid 5121          .         .         :         .         .         .         .         2 5200
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      TGAGCCTCGCACCTCACCCCAC---ACCCTTACCTTACCCCCACCCACCCAACAC------------------CTCAAC
 2 Orf_virus_D1701                             98.3%  88.3%      TGAGCC-TGC-CCCCACCCCAC--------------ACTCTACCTCACCTTACCCCAACAC-------------CCCAAC
 3 Orf_virus_NA1-11                            97.9%  87.5%      TGAGCC-CGCACCACACCCCACCTCACC-------------------------------------------ACACCCCAA
 4 Orf_virus_OV-HN3_12                         98.1%  87.2%      TGAGCC-CGCACCACACCCCACCTCACC-------------------------------------------ACACCCCAA
 5 Orf_virus_OV-IA82                           98.6%  88.5%      TGAGCC-CGCACCACACCCCACCTCACCCACCCCACACTCCACCTCACCTCACCCTAACACCAACACCCTAACACCCAAC
 6 Orf_virus_NZ2                               98.5%  88.2%      TGAGAC-CGCACCACACCCTACCTCACCCACCCCACACTCCACCTCACCTCACCCTAACAC-------CCAACACCCAAC
 7 Orf_virus_YX                                98.1%  95.5%      TGAGCCTCGCACCTCACACCA--------------------------------------------------------AC
 8 Orf_virus_GO                                98.8%  96.4%      TGAGCCTCGCACCTCACCCCACCCTACCTCACCCACACCCACCCACA---------------------------CCAAC
 9 Orf_virus_B029                              91.8%  81.7%      TGAGCC-CGCACCACACCCCAC--------------ACTCCACCTCACCTCACCCTAAC---------CCAACACCCAAC
10 Orf_virus_IHUMI-1                           78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                               77.2%  74.2%      TGAGCCTCGCACCTCACCCCACCCACCCCACACCTACCTCACCCACACCCACTCACA-----------------CCAAC
12 Orf_virus_NP                                24.1%  23.5%      ----------------------------------------------------------------------------
   consensus/100%                                               ............................................................................
   consensus/90%                                                ............................................................................
   consensus/80%                                                TGAGsC.sGC.CCsCACsCsA.......................................................As
   consensus/70%                                                TGAGCC.CGCACCsCACCCCAC.....................................................sCsAs

                                                cov    pid 5201          .         .         .         .         :         .         .         . 5280
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      ACCTCGACCGGACAATGAAGGAGTCCCACATTTCACT---GGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG
 2 Orf_virus_D1701                             98.3%  88.3%      ACCCCAGCCGGACAATGAAGGAGTCCCACATTTCACTGAAGGACGCGGATGAAGCCGCACATCCCCCACATGAAGGATTG
 3 Orf_virus_NA1-11                            97.9%  87.5%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCA---AAGGACGCGGATG-AGCCGCACAT--CCCACATGAAGGATTG
 4 Orf_virus_OV-HN3_12                         98.1%  87.2%      ACCTCAACCGGACAATGAAGGAGTCTCACATTTCA---AAGGACGCGGATG-AGCCGCACAT--CCCACATGAAGGATTG
 5 Orf_virus_OV-IA82                           98.6%  88.5%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCACTGAAGGACGCGGATGAAGCCGCACAT-CCCCACATGAAGGATTG
 6 Orf_virus_NZ2                               98.5%  88.2%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCACTGAAGGACGCGGATGAAGCCGCAC-TCCCCCACATGAAGGATTG
 7 Orf_virus_YX                                98.1%  95.5%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCA---AAGGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG
 8 Orf_virus_GO                                98.8%  96.4%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCA---AAGGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG
 9 Orf_virus_B029                              91.8%  81.7%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCACT-AAGGACGCGGATGAAGCCGCACAT-CCCCACATGAAGGATTG
10 Orf_virus_IHUMI-1                           78.5%  70.9%      ----------------------------------------------------------------------------
11 Orf_virus_SJ1                               77.2%  74.2%      ACCTCAACCGGACAATGAAGGAGTCCCACATTTCACT---GGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG
12 Orf_virus_NP                                24.1%  23.5%      ----------------------------------------------------------------------------
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   consensus/100%                                                    ................................................................................
   consensus/90%                                                     ................................................................................
   consensus/80%                                                     ACCsCuuCCGGACAATGAAGGAGTCsCACATTTCA.....GGACGCGGATG.AGCCGCAC.T..CCCACATGAAGGATsG
   consensus/70%                                                     ACCTCAACCGGACAATGAAGGAGTCCCACATTTCA.....GGACGCGGATG.AGCCGCACAT..CCCACATGAAGGATsG

                                                    cov    pid  5281          .         3         .         .         .         .         :         . 5360
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       GCCAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGCGATTGGCCTGCGACCGACATCGCACAC--A
 2 Orf_virus_D1701                              98.3%  88.3%       G-CAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGCAATTGGCCTGCGACCGACATCGCACACAAA
 3 Orf_virus_NA1-11                             97.9%  87.5%       G-CAACGGTCAAACATTTCACCTGCAAAATGAAGGACGATGCGCGGTCGCGATTGGCTTGCGACCGACATCGCACACAAA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%       G-CAACGGTCAAACATTTTACCTGCAAAATGAAGGACGATGCGCGGTCGCGATTGGCTTGCGACCGACATCGCACACAAA
 5 Orf_virus_OV-IA82                            98.6%  88.5%       G-CAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGC-ATTGGCCTGCGACCGACATCGCACAC--A
 6 Orf_virus_NZ2                                98.5%  88.2%       G-CAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGC-ATTGGCCTGCGACCGACATCGCACAC--A
 7 Orf_virus_YX                                 98.1%  95.5%       G--CACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGCGATTGGCCTGCGACCGACATCGCACAC--A
 8 Orf_virus_GO                                 98.8%  96.4%       G-CAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGCGATTGGCCTGCGACCGACATCGCACAC--A
 9 Orf_virus_B029                               91.8%  81.7%       G-CAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGC-ATTGGCCTGCGACCGACATCGCTCAC--A
10 Orf_virus_IHUMI-1                            78.5%  70.9%       --------------------------------------------------------------------------------
11 Orf_virus_SJ1                                77.2%  74.2%       G-CAACGGTCAAACATTTCACCTGC--AATGAAGGACGATGCGCGGTCGCGATTGGCCTGCGACCGACATCGCACAC--A
12 Orf_virus_NP                                 24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                    ................................................................................
   consensus/90%                                                     ................................................................................
   consensus/80%                                                     G..sACGGTCAAACATTTsACCTGC..AATGAAGGACGATGCGCGGTCGC.ATTGGCsTGCGACCGACATCGCsCAC..A
   consensus/70%                                                     G.CAACGGTCAAACATTTCACCTGC..AATGAAGGACGATGCGCGGTCGC.ATTGGCsTGCGACCGACATCGCACAC..A

                                                    cov    pid  5361          .         .         .         4         .         .         .         . 5440
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
 2 Orf_virus_D1701                              98.3%  88.3%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGG-CAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
 3 Orf_virus_NA1-11                             97.9%  87.5%       TGAAGGACACAATTTGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%       TGAAGGACACAATTTGTTTGTTAATCTGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATTA
 5 Orf_virus_OV-IA82                            98.6%  88.5%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGG-ACACAATCA
 6 Orf_virus_NZ2                                98.5%  88.2%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTAGAACACAATCA
 7 Orf_virus_YX                                 98.1%  95.5%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
 8 Orf_virus_GO                                 98.8%  96.4%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
 9 Orf_virus_B029                               91.8%  81.7%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
10 Orf_virus_IHUMI-1                            78.5%  70.9%       ------------------------------------------------TTTTGTTAATCAGGACAATTAGAACACAATCA
11 Orf_virus_SJ1                                77.2%  74.2%       TGAAGGACACAATTGGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA
12 Orf_virus_NP                                 24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                    ................................................................................
   consensus/90%                                                     ................................................TTTTGTTAATCAGGACAATTuG.ACACAATsA
   consensus/80%                                                     TGAAGGACACAATTsGTTTGTTAATCsGGACAATGAAGG.CAAATTGTTTTTGTTAATCAGGACAATTuGAACACAATCA
   consensus/70%                                                     TGAAGGACACAATTsGTTTGTTAATCCGGACAATGAAGGACAAATTGTTTTTGTTAATCAGGACAATTGGAACACAATCA

                                                    cov    pid  5441          :         .         .         .         .         5         .         . 5520
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       AATTAT-TTTTTGTGCGGTCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
 2 Orf_virus_D1701                              98.3%  88.3%       GATTAA-TTTTTGTACGATCATAAAATCGATATTTGATGCACATATATTAGTAAGTGTATTAGACTAAATTCTCCGGGGA
 3 Orf_virus_NA1-11                             97.9%  87.5%       GATTAATTTTTTGTACGATCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAAACTAAATTCTCCGGGGA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%       GATTAATTTTTTGTACGATCATAAAATTGATATTTGATGCACATATATTAGTAAGTATATTAAACTAAATTCTCCGGGGA
 5 Orf_virus_OV-IA82                            98.6%  88.5%       GATTAA-TTTTTGTACGATCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
 6 Orf_virus_NZ2                                98.5%  88.2%       AA-----TTTTTGTACGATCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
 7 Orf_virus_YX                                 98.1%  95.5%       AATTAT-TTTTTGTGCGGTCCTAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
 8 Orf_virus_GO                                 98.8%  96.4%       AATTAATTTTTTGTGCGGTCCTAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
 9 Orf_virus_B029                               91.8%  81.7%       AATTAA-TTTTTGTACGATCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
10 Orf_virus_IHUMI-1                            78.5%  70.9%       AATTAA-TTTTTGTACGATCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
11 Orf_virus_SJ1                                77.2%  74.2%       AATTAA-TTTTTGTGCGGTCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA
12 Orf_virus_NP                                 24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                    ................................................................................
   consensus/90%                                                     uA.....TTTTTGTuCGuTCsTAAAATsGATATTTGATGCACATATATTAGTAAGTuTATTAuACTAAATTCTCCGGGGA
   consensus/80%                                                     uATTAs.TTTTTGTuCGuTCsTAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAuACTAAATTCTCCGGGGA
   consensus/70%                                                     uATTAs.TTTTTGTuCGuTCATAAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATTCTCCGGGGA

                                                    cov    pid  5521          .         .         :         .         .         .         .         6 5600
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGG--CCCCCTCCCCCCACCCCCACG
 2 Orf_virus_D1701                              98.3%  88.3%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGGTCCCCCTTCCCCCCACCCCCACG
 3 Orf_virus_NA1-11                             97.9%  87.5%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGGTCCCCCTTCCCCCCACCCCCACG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGGTCCCCCTTCCCCCCACCCCCACG
 5 Orf_virus_OV-IA82                            98.6%  88.5%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGGTCCCCCTTCCCCCCACCCCCACG
 6 Orf_virus_NZ2                                98.5%  88.2%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAGTTCGGGCGGGTCCCCCTTCCCCCCACCCCCACG
 7 Orf_virus_YX                                 98.1%  95.5%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGG--CCCCCTCCCCCCACCCCCACG
 8 Orf_virus_GO                                 98.8%  96.4%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGG--CCCCCTCCCCCCACCCCCACG
 9 Orf_virus_B029                               91.8%  81.7%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGGTCCCCCTTCCCCCCACCCCCACG
10 Orf_virus_IHUMI-1                            78.5%  70.9%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGGT-CCCCTTCCCCCCACCCCCACG
11 Orf_virus_SJ1                                77.2%  74.2%       GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGG-CCCCCCTCCCCCCACCCCCACG
12 Orf_virus_NP                                 24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                    ................................................................................
   consensus/90%                                                     GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAuTTCGGGCGGG..CCCCsTCCCCCCACCCCCACG
   consensus/80%                                                     GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGG..CCCCsTCCCCCCACCCCCACG
   consensus/70%                                                     GGCAAGCAGTTGGATACGGCGGGGCGGGGCACGACGTGCACGGAGAATTCGGGCGGG..CCCCsTCCCCCCACCCCCACG

                                                    cov    pid  5601          .         .         .         .         :         .         .         . 5680
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       CACCACGATGCGTCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
 2 Orf_virus_D1701                              98.3%  88.3%       CACCACGATGCGTCTAATCTTAGCGCTTGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
 3 Orf_virus_NA1-11                             97.9%  87.5%       CACCACGATGCGTCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%       CACCACGATGCGTCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
 5 Orf_virus_OV-IA82                            98.6%  88.5%       CACCACGATGCGTCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
 6 Orf_virus_NZ2                                98.5%  88.2%       CACCACGATGCGCCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
 7 Orf_virus_YX                                 98.1%  95.5%       CACCACGATGCGTCTAATTTTAGCGCTCGTGGCTTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTACGACAAGCA
 8 Orf_virus_GO                                 98.8%  96.4%       CACCACGATGCGCCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTACGACAAGCA
 9 Orf_virus_B029                               91.8%  81.7%       CACCACGATGCGCCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
10 Orf_virus_IHUMI-1                            78.5%  70.9%       CACCACGATGCGTCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTACGACAAGCA
11 Orf_virus_SJ1                                77.2%  74.2%       CACCACGATGCGTCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTTCGACAAGCA
12 Orf_virus_NP                                 24.1%  23.5%       -----------------------------------------------------------------------CGACTAGC-
   consensus/100%                                                    .......................................................................CGACsAGC.
   consensus/90%                                                     CACCACGATGCGsCTAATsTTAGCGCTsGTGGCsTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTsCGACAAGCA
   consensus/80%                                                     CACCACGATGCGsCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTsCGACAAGCA
   consensus/70%                                                     CACCACGATGCGsCTAATCTTAGCGCTCGTGGCCTGCTTGTTGGCGGCGCCGATGCCGTTATCGGGTCGTsCGACAAGCA

                                                    cov    pid  5681          .         7         .         .         .         .         :         . 5760
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%       CCCCAAACACA---CCGTCCGCACTCGGCTCGACGAGTGCGACACCAAGCTCGGAAGACGCTGCGGCTTCGAGCACAACG
 2 Orf_virus_D1701                              98.3%  88.3%       CTCCAAACACGTCCCCCTCCGTACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
 3 Orf_virus_NA1-11                             97.9%  87.5%       CTCCAAACACGTCCCTCTCCGTACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTTGAGCACAACG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%       CTCCAAACACGTCCCTCTCCGCACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
 5 Orf_virus_OV-IA82                            98.6%  88.5%       CCCCAAACACA---CAGTCCGTACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
 6 Orf_virus_NZ2                                98.5%  88.2%       CTCCAAACACGTCCCCCTCCGCACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
 7 Orf_virus_YX                                 98.1%  95.5%       CCCCAAATTTA---CAGTCCGCACTCGGCTCGACGAGTTCGGCACAAAGCTCTGAAGACGCAGTGTCTTCGAGCACAACG
 8 Orf_virus_GO                                 98.8%  96.4%       CCCCAAACACA---CCGTCCGCACTCGGCTCGACGAGTACGGCACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
 9 Orf_virus_B029                               91.8%  81.7%       CTCCAAACACGTCCCCCTCCGCACTCGGCTCGACGAGTTCGGAAACAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
10 Orf_virus_IHUMI-1                            78.5%  70.9%       CTCCAAACACGTCCCCCTCCGTACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACACTC
11 Orf_virus_SJ1                                77.2%  74.2%       CCCCAAATTTA---CAGTCCGCACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGCGGCTTCGAGCACAACG
12 Orf_virus_NP                                 24.1%  23.5%       --------------------------------------------------------------------------------
   consensus/100%                                                    ................................................................................
   consensus/90%                                                     CsCCAAAsssu...CssTCCGsACTCGGCTCGACGAGTsCGusAssAAGCTCsGAAGACGCsGsGsCTTsGAGCACAsss
   consensus/80%                                                     CsCCAAAsssu...CssTCCGsACTCGGCTCGACGAGTsCGGsACCAAGCTCGGAAGACGCTGsGGCTTCGAGCACAACG
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   consensus/70%                                                                 CsCCAAACACu...CssTCCGsACTCGGCTCGACGAGTTCGGsACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG

                                                       cov    pid 5761          .         .         .         8         .         .         .         . 5840
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%    ACAAGCAC------------TACAAGCACACTCACTTCGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACGAC
 2 Orf_virus_D1701                               98.3%  88.3%    ACAAGCAC------------TACAAGCACACTCACTCTGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACAAC
 3 Orf_virus_NA1-11                              97.9%  87.5%    ACAAGCACACT---------------------CACTCTGTCCACAAATGTGGACACCACTACTACCTCGGGCGCTACAAC
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%    ACAAGCACACTCACAAGCACTACAAGCACACGCACTCTGTCCACAAGTGTGGACACCACTACTA---CGGGCGCTACAAC
 5 Orf_virus_OV-IA82                             98.6%  88.5%    ACAAGCACACTCACAAGCACTACAAGCACACTCACTATGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACGAC
 6 Orf_virus_NZ2                                 98.5%  88.2%    ACAAGCACACTCACAAGCACTACAAGCACACTCACTATGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACAAC
 7 Orf_virus_YX                                  98.1%  95.5%    ACAAGCACACT---------------------CACTTTGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACGAC
 8 Orf_virus_GO                                  98.8%  96.4%    ACAAGCACACT---------------------CACTTTGCCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACGAC
 9 Orf_virus_B029                                91.8%  81.7%    ACAAGCACACT---------------------CACTATGTCCACAAGTGTGGACACCACTACTACCTCTGGCGCTACAAC
10 Orf_virus_IHUMI-1                             78.5%  70.9%    ACAATCAC------------TACAAGCACACTCACTCTGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACAAC
11 Orf_virus_SJ1                                 77.2%  74.2%    ACAAGCACACT---------------------CACTTCGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACGAC
12 Orf_virus_NP                                  24.1%  23.5%    --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                ACAAsCAC.......................CACTssGsCCACAAuTGTGGACACCACTACTA...CsGGCGCTACuAC
   consensus/80%                                                ACAAGCAC.......................CACTssGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACuAC
   consensus/70%                                                ACAAGCAC.......................CACTsTGTCCACAAGTGTGGACACCACTACTACCTCGGGCGCTACuAC

                                                       cov    pid 5841          :         .         .         .         .         9         .         . 5920
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%    GTCCA---A---CAGCACTTCTGCAGCAAGTGTGAGCTCTTCCACATCCGCAACCACTGAGGCATCGACGGCACCAACGA
 2 Orf_virus_D1701                               98.3%  88.3%    GTCCACAAACAGCAGCACTTTTGCAGCAAGTGTAAGCTCTTCCACACCCACAACCACTGAGGCATCAACCACACCAACAA
 3 Orf_virus_NA1-11                              97.9%  87.5%    GTCCACAAA---CAGCACTCCTGCAGCGAGTGTGAGCCCCTCCACACTCGCAACCACTGAGGCATCAACGGCACTAACGA
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%    GTCCGCAAA---CAGCACTCCTGCAGCGAGTGTGAGCTCCTCCACACCCGCAGCCACTGAGGCATCGACGGCA-------
 5 Orf_virus_OV-IA82                             98.6%  88.5%    GTCCACAAA---CAGCACTCCTGCAGCGAGTGTGAGTTCTTCCACACCCGCAGCCACTGAGGCATCGACGGCACCAACGA
 6 Orf_virus_NZ2                                 98.5%  88.2%    GTCCGCAAA---CAGCACTCCTGCAGCGAGTGTGAGCTCCTCCACACCCGCAACTACTGAGGCATCGACGGCACCAACGA
 7 Orf_virus_YX                                  98.1%  95.5%    GTCCA---A---CAGCACTTCTGCAGCAAGTGTGAGCTCTTCCACACCCTCAACCACTAAGGCATCGACGGCACCAACGA
 8 Orf_virus_GO                                  98.8%  96.4%    GTCCA---A---CAGCACTTCTGCAGCAAGTGTGAGCTCTTCCACACCCGCAACCACTGAGGCATCGACGGCACCAACGA
 9 Orf_virus_B029                                91.8%  81.7%    GTCCGCAAA---CAGCACTCCTGCAGCGAGTGTGAGCTCCTCCACACCCGCAACCACTGAGGCATCGACGGCACCAACGA
10 Orf_virus_IHUMI-1                             78.5%  70.9%    GTCCACAAA---CAGCACTCCTGCAGCGAGTGTGAGTTCTTCCACACCCGCAGCTACTGAGGCATCGACGGCACCAACGA
11 Orf_virus_SJ1                                 77.2%  74.2%    GTCCACACG---CAGCACTTCTGCAGCAAGTGTGAGCTCTTCCACACCCGCAACTACTGAGGCATCGACGGCACTAACGA
12 Orf_virus_NP                                  24.1%  23.5%    --------------------------------------------------------------------------------
   consensus/100%                                               ................................................................................
   consensus/90%                                                GTCCu...u...CAGCACTssTGCAGCuAGTGTuAGssCsTCCACAssCsCAuCsACsuAGGCATCuACsuCA.......
   consensus/80%                                                GTCCu...A...CAGCACTsCTGCAGCuAGTGTGAGsTCsTCCACACCCuCAuCsACTGAGGCATCuACGGCACsAACuA
   consensus/70%                                                GTCCu...A...CAGCACTsCTGCAGCuAGTGTGAGCTCsTCCACACCCGCAuCsACTGAGGCATCGACGGCACsAACGA

                                                       cov    pid 5921          .         .         :         .         .         .         .         0 6000
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%    CGCCGT---------TGACACCGACGAC------AGTGAAGGTAACGAATGGCAAAGAAAAC---AAGGCGTCTGCCTAC
 2 Orf_virus_D1701                               98.3%  88.3%    CGCCGTCAACGCTGACAACGCCGACAAC------AGTGAAGGTAACAAAAAACG---AGGACACGAAGGCGTCTGCCTAC
 3 Orf_virus_NA1-11                              97.9%  87.5%    CGCCGT---------CGACGCCAACGAC------AGTGAAGGTAACGAAAGACA---AAGACACGAAGGCGTCTGCCTAC
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%    --CCGT---------CGACGCCGACGAC------AGTGAAGGTAACGAAGGGCAAGGAAGACACGAAGGCGTCTGCCTAC
 5 Orf_virus_OV-IA82                             98.6%  88.5%    CGCCGT---------CGACGCAGACGAC------AGTGAAGGTAACGAAAGACA---AAGACACGAAGGCGTCTGCCTAC
 6 Orf_virus_NZ2                                 98.5%  88.2%    CGCCGT---------CGACGCCGACGAC------AGTGAAGGTAACGAAGGGCAAGGAAGACACGAAGGCGTCTGCCTAC
 7 Orf_virus_YX                                  98.1%  95.5%    CGCTGT---------TGACGCCAACGAC------AGTGAAGGTAACGAATGGCAAGGAAAACACGAAGGCGTCTGCCTAC
 8 Orf_virus_GO                                  98.8%  96.4%    CGCCGT---------TGACGCCGACGAC------AGTGAAGGTAACGAATGGCAAGGAAAACACGAAGGCGTCTGCCTAC
 9 Orf_virus_B029                                91.8%  81.7%    CGCCGT---------CGACGCCGACGAC------AGTGAAGGTAACGAAGGGCAAGGAAGACACGAAGGCGTCTGCCTAC
10 Orf_virus_IHUMI-1                             78.5%  70.9%    CGCCGT---------CGACGCAGACGACAGTGAAAGTGAAGGTAACGAAAGACA---AAGACACGAAGGCGTCTGCCTAC
11 Orf_virus_SJ1                                 77.2%  74.2%    CGCTGT---------TGACGCCGACGAC------AGTGAAGGTAACGAATGGCAAGGAAAAC---AAGGCGTCTGCCTAC
12 Orf_virus_NP                                  24.1%  23.5%    --CCGT---------TGACGCCGACGAC------AGTGAAGGTAACGAATGGCAAGAAAAACACGAAGGCGTCTGCCTAC
   consensus/100%                                               ..CsGT.........suACuCsuACuAC......AGTGAAGGTAACuAAsuuCu...AuuAC...AAGGCGTCTGCCTAC
   consensus/90%                                                ..CsGT.........sGACGCsuACGAC......AGTGAAGGTAACGAAsGuCA...AAuAC...AAGGCGTCTGCCTAC
   consensus/80%                                                CGCCGT.........sGACGCCGACGAC......AGTGAAGGTAACGAAsGuCA...AAuACACGAAGGCGTCTGCCTAC
   consensus/70%                                                CGCCGT.........sGACGCCGACGAC......AGTGAAGGTAACGAAsGuCA...AAuACACGAAGGCGTCTGCCTAC

                                                       cov    pid 6001          .         .         .         .         :         .         .         . 6080
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%    CTCGCTGTACCAGTTATGTTCATGACCATGACAACGCTCGCGATGGTCGTCGTCGTGGTCGTGCTCATGTACAAACAGGG
 2 Orf_virus_D1701                               98.3%  88.3%    CTTGTTGTACTAATTATTTTCATGGTCATGACCACCCTTGTAATGGTCGTCTTCATGGTCGTGCTCGTGTACAAACAGGG
 3 Orf_virus_NA1-11                              97.9%  87.5%    CTCGTTTTACTAATCACGTTCATGGTCATGACCACGCTAGTGATGGTCGTGGTCGTGGTCGTGGTCGTGTACAAACAGGG
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%    CTCGTTTTACTAATAACGTTCATGGTCATGACCACGCTAGTGATGGTCGTGGTCGTGGTCGTGGTCGTGTACAAACAGGG
 5 Orf_virus_OV-IA82                             98.6%  88.5%    CTCGTTTTACTAATCACGTTCATGGTCATGACAACGCTAGTGATGGTTGTGGTCGTGGTCGTGATCGTGTACAAACAGGG
 6 Orf_virus_NZ2                                 98.5%  88.2%    CTCGTTTTACTAATCACGTTCATGGTCATGACCACGCTCGTGATGGTCGTGGTCGTGGTCGTGGTCGTGTACAAACAGGG
 7 Orf_virus_YX                                  98.1%  95.5%    CTCGCTGTACCAGTTATGTTCATGACCATGACCACGCTCGCGATGGTCGTCGTTGTGGTCGTGCTCATGTACAAACAGGG
 8 Orf_virus_GO                                  98.8%  96.4%    CTCGCTGTACCAGTTATGTTCATGACCATGACCACGCTCGCGATGGTCGTCGTCGTGGTTGTGCTCATGTACAAACAGGG
 9 Orf_virus_B029                                91.8%  81.7%    CTCGTTTTACTAATCACGTTCATGGTCATGACCACGCTCGTGATGGTCGTGGTCGTGGTCGTGGTTGTGTACAAACAGGG
10 Orf_virus_IHUMI-1                             78.5%  70.9%    CTCGTTTTACTAATCACGTTCATGGTCATGACCACGCTCGTGATGGTCGTGGTCGTGGTCGTGGTCATGTACAAACAGGG
11 Orf_virus_SJ1                                 77.2%  74.2%    CTCGCTGTACCAGTTATGTTCATGACCATGACCACGCTCGCGATGGTCGTCGTCGTGGTTGTGCTCATGTACAAACAGGG
12 Orf_virus_NP                                  24.1%  23.5%    CTCGCTGTACCAGTTATGTTCATGACCATGACCACGCTCGCGATGGTCGTCGTTGTGGTCGTGCTCATGTACAAACAGGG
   consensus/100%                                               CTsGsTsTACsAuTsAssTTCATGusCATGACsACsCTsGsuATGGTsGTssTsuTGGTsGTGsTsuTGTACAAACAGGG
   consensus/90%                                                CTCGsTsTACsAuTsAsGTTCATGusCATGACsACGCTsGsGATGGTCGTsGTsGTGGTsGTGsTCuTGTACAAACAGGG
   consensus/80%                                                CTCGsTsTACsAuTsAsGTTCATGusCATGACCACGCTsGsGATGGTCGTsGTCGTGGTCGTGsTCuTGTACAAACAGGG
   consensus/70%                                                CTCGsTsTACsAuTsAsGTTCATGusCATGACCACGCTsGsGATGGTCGTsGTCGTGGTCGTGsTCuTGTACAAACAGGG

                                                       cov    pid 6081          .         1         .         .         .         .         :         . 6160
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%    ACTCTGCAACTGCTTCTG-TAAGATGTTTCCCTGCTGCAAAGAACTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 2 Orf_virus_D1701                               98.3%  88.3%    ACTCTGCAACTGCTGCTGTTAACATGTTTCCCTGCTGCGACAAGCTCAAGGACTACCTCCACAAGGAGGAGAGCGCCGGG
 3 Orf_virus_NA1-11                              97.9%  87.5%    ACTCTGTAACTGCTGCTG-TAGGATGTTTCCCTGCTGCAAAGAGATCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%    ACTCTGTAACTGCTGCTG-TAGGATGTTTCCCTGCTGCAAAGAGATCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 5 Orf_virus_OV-IA82                             98.6%  88.5%    ACTTTGTGACTGCTGCTG-TAAGATGTTTCCCTGCTGCAAAGAGCTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 6 Orf_virus_NZ2                                 98.5%  88.2%    ACTCTGTAACTGCTGCTG-TAA---GTTTCCCTGCTGCAAAGAGCTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 7 Orf_virus_YX                                  98.1%  95.5%    ACTCTGTAACTGCTTCTG-TAAGATGTTTCCCTGCTGCAAAGAACTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 8 Orf_virus_GO                                  98.8%  96.4%    ACTCTGCAACTGCTTCTG-TAAGATGTTTCCCTGCTGCAAAGAACTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
 9 Orf_virus_B029                                91.8%  81.7%    ACTCTGCAACTGCTGCTG-TAAGATGTTTCCCTGCTGCAAAGAGCTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
10 Orf_virus_IHUMI-1                             78.5%  70.9%    ACTCTGTGACTGCTGCTG-TAA---GTTTCCCTGCTGCAAAGAGCTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
11 Orf_virus_SJ1                                 77.2%  74.2%    ACTCTGCAACTGCTTCTG-TAAGATGTTTCCCTGCTGCAAAGAACTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
12 Orf_virus_NP                                  24.1%  23.5%    ACTCTGCAACTGCTTCTG-TAAGATGTTTCCCTGCTGCAAAGAACTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
   consensus/100%                                               ACTsTGsuACTGCTsCTG.TAu...GTTTCCCTGCTGCuAsuAusTCAAGGACTACCTCsACuAGGAGGAGAGCGCCGGG
   consensus/90%                                                ACTCTGsuACTGCTsCTG.TAu...GTTTCCCTGCTGCAAAGAusTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
   consensus/80%                                                ACTCTGsAACTGCTsCTG.TAAsATGTTTCCCTGCTGCAAAGAuCTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG
   consensus/70%                                                ACTCTGsAACTGCTsCTG.TAAGATGTTTCCCTGCTGCAAAGAuCTCAAGGACTACCTCGACGAGGAGGAGAGCGCCGGG

                                                       cov    pid 6161          .         .         .         2         .         .         .         . 6240
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%    CTGTACGACGCCGTGACGTGGAGCCACTCGAACCCCGGCTTCCGGCTCGTCACGCGCACAGACCCCAGATGATGAAGATC
 2 Orf_virus_D1701                               98.3%  88.3%    CTGTACGACGCCGTGACGTGGAGCCACTCGAACCCCGGCTTCCGGCTTGTCACGCGCGCGGACCCCAGATGATGAGGATC
 3 Orf_virus_NA1-11                              97.9%  87.5%    CTGTACGACTCCTTGACGTGGAGCCCCTCGAAACCCGGCTTCCGGCTCGTCGTGCGCGAGGACCCCAGATGATGAGGATC
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%    CTGTACGACTCCTTGACGTGGAGCCCCTCGAAACCCGGCTTCCGGCTCGTCGTGCGCGAGGACCCCAGATGATGAGGATC
 5 Orf_virus_OV-IA82                             98.6%  88.5%    CTGTACGACGCCTTGACGTGGAGCCGCTCAGACCCCGGCCTCCGGCTCGTCGTGCGCGCGGACCCCAGATGATGAGGATC
 6 Orf_virus_NZ2                                 98.5%  88.2%    CTGTACGACGCCTTGACGTGGAGCCACTCAGACTCCGGCCTCCGGCTCGTCGTGCGCGCGGACCCCAGATGATGAGGATC
 7 Orf_virus_YX                                  98.1%  95.5%    CTGTACGACGCCGTGACGTGGAGCCACTCGAACCCCGGCTTCCGGCTCGTCACGCGCACAGACCCCAGATGACGAAGATC
 8 Orf_virus_GO                                  98.8%  96.4%    CTGTACGACGCCGTGACGTGGAGCCACTCAAACCCCGGCTTCCGGCTCGTCACGCGCACAGACCCCAGATGACGAAGATC
 9 Orf_virus_B029                                91.8%  81.7%    CTGTACGACGCCTTGACGTGGAGCCACTCGAACCCCGGCCTCCGGCTCGTCGTGCGCGCGGACCCCAGATGATGAGGATC
10 Orf_virus_IHUMI-1                             78.5%  70.9%    CTGTACGACGCCTTGACGTGGAGCCGCTCAGACCCCGGCCTCCGGCTCGTCGTGCGCGCGGACCCCAGATGATGAGGATC
11 Orf_virus_SJ1                                 77.2%  74.2%    CTGTACGACGCCGTGACGTGGAGCCACTCGAACCCCGGCTTCCGGCTCGTCACGCGCACAGACCCCAGATGATGAAGATC
12 Orf_virus_NP                                  24.1%  23.5%    CTGTACGACGCCGTGACGTGGAGCCACTCAAACCCCGGCTTCCGGCTCGTCACGCGCACAGACCCCAGATGATGAAGATC
   consensus/100%                                               CTGTACGACsCCsTGACGTGGAGCCsCTCuuAssCCGGCsTCCGGCTsGTCusGCGCusuGACCCCAGATGAsGAuGATC
   consensus/90%                                                CTGTACGACsCCsTGACGTGGAGCCsCTCuuAsCCCGGCsTCCGGCTCGTCusGCGCusuGACCCCAGATGAsGAuGATC
   consensus/80%                                                CTGTACGACGCCsTGACGTGGAGCCuCTCuuACCCCGGCsTCCGGCTCGTCusGCGCuCuGACCCCAGATGATGAuGATC
   consensus/70%                                                CTGTACGACGCCsTGACGTGGAGCCuCTCuAACCCCGGCsTCCGGCTCGTCusGCGCuCuGACCCCAGATGATGAuGATC

                                                       cov    pid 6241          :         .         .         .         .         .         3         . 6320
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                                                  cov    pid 6321          .         .         :         .         .         .         .         4 6400
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      AACACGCTTTGGGATTCAACTCCGCGGCCCACACGCAACCATGGCTGGCTTCCTAGGTGCGTTCAGAGGCGTGTGCTCCG
 2 Orf_virus_D1701                              98.3%  88.3%      AACACGCTTTGGGGTTCAACTCCGTGACCCACA--CAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGCTGCG
 3 Orf_virus_NA1-11                             97.9%  87.5%      AACACGCTTTGGGACTCAACTCTGTGGCCCACA--CAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGCTCTG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      AACACGCTTTGGGACTCAACTCTGTGGCCCACA--CAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGCTCTG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      AACACGCTTTGGGACTCAACTCTGTGGCCCACA--CAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGCTCCG
 6 Orf_virus_NZ2                                98.5%  88.2%      AACACGCTTTGGGACTCAACTCCGTGACCCACACTCAACCATGGCTGGCTTCCTAGGCGCATTCAGAGGCGTGTGCTCCG
 7 Orf_virus_YX                                 98.1%  95.5%      AACACGCTTTGGGATTCAACTCCGCGGCCCACACGCAACCATGGCTGGCTTCCTAGGTGCGTTCAGAGGCGTGTGCTCCG
 8 Orf_virus_GO                                 98.8%  96.4%      AACACGCTTTGGGATTCAACTCCGCGGCCCACACGCAACCATGGCTGGCTTCCTAGGTGCGTTCAGAGGCGTGTGCTCCG
 9 Orf_virus_B029                               91.8%  81.7%      AACACGCTTTGGGACTCAACTCTGTGGCCCACT--CAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGCTCCG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      AACACGCTTTGGGACTCAACTCTGTGGCCCACA--CAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGCTCCG
11 Orf_virus_SJ1                                77.2%  74.2%      AACACGCTTTGGGACTCAACTCCGCGGCCCACACGCAACCATGGCTGGCTTCCTAGGTGCGTTCAGAGGCGTGTGCTCCG
12 Orf_virus_NP                                 24.1%  23.5%      AACACGCTTTGGGATTCAACTCTGCGGCCCACACGCAACCATGGCTGGCTTCCTAGGCGCGTTCAGAGGCGTGTGTTCAG
   consensus/100%                                                  AACACGCTTTGGGusTCAACTCsGsGuCCCACs..CAACCATGGCTGGCTTCCTAGGsGCuTTCAGAGGCGTGTGsTssG
   consensus/90%                                                   AACACGCTTTGGGAsTCAACTCsGsGuCCCACA..CAACCATGGCTGGCTTCCTAGGsGCGTTCAGAGGCGTGTGCTCsG
   consensus/80%                                                   AACACGCTTTGGGAsTCAACTCsGsGGCCCACA..CAACCATGGCTGGCTTCCTAGGsGCGTTCAGAGGCGTGTGCTCsG
   consensus/70%                                                   AACACGCTTTGGGAsTCAACTCsGsGGCCCACA..CAACCATGGCTGGCTTCCTAGGsGCGTTCAGAGGCGTGTGCTCCG

                                                  cov    pid 6401          .         .         .         .         :         .         .         . 6480
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      AAATATGGCAGTCGCTCCGTGGACACGGACACCACCACTCTTCCAACTGTCCGCGACGACGCGCCAACAGCATGGACGAG
 2 Orf_virus_D1701                              98.3%  88.3%      AAATATGGCAGTCGCTCCGTGGACAGGGACACCACCACTCGTCTAACTGCCCGCGACAACGCGCCAATAGCGTGGACGAC
 3 Orf_virus_NA1-11                             97.9%  87.5%      ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCACTCTTC---CTGCCCGCGACGACGCGCCAACAGCATGGACGAC
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCACTCTTC---CTGCCCGCGACGACGCGCCAACAGCATGGACGAC
 5 Orf_virus_OV-IA82                            98.6%  88.5%      ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCACTCTTCCAGCTGCCCGCGACGACGCGCCAACAGCATGGACGAC
 6 Orf_virus_NZ2                                98.5%  88.2%      ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCACTCTTCCAGCTGCCCGCGACGACGCGCCAACAGCATGGACGAC
 7 Orf_virus_YX                                 98.1%  95.5%      AAATATGGCAGTCGCTCCGTGGACACGGACACCACCACTCTTCCAACTGCCCGCGACGACGCGCCAACAGCGTGGACGAA
 8 Orf_virus_GO                                 98.8%  96.4%      AAATATGGCAGTCGCTCCGTGGACACGGACACCACCACTCTTCCAACTGCCCGCGACGACGCGCCAACAGCGTGGACGAA
 9 Orf_virus_B029                               91.8%  81.7%      ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCACTCTTCCAGCTGCCCGCGACGACGCGCCAACAGCATGGACGAC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCACTCTTCCAGCTGCCCGCGACGACGCGCCAACAGCATGGACGAC
11 Orf_virus_SJ1                                77.2%  74.2%      AAATATGGCAGTCGCTCCGTGGACACGGACACCACCACTCCTCCAACTGCCCGCGACGACGCGCCAACAGCATGGACGAG
12 Orf_virus_NP                                 24.1%  23.5%      AAATATGGCAATCGCTCCGTGGACACGGACACCACCACTCTTCCAACTGCCCGCGACGACGCGCCAACAGCGTGGACGAA
   consensus/100%                                                  AssTATGGCAuTCGCTCCGTGGACAsGGA...CACCACTCsTC...CTGsCCGCGACuACGCGCCAAsAGCuTGGACGAs
   consensus/90%                                                   AssTATGGCAGTCGCTCCGTGGACACGGA...CACCACTCsTC...CTGCCCGCGACGACGCGCCAACAGCuTGGACGAs
   consensus/80%                                                   AssTATGGCAGTCGCTCCGTGGACACGGA...CACCACTCTTCsAuCTGCCCGCGACGACGCGCCAACAGCuTGGACGAs
   consensus/70%                                                   AssTATGGCAGTCGCTCCGTGGACACGGA...CACCACTCTTCCAuCTGCCCGCGACGACGCGCCAACAGCuTGGACGAs

                                                  cov    pid 6481          .         5         .         .         .         .         :         . 6560
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCGACAGCTCGGCGTCGCTGAACCGCGACCTGATGCCGCG
 2 Orf_virus_D1701                              98.3%  88.3%      CGCGACCGGCGCCGGCGCCGCCACCGCCACTGCGAGATCCCCGACAGCTCAGTGTCGCTGAACCGCGACCTGATGCCGCG
 3 Orf_virus_NA1-11                             97.9%  87.5%      CGCGACCGGCGCCGACACCGCCACC------GCGAGATCCCCAACAGCTCGGCGTCGCTGAACAGCGACCCGATGCCGCA
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      CGCGACCGGCGCCGACACCGCCACC------GCGAGATCCCCAACAGCTCGGCGTCGCTGAACAGCGACCCGATGCCGCA
 5 Orf_virus_OV-IA82                            98.6%  88.5%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCAACAGCTCGGCGTCGCTGAACAGCGACCCGATGCCGCC
 6 Orf_virus_NZ2                                98.5%  88.2%      CGCGACCGGCGCCGACACCGCCACC------GCGAGATCCCCAACAGCTCGGCGTCGCTGAACAGCGACCCGATGCCGCA
 7 Orf_virus_YX                                 98.1%  95.5%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCGACAGCTCGGCGTCGCTGAACCGCGACCTGATGCCGCG
 8 Orf_virus_GO                                 98.8%  96.4%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCGACAGCTCGGCGTCGCTGAACCGCGACCTGATGCCGCG
 9 Orf_virus_B029                               91.8%  81.7%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCAACAGCTCGGCGTCGCTGAACAGCGACCCGATGCCGCC
10 Orf_virus_IHUMI-1                            78.5%  70.9%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCAACAGCTCGGCGTCGCTGAACAGCGACCCGATGCCGCA
11 Orf_virus_SJ1                                77.2%  74.2%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCGACAGCTCGGCGTCGCTGAACCGCGACCTGATGCCGCG
12 Orf_virus_NP                                 24.1%  23.5%      CGCGACCGGCGCCGGCACCGCCACC------GCGAGATCCCCGACAGCTCGTCGTCGCTGAACCGCGACCTGATGCCGCG
   consensus/100%                                                  CGCGACCGGCGCCGuCuCCGCCACC......GCGAGATCCCCuACAGCTCussGTCGCTGAACsGCGACCsGATGCCGCs
   consensus/90%                                                   CGCGACCGGCGCCGuCACCGCCACC......GCGAGATCCCCuACAGCTCGGCGTCGCTGAACsGCGACCsGATGCCGCs
   consensus/80%                                                   CGCGACCGGCGCCGuCACCGCCACC......GCGAGATCCCCuACAGCTCGGCGTCGCTGAACsGCGACCsGATGCCGCu
   consensus/70%                                                   CGCGACCGGCGCCGGCACCGCCACC......GCGAGATCCCCuACAGCTCGGCGTCGCTGAACsGCGACCsGATGCCGCu

                                                  cov    pid 6561          .         .         .         6         .         .         .         . 6640
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      ACGCAGTGCGGGCGCGCTCCGGCACCACGACCGCTGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 2 Orf_virus_D1701                              98.3%  88.3%      ACGCAGTGCGGGCGCGCTC---CACTACGACCGCTGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 3 Orf_virus_NA1-11                             97.9%  87.5%      ACGCAGTGCGGGTGCGCGCCGACACTACGAATGCCGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      ACGCAGTGCGGGTGCGCGCCGACACTACGAATGCCGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 5 Orf_virus_OV-IA82                            98.6%  88.5%      ACGCAGTGCGGGTGCGCGCCGGCACTACGACTGCCGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 6 Orf_virus_NZ2                                98.5%  88.2%      ACGCAGTGCGGGTGCGCGCCGGCACTACGACTGCCGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAAGCACCACTCGG
 7 Orf_virus_YX                                 98.1%  95.5%      ACGCAGTGCGGGCGCGCTCCGGCACCACGACCGCTGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 8 Orf_virus_GO                                 98.8%  96.4%      ACGCAGTGCGGGCGCGCTCCGGCACCACGACCGCTGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
 9 Orf_virus_B029                               91.8%  81.7%      ACGCAGTGCGGGTGCGCGCCGGCACTACGACTGCCGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
10 Orf_virus_IHUMI-1                            78.5%  70.9%      ACGCAGTGCGGGTGCGCGCCGGCACTACGACTGCCGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAAG----------
11 Orf_virus_SJ1                                77.2%  74.2%      ACGCAGTGCGGGCGCGCTCCGGCACCACGACCGCTGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
12 Orf_virus_NP                                 24.1%  23.5%      ACGCAGTGCGGGCGCGCTCCGGCACCACGACCGCTGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG----------
   consensus/100%                                                  ACGCAGTGCGGGsGCGCsC...CACsACGAssGCsGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAuG..........
   consensus/90%                                                   ACGCAGTGCGGGsGCGCsCCGuCACsACGAssGCsGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAuG..........
   consensus/80%                                                   ACGCAGTGCGGGsGCGCsCCGuCACsACGACsGCsGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG..........
   consensus/70%                                                   ACGCAGTGCGGGsGCGCsCCGGCACsACGACsGCsGCCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG..........

                                                  cov    pid 6641          :         .         .         .         .         7         .         . 6720
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      --------CACCGCTCGGCGGACCGACACCAATCGGCGGACAGGGACCGACACCGCCGCGGTCGCAAGAACTACGACTCG
 2 Orf_virus_D1701                              98.3%  88.3%      --------CACCGCTCGGCGGACCGACACCACTCGGCGGACAGGGACCAACACCGTCGCGGTCGCAAAAACTACGACTCG
 3 Orf_virus_NA1-11                             97.9%  87.5%      --------CACCACTCGGCGGACCGACACCAATCGGCGGACAGGGAAAGACACCGTCGCAGTCGCAAGAACTACGACTCG
 4 Orf_virus_OV-HN3_12                          98.1%  87.2%      --------CACCACTCGGCGGACCGACACCAATCGGCGGACAGGGAAAGACACCGTCGCAGTCGCAAGAACTACGACTCG
 5 Orf_virus_OV-IA82                            98.6%  88.5%      --------CACCACTCGGCGGACCGACACCAATCGGCGGACAGGGACAGACACCGTCGCAGTCGCAAGAACTACGACTCG
 6 Orf_virus_NZ2                                98.5%  88.2%      CGGACCGACACCACTCGGCGGACCGACACCAATCGGCGGACAGGGACAGACACCGTCGCAGTCGCAAGAACTACGACTCG
 7 Orf_virus_YX                                 98.1%  95.5%      --------CACCGCTCGGCGGACCGACACCAATCGGCGGACAGGGACCGACACCGCCGCGGTCGCAAGAACTACGACTCG
 8 Orf_virus_GO                                 98.8%  96.4%      --------CACCGCTCGGCGGACCGACACCAATCGGCGGACAGGGACCGACACCGCCGCGGTCGCAAGAACTACGACTCG
 9 Orf_virus_B029                               91.8%  81.7%      --------CACCACTCGGCGGACCGACACCAATCGGCGGACAGGGACAGACACCGTCGCAGTCGCAAGAACTACGACTCG
10 Orf_virus_IHUMI-1                            78.5%  70.9%      --------CACCACTCGGCGGACCGACACCACTCGGCGGACAGGGACAGACACCGTCGCAGTCGCAAGAACTACGACTCG
11 Orf_virus_SJ1                                77.2%  74.2%      --------CACCGCTCGGCGGACCGACACCAATCGGCGGACAGGGACCGACACCGCCGCGGTCGCAAGAACTACGACTCG
12 Orf_virus_NP                                 24.1%  23.5%      --------CACCGCTCGGCGGACCGACACCAATCAGCGGACAGAGACCGACACCGTCGCGGTCGCAAGAACTACGACTCG
   consensus/100%                                                  ........CACCuCTCGGCGGACCGACACCAsTCuGCGGACAGuGAssuACACCGsCGCuGTCGCAAuAACTACGACTCG
   consensus/90%                                                   ........CACCuCTCGGCGGACCGACACCAsTCGGCGGACAGGGAssGACACCGsCGCuGTCGCAAGAACTACGACTCG
   consensus/80%                                                   ........CACCuCTCGGCGGACCGACACCAATCGGCGGACAGGGACsGACACCGsCGCuGTCGCAAGAACTACGACTCG
   consensus/70%                                                   ........CACCuCTCGGCGGACCGACACCAATCGGCGGACAGGGACsGACACCGsCGCuGTCGCAAGAACTACGACTCG

                                                  cov    pid 6721          .         .         :         .         .         .         .         8 6800
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CACCCGTCGCGCAAGAACCGCGACTACGAGCGGGCAGACTACCAGGGATACCCCTCACAAACCCACCCAGACGCCCCCGC
 2 Orf_virus_D1701                              98.3%  88.3%      CACCCGTCGCGCAAGAACCGCAACCACGAGCGGGCAGACTACCAAAGACACCCCTCTCAAACCCACCCAGACGCCCCCGC
 3 Orf_virus_NA1-11                             97.9%  87.5%      CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGAAGACTACCAGAGACACCCCTCACAAACCCACCCA---GCCCCCGC
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 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGAAGACTACCAGAGACACCCCTCACAAACCCACCCA---GCCCCCGC
 5 Orf_virus_OV-IA82                               98.6%  88.5%      CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGCGGACTACCAGAGACATCCCTCACAGACCCACCCAGAAGCCCCCGC
 6 Orf_virus_NZ2                                   98.5%  88.2%      CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGCGGACTACCAGAGACACCCCTCACAAACCCACCCAGACGCCCCCGC
 7 Orf_virus_YX                                    98.1%  95.5%      CACCCGTCGCGCAAGAACCGCAACTACGAGCGGGCAGACTACCAGGGACACCCCTCACAAACCCACCCAGACGCCCCCGC
 8 Orf_virus_GO                                    98.8%  96.4%      CACCCGTCGCGCAAGAACCGCAACTACGAGCGGGCAGACTACCAGGGACACCCCTCACAAACCCACCCAGACGCCCCCGC
 9 Orf_virus_B029                                  91.8%  81.7%      CACTCGACGCGCAGGAACCGCAACTACGAGCGGGCGGACTACCAGAAACATCCCTCACAGACCCACCCAGAAGCCCCCGC
10 Orf_virus_IHUMI-1                               78.5%  70.9%      CACC---CGCGCAGGAACCGCAACTACGAGCGGGTAGACTACCAGAGACATCCCTCACAGACCCGCCCAGAAGCCCCCGC
11 Orf_virus_SJ1                                   77.2%  74.2%      CACCCGTCGCGCAAGAACCGCGACTACGAGCGGGCAGACTACCAGGGATACCCCTCACAAACCCACCCAGACGCCCCCGC
12 Orf_virus_NP                                    24.1%  23.5%      CACCCGTCGCGCAAGAACCGCAACTACGAGCGGGCAGACTACCAGGGACACCCCTCACAAAACCACCCAGACGCCCCCGC
   consensus/100%                                                    CACs...CGCGCAuGAACCGCuACsACGAGCGGGsuGACTACCAuuuAsAsCCCTCsCAuAsCCuCCCA...GCCCCCGC
   consensus/90%                                                     CACCCGsCGCGCAuGAACCGCuACTACGAGCGGGsuGACTACCAGuGAsAsCCCTCACAuACCCACCCA...GCCCCCGC
   consensus/80%                                                     CACCCGTCGCGCAuGAACCGCAACTACGAGCGGGsuGACTACCAGuGACAsCCCTCACAuACCCACCCAGAsGCCCCCGC
   consensus/70%                                                     CACCCGTCGCGCAuGAACCGCAACTACGAGCGGGCAGACTACCAGuGACACCCCTCACAAACCCACCCAGAsGCCCCCGC

                                                    cov    pid 6801          .         .         .         .         :         .         .         . 6880
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCTGACC
 2 Orf_virus_D1701                                 98.3%  88.3%      GCAGACCTCGACGCTCAAAGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCAAACATCACTACGAGACCCCCGACC
 3 Orf_virus_NA1-11                                97.9%  87.5%      GCAGAGTTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      GCAGACTTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
 5 Orf_virus_OV-IA82                               98.6%  88.5%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
 6 Orf_virus_NZ2                                   98.5%  88.2%      GCAGACCTCGACGCTCAAGGTGACCTCCCTAAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
 7 Orf_virus_YX                                    98.1%  95.5%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACACCACTACGAGACCCCCGACC
 8 Orf_virus_GO                                    98.8%  96.4%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACACCACTACGAGACCCCCGACC
 9 Orf_virus_B029                                  91.8%  81.7%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
10 Orf_virus_IHUMI-1                               78.5%  70.9%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
11 Orf_virus_SJ1                                   77.2%  74.2%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
12 Orf_virus_NP                                    24.1%  23.5%      GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACTAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
   consensus/100%                                                    GCAGAssTCGACGCTCAAuGTGACCTCCCTsAGCACsAGCTGCAGCACCCTGTCCsAACAsCACTACGAGACCCCsGACC
   consensus/90%                                                     GCAGACsTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACAsCACTACGAGACCCCCGACC
   consensus/80%                                                     GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC
   consensus/70%                                                     GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGCTGCAGCACCCTGTCCCAACATCACTACGAGACCCCCGACC

                                                    cov    pid 6881          .         9         .         .         .         .         :         . 6960
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      ACGTCTACGACGTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCCTTGCGCGGACCTTGCGCTCCCCCCGCTCGCCATG
 2 Orf_virus_D1701                                 98.3%  88.3%      ACATCTACGACGTCCCGGAAGACAGTCGCGGGGCGTCGGCTCCCCCTCGCGCGGACCTCGCGCTCCCCCCGCTCGCCATG
 3 Orf_virus_NA1-11                                97.9%  87.5%      ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGGCTCCCCTTCGCGCGGACCTCGCGCTTCCCCCGCTCGCCATG
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGGCTCCCCTTCGCGCGGACCTCGCGCTTCCCCCGCTCGCCATG
 5 Orf_virus_OV-IA82                               98.6%  88.5%      ACATCTACGACATCCCGGAAGACGGTCGCGGGGCGTCGGCTCCCCCTCGCGCGGACCTCGCGCTCCCCCCGCTCGCCATG
 6 Orf_virus_NZ2                                   98.5%  88.2%      ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGGCTCCCCCTCGCGCGGACCTCGCGCTCCCCCCGCTCGCCATG
 7 Orf_virus_YX                                    98.1%  95.5%      ACGTCTACGACGTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCCTTGCGCGGACCTTGCGCTCCCCCCGCTCGCCATG
 8 Orf_virus_GO                                    98.8%  96.4%      ACATCTACGACGTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCCTTGCGCGGACCTTGCGCTCCCCCCGCTCGCCATG
 9 Orf_virus_B029                                  91.8%  81.7%      ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTTGGCTCCCCCTCGCGCGGACCTCGCGCTCCCCCCGCTCGCCATG
10 Orf_virus_IHUMI-1                               78.5%  70.9%      ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGGCTCCCCCTCGCGCGGACCTCGCGCTCCCCCCGCTCGCCATG
11 Orf_virus_SJ1                                   77.2%  74.2%      CCGTCTACGACGTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCCTTGCGCGGACCTTGCGCTCCCCCCGCTCGCCATG
12 Orf_virus_NP                                    24.1%  23.5%      ACGTCTACGACGTCCCGGAAGACAGTCGCGGGGCGTCGCCCCCCCCTTGCGCGGACCTTGCGCTCCCCCCGCTCGCCATG
   consensus/100%                                                    sCuTCTACGACuTCCCGGAAGACuGTCGCGGGGCGTsGsssCCCCsTsGCGCGGACCTsGCGCTsCCCCCGCTCGCCATG
   consensus/90%                                                     ACuTCTACGACuTCCCGGAAGACAGTCGCGGGGCGTCGsssCCCCsTsGCGCGGACCTsGCGCTsCCCCCGCTCGCCATG
   consensus/80%                                                     ACuTCTACGACuTCCCGGAAGACAGTCGCGGGGCGTCGsssCCCCCTsGCGCGGACCTsGCGCTCCCCCCGCTCGCCATG
   consensus/70%                                                     ACuTCTACGACuTCCCGGAAGACAGTCGCGGGGCGTCGsssCCCCCTsGCGCGGACCTsGCGCTCCCCCCGCTCGCCATG

                                                    cov    pid 6961          .         .         .         0         .         .         .         . 7040
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CCCAACTCCAAGCCCTCGCGCCGCATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGTGGCGCCAGCAAACC
 2 Orf_virus_D1701                                 98.3%  88.3%      CCCAACTCCAAGCCCTCGCGCCGCGTGCGCCCGGCGTCCATGAACGACTGCCCGATAAAGCACTGCGGCGCCAGCAGACC
 3 Orf_virus_NA1-11                                97.9%  87.5%      CCAAAATCCAAGCACCCGCGCCGCATGCGCCCGGCTTCCATGAACGACTGCCTGATGACGCACCGCGGCGCCGGCAAACC
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      CCAAAATCCAAGCACCCGCGCCGCATGCGCCCGGCTTCCATGAACGACTGCCTGATGACGCACCGCGGCGCCGGCAAACC
 5 Orf_virus_OV-IA82                               98.6%  88.5%      CCCAAATCCAAG---CCGCGCCGCACGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGCGCCGGCAGACC
 6 Orf_virus_NZ2                                   98.5%  88.2%      CCCAAATCCAAG---CCGCGTCGCACGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGCGCCGGCAGACC
 7 Orf_virus_YX                                    98.1%  95.5%      CCCAACTCCAAGCCCTCGCGCCGCATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGCGGCGCCAGCAAACC
 8 Orf_virus_GO                                    98.8%  96.4%      CCCAACTCCAAGCCCTCGCGCCGCATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGCGGCGCCAGCAAACC
 9 Orf_virus_B029                                  91.8%  81.7%      CCCAAATCCAAG---CCGCGCCGCATGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGCGCCGGCAGACC
10 Orf_virus_IHUMI-1                               78.5%  70.9%      CCCAAATCCAAG---CCGCGCCGCACGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGCGCCGGCAGACC
11 Orf_virus_SJ1                                   77.2%  74.2%      CCCAACTCTAAGCCCTCGCGCCGCATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGTGGTGCCAGCAAACC
12 Orf_virus_NP                                    24.1%  23.5%      CCCAACTCCAAGCCCTCGCGCCGCATGCGCCCAGCGTCCATGAGCGACTTCCCAATGAAGCACTGCGGCGCCAGCAAACC
   consensus/100%                                                    CCsAAsTCsAAG...sCGCGsCGCusGCGCCCuGCsTCCATGAuCGACTsCCsuATuAsGCACsGsGGsGCCuGCAuACC
   consensus/90%                                                     CCsAAsTCCAAG...sCGCGCCGCAsGCGCCCGGCsTCCATGAuCGACTsCCsuATGAsGCACsGsGGCGCCuGCAuACC
   consensus/80%                                                     CCCAAsTCCAAG...sCGCGCCGCAsGCGCCCGGCGTCCATGAuCGACTsCCsuATGAAGCACTGCGGCGCCuGCAuACC
   consensus/70%                                                     CCCAAsTCCAAG...sCGCGCCGCATGCGCCCGGCGTCCATGAuCGACTsCCsuATGAAGCACTGCGGCGCCuGCAuACC

                                                    cov    pid 7041          :         .         .         .         .         1         .         . 7120
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CAACCTCCAAGACGACATATGCACACTATGCACTGATATAGAGACACAACTGAGTGCACTAGAGAAGTCTCTGGAGTCAG
 2 Orf_virus_D1701                                 98.3%  88.3%      CAACCTCCAAAGCGACATATGCACACTGTGCACTGATATAGAGACACAGCTGAGTGCACTAGAGAAGTCTCTGGAGTCAG
 3 Orf_virus_NA1-11                                97.9%  87.5%      CAACCTCCAAGACGATATATGCACACTATGCACTGATATAGAGACACAGCTGAGCGCACTAGAGAAGTCTCTGGAGTCAG
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      CAACCTCCAAGACGATATATGCACACTATGCACTGATATAGAGACACAGCTGAGCGCACTAGAGAAGTCTCTGGAGTCAG
 5 Orf_virus_OV-IA82                               98.6%  88.5%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGCGCACTAGAGAAGTCTCTGGAGTCAG
 6 Orf_virus_NZ2                                   98.5%  88.2%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGCGCACTAGAGAAGTCTCTGGAGTCAG
 7 Orf_virus_YX                                    98.1%  95.5%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCACTAGAGAAGTCTCTGGAGTCAG
 8 Orf_virus_GO                                    98.8%  96.4%      CAACCTCCAAGACGACATATGCACACTATGCACTGATATAGAGACACAGCTGAGTGCACTAGAGAAGTCTCTGGAGTCAG
 9 Orf_virus_B029                                  91.8%  81.7%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGCGCACTAGAGAAGTCTCTGGAGTCAG
10 Orf_virus_IHUMI-1                               78.5%  70.9%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGCGCACTAGAGAAGTCTCTGGAGTCAG
11 Orf_virus_SJ1                                   77.2%  74.2%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCACTAGAGAAGTCTCTGGAGTCAG
12 Orf_virus_NP                                    24.1%  23.5%      CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCACTAGAGAAGTCTCTGGAGTCAG
   consensus/100%                                                    CAACCTCCAAuuCGAsATATGCACACTuTGsACTGATATAGAGACACAuCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG
   consensus/90%                                                     CAACCTCCAAGACGAsATATGCACACTATGsACTGATATAGAGACACAGCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG
   consensus/80%                                                     CAACCTCCAAGACGACATATGCACACTATGsACTGATATAGAGACACAGCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG
   consensus/70%                                                     CAACCTCCAAGACGACATATGCACACTATGsACTGATATAGAGACACAGCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG

                                                    cov    pid 7121          .         .         :         .         .         .         .         2 7200
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 2 Orf_virus_D1701                                 98.3%  88.3%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTACTCGCCACGCGAGCAGCAAACATCGGCAACAAAGCT
 3 Orf_virus_NA1-11                                97.9%  87.5%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 5 Orf_virus_OV-IA82                               98.6%  88.5%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACCTTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 6 Orf_virus_NZ2                                   98.5%  88.2%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 7 Orf_virus_YX                                    98.1%  95.5%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 8 Orf_virus_GO                                    98.8%  96.4%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
 9 Orf_virus_B029                                  91.8%  81.7%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
10 Orf_virus_IHUMI-1                               78.5%  70.9%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
11 Orf_virus_SJ1                                   77.2%  74.2%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATTGGCAGCAAAGCT
12 Orf_virus_NP                                    24.1%  23.5%      AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
   consensus/100%                                                    AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACssTuCTCGCCACGCGAGCAGCAAACATsGGCAuCAAAGCT
   consensus/90%                                                     AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
   consensus/80%                                                     AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
   consensus/70%                                                     AGCTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT

                                                    cov    pid 7201          .         .         .         .         :         .         .         . 7280
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      CTGATCTACACCAACGACTACAACAACAGTGGCAACGTCGGCGAAGAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
 2 Orf_virus_D1701                                 98.3%  88.3%      CTGATCTACACCAACGACTACAACGACAGTGGCAACGTCTGTGAAAAGGAGCACTGCTCGGAGGAGTGCTGCAGAGTGGA
 3 Orf_virus_NA1-11                                97.9%  87.5%      CTGATCTACACCGACGACTACAACGACAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
 4 Orf_virus_OV-HN3_12                             98.1%  87.2%      CTGATCTACACCGACGACTACAACGACAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
 5 Orf_virus_OV-IA82                               98.6%  88.5%      CTGATCTACACCGACGACTACAACGGCAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
 6 Orf_virus_NZ2                                   98.5%  88.2%      CTGATCTACACCGACGACTACAACGGCAGTGGCGACGTCGGCGAAAAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
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 7 Orf_virus_YX                                  98.1%  95.5%      CTGATCTACACCAACGACTACAACAACAGTGGCAACGTCGGCGAAGAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
 8 Orf_virus_GO                                  98.8%  96.4%      CTGATCTACACCAACGACTACAACAACAGTGGCAACGTCGGCGAAGAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
 9 Orf_virus_B029                                91.8%  81.7%      CTGATCTACACCGACGACTACAACGGCAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCAGAGGAGTGCTGCAAAGTGGA
10 Orf_virus_IHUMI-1                             78.5%  70.9%      CTGATCTACACCGACGACTACAACGGCAGTGGCGACGTCGGCGAAAAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
11 Orf_virus_SJ1                                 77.2%  74.2%      CTGATCTACACCAACGACTACAACAACAGTGGCAACGTCGGCGAAGAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
12 Orf_virus_NP                                  24.1%  23.5%      CTGATCTACACCAACGACTACAACAACAGTGGCAACGTCGGCGAAGAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
   consensus/100%                                                  CTGATCTACACCuACGACTACAACuuCAGTGGCuACGTCsGsGAAuuGGAGCACTGCTCuGAGGAGTGCTGCAuAGTGGA
   consensus/90%                                                   CTGATCTACACCuACGACTACAACuuCAGTGGCuACGTCGGCGAAuuGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
   consensus/80%                                                   CTGATCTACACCuACGACTACAACuuCAGTGGCAACGTCGGCGAAuuGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA
   consensus/70%                                                   CTGATCTACACCuACGACTACAACuuCAGTGGCAACGTCGGCGAAGuGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGGA

                                                     cov    pid 7281          .         3         .         .         .         .         :] 7351
 1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0%      GGAAGTTCTGTGAGAAAGCGTGTTTTTCTGTAATGTGAAATAAGAA--GCCTTATGTGTGCACAGACATGG
 2 Orf_virus_D1701                               98.3%  88.3%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATAGGCCTTATGTGTGCACAAACATGG
 3 Orf_virus_NA1-11                              97.9%  87.5%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATA-GCCTTATGTGTGCACAGACATGG
 4 Orf_virus_OV-HN3_12                           98.1%  87.2%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATA-GCCTTATGTGTGCACAGACATGG
 5 Orf_virus_OV-IA82                             98.6%  88.5%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATA-GCCTTATGTGTGCACAGACATGG
 6 Orf_virus_NZ2                                 98.5%  88.2%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATA-GCCTTATGTGTGCACAGACATGG
 7 Orf_virus_YX                                  98.1%  95.5%      GGAAGTTCTGTGAGAAAGCGCGTTTTTCTGTAATGTGAAATAAGAA--GCCTTATGTGTGCACAGACATGG
 8 Orf_virus_GO                                  98.8%  96.4%      GGAAGTTCTGTGAGAAAGCGCGTTTTTCTGTAATGTGAAATAAGAA--GCCTTATGTGTGCACAGACATGG
 9 Orf_virus_B029                                91.8%  81.7%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATA-GCCTTATGTGTGCACAGACATGG
10 Orf_virus_IHUMI-1                             78.5%  70.9%      GGAAGTTCTGTGAGAAAGTGCGTTTTTCTGTAATGTGAAATAAGATA-GCCTTATGTGTGCACAGACATGG
11 Orf_virus_SJ1                                 77.2%  74.2%      GGAAGTTCTGTGAGAAAGCGCGTTTTTCTGTAATGTGAAATAAGAA--GCCTTATGTGTGAACAGACATGG
12 Orf_virus_NP                                  24.1%  23.5%      GGAAGTTCTGTGAGAAAGCGCGTTTTTCTGTAATGTGAAATAAGAA--GCCTTATGTGTGCACAGACATGG
   consensus/100%                                                  GGAAGTTCTGTGAGAAAGsGsGTTTTTCTGTAATGTGAAATAAGAs..GCCTTATGTGTGsACAuACATGG
   consensus/90%                                                   GGAAGTTCTGTGAGAAAGsGCGTTTTTCTGTAATGTGAAATAAGAs..GCCTTATGTGTGCACAGACATGG
   consensus/80%                                                   GGAAGTTCTGTGAGAAAGsGCGTTTTTCTGTAATGTGAAATAAGAs..GCCTTATGTGTGCACAGACATGG
   consensus/70%                                                   GGAAGTTCTGTGAGAAAGsGCGTTTTTCTGTAATGTGAAATAAGAs..GCCTTATGTGTGCACAGACATGG
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