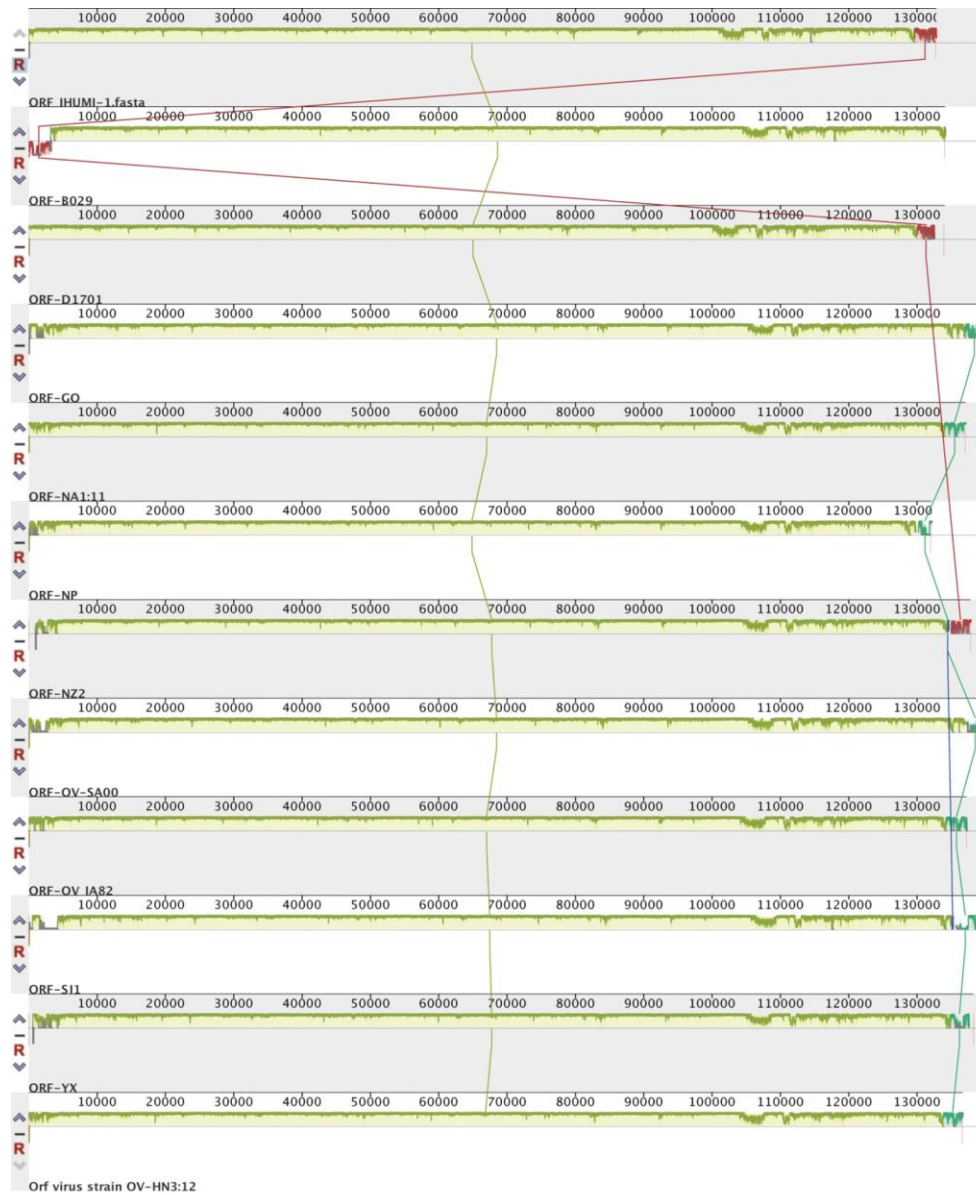
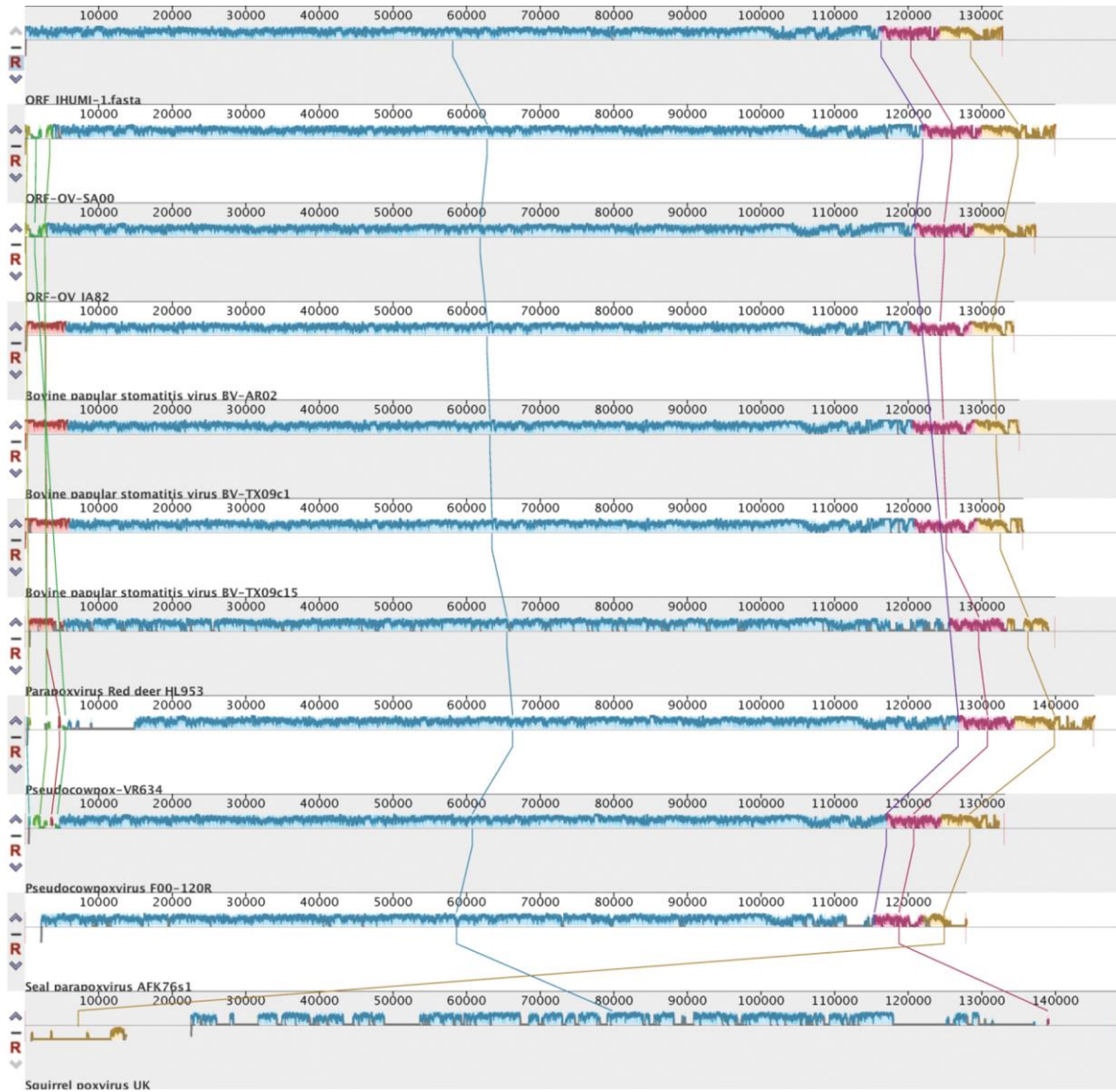


Human Infection with Orf Virus and Description of Its Whole Genome, France, 2017

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.

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

	cov	pid	1 [:	80
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
2 Orf_virus_D1701	98.3%	88.3%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
3 Orf_virus_NA1-11	97.9%	87.5%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
4 Orf_virus_OV-HN3_12	98.1%	87.2%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
5 Orf_virus_OV-IA82	98.6%	88.5%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
6 Orf_virus_NZ2	98.5%	88.2%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
7 Orf_virus_YX	98.1%	95.5%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
8 Orf_virus_GO	98.8%	96.4%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
9 Orf_virus_B029	91.8%	81.7%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
10 Orf_virus_IHUMI-1	78.5%	70.9%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
11 Orf_virus_SJ1	77.2%	74.2%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
12 Orf_virus_NP	24.1%	23.5%	TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
consensus/100%			TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
consensus/90%			TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
consensus/80%			TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
consensus/70%			TACGACGAGTAGCCGCCAAAAC	TGATAACTATCGGACTTCG	TAACTCGCAGACATGCCGCTGTTCCGGAAGCTCATGG
			81	:	160
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%	TCTCCCGCGCCCTCGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
2 Orf_virus_D1701	98.3%	88.3%	TCTCTCGCGCCCTCGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
3 Orf_virus_NA1-11	97.9%	87.5%	TTTCGCGCTCCTTGGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
4 Orf_virus_OV-HN3_12	98.1%	87.2%	TTTCGCGCTCCTTGGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
5 Orf_virus_OV-IA82	98.6%	88.5%	TTTCGCGCTCCTTGGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
6 Orf_virus_NZ2	98.5%	88.2%	TTTCGCGCTCCTTGGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
7 Orf_virus_YX	98.1%	95.5%	TCTCCCGCGCCCTCGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
8 Orf_virus_GO	98.8%	96.4%	TCTCCCGCGCCCTCGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
9 Orf_virus_B029	91.8%	81.7%	TTTCGCGCTCCTTGGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
10 Orf_virus_IHUMI-1	78.5%	70.9%	TTTCGCGCTCCTTGGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
11 Orf_virus_SJ1	77.2%	74.2%	TCTCCCGCGCCCTCGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
12 Orf_virus_NP	24.1%	23.5%	TCTCCCGCGCCCTCGTCAAGGAATGTTT	TGACTCTGGACTTCCGGCAGGGCGAGCGTCT	CCCCACCCGATGCTTCTCCCG
consensus/100%			TsTcSsCGCsCCCTsGTsAAuGAATGTsTGACTCTGGACTTCCGGCAGGGCGAGCGTCTsCCsACsCGATGCTTCTCCCu		
consensus/90%			TsTcSsCGCsCCCTsGTsAAuGAATGTsTGACTCTGGACTTCCGGCAGGGCGAGCGTCTsCCsACsCGATGCTTCTCCCu		
consensus/80%			TsTcSsCGCsCCCTsGTsAAuGAATGTsTGACTCTGGACTTCCGGCAGGGCGAGCGTCTsCCsACsCGATGCTTCTCCCu		
consensus/70%			TsTcSsCGCsCCCTsGTsAAuGAATGTsTGACTCTGGACTTCCGGCAGGGCGAGCGTCTsCCsACsCGATGCTTCTCCCu		
			161	:	240
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
2 Orf_virus_D1701	98.3%	88.3%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
3 Orf_virus_NA1-11	97.9%	87.5%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
4 Orf_virus_OV-HN3_12	98.1%	87.2%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
5 Orf_virus_OV-IA82	98.6%	88.5%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
6 Orf_virus_NZ2	98.5%	88.2%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
7 Orf_virus_YX	98.1%	95.5%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
8 Orf_virus_GO	98.8%	96.4%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
9 Orf_virus_B029	91.8%	81.7%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
10 Orf_virus_IHUMI-1	78.5%	70.9%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
11 Orf_virus_SJ1	77.2%	74.2%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
12 Orf_virus_NP	24.1%	23.5%	GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGAACGAAGTCTCCAGGCACGTCAGGAGCC		
consensus/100%			GTGCCCGCsGGGACuAcSsTTCACAGAGTCTGCGACACsTCGCCGCTGACuAcGAAGTCTCCsGGCAGCTGCAGGAGCC		
consensus/90%			GTGCCCGCsGGGACGACATTCCACAGAGTCTGCGACACsTCGCCGCTGACuAcGAAGTCTCCsGGCAGCTGCAGGAGCC		
consensus/80%			GTGCCCGCuGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGACuAcGAAGTCTCCsGGCAGCTGCAGGAGCC		
consensus/70%			GTGCCCGCGGGGACGACATTCCACAGAGTCTGCGACACCTCGCCGCTGACGACuAcGAAGTCTCCCGGCACGTCAGGAGCC		
			241	:	320
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
2 Orf_virus_D1701	98.3%	88.3%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
3 Orf_virus_NA1-11	97.9%	87.5%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
4 Orf_virus_OV-HN3_12	98.1%	87.2%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
5 Orf_virus_OV-IA82	98.6%	88.5%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
6 Orf_virus_NZ2	98.5%	88.2%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
7 Orf_virus_YX	98.1%	95.5%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
8 Orf_virus_GO	98.8%	96.4%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
9 Orf_virus_B029	91.8%	81.7%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
10 Orf_virus_IHUMI-1	78.5%	70.9%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
11 Orf_virus_SJ1	77.2%	74.2%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
12 Orf_virus_NP	24.1%	23.5%	CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAGCCGC		
consensus/100%			CGTCuSsGCACCGGAsGuGTCCAGTACTACTACTTTCGAGAGCGGScAGGGCATGATCGGGCACAACCGGGsA.....		
consensus/90%			CGTCATGuGCACCGGACGuGTCCAGTACTACTACTTTCGAGAGCGGScAGGGCATGATCGGGCACAACCGGGCAsGsCGC		
consensus/80%			CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAsGsCGC		
consensus/70%			CGTCATGGGCACCGGACGGGTCCAGTACTACTACTTTCGAGAGCGGCCAGGGCATGATCGGGCACAACCGGGCAsGsCGC		
			321	:	400

4 Orf_virus_OV-HN3_12 98.1% 87.2% TGCGCCGCGCCTGGCGATCGACCCGCGTACGAGCCGCTGGCGCACCCGACCCGCTGCGTGTACGGCGCCATGGACGTC
5 Orf_virus_OV-IA82 98.6% 88.5% TGCGCCGCGCCTGGCGATCGACCCGCGTACGAGGCCGCTGGCGCACCCGCGCCGCTGCGTGTACGGCGCCATGGACGTC
6 Orf_virus_NZ2 98.5% 88.2% TGCGCCGCGCCTGGCGATCGACCCGCGTACGAGGCCGCTGGCGCACCCGACCCGCTGCGTGTACGGCGCCATGGACGTC
7 Orf_virus_YX 98.1% 95.5% TGCGCCGCGCCTGGCGATCAACCCGCGTACGAGGCCGCTGGCGCACCCGCGCCGCTGCGTGTACGGCGCCATGGACGTC
8 Orf_virus_GO 98.8% 96.4% TGCGCCGCGCCTGGCGATCGACCCGCGTACGAGGCCGCTGGCGCACCCGCGCCGCTGCGTGTACGGCGCCATGGACGTC
9 Orf_virus_B029 91.8% 81.7% TGCGCCGCGCCTGGCGATCGACCCGCGTACGAGGCCGCTGGCGTACCCGACCCGCTGCGTGTACGGCGCCATGGACGTC
10 Orf_virus_IHUMI-1 78.5% 70.9% TGCGCCGCGCCTGGCGATCGACCCGCGTACGAGGCCGCTGGCGCACCCGACCCGCTGCGTGTACGGCGCCATGGACGTC
11 Orf_virus_SJ1 77.2% 74.2% TGCGCCGCGCCTGGCGATCAACCCGCGTACGAGGCCGCTGGCGCACCCGCGCCGCTGCGTGTACGGCGTTATGGACGTC
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100% TGCGCCGCGCuCTGGCGATCuACCCGCGTACGAGGCCGCTGGCGCACCCGCGCuCCGCTGCGTGTACGGCGsATGGACGTC
consensus/90% TGCGCCGCGCuCTGGCGATCuACCCGCGTACGAGGCCGCTGGCGCACCCGCGCuCCGCTGCGTGTACGGCGCsATGGACGTC
consensus/80% TGCGCCGCGCuCTGGCGATCuACCCGCGTACGAGGCCGCTGGCGCACCCGCGCuCCGCTGCGTGTACGGCGCCATGGACGTC
consensus/70% TGCGCCGCGCuCTGGCGATCuACCCGCGTACGAGGCCGCTGGCGCACCCGCGCuCCGCTGCGTGTACGGCGCCATGGACGTC

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 881 . 9 960 CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGGAGCACGTCTCGCCGGGCCC--GG
2 Orf_virus_D1701 98.3% 88.3% CGGTGCGCGAACGAGTACCTTGTGTACTGCACCTTCAAAACGGAGCCGGCGGGCGCAACACGTCTCGCCGGGCCC--TAG
3 Orf_virus_NA1-11 97.9% 87.5% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
4 Orf_virus_OV-HN3_12 98.1% 87.2% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
5 Orf_virus_OV-IA82 98.6% 88.5% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
6 Orf_virus_NZ2 98.5% 88.2% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
7 Orf_virus_YX 98.1% 95.5% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGTACGTCTCGCCGGGTCC--GG
8 Orf_virus_GO 98.8% 96.4% CGGTGCGCGAACGAGTACCTCGTGTACTGTACTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
9 Orf_virus_B029 91.8% 81.7% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
10 Orf_virus_IHUMI-1 78.5% 70.9% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
11 Orf_virus_SJ1 77.2% 74.2% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC--GG
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100% CGGTGCGCGAACGAGTACCTsGTGTACTGsACCTTCAAAuACGGAGCCGuCuCGGCGsAusACGTCTCGCCGGGsCC .uG
consensus/90% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGuCuCGGCGCAGCACGTCTCGCCGGGCCC .GG
consensus/80% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC .GG
consensus/70% CGGTGCGCGAACGAGTACCTCGTGTACTGCACCTTCAAGACGGAGCCGGCGGGCGCAGCACGTCTCGCCGGGCCC .GG

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 961 . 0 1040 ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCAGCCCGCGGGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
2 Orf_virus_D1701 98.3% 88.3% ACGCCCCCTGTGCGCCGCGACTCCGTCAACCTCGCGGGCCGCGCGCCCGCGCGCCCGGACGACGCCGAGGAAGTGACC
3 Orf_virus_NA1-11 97.9% 87.5% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCGGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCGGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
5 Orf_virus_OV-IA82 98.6% 88.5% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCGGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
6 Orf_virus_NZ2 98.5% 88.2% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCGGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
7 Orf_virus_YX 98.1% 95.5% ACGGCCCCCTGTGCGCCGCGACT---TTGATCTCGCAGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
8 Orf_virus_GO 98.8% 96.4% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCAGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACA
9 Orf_virus_B029 91.8% 81.7% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCAGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
10 Orf_virus_IHUMI-1 78.5% 70.9% ACGGCCCCCTGTGCGCCGCGACTCCGTCAACCTCGCAGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
11 Orf_virus_SJ1 77.2% 74.2% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCAGGCCGCGCGCGCCCGGACGACGCCGAGGAAGTGACC
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100% ACUsCCCssTGTGCGCCGCGACT . . TsuusTCGCGuGsCCGsGGCsGCGCGCuCsCCsACuACGCCsCAGGAAGTGuCs
consensus/90% ACuGCCCssTGTGCGCCGCGACTCCGTGuACsTCGCGuGGCCGsGGCCGCGCGCCCGGACGACGCCGAGGAAGTGuCC
consensus/80% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCGuGGCCGCGCGCGCGCCCGGACGACGCCGAGGAAGTGuCC
consensus/70% ACGGCCCCCTGTGCGCCGCGACTCCGTGCGCCTCGCGuGGCCGCGCGCGCGCCCGGACGACGCCGAGGAAGTGuCC

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 1041 . 1 1120 TCGCCGACCAGGAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACTGACT-TGACC--AAGGA-CCCACCGTCCACT
2 Orf_virus_D1701 98.3% 88.3% TCGC---CCACGAGGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACTGACCCTAACCCTGAAGGACCCACCGCCACT
3 Orf_virus_NA1-11 97.9% 87.5% TCGCCGACAACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCAC-CTCACT
4 Orf_virus_OV-HN3_12 98.1% 87.2% TCGCCGACAACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCAC-CTCACT
5 Orf_virus_OV-IA82 98.6% 88.5% TCGCCGACCACGAGGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCACCGTCCACT
6 Orf_virus_NZ2 98.5% 88.2% TCGCCGACCACGAGGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCACCGTCCACT
7 Orf_virus_YX 98.1% 95.5% TCGCCGACCACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACTGACT-TGACCCAAGGAC-CCCACCGTCCACT
8 Orf_virus_GO 98.8% 96.4% TCGCCGACCACGAAGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGAC-----TGACCCAAGGA-CCCACCTCCACT
9 Orf_virus_B029 91.8% 81.7% TCGCCGACCACGAGGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACGGACTCTGACCCGAAGGA-CCCACCTCCACT
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% TCGC . . CsACGAuGCTCsTuGAGACCTGsCTGCGCGACGCCCTCGAC TuACC . . AuGus . CCCsC . ssCACT
consensus/90% TCGCCuACsACGAuGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGAC TGACCsuAuGGA . CCCsC . ssCACT
consensus/80% TCGCCGACCACGAuGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACsGACs . TGACCuAAGGA . CCCsC . ssCACT
consensus/70% TCGCCGACCACGAuGCTCGTGGAGACCTGTCTGCGCGACGCCCTCGACsGACs . TGACCuAAGGA . CCCsC . ssCACT

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 1121 . 2 1200 CACATTCACCTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCAGATAATTGAATTGTTATAGGACAAACAG
2 Orf_virus_D1701 98.3% 88.3% CACATTCACCGCCAGACAACAGAGCAAGCTTTTTTCTGCATCTACCTCGTGAATAATTGAATTGTTATAGTACAAACAG
3 Orf_virus_NA1-11 97.9% 87.5% CACGACCACCTCCAGACGACAGACTCAGGCTTTTTCTGCATCTACCTCAGTATAATTGAATTGTTATAGGACAAACAG
4 Orf_virus_OV-HN3_12 98.1% 87.2% CACGACCACCTCCAGACGACAGACTCAGGCTTTTTCTGCATCTACCTCGTGAATAATTGAATTGTTATAGGACAAACAG
5 Orf_virus_OV-IA82 98.6% 88.5% CACATTCACCTGCCAGAC---AACTCAAGCTTTTTCTGCATCTACCTCGTAAATAATTGAATTGTTATAGTACAAACAG
6 Orf_virus_NZ2 98.5% 88.2% CACATTCACCTGCCAGAC---AACTCAAGCTTTTTCTGCATCTACCTCGTAAATAATTGAATTGTTATAGGACAAACAG
7 Orf_virus_YX 98.1% 95.5% CACGTTCCACTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCAGATAATTGAATTGTTATAGGACAAACAG
8 Orf_virus_GO 98.8% 96.4% CACATTCACCTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCAGTATAATTGAATTGTTATAGGACAAACAG
9 Orf_virus_B029 91.8% 81.7% CACGACCACCTGCCAGACAACAGACTCAGGCTTTTTCTGCATCTACCTCGTGAATAATTGAATTGTTATAGGACAAACAG
10 Orf_virus_IHUMI-1 78.5% 70.9% CACATTCACCTGCCAGAC---AACGCAAGCTTTTTCTGCATCTACCTCGTAAATAATTGAATTGTTATAGTACAAACAG
11 Orf_virus_SJ1 77.2% 74.2% CACGTTCCACTGCCAGACAACAGACTCAAGCTTTTTCTGCATCTACCTCACCAGATAATTGAATTGTTATAGGACAAACAG
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100% CACUsCCACsCCAGAC uACsCAuGCTTTTTsTGCATCTACCTCuCsAuATAATTGAATTGTTATAGsACAAACAG
consensus/90% CACUsCCACTsCCAGAC uACsCAuGCTTTTTsTGCATCTACCTCuCsAuATAATTGAATTGTTATAGsACAAACAG
consensus/80% CACUsCCACTGCCAGAC uACTCAuGCTTTTTsTGCATCTACCTCuCsAuATAATTGAATTGTTATAGsACAAACAG
consensus/70% CACUsCCACTGCCAGAC uACTCAuGCTTTTTsTGCATCTACCTCuCsAuATAATTGAATTGTTATAGsACAAACAG

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 1201 . 3 1280 GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
2 Orf_virus_D1701 98.3% 88.3% GCGCACTCAAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGAGCCCGGA
3 Orf_virus_NA1-11 97.9% 87.5% GTGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGAGCCCGGA
4 Orf_virus_OV-HN3_12 98.1% 87.2% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
5 Orf_virus_OV-IA82 98.6% 88.5% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
6 Orf_virus_NZ2 98.5% 88.2% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
7 Orf_virus_YX 98.1% 95.5% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
8 Orf_virus_GO 98.8% 96.4% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
9 Orf_virus_B029 91.8% 81.7% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGAGCCCGGA
10 Orf_virus_IHUMI-1 78.5% 70.9% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGAGCCCGGA
11 Orf_virus_SJ1 77.2% 74.2% GCGCACTCGAGCACAATGGCGTGTCTTATCGAATGGGTGCGACTCCATCTTCAACCGACGCCACCCTGAATTTGGGCGCGGA
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100% GsGCACTCuAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCsATCTTCAACsGACuCCACCCTGAATTTsuGGCCCGGA
consensus/90% GCGCACTCGAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCCATCTTCAACCGACuCCACCCTGAATTTsuGGCCCGGA
consensus/80% GCGCACTCGAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCCATCTTCAACCGACuCCACCCTGAATTTCuGGCCCGGA
consensus/70% GCGCACTCGAGCACAATGGCGTGTsTTsTCGAATsGsTsGACTCCATCTTCAACCGACuCCACCCTGAATTTCuGGCCCGGA

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 1281 . 3 1360 AGACATGTACAGGCCCTCCGACCCACCCCGCCCTCCAATCTCGCACTCCCGCACCCCGCA-----CCAACACA
2 Orf_virus_D1701 98.3% 88.3% AGACATGTACAGGCCCTCGACGCCACCCCGCCCTCTCAATATCGCACGCCCTCGCACTCCCGCACCCCGCAACACA
3 Orf_virus_NA1-11 97.9% 87.5% AGACATGTACAGGCCCTCGACG---CCCGCCCCCAATCTCACACGCCCTCGCACTCCCG-----CA
4 Orf_virus_OV-HN3_12 98.1% 87.2% AGACATGTACAGGCCCTCGACG---CCCGCCCCCAATCTCACACGCCCTCGCACTCCCG-----CA
5 Orf_virus_OV-IA82 98.6% 88.5% GGACATGTACAGGCCCTCGACG---CCCGCCCCCAATCTCACACGCCCTCGCACTCCCG-----CA
6 Orf_virus_NZ2 98.5% 88.2% GGACATGTACAGGCCCTCGACG---CCCGCCCCCAATCGCACACGCCCTCGCACTCCCG-----CA

7 Orf_virus_YX 98.1% 95.5% AGACATGTACAGGCCCTCCGACCCACCCCGCCCTCCAATCTCACACTCCCGCACCTTGCA-----CCAACACA
8 Orf_virus_GO 98.8% 96.4% AGACATGTACAGGCCCTCCGACCCACCCCGCCCTCCAATCTCGCACTCCCGCACCTTGCA-----CCAACACA
9 Orf_virus_B029 91.8% 81.7% GGACATGTACAGGCCCTCTGACG---CCCGCCCCCAATCTCACACGCCTCGCACTCCCG-----CA
10 Orf_virus_IHUMI-1 78.5% 70.9% GGACATGTACAGGCCCTCTGACG---CCCGCCCCCAATCTCACACGCCTCGCACTCCCG-----CA
11 Orf_virus_SJ1 77.2% 74.2% AGACATGTACAGGCCCTCCGACCCACCCCGCCCTCCAATCTCGCACTCCCGCACCTTGCA-----CCAACACA
12 Orf_virus_NP 24.1% 23.5%
consensus/100%
consensus/90%
consensus/80%
consensus/70%

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

cov pid 1441
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% AGGAA CAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
2 Orf_virus_D1701 98.3% 88.3% AGGAA CAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
3 Orf_virus_NA1-11 97.9% 87.5% AGGAA CAGAAAGCGGTTCCAGAAATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
4 Orf_virus_OV-HN3_12 98.1% 87.2% AGGAA CAGAAAGCGGTTCCAGAAATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
5 Orf_virus_OV-IA82 98.6% 88.5% AGGAA CAGAAAGCGGTTCCAGAAATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
6 Orf_virus_NZ2 98.5% 88.2% AGGAA CAGAAAGCGGTTCCAGAAATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
7 Orf_virus_YX 98.1% 95.5% AGGAA CAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
8 Orf_virus_GO 98.8% 96.4% AGGAA CAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAAATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
9 Orf_virus_B029 91.8% 81.7% AGGAA CAGAAAGCGGTTCCAGAAATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
10 Orf_virus_IHUMI-1 78.5% 70.9% AGAAACAGAAAGCGGTTCCAGAAATCAACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
11 Orf_virus_SJ1 77.2% 74.2% AGGAA CAGAAAGCGGTTCCAGCATCGACACAGTTGTCCCGGAGATTACGAGCAGTGTCAACTCTCGGAAACCATCAGCCT
12 Orf_virus_NP 24.1% 23.5%
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 1521
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% GGAGG CCGACGCTACTCAGGTTACAACGACTTCCATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
2 Orf_virus_D1701 98.3% 88.3% GGATG CCGACGCTACTCAGGTTACATTGACGTC-----TATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
3 Orf_virus_NA1-11 97.9% 87.5% GGAGG CCGACGCTACTCAGGTTACAGTGACGTCCTATCTCCAGCATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
4 Orf_virus_OV-HN3_12 98.1% 87.2% GGAGG CCGACGCTACTCAGGTTACAGTGACGTCCTATCTCCAGCATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
5 Orf_virus_OV-IA82 98.6% 88.5% GGAGG CCGACGCTACTCAGGTTACGTTACGTCCTTC-----CATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
6 Orf_virus_NZ2 98.5% 88.2% GGATG CCGACGCTACTCAGGTTACAGTGACGTC-----CATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
7 Orf_virus_YX 98.1% 95.5% GGAGG CCGACGCTACTCAGGTTACAACGACTTCCATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
8 Orf_virus_GO 98.8% 96.4% GGAGG CCGACGCTACTCAGGTTACAACGACTTCTATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
9 Orf_virus_B029 91.8% 81.7% GGATG CCGACGCTACTCAGGTTACAGTGACGTC-----CATCTCCAGCATATCCAGCTCCAGTAGCTCAGACTCTA
10 Orf_virus_IHUMI-1 78.5% 70.9% GGATG CCGACGCTACTCAGGTTACAGTGACGTC-----CATCTCCAGCATATCCAGCTCTAGTAGCTCAGACTCTA
11 Orf_virus_SJ1 77.2% 74.2% GGAGG CCGACGCTACTCAGGTTACAACGACTTCCATCTCCAGCATCTCCAGCATATACAGCTCTAGTAGCTCAGACTCTA
12 Orf_virus_NP 24.1% 23.5%
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 1601
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% TCTCT TGGGCGAGTGCAGACTGTCCATGGTGTCTCCGACATCG-----ACCTCCAGGACCTTCTCCTCCTCGGAATGA
2 Orf_virus_D1701 98.3% 88.3% GCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACCTCCAGGACCTTCTCCTCCTCGGAATGA
3 Orf_virus_NA1-11 97.9% 87.5% GCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCAGGACCTTCTCCTCCTCGGAATGA
4 Orf_virus_OV-HN3_12 98.1% 87.2% GCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCAGGACCTTCTCCTCCTCGGAATGA
5 Orf_virus_OV-IA82 98.6% 88.5% GCTCT ATTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACCTCCAGGACCTTCTCCTCCTCGGAATGA
6 Orf_virus_NZ2 98.5% 88.2% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCAACATCAACCTCCACCTCCACAACCTTCTCCTCCTCGGAATGA
7 Orf_virus_YX 98.1% 95.5% GCTCT CTGAGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACTTCCAGGACATTTCTCCTCCTCGGAATGA
8 Orf_virus_GO 98.8% 96.4% GCTCT CTGAGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACCTCCAGGACATTTCTCCTCCTCGGAATGA
9 Orf_virus_B029 91.8% 81.7% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCAGGACCTTCTCCTCCTCGGAATGA
10 Orf_virus_IHUMI-1 78.5% 70.9% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCAGGACCTTCTCCTCCTCGGAATGA
11 Orf_virus_SJ1 77.2% 74.2% TCTCT TTTGGGCGAGTGCAGACTGTCCATGGTGTCTCCGACATCG-----ACTTCCAGGACATTTCTCCTCCTCGGAATGA
12 Orf_virus_NP 24.1% 23.5%
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 1680
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% sCTCs sTGuGGCAGTGCAGACTGTCCATGGTGTCCGACATCG.....ACsTCCACuACsTsTCTTsCTCussTGA
2 Orf_virus_D1701 98.3% 88.3% sCTCTsTGuGGCAGTGCAGACTGTCCATGGTGTCCGACATCG.....ACsTCCAGGACsTtsTCTCCTCCTCGGAATGA
3 Orf_virus_NA1-11 97.9% 87.5% sCTCTsTGuGGCAGTGCAGACTGTCCATGGTGTCCGCGACATCG.....ACCTCCAGGACsTtsTCTCCTCCTCGGAATGA
4 Orf_virus_OV-HN3_12 98.1% 87.2% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACCTCCAGGACCTTCTCCTCCTCGGAATGA
5 Orf_virus_OV-IA82 98.6% 88.5% GCTCT ATTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACCTCCAGGACCTTCTCCTCCTCGGAATGA
6 Orf_virus_NZ2 98.5% 88.2% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCAACATCAACCTCCACCTCCACAACCTTCTCCTCCTCGGAATGA
7 Orf_virus_YX 98.1% 95.5% GCTCT CTGAGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACTTCCAGGACATTTCTCCTCCTCGGAATGA
8 Orf_virus_GO 98.8% 96.4% GCTCT CTGAGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCG-----ACCTCCAGGACATTTCTCCTCCTCGGAATGA
9 Orf_virus_B029 91.8% 81.7% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCAGGACCTTCTCCTCCTCGGAATGA
10 Orf_virus_IHUMI-1 78.5% 70.9% TCTCT CTGGGCGAGTGCAGACTGTCCATGGTGTCCGCGACATCGACCTCCACCTCCAGGACCTTCTCCTCCTCGGAATGA
11 Orf_virus_SJ1 77.2% 74.2% TCTCT TTTGGGCGAGTGCAGACTGTCCATGGTGTCTCCGACATCG-----ACTTCCAGGACATTTCTCCTCCTCGGAATGA
12 Orf_virus_NP 24.1% 23.5%
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 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% ACGCTACACTTATTTTTGTATAATAGTTTGTATTGAACCTTAGATACATCTACAAATAGTTAGGAAGCATGAGTAGTTCA
12 Orf_virus_NP 24.1% 23.5%
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 1761
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% AGTAA CCGAGCCAC-----CCCTAAGCCCAAGCCCTGCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
2 Orf_virus_D1701 98.3% 88.3% AGTAGCGAACCACACCTAAGCCCAAGCCCTATCCCTGCTCCCGCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
3 Orf_virus_NA1-11 97.9% 87.5% AGTAGCGAGACCAC-----GCCCAAGCCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
4 Orf_virus_OV-HN3_12 98.1% 87.2% AGTAGCGAGACCAC-----GCCCAAGCCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
5 Orf_virus_OV-IA82 98.6% 88.5% AGTAGCGAGACCACCCCTAAGCCCAAGCCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
6 Orf_virus_NZ2 98.5% 88.2% AGTAGCGAGACCACCCCTAAGCCCAAGCCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
7 Orf_virus_YX 98.1% 95.5% AGTAA CCGAGACCAC-----CCCTAAGCCC---CCTGCTCCTCCCATGACCAGGATGAGTTTAAACAAAGAAGTAGAGAA
8 Orf_virus_GO 98.8% 96.4% AGTAA CCGAGACCAC-----CCCTAAGCCC-----CCTTCTCCCATGACCAGGAGGAGTTTAAACAAAGAAGTAGAGAA
9 Orf_virus_B029 91.8% 81.7% AGTAGCGAGACTAC-----GCCCAAGCCCTATCCCTGCTCCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTAGAGAA

10 Orf_virus_IHUMI-1 78.5% 70.9% AGTAGCGAGACTAC-----GCCCAAGCCATCCTCTCTCCCATGACTCAGGAGGAGTTTAAACAAAGAAGTGAAGAA

11 Orf_virus_SJ1 77.2% 74.2% AGTAACGAGACCAC-----CCCTAAGCCC---CCTGCTCTCCCATGACCAGGATGAGTTTAAACAAAGAAGTAGAGAA

12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 1841 : 9 1920
2 Orf_virus_D1701 98.3% 88.3% ACGAAGAGAACA...AGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTGTCTGCCGACGGAACAG
3 Orf_virus_NA1-11 97.9% 87.5% ATGGGAAGAAAAGAAAAGGAAAAATCTAGAAATCGTTGAACGTGAGGCGGAAACCGTAACTGTGTCTGCCGACGGAACAG
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACGGGAAGAAAAGAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTATCTTCCGACGGATCAG
5 Orf_virus_OV-IA82 98.6% 88.5% ACGGGAAGAAAAGAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTATCTTCCGACGGATCAG
6 Orf_virus_NZ2 98.5% 88.2% ACGAAAAGAACA...AGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTATCTTCCGACGGATCAG
7 Orf_virus_YX 98.1% 95.5% ACGGGAAGAAAAGAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTGTCTGGTGACGGAACAG
8 Orf_virus_GO 98.8% 96.4% ACGGGAAGAAAAGAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTGTCTGGTGACGGAACAG
9 Orf_virus_B029 91.8% 81.7% ACGGGAAGAAAAGAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTTAGAAAACCGTAACTGTGTCTGCCGACGGAACAG
10 Orf_virus_IHUMI-1 78.5% 70.9% ACGAAAAGAACAGAAAAGGAAAAATCTAGAACCGTTGAACGTGAGTTAGAAAACCGTAACTGTATCTGCCAACGGAACAG
11 Orf_virus_SJ1 77.2% 74.2% ACGAAGAGAACA...AGGAAAAATCTAGAACCGTTGAACGTGAGTCAGAAAACCGTAACTGTGTCTGGCGACGGAACAG
12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 1921 : 0 2000
2 Orf_virus_D1701 98.3% 88.3% AGAAAACAAGGACCTACGAGCGCGAGTCTGTGAAAACAACCGAATCAGAAAAGAACAACAATCCGTCAACC---AATGAT
3 Orf_virus_NA1-11 97.9% 87.5% AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAAGAACCAGAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
4 Orf_virus_OV-HN3_12 98.1% 87.2% AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAAGAACCAGAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
5 Orf_virus_OV-IA82 98.6% 88.5% AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAACAACCAGAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
6 Orf_virus_NZ2 98.5% 88.2% AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAACAACCAGAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
7 Orf_virus_YX 98.1% 95.5% AGAAAACAAGGACCTACGAGCGCGAGTCTGAGAAAACAACCGAACAGAAAAGAACAACAATCCGTCAACC---AATGAT
8 Orf_virus_GO 98.8% 96.4% AGAAAACAAGGACCTACGAGCGCGAGTCTGAGAAAACAACCGAACAGAAAAGAACAACAATCCGTCAACC---AATGAT
9 Orf_virus_B029 91.8% 81.7% AGAGAACAAGGATCTACGAGCGCGATTCTGAAAAGAACAACCAGAACAGAAAAGAACAAC---ACGTCAACC---AAT
10 Orf_virus_IHUMI-1 78.5% 70.9% AGATAAAAAAGACTTACGAGCGCGAGTCTGAGAGAACAACCAGAACAGAAAAGAACAAC---ACGTCAACC---GATGAT
11 Orf_virus_SJ1 77.2% 74.2% AGAAAACAAGGATCTACGAGCGCGAGTCTGAGAGAACAACCAGAACAGAAAAGAACAAC---ACGTCAACC---AATGAT
12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 2001 : 2080
2 Orf_virus_D1701 98.3% 88.3% AATAAGGACAAAGTGACCGACAATCAGCCAAAAGAAGACGATAAGAACTTGAGGAACTCCCAAGGACAGTGAGAAGCC
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% AATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACC-----AAGCCTGCTTCTACTCCTGAAG---GTGAGAAG--
6 Orf_virus_NZ2 98.5% 88.2% AATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACC-----AAGCCTGCTTCTACTCCTGAAG---GTGAGAAG--
7 Orf_virus_YX 98.1% 95.5% AATAAGGACAAAGTGACCGACAACCAGCCAAAAGAAGACGATAAAAACCTTGAGGAACT---AAGGACAGTGAGAAGCC
8 Orf_virus_GO 98.8% 96.4% AATAAGGACAAAGTGACCGACAATCAGCCAAAAGAAGACGATAAGAACTTGAGGAACT---AAGGACAGTGAGAAGCC
9 Orf_virus_B029 91.8% 81.7% GATAAGCAGAACACCCCTGTAGAGAAACCAGAGGAAACC-----AAGCCTGCTTCTACTCCTGAAG---GTGATAAG--
10 Orf_virus_IHUMI-1 78.5% 70.9% AATAAGCAGAACTACTCCTGTAGAGAAACCAGAGAAACC-----AATCTGCTTCTACTCCTAAAG---GTGAGAAG--
11 Orf_virus_SJ1 77.2% 74.2% AATAAGGACAAAGTGACCGACAATCAGCCAAAAGAAGACGATAAGAACTTGAGGAACTCCTAAGGACCGTGAGAAGCC
12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 2081 : 1 2160
2 Orf_virus_D1701 98.3% 88.3% TACACCAACTGAAAAGCCCGCAACACCTCTTCTGGTGA-----TAATAAGAAAGAGGGGGAAGAAGCAACCCCTTG
3 Orf_virus_NA1-11 97.9% 87.5% ----CCAGCCGAAACTCCTG-----CCCGACTACTGACCCCAACCCACTACACAACCACCCGAGAAATCAAACCTCTG
4 Orf_virus_OV-HN3_12 98.1% 87.2% ----CCAGCCGAAACTCCTG-----CCCGACTACTGACCCCAACCCACTACACAACCACCCGAGAAATCAAACCTCTG
5 Orf_virus_OV-IA82 98.6% 88.5% ----CCAGCTGAAACTCCTG-----CCCGACTACTGACCCCAACCCACTACACAACCACCCGAGAAATCAAACCTCTG
6 Orf_virus_NZ2 98.5% 88.2% ----CCAGCCGAGACTCCTG-----CCCGACTACTGACCCCAACCTACTACACAACCACCCGAGAAATCAAACCTCTG
7 Orf_virus_YX 98.1% 95.5% TACACCAACTGAAAAGCCCGCAGACACCTCTTCTGGTGA-----TAATAAGAAAGAGGGGGAAGAAGCAACCCCTTA
8 Orf_virus_GO 98.8% 96.4% TACGCCAACTGAAAAGCCCGCAGACACCTCTTCTGGTGA-----TAATAAGAAAGAGGGGGAAGAAGCAACCCCTTG
9 Orf_virus_B029 91.8% 81.7% ----CCAGCCGAAACTCCTG-----CCCGACTACTAACCCCAACCCACTACACAACCACCCGAGAAATCAAACCTCTG
10 Orf_virus_IHUMI-1 78.5% 70.9% ----CCAGCCGAGACTCCTG-----CCCGACTACTGACCCCAACCCACTACACAACCACCCGAGAAATCAAACCTCTG
11 Orf_virus_SJ1 77.2% 74.2% TACACCAACTGAAAAGCCCGCAGACACCTCTTCTGGTGA-----TAATAAGAAAGAGGGGGAAGAAGCAACCCCTTG
12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 2161 : 2 2240
2 Orf_virus_D1701 98.3% 88.3% AGAGTCAACCCACGCTGCACC-TACTCAGCCATCAAACAGCGA-----AGCAC-----
3 Orf_virus_NA1-11 97.9% 87.5% GAAGTCAACCCACACCCGCTCAGAACCAACCCCGCACCTGAACCTACTCCGGCTCCAGAGCTACACCTGCATCAAAA
4 Orf_virus_OV-HN3_12 98.1% 87.2% GAAGTCAACCCACACCTGCTCAGAACCAACCCCGCACCTGAACCTACTCCGGCTCCAGAGCTACACCTGCATCAGAG
5 Orf_virus_OV-IA82 98.6% 88.5% GAAGTCAACCCACACCTGTTCCAGAACCAACCCCGCACCT-----GAGCCTGCACCCG-----AA
6 Orf_virus_NZ2 98.5% 88.2% GAAGTCAACCCGACCTGCTTCCAGAACCAACCCCGCACCT-----GAGCCTGCACCCGAAAC-----
7 Orf_virus_YX 98.1% 95.5% AAAGTCAACCCACGCTGCACC-TACTCAACCATCAAACAGCGA-----AGCAC-----
8 Orf_virus_GO 98.8% 96.4% AGAGTCAACCCACGCTGCACC-TACTCAGCCATCAAACAGCGA-----AGCAC-----
9 Orf_virus_B029 91.8% 81.7% GAAGTCAACCCACACCTGCTTCCAGAACCAACCCCGCACCT-----GAGCCTGCACCCG-----AA
10 Orf_virus_IHUMI-1 78.5% 70.9% GAAGTCAACCCACACCTGCTTCCAGAACCAACCCCGCACCT-----GAGCCTGCATCAGTAACTCAA
11 Orf_virus_SJ1 77.2% 74.2% AGAGTCAACCCACGCTGTACC-TACTCAGCCATCAAACAGCGA-----AGCACCCACTCAACCTCAAAGC
12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 2241 : 3 2320
2 Orf_virus_D1701 98.3% 88.3% -----CCACTCAACCTCCAAGCAGTGAGACTCCACCCACT-CAACCTCCAAGC---AG--TACACCT-----
3 Orf_virus_NA1-11 97.9% 87.5% CCCACTCCTGCCACTGAGCCCGC---AGC---AACCGAACCCACTTCCAGAACCAAAGC---CAAG---TTCTGTCCCTGAGC
4 Orf_virus_OV-HN3_12 98.1% 87.2% CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC---CAAG---TCCAGCCCTGAGC
5 Orf_virus_OV-IA82 98.6% 88.5% CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC---CAAG---TCCAGCCCTGAAA
6 Orf_virus_NZ2 98.5% 88.2% -----CCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC---CAAG---TCCAGCCCTAAGC
7 Orf_virus_YX 98.1% 95.5% -----CCACTCAACCTCCAAGCAGTGAGACTCCATCCACT-CAACCCCAAGC---AGTGAG-----
8 Orf_virus_GO 98.8% 96.4% -----CCACTCAACCTCCAAGCAGTGAGACTCCATCCACT-CAACCTCCGAGC---AG-----
9 Orf_virus_B029 91.8% 81.7% CCCACTCCTGCCACTCAGCCTGC-ATCAGT--AACTCAACCCGCTCCAACACCAGAGC---CAAC---CCCGCACCTGAGC
10 Orf_virus_IHUMI-1 78.5% 70.9% CCTGCTCCTGCCACTCAGCCTGC-ATCAGT--AACCGAACCCACTCCAACACCAGAGC---CAAG---TCCAGCCCTAAGC
11 Orf_virus_SJ1 77.2% 74.2% AGTACACCATCCACTCAACCTCCAAGCAGTGAGACTCCACCCACT-CAACCTCCAAGCAGTGAGACTCCATCCACTCAAC
12 Orf_virus_NP 24.1% 23.5% -----

consensus/100%
consensus/90%
consensus/80%
consensus/70%

consensus/100%
consensus/90%
consensus/80%
consensus/70%

..... CCACTsAuCCssC...AGs..uACsssAsCCuCT.CAussCsAuAGC...ss.....
..... CCACTCAuCCTsC.AsCAGT..uACsssAsCCuCT.CAACssCsAuAGC...AG.....
..... CCACTCAuCCTsC.AsCAGT..uACTCsACCCuCT.CAACssCsAuAGC..suAG..ssCsssss.....

	cov	pid
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%

-----CCACTCAACCTCCAAGCAGTACACCATCCACTGAAC-----
CTACTCCGGCTCTGATCCAACCCCTGCA-----CCAGAACTTACACCAGCCGAGAAC-----
CTACTCCGGCTCCTGAACCAACCCCTGCACCAGAACCCTCCCGCTCCAGAACCTACACCATCCACAGAACCAGACTCCT
CTACTCCGGCTCCTGAACCAACCCCTGCACCAGAACCCTCCCGCTCCAGAACCTACACCATCCACAGAACCAGACTCCT
CTACTCCGGCTTCCGAACCAACCCCTGCACCAGAACCCTCCCGCTCCAGAACCTACACCATCCAGAACCAACTCCT
CTACTCCGGCTTCTGAACCAACCCAGCATCTGAGCCTACTTCTGCTCCAGAACCTACACCATCCGAGAACCAACTCCT
-----ACTCCATCCACTCAAC-----
-----TACACCATCCACTCAAC-----
CTACTCCGGCTTCCGAAC-----CCACTCCTGCTCCAGAACCTACACCAGCCGAGAACCCGAGTCTCT
CTACTCCGGCTTCTGAACCAACCCAGCATCTGAGCCTACTTCTGCTCCAGAACCTACACCATCCGAGAACCAACTCCT
CTCCATCCACTCAACCTCCATCCACTCAACCTCCATCCACTC-----AACCT---CCATCCACTCAACCT-----

..... CCAsCCuCsSAAC.....
..... TAcCCAsCCuCsSAAC.....
..... ussTACACCAsCCuCsSAAC.....

.....
..... CCAsCCuCsSAAC.....
..... TAcCCAsCCuCsSAAC.....
..... ussTACACCAsCCuCsSAAC.....

	cov	pid
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%
2 Orf_virus_D1701	98.3%	88.3%
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8 Orf_virus_GO	98.8%	96.4%
9 Orf_virus_B029	91.8%	81.7%
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11 Orf_virus_SJ1	77.2%	74.2%
12 Orf_virus_NP	24.1%	23.5%

consensus/100%
consensus/90%
consensus/80%
consensus/70%

-----CTACTCCAGAGCCAGCTCCTTCTACCGAACCAACAACCAACGCCAACGG
----CAACTGTAGAAGCACCACC-----TGCTACAGCACCAACTTCCGAAACCAACAGCCACCAACAGCAATCC
CAACCAACCGTAGAAACACCACC-----ATCTGCTACAGCACCAACTACCGAAGCCAGCCA---ACCAA---CAATCC
CAACCAACCGTAGAAACACCACC-----ATCTGCTACAGCACCAACTACCGAAGCCAGCCA---ACCAA---CAATCC
CAACCAACCGTAGAAACACCACC-----ATCTGCTCCAGCACCAACTCCCGAGGCCAACCCCGCCAA---CAATCC
CAACCAACTGTAGAACACCACC-----ATCTGCTCCAGCACCAACTCCCGAGGCCAACCCCGCCAACAGCAATCC
-----CTACTCCAGAGCCAGCTCCTTCTACCGAACCAACAACCAACGCCAACGG
-----CTACTCCAGAGCCAGCTCCTTCTACCGAACCAACAACCAACGCCAACGG
CAACCAACCGTAGAAACACCACC-----ATCTGCACCAGCACCAACTACCGAAGCCAGCCA---ACCAA---CAATCC
CAACCAACTGTAGAACACCACC-----ATCTGCTCCAGCACCAACTCCCGAGGCCAACCCCGCCAACAGCAATCC
---CCAAGCAGTGAGACTCCATCCACTGAACCTACTCCAGAGCCAGCTCCTTCCACCGAACCAACAACCAACGCCAACGG

..... TuCsCAGsuCCAuCTsCsSSsuCCsAuCCA...uCCAA...CAAsS
..... CTuTsCAGsuCCAuCTsCsSSsuCCsAuCCA...uCCAA...CAAsS
..... CTuTsCAGsuCCAuCTsCsSSsuCCsAuCCA...uCCAA...CAAsS

.....
..... TuCsCAGsuCCAuCTsCsSSsuCCsAuCCA...uCCAA...CAAsS
..... CTuTsCAGsuCCAuCTsCsSSsuCCsAuCCA...uCCAA...CAAsS
..... CTuTsCAGsuCCAuCTsCsSSsuCCsAuCCA...uCCAA...CAAsS

	cov	pid
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%
2 Orf_virus_D1701	98.3%	88.3%
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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%
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consensus/100%
consensus/90%
consensus/80%
consensus/70%

5
TACACCTGCCGCCACTACTTCAGAAACCCTGCCTAAATGAGTCCGTAAGCATTTCAGAGTAACGTACACTAGTAAGCGA
CGCTACCAGAA---ACCCTGGTGCCAGCACCTCCTAAATAGTCCGTAAGCATTTCAGAGTAACGTACACTAGTAAGCGC
CACTACTGAAACCACCCTGGTACCAGCCTTCTTAAATGAGACC--TAAGCATTTCAGAGTAAC---CGTAGTAAGCGA
CACTACTGAAACCACCCTGGTACCAGCCTTCTTAAATGAGACC--TAAGCATTTCAGAGTAAC---CGTAGTAAGCGA
CACTACTGAAACTACCCTGGTACCAGCCTCCTAAGTGAGTACGTAAGCATTTCGGAGTAACGT--CGTAGCAAGCGC
TACACCTGCCGCCACTACTTCAGAAACCCTGCCTAAATGAGTCCGTAAGCATTTCAGAGTAACGT--CGTAGCAAGCGC
TACACCTGCCGCCACTACTTCAGAAACCCTGCCTAAATGAGTCCGTAAGCATTTCAGAGTAACGT--CGTAGCAAGCGC
CACTACTGAAACTACCCTGGTACCAGCCTTCTTAAATGAGTCCGTAAGCATTTCAGAGTAACGT--CGTAGCAAGCGC
CACTACTGAAACTACCCTGGTACCAGCCTCCTAAGTGAGTACGTAAGCATTTCAGAGTAACGT--CGTAGCAAGCGC
TACACCTGCCGCCACTACTTCAGAAACCCTGCCTAAATGAGTCTGTAAGCATTTCAGAGTAACGT--ACTAGTAAGCGA

..... suCsCsGss...ACsACTssussAsCACssCsTAAuTsAGsss.sAAGCATTTCu...TAAC...ssTAGsAAGCGs
sACssCTGssuCsAcSACTssussAsCACssCsTAAuTGAGssC.sAAGCATTTCu...TAAC...ssTAGsAAGCGs
sACssCTGssuCsAcSACTssussAsCACssCsTAAuTGAGTsCGTAAGCATTTCAGAGTAACGT..CsTAGsAAGCGs

.....
..... suCsCsGss...ACsACTssussAsCACssCsTAAuTsAGsss.sAAGCATTTCu...TAAC...ssTAGsAAGCGs
sACssCTGssuCsAcSACTssussAsCACssCsTAAuTGAGssC.sAAGCATTTCu...TAAC...ssTAGsAAGCGs
sACssCTGssuCsAcSACTssussAsCACssCsTAAuTGAGTsCGTAAGCATTTCAGAGTAACGT..CsTAGsAAGCGs

	cov	pid
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%
2 Orf_virus_D1701	98.3%	88.3%
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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%

6
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAGTTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTGCGGGCGGTGTACGCTTT

..... TAGTCCGCCGCGAGCGGTTCTsGCAAG.TTTTTTCGGGTAAAAAGCGTACACCGTCGCCTsGTsGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAG.TTTTTTCGGGTAAAAAGCGTACACCGTCGCCTsGTsGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAG.TTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTsGCGGGCGGTGTACGCTTT

.....
..... TAGTCCGCCGCGAGCGGTTCTsGCAAG.TTTTTTCGGGTAAAAAGCGTACACCGTCGCCTsGTsGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAG.TTTTTTCGGGTAAAAAGCGTACACCGTCGCCTsGTsGCGGGCGGTGTACGCTTT
TAGTCCGCCGCGAGCGGTTCTCGCAAG.TTTTTTCGGGTAAAAAGCGTACACCGTCGCCTTGTsGCGGGCGGTGTACGCTTT

	cov	pid
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053	100.0%	100.0%
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12 Orf_virus_NP	24.1%	23.5%

consensus/100%
consensus/90%
consensus/80%
consensus/70%

7
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAGAGATGGCGTGCCTCCGGGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAGAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG
TTTCACGCCCTTTTTGTC-AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCAGAGTGTCTCTGGCG

..... TTTCACGCCCTTTTTGTC.AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCsGuGTGTTCsTuGCG
TTTCACGCCCTTTTTGTC.AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCsGuGTGTTCsTuGCG
TTTCACGCCCTTTTTGTC.AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCsGuGTGTTCCTGGCG

.....
..... TTTCACGCCCTTTTTGTC.AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCsGuGTGTTCsTuGCG
TTTCACGCCCTTTTTGTC.AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCsGuGTGTTCsTuGCG
TTTCACGCCCTTTTTGTC.AAATTTAAATTGTACCTGCGCTGGCTCTAGGAAAGATGGCGTGCCTCsGuGTGTTCCTGGCG

	cov	pid
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%

8
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGTTTCGCGCTGTGCGGAAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT

..... GTGsTCGCGCTGTGCGGAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGsTCGCGCTGTGCGGAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT

.....
..... GTGsTCGCGCTGTGCGGAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT
GTGsTCGCGCTGTGCGGAGCGTGCCTCGCGCAATGGATCGGGCAGCGCGACTTCTGCATGGCCACCGCGCAGGACGT

4 Orf_virus_OV-HN3_12 98.1% 87.2% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTACAACCCGCGACCGCTCCGCCGA
5 Orf_virus_OV-IA82 98.6% 88.5% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTACAACCCGCGACCGCTCCGCCGA
6 Orf_virus_NZ2 98.5% 88.2% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTACAACCCGCGACCGCTCCGCCGA
7 Orf_virus_YX 98.1% 95.5% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTACAACCCGCGACCGCTCCGCCGA
8 Orf_virus_GO 98.8% 96.4% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTACAACCCGCGACCGCTCCGCCGA
9 Orf_virus_B029 91.8% 81.7% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTANNNNNNNNNNNNNNNNNNNNN
10 Orf_virus_IHUMI-1 78.5% 70.9% GGGCAACCGGAGCATCCAGCCTGCGATGTCCGAGGCGTTGCGAGAATGATTTTCAGCTACAACCCGCGACCGCTCCGCCGA
11 Orf_virus_SJ1 77.2% 74.2% -----
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100%
consensus/90%
consensus/80% GGGCAACCGGAGCATCCuGCCsGCGATGTCCGAuGCGsTGCAGAAsgAsTTCAGCTAssssssssssssssssssssss
consensus/70% GGGCAACCGGAGCATCCuGCCGCGATGTCCGAGGCGsTGCAGAAsgAsTTCAGCTACAACCCGCGuCCGCTCCGCCGA

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

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 3921 TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC 4000
2 Orf_virus_D1701 98.3% 88.3% TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
3 Orf_virus_NA1-11 97.9% 87.5% TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
4 Orf_virus_OV-HN3_12 98.1% 87.2% TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
5 Orf_virus_OV-IA82 98.6% 88.5% TACCCCAATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
6 Orf_virus_NZ2 98.5% 88.2% TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
7 Orf_virus_YX 98.1% 95.5% TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
8 Orf_virus_GO 98.8% 96.4% TACCCCGATTTCATCCACCCGGTTGACAGCAGCCCGCGTGCACGCCGCGCGCAAGCGCAACGGCTCCGGCCGAAGGC
9 Orf_virus_B029 91.8% 81.7% -----CGGACGATCCTGTGCG-----GCAAAGACTTCAACATAGTGGC
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%CGsuCussCCsGsGCG....GCAAsGuCTsCuuCsssusGGs
consensus/70%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 4001 ACCGAACAAGACCCCGGTGCCGACGATGCCAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACAC----- 4080
2 Orf_virus_D1701 98.3% 88.3% ACTGAACAAGACCCCGGTGCCGACGAGCCAAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACACACTA
3 Orf_virus_NA1-11 97.9% 87.5% ACCGATCAAAACCCCGGTGCCGAAACAGGCCAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACAC-----
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACCGATCAAAACCCCGGTGCCGAAACAGGCCAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACAC-----
5 Orf_virus_OV-IA82 98.6% 88.5% ACTGAACAAGACCCCGGTGCCGACGAGCCAAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACAC-----
6 Orf_virus_NZ2 98.5% 88.2% ACTGAACAACCCAGGTGCCGACGAGCCAAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACAC-----
7 Orf_virus_YX 98.1% 95.5% ACCGAACAAGACCCCGGTGCCGACGAGCCAAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTCACAC-----
8 Orf_virus_GO 98.8% 96.4% ACCGAACAAGACCCCGGTGCCGACGAGCCAAAGCGTGACGGCTACTCCCGTAATGCAGTCCACACACTTC-----
9 Orf_virus_B029 91.8% 81.7% GCCG-----
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% uCSG.....

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 4081 ACCACA-CAGCACTCAAGCCCAGCATCATCACAAATGAAGCAGCCGAGCCACAGCCCGCGTGGACAGCACATAAA 4160
2 Orf_virus_D1701 98.3% 88.3% ACTACATCAGCACTCAAGCTCACAATCATCGCACATGAAGCTAGCCAA-----CAGTGCCAAGCACACACATAAA
3 Orf_virus_NA1-11 97.9% 87.5% ACTACATCAGCACTCAAGCTTATAATCACCACAAATGAATCAGCCCA-----CCAGTGCCAAGCACACACATAAA
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACTACATCAGCACTCAAGCTTATAATCACCACAAATGAATCAGCCCA-----CCAGTGCCAAGCACACACATAAA
5 Orf_virus_OV-IA82 98.6% 88.5% ACTACATCAGCACTCAAGCTTATAATCACCACAAATGAATCAGCCCA--GCCACACACAGTGGCAAGCA--CACATAAA
6 Orf_virus_NZ2 98.5% 88.2% ACTACATCAGCACTCAAGCTTATAATCACCACAAATGAATCAGCCCA-----CCAGTGCCAAGCACACACATAAA
7 Orf_virus_YX 98.1% 95.5% ACCACA-CAGCACTCAAGCTCAGCATCATCACAAATGAAGCAGCCGAGCCACAGCCCGCGTGGACAGCACATAAA
8 Orf_virus_GO 98.8% 96.4% ACCACA-CAGCACTCAAGCTCAGCATCATCACAAATGAAGCAGCCGAGCCACAGCCCGCGTGGACAGCACATAAA
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%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 4161 ATCGCCACAGTCTTGATCATTCCTAATTGTTCCCAATFACTCCCAATCA-CCCTGCCTTACACACAGCAGCTTATCAC 4240
2 Orf_virus_D1701 98.3% 88.3% ATCACCCAC-----TGTCCTGATCGTTCCCAATFACTCCCAATCA-CCCTGCCTTACACACAGCAGCTTATCAC
3 Orf_virus_NA1-11 97.9% 87.5% ATCACCCAC-----TTGTCTGATCGTTCCCAATFACTCCCAATCACCCGTCCTTACACGACGTTAATCACCTT
4 Orf_virus_OV-HN3_12 98.1% 87.2% ATCACCCAC-----TTGTCTGATCGTTCCCAATFACTCCCAATCACCCGTCCTTACACGACGTTAATCACCTT
5 Orf_virus_OV-IA82 98.6% 88.5% ATCACCCAC-----CTGTCTGATCGTTCCCAATFACTCCCAATCACCCGTCCTTACACGACGTTAATCACCTT
6 Orf_virus_NZ2 98.5% 88.2% ATCACCCAC-----CTGTCTGATCGTTCCCAATFACTCCCAATCA-CCCTGCCTTACACGACGTTAATCACCTT
7 Orf_virus_YX 98.1% 95.5% ATCACCCACAGTCTTGATCGTTCCCTAATTGTTCCCAATFACTCCCAATCA-CCCTGCCTTACACACAGCAGCTTATCAC
8 Orf_virus_GO 98.8% 96.4% ATCACCCACAGTCTTGATCGTTCCCTAATTGTTCCCAATFACTCCCAATCA-CCCTGCCTTACACACAGCAGCTTATCAC
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%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% 4241 CCGCCTTCCT-----TCTTCGTCCAATTACACATACA-CCCCGTAATTTGTACTTTTGTACTTT 4320
2 Orf_virus_D1701 98.3% 88.3% TTCCTTCCTT-----CCTCCCTTAATTACACATACACCCCGTAATGTTGTACTTTTGTACTTT
3 Orf_virus_NA1-11 97.9% 87.5% CTCCTTCCTTTCATGTCGTTCTGATCGCTCCTCCTCCTAATCACACA-----CCCCGTAATTTGTACTTTTGTACTTT
4 Orf_virus_OV-HN3_12 98.1% 87.2% CTCCTTCCTTTCATGTCGTTCTGATCGCTCCTCCTCCTAATCACACA-----CCCCGTAATTTGTACTTTTGTACTTT
5 Orf_virus_OV-IA82 98.6% 88.5% CTCCTTCCTT-----CCTGATCGCTCCTCCTCCTAATCACACATACA-CCCCGTAATTTGTACTTTTGTACTTT
6 Orf_virus_NZ2 98.5% 88.2% TTCCTTCCTTTCATG-CGTTCTGATCGTTCTCCTCCTAATCACACACACA-CCCCGTAATTTGTACTTTTGTACTTT

7 Orf_virus_YX 98.1% 95.5% CCGCCTTCCT-----TCTTCCTCCAATTACACATACA-CCCCGTAATTTTGTACTTTTGTACTTT
8 Orf_virus_GO 98.8% 96.4% CCGCCTTCCT-----TCTTCCTCCAATTACACATACA-CCCCGTAATTTTGTACTTTTGTACTTT
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% AATTTTGTACTTTT-TACTACTGA-----CTTTGTACTTTATTTTTGTACCAGAAATGGACAATAATTAT-TTT
2 Orf_virus_D1701 98.3% 88.3% AATTTTGTACTTTT-TACTACTGA-----CTTTGTACTTTATTTTTGTACCAGAAATGGACAATAATTAT-TTT
3 Orf_virus_NA1-11 97.9% 87.5% AA-TTTGTACTTTTACACTGA-----CTTTGTACTTTATTTTTGTACTGAAATGGAGCAT--TTATCTTT
4 Orf_virus_OV-HN3_12 98.1% 87.2% AA-TTTGTACTTTTACACTGA-----CTTTGTACTTTATTTTTGTACTGAAATGGAGCAT--TTATCTTT
5 Orf_virus_OV-IA82 98.6% 88.5% AA-TTTGTACTTTTACACTGACTTTGTACTGCCTTTGTACTTTATTTTTGTACTGAAATGGAGCATTTATCTTT
6 Orf_virus_NZ2 98.5% 88.2% AA-TTTGTACTTTTACACTGACTTTGTACTGCCTTTGTACTTTATTTTTGTACTGAAATGGAGCATTTATCTTT
7 Orf_virus_YX 98.1% 95.5% AATTTTGTACTTTT-TACTACTGA-----CTTTGTACTTTATTTTTGTACCAGAAATGGACAATAATTAT-TTT
8 Orf_virus_GO 98.8% 96.4% AATTTTGTACTTTT-TACTACTGA-----CTTTGTACTTTATTTTTGTACCAGAAATGGACAATAATTAT-TTT
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% GTATCCACATCCAATTTTGCGAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
2 Orf_virus_D1701 98.3% 88.3% GTATTCACATCAAATTTGCAAAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
3 Orf_virus_NA1-11 97.9% 87.5% GTATTCACATCAAATTTGCAAAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
4 Orf_virus_OV-HN3_12 98.1% 87.2% GTATTCACATCAAATTTGCAAAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
5 Orf_virus_OV-IA82 98.6% 88.5% GTATTCACATCAAAGTTTTCGCAAAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
6 Orf_virus_NZ2 98.5% 88.2% GTATTCACATCAAAGTTTTCGCAAAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
7 Orf_virus_YX 98.1% 95.5% GTATCCACATCCAATTTTGCGAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
8 Orf_virus_GO 98.8% 96.4% GTATCCACATCCAATTTTGCGAATTCACACGCCAGTTGCGAAAAATGAAATAGTACCAGTTTGGCTTCAAT-CCCC
9 Orf_virus_B029 91.8% 81.7% -----TCGGGGTT-----
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% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
2 Orf_virus_D1701 98.3% 88.3% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
3 Orf_virus_NA1-11 97.9% 87.5% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
4 Orf_virus_OV-HN3_12 98.1% 87.2% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
5 Orf_virus_OV-IA82 98.6% 88.5% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
6 Orf_virus_NZ2 98.5% 88.2% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
7 Orf_virus_YX 98.1% 95.5% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
8 Orf_virus_GO 98.8% 96.4% TCCCGCGGAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGA
9 Orf_virus_B029 91.8% 81.7% -----CAAAGACTCACCAGCATGGACTCTCGTCGGCTCGCCCTTGCCGTCGCCTTCGGAGGCGTCTCGCCAGCATGG
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% CGCAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
2 Orf_virus_D1701 98.3% 88.3% CACAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
3 Orf_virus_NA1-11 97.9% 87.5% CACAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
4 Orf_virus_OV-HN3_12 98.1% 87.2% CACAGCGCTGCCGCTGGCTTTCTTATTGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
5 Orf_virus_OV-IA82 98.6% 88.5% CACAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
6 Orf_virus_NZ2 98.5% 88.2% CACAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
7 Orf_virus_YX 98.1% 95.5% CGCAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
8 Orf_virus_GO 98.8% 96.4% CGCAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
9 Orf_virus_B029 91.8% 81.7% CACAGCGCCGCGCCTGGCTTCTCTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
10 Orf_virus_IHUMI-1 78.5% 70.9% -----
11 Orf_virus_SJ1 77.2% 74.2% -----CTCATCGCCAGCATCGGCCAACGGCTGATGGGCGGCGACGGCATGCGTTCGCGTCCG
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% GTTCGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCCGCGTGGGCGT
2 Orf_virus_D1701 98.3% 88.3% GTTCGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCC-----GCGT
3 Orf_virus_NA1-11 97.9% 87.5% GTTCGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCCGCGTGGGCGT
4 Orf_virus_OV-HN3_12 98.1% 87.2% GTTTGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCCGCGTGGGCGT
5 Orf_virus_OV-IA82 98.6% 88.5% GTTCGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCC-----GCGT
6 Orf_virus_NZ2 98.5% 88.2% GTTCGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCC-----GCGT
7 Orf_virus_YX 98.1% 95.5% GTTCGGCTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCC-----GCGT
8 Orf_virus_GO 98.8% 96.4% GTTCGGCTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCCGCGTGGGCGT
9 Orf_virus_B029 91.8% 81.7% GTTCGGTTGATCGACCAGCTCATGGCCGGACCTCCGGACATCGACGACGAGGCTTCCAGCGCGAGATCCGCGTGGGCGT
10 Orf_virus_IHUMI-1 78.5% 70.9% -----
11 Orf_virus_SJ1 77.2% 74.2% -----GTTsGGsTGATsGACsAGCTCATGGCCGGACsCCGGACATCuACGACGAuGCCTTC
12 Orf_virus_NP 24.1% 23.5% -----GTTcGGsTGATsGACsAGCTCATGGCCGGACsCCGGACATCuACGACGAuGCCTTC
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% GGGCGAGCTCTCCAGGCGCTCCACCGCGTGGTCGAGCAGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
2 Orf_virus_D1701 98.3% 88.3% AGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
3 Orf_virus_NA1-11 97.9% 87.5% GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
4 Orf_virus_OV-HN3_12 98.1% 87.2% GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
5 Orf_virus_OV-IA82 98.6% 88.5% GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
6 Orf_virus_NZ2 98.5% 88.2% GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
7 Orf_virus_YX 98.1% 95.5% -----CAGGCGCTCCACCGCGTGGTCGAGCAGGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
8 Orf_virus_GO 98.8% 96.4% GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA
9 Orf_virus_B029 91.8% 81.7% GGGCGAGCTCTTCCAGGCGCTCCACCGCGTGGTCGAGCAGGACACGCCGAGAGAAGTACTTCGAGGTTTGTGGCGCCAGCA

10 Orf_virus_IHUMI-1 78.5% 70.9% GGGCGAGCTCTCCAGGCGCTCCACCGCGTGGTCGAGCAGGCACGCCAGAGAAGTACTTTCGAGTTTTCGGCGCCAGCA

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 4801

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% ACGACGCCGACGACCCCGTTCGAGGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCTGCGCCCCCTGGCGATCACG

2 Orf_virus_D1701 98.3% 88.3% ACGCGCCGACG---CCGTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCTGCGCCCTTTGTGATCACG

3 Orf_virus_NA1-11 97.9% 87.5% ACGCGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

4 Orf_virus_OV-HN3_12 98.1% 87.2% ACGCGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

5 Orf_virus_OV-IA82 98.6% 88.5% ACGACGCCGACGCGCCCGTTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

6 Orf_virus_NZ2 98.5% 88.2% ACGACGCCGACGCGCCCGTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

7 Orf_virus_YX 98.1% 95.5% ACGACGCCGACGCGCCCGTTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

8 Orf_virus_GO 98.8% 96.4% ACGACGCCGACGCGCCCGTTCGTCGAGATGGACACCGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

9 Orf_virus_B029 91.8% 81.7% ACGACGCCGACGCGCCCGTTCGTCGAGATGGACACTGCGGCCGACCCCGCAGCCCCAGCCCGCGCCCTTCGTTGTCACG

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 4881

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CCACAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

2 Orf_virus_D1701 98.3% 88.3% CCGCAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

3 Orf_virus_NA1-11 97.9% 87.5% CCGCAGAACGCGTTTCGTTGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

4 Orf_virus_OV-HN3_12 98.1% 87.2% CCGCAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

5 Orf_virus_OV-IA82 98.6% 88.5% CCGCAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

6 Orf_virus_NZ2 98.5% 88.2% CCGCAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

7 Orf_virus_YX 98.1% 95.5% CCACAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

8 Orf_virus_GO 98.8% 96.4% CCGCAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

9 Orf_virus_B029 91.8% 81.7% CCGCAGAACGCGTTTCATGTTTCGTCGCCGAAAGCAGCCACGTGCACGTGGACGAGAGCGTGGACCCGTTCTTCGGCATGAG

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 4961

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

2 Orf_virus_D1701 98.3% 88.3% CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

3 Orf_virus_NA1-11 97.9% 87.5% CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

4 Orf_virus_OV-HN3_12 98.1% 87.2% CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

5 Orf_virus_OV-IA82 98.6% 88.5% CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

6 Orf_virus_NZ2 98.5% 88.2% CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

7 Orf_virus_YX 98.1% 95.5% CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

8 Orf_virus_GO 98.8% 96.4% CCCCTCCATCTTCGGGCGCGACATCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

9 Orf_virus_B029 91.8% 81.7% CCCCTCCATCTTCGGGCGCGACCTCCCCCTTCAGCCGCCGAGGAGCTGCTGAGCGACTACGACCCGCTCATGAGCCAGG

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 5041

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCAACGACAGCGACAGCGAT

2 Orf_virus_D1701 98.3% 88.3% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

3 Orf_virus_NA1-11 97.9% 87.5% CCGGCGAACC CGGAGTCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

4 Orf_virus_OV-HN3_12 98.1% 87.2% CTGGCGAAGTCCGAGTCCGCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

5 Orf_virus_OV-IA82 98.6% 88.5% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

6 Orf_virus_NZ2 98.5% 88.2% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

7 Orf_virus_YX 98.1% 95.5% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

8 Orf_virus_GO 98.8% 96.4% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

9 Orf_virus_B029 91.8% 81.7% CCGGCGAGCCCGGAGCCCGGTCGCCCTGCGAGGCCGACCTCTGGTGCCTTCGAGACGCTCGGGGACAGCGACAGCGAT

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 5121

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% TGAGCCTCGCACCTCACCCAC---ACCCTTACCTTACCCCCACCCACCCAAACAC-----CTCAAC

2 Orf_virus_D1701 98.3% 88.3% TGAGCC-TGC-CCCCACCCAC-----ACTCTACCTACCTTACCCCAACAC-----CCC AAC

3 Orf_virus_NA1-11 97.9% 87.5% TGAGCC-CGCACCACACCCACCTCACC-----ACACCCCAA

4 Orf_virus_OV-HN3_12 98.1% 87.2% TGAGCC-CGCACCACACCCACCTCACC-----ACACCCCAA

5 Orf_virus_OV-IA82 98.6% 88.5% TGAGCC-CGCACCACACCCACCTCACCACCCACACTCCACCTCACCTCACCTAACACCAACCCCTAACACCCCAAC

6 Orf_virus_NZ2 98.5% 88.2% TGAGAC-CGCACCACACCTTACCTCACCCACCCACACTCCACCTCACCTCACCTAACAC-----CCAACACCCAAAC

7 Orf_virus_YX 98.1% 95.5% TGAGCCTCGCACCTCACACCA-----AC

8 Orf_virus_GO 98.8% 96.4% TGAGCCTCGCACCTCACACCAACCTTACCTCACCCACACCCACCCACA-----CC AAC

9 Orf_virus_B029 91.8% 81.7% TGAGCC-CGCACCACACCCAC-----ACTCCACCTCACCTCACCTAAC-----CCAACACCCAAAC

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 5201

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% ACCTCGACCCGACAATGAAGGAGTCCACATTTCACT---GGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG

2 Orf_virus_D1701 98.3% 88.3% ACCCCAGCCGGACAATGAAGGAGTCCACATTTCACTGAAGGACGCGGATGAAGCCGCACATCCCCACATGAAGGATTG

3 Orf_virus_NA1-11 97.9% 87.5% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATG-AGCCGCACAT---CCCACATGAAGGATTG

4 Orf_virus_OV-HN3_12 98.1% 87.2% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATG-AGCCGCACAT---CCCACATGAAGGATTG

5 Orf_virus_OV-IA82 98.6% 88.5% ACCTCAACCCGACAATGAAGGAGTCCACATTTCACTGAAGGACGCGGATGAAGCCGCACAT-CCCCACATGAAGGATTG

6 Orf_virus_NZ2 98.5% 88.2% ACCTCAACCCGACAATGAAGGAGTCCACATTTCACTGAAGGACGCGGATGAAGCCGCACAT-TCCCCACATGAAGGATTG

7 Orf_virus_YX 98.1% 95.5% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG

8 Orf_virus_GO 98.8% 96.4% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG

9 Orf_virus_B029 91.8% 81.7% ACCTCAACCCGACAATGAAGGAGTCCACATTTCACT---AAGGACGCGGATGAAGCCGCACAT-CCCCACATGAAGGATTG

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 5280

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% ACCTCGACCCGACAATGAAGGAGTCCACATTTCACT---GGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG

2 Orf_virus_D1701 98.3% 88.3% ACCCCAGCCGGACAATGAAGGAGTCCACATTTCACTGAAGGACGCGGATGAAGCCGCACATCCCCACATGAAGGATTG

3 Orf_virus_NA1-11 97.9% 87.5% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATG-AGCCGCACAT---CCCACATGAAGGATTG

4 Orf_virus_OV-HN3_12 98.1% 87.2% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATG-AGCCGCACAT---CCCACATGAAGGATTG

5 Orf_virus_OV-IA82 98.6% 88.5% ACCTCAACCCGACAATGAAGGAGTCCACATTTCACTGAAGGACGCGGATGAAGCCGCACAT-CCCCACATGAAGGATTG

6 Orf_virus_NZ2 98.5% 88.2% ACCTCAACCCGACAATGAAGGAGTCCACATTTCACTGAAGGACGCGGATGAAGCCGCACAT-TCCCCACATGAAGGATTG

7 Orf_virus_YX 98.1% 95.5% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG

8 Orf_virus_GO 98.8% 96.4% ACCTCAACCCGACAATGAAGGAGTCCACATTTCA---AAGGACGCGGATGAAGCCGCACATCTCCCACATGAAGGATCG

9 Orf_virus_B029 91.8% 81.7% ACCTCAACCCGACAATGAAGGAGTCCACATTTCACT---AAGGACGCGGATGAAGCCGCACAT-CCCCACATGAAGGATTG

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%

consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 5281 3 5360
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% GCCAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCGGATTGGCTTGCACCGACATCGCACAC--A
2 Orf_virus_D1701 98.3% 88.3% G-CAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCGCAATTGGCTTGCACCGACATCGCACACAAA
3 Orf_virus_NA1-11 97.9% 87.5% G-CAACGGTCAAACATTTACCTGCAAAATGAAGGACGATGCGCGGTGCGGATTGGCTTGCACCGACATCGCACACAAA
4 Orf_virus_OV-HN3_12 98.1% 87.2% G-CAACGGTCAAACATTTACCTGCAAAATGAAGGACGATGCGCGGTGCGGATTGGCTTGCACCGACATCGCACACAAA
5 Orf_virus_OV-IA82 98.6% 88.5% G-CAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCG-ATTGGCTTGCACCGACATCGCACAC--A
6 Orf_virus_NZ2 98.5% 88.2% G-CAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCG-ATTGGCTTGCACCGACATCGCACAC--A
7 Orf_virus_YX 98.1% 95.5% G--CACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCGATTGGCTTGCACCGACATCGCACAC--A
8 Orf_virus_GO 98.8% 96.4% G-CAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCGATTGGCTTGCACCGACATCGCACAC--A
9 Orf_virus_B029 91.8% 81.7% G-CAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCG-ATTGGCTTGCACCGACATCGCTCAC--A
10 Orf_virus_IHUMI-1 78.5% 70.9% -----
11 Orf_virus_SJ1 77.2% 74.2% G-CAACGGTCAAACATTTACCTGC--AATGAAGGACGATGCGCGGTGCGATTGGCTTGCACCGACATCGCACAC--A
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 5361 4 5440
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
2 Orf_virus_D1701 98.3% 88.3% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGG-CAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
3 Orf_virus_NA1-11 97.9% 87.5% TGAAGGACACAATTTGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
4 Orf_virus_OV-HN3_12 98.1% 87.2% TGAAGGACACAATTTGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATTA
5 Orf_virus_OV-IA82 98.6% 88.5% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGG-ACACAATCA
6 Orf_virus_NZ2 98.5% 88.2% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTAGAACAATCA
7 Orf_virus_YX 98.1% 95.5% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
8 Orf_virus_GO 98.8% 96.4% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
9 Orf_virus_B029 91.8% 81.7% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
10 Orf_virus_IHUMI-1 78.5% 70.9% -----TTTTGTTAATCAGGACAATTAGAACAATCA
11 Orf_virus_SJ1 77.2% 74.2% TGAAGGACACAATTGGTTTGTAAATCCGGACAATGAAGGACAAATGTTTTTGTAAATCAGGACAATTGGAACACAATCA
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100%
consensus/90%
consensus/80%
consensus/70%

cov pid 5441 5 5520
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% AATTAT-TTTTTGTGCGGTCTATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
2 Orf_virus_D1701 98.3% 88.3% GATTAA-TTTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
3 Orf_virus_NA1-11 97.9% 87.5% GATTAA-TTTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAACTAAATCTCCGGGGA
4 Orf_virus_OV-HN3_12 98.1% 87.2% GATTAA-TTTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
5 Orf_virus_OV-IA82 98.6% 88.5% GATTAA-TTTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
6 Orf_virus_NZ2 98.5% 88.2% AA-----TTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
7 Orf_virus_YX 98.1% 95.5% AATTAT-TTTTTGTGCGGTCTATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
8 Orf_virus_GO 98.8% 96.4% AATTAA-TTTTTGTGCGGTCTATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
9 Orf_virus_B029 91.8% 81.7% AATTAA-TTTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
10 Orf_virus_IHUMI-1 78.5% 70.9% AATTAA-TTTTTGTACGATCATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
11 Orf_virus_SJ1 77.2% 74.2% AATTAA-TTTTTGTGCGGTCTATAAATCGATATTTGATGCACATATATTAGTAAGTATATTAGACTAAATCTCCGGGGA
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100%
consensus/90%
consensus/80%
consensus/70%

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

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

cov pid 5681 7 5760
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CCCCAAACACA---CCGTCCGACTCGGCTCGACGAGTGCACACCAAGCTCGGAAGACGCTGCGGCTTCGAGCACAACG
2 Orf_virus_D1701 98.3% 88.3% CTCCAAACACGTCCTCCCTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
3 Orf_virus_NA1-11 97.9% 87.5% CTCCAAACACGTCCTCCCTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
4 Orf_virus_OV-HN3_12 98.1% 87.2% CTCCAAACACGTCCTCCCTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
5 Orf_virus_OV-IA82 98.6% 88.5% CCCCAAACACA---CAGTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
6 Orf_virus_NZ2 98.5% 88.2% CTCCAAACACGTCCTCCCTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
7 Orf_virus_YX 98.1% 95.5% CCCCAAATTTA---CAGTCCGACTCGGCTCGACGAGTTCGGCACAAAGCTCTGAAGACGAGTGTCTTCGAGCACAACG
8 Orf_virus_GO 98.8% 96.4% CCCCAAACACA---CCGTCCGACTCGGCTCGACGAGTTCGGCACAAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
9 Orf_virus_B029 91.8% 81.7% CTCCAAACACGTCCTCCCTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
10 Orf_virus_IHUMI-1 78.5% 70.9% CTCCAAACACGTCCTCCCTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
11 Orf_virus_SJ1 77.2% 74.2% CCCCAAATTTA---CAGTCCGACTCGGCTCGACGAGTTCGGAACCAAGCTCGGAAGACGCTGTGGCTTCGAGCACAACG
12 Orf_virus_NP 24.1% 23.5% -----
consensus/100%
consensus/90%
consensus/80%

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% GGATCAGATCGGCAACTGTTATTTTGTACGCGCCCGCGCAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
2 Orf_virus_D1701 98.3% 88.3% TTATCCGATCGGCAACCG-TGTTTTGTCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
3 Orf_virus_NA1-11 97.9% 87.5% GGATAAGATTGG----CG-TGTTTT-TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCCGAGAATTAACAGAAATTC
4 Orf_virus_OV-HN3_12 98.1% 87.2% GGATAAGATTGG----CG-TGTTTT-TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCCGAGAATTAACAGAAATTC
5 Orf_virus_OV-IA82 98.6% 88.5% GGATAAGATCGG----CG-TGTTTT-TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCCGAGAATTAACAGAAATTC
6 Orf_virus_NZ2 98.5% 88.2% GGATAAGATCGG----CG-TGTTTT-TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCCGAGAATTAACAGAAATTC
7 Orf_virus_YX 98.1% 95.5% GGATCAGATTGGCAACC--TGTTTTATCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
8 Orf_virus_GO 98.8% 96.4% GGATCAGATCGGCAACC--TGTTTTATCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
9 Orf_virus_B029 91.8% 81.7% GGATCAGATCGG----CG-TGTTTT-TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCCGAGAATTAACAGAAATTC
10 Orf_virus_IHUMI-1 78.5% 70.9% GGATCAGATCGG----CG-TGTTTT-TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCCGAGAATTAACAGAAATTC
11 Orf_virus_SJ1 77.2% 74.2% GGATCAGATCGGCAACTGTTATTTTGTCCCGCCCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
12 Orf_virus_NP 24.1% 23.5% G-----GATCGGCAACC--TGTTTTATCCCGCCCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
consensus/100% s GATsGG s . . TuTTTT . TCsCGCCCGsCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
consensus/90% GsATsGATsGG s . . TuTTTT . TCCCGCCCGsCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
consensus/80% GGATsAGATsGG CG . TGTTTT . TCCCGCCCGsCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC
consensus/70% GGATsAGATCGG CG . TGTTTT . TCCCGCCCGTCCGCGAACATTATGCCTCTAAATGCTGAGAATTAACAGAAATTC

cov pid 6321
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% AACACGCTTTGGGATTCAACTCCGCGGCCACACGCAACCATGGCTGGCTTCTTAGTGCGTTCAGAGGCGTGTGCTCCG
2 Orf_virus_D1701 98.3% 88.3% AACACGCTTTGGGGTTCAACTCCGTGACCCACA--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCGC
3 Orf_virus_NA1-11 97.9% 87.5% AACACGCTTTGGGACTCAACTCTGTGGCCACA--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCTG
4 Orf_virus_OV-HN3_12 98.1% 87.2% AACACGCTTTGGGACTCAACTCTGTGGCCACA--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCTG
5 Orf_virus_OV-IA82 98.6% 88.5% AACACGCTTTGGGACTCAACTCTGTGGCCACA--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCTG
6 Orf_virus_NZ2 98.5% 88.2% AACACGCTTTGGGACTCAACTCCGTGACCCACA--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCTG
7 Orf_virus_YX 98.1% 95.5% AACACGCTTTGGGATTCAACTCCGCGGCCACACGCAACCATGGCTGGCTTCTTAGTGCGTTCAGAGGCGTGTGCTCCG
8 Orf_virus_GO 98.8% 96.4% AACACGCTTTGGGATTCAACTCCGCGGCCACACGCAACCATGGCTGGCTTCTTAGTGCGTTCAGAGGCGTGTGCTCCG
9 Orf_virus_B029 91.8% 81.7% AACACGCTTTGGGACTCAACTCTGTGGCCACT--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCCG
10 Orf_virus_IHUMI-1 78.5% 70.9% AACACGCTTTGGGACTCAACTCTGTGGCCACA--CAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCCG
11 Orf_virus_SJ1 77.2% 74.2% AACACGCTTTGGGACTCAACTCCGCGGCCACACGCAACCATGGCTGGCTTCTTAGTGCGTTCAGAGGCGTGTGCTCCG
12 Orf_virus_NP 24.1% 23.5% AACACGCTTTGGGATTCAACTCTGCGGCCACACGCAACCATGGCTGGCTTCTTAGGCGGTTTCAGAGGCGTGTGCTCAG
AACACGCTTTGGGusTCAACTCsGsGuCCCACs . . CAACCATGGCTGGCTTCTTAGGsGcuTTCAGAGGCGTGTGsTsSg
AACACGCTTTGGGAsTCAACTCsGsGuCCCACA . . CAACCATGGCTGGCTTCTTAGGsGCGTTCAGAGGCGTGTGCTCsG
AACACGCTTTGGGAsTCAACTCsGsGGCCACA . . CAACCATGGCTGGCTTCTTAGGsGCGTTCAGAGGCGTGTGCTCsG
AACACGCTTTGGGAsTCAACTCsGsGGCCACA . . CAACCATGGCTGGCTTCTTAGGsGCGTTCAGAGGCGTGTGCTCCG

cov pid 6401
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% AAATATGGCAGTCGCTCCGTGGACACGGACACCACCCTCTTCCAAGTCCGCGACGACGCGCCAACAGCATGGACGAG
2 Orf_virus_D1701 98.3% 88.3% AAATATGGCAGTCGCTCCGTGGACACGGACACCACCCTCTTCCAAGTCCGCGACGACGCGCCAATAGCGTGGACGAC
3 Orf_virus_NA1-11 97.9% 87.5% ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCCTCTTC---CTGCCCGGACGACGCGCCAACAGCATGGACGAC
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCCTCTTC---CTGCCCGGACGACGCGCCAACAGCATGGACGAC
5 Orf_virus_OV-IA82 98.6% 88.5% ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCCTCTTC---CTGCCCGGACGACGCGCCAACAGCATGGACGAC
6 Orf_virus_NZ2 98.5% 88.2% ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCCTCTTC---CTGCCCGGACGACGCGCCAACAGCATGGACGAC
7 Orf_virus_YX 98.1% 95.5% AAATATGGCAGTCGCTCCGTGGACACGGACACCACCCTCTTCCAAGTCCGCGACGACGCGCCAACAGCGTGGACGAA
8 Orf_virus_GO 98.8% 96.4% AAATATGGCAGTCGCTCCGTGGACACGGACACCACCCTCTTCCAAGTCCGCGACGACGCGCCAACAGCGTGGACGAA
9 Orf_virus_B029 91.8% 81.7% ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCCTCTTC---CTGCCCGGACGACGCGCCAACAGCATGGACGAC
10 Orf_virus_IHUMI-1 78.5% 70.9% ACTTATGGCAGTCGCTCCGTGGACACGGA---CACCCTCTTC---CTGCCCGGACGACGCGCCAACAGCATGGACGAC
11 Orf_virus_SJ1 77.2% 74.2% AAATATGGCAGTCGCTCCGTGGACACGGACACCACCCTCTTCCAAGTCCGCGACGACGCGCCAACAGCATGGACGAG
12 Orf_virus_NP 24.1% 23.5% AAATATGGCAATCGCTCCGTGGACACGGACACCACCCTCTTCCAAGTCCGCGACGACGCGCCAACAGCGTGGACGAA
AssTATGGCAuTCGCTCCGTGGACAsGGA . . CACCCTCsTC . . CTGsCCGCGACuACGCGCCAAsAGCuTGGACGAs
AssTATGGCAGTCGCTCCGTGGACACGGA . . CACCCTCsTC . . CTGCCCGGACGACGCGCCAACAGCuTGGACGAs
AssTATGGCAGTCGCTCCGTGGACACGGA . . CACCCTCTTCAuTCGCGCGACGACGCGCCAACAGCuTGGACGAs
AssTATGGCAGTCGCTCCGTGGACACGGA . . CACCCTCTTCAuTCGCGCGACGACGCGCCAACAGCuTGGACGAs

cov pid 6481
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCGACAGCTCGGCGTTCGCTGAACCGGACCTGATGCCGCG
2 Orf_virus_D1701 98.3% 88.3% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCGACAGCTCGGCGTTCGCTGAACCGGACCTGATGCCGCG
3 Orf_virus_NA1-11 97.9% 87.5% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCAACAGCTCGGCGTTCGCTGAACAGCGACCCGATGCCGCA
4 Orf_virus_OV-HN3_12 98.1% 87.2% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCAACAGCTCGGCGTTCGCTGAACAGCGACCCGATGCCGCA
5 Orf_virus_OV-IA82 98.6% 88.5% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCAACAGCTCGGCGTTCGCTGAACAGCGACCCGATGCCGCG
6 Orf_virus_NZ2 98.5% 88.2% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCAACAGCTCGGCGTTCGCTGAACAGCGACCCGATGCCGCA
7 Orf_virus_YX 98.1% 95.5% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCGACAGCTCGGCGTTCGCTGAACCGGACCTGATGCCGCG
8 Orf_virus_GO 98.8% 96.4% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCGACAGCTCGGCGTTCGCTGAACCGGACCTGATGCCGCG
9 Orf_virus_B029 91.8% 81.7% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCAACAGCTCGGCGTTCGCTGAACAGCGACCCGATGCCGCG
10 Orf_virus_IHUMI-1 78.5% 70.9% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCAACAGCTCGGCGTTCGCTGAACAGCGACCCGATGCCGCG
11 Orf_virus_SJ1 77.2% 74.2% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCGACAGCTCGGCGTTCGCTGAACCGGACCTGATGCCGCG
12 Orf_virus_NP 24.1% 23.5% CGCGACCGGGCCGGCACCGCCACC-----GCGAGATCCCCGACAGCTCGGCGTTCGCTGAACCGGACCTGATGCCGCG
CGCGACCGGGCCGGCuCuCGCCACC GCGAGATCCCCuACAGCTCusGTCGCTGAACsGCGACCsGATGCCGCGs
CGCGACCGGGCCGGCuCACCGCCACC GCGAGATCCCCuACAGCTCGGCGTTCGCTGAACsGCGACCsGATGCCGCGs
CGCGACCGGGCCGGCuCACCGCCACC GCGAGATCCCCuACAGCTCGGCGTTCGCTGAACsGCGACCsGATGCCGCGu
CGCGACCGGGCCGGCACCGCCACC GCGAGATCCCCuACAGCTCGGCGTTCGCTGAACsGCGACCsGATGCCGCGu

cov pid 6561
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% ACGCAGTGCAGGGCGCGTCCGGCACCACGACCGCTGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
2 Orf_virus_D1701 98.3% 88.3% ACGCAGTGCAGGGCGCGCT---CACTACGACCGCTGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
3 Orf_virus_NA1-11 97.9% 87.5% ACGCAGTGCAGGGTGCAGCGCCGACTACGAATGCCGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACGCAGTGCAGGGTGCAGCGCCGACTACGAATGCCGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
5 Orf_virus_OV-IA82 98.6% 88.5% ACGCAGTGCAGGGTGCAGCGCCGACTACGACTGCCGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
6 Orf_virus_NZ2 98.5% 88.2% ACGCAGTGCAGGGTGCAGCGCCGACTACGACTGCCGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
7 Orf_virus_YX 98.1% 95.5% ACGCAGTGCAGGGCGCGTCCGGCACCACGACCGCTGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
8 Orf_virus_GO 98.8% 96.4% ACGCAGTGCAGGGCGCGTCCGGCACCACGACCGCTGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
9 Orf_virus_B029 91.8% 81.7% ACGCAGTGCAGGGTGCAGCGCCGACTACGACTGCCGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
10 Orf_virus_IHUMI-1 78.5% 70.9% ACGCAGTGCAGGGTGCAGCGCCGACTACGACTGCCGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
11 Orf_virus_SJ1 77.2% 74.2% ACGCAGTGCAGGGCGCGTCCGGCACCACGACCGCTGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
12 Orf_virus_NP 24.1% 23.5% ACGCAGTGCAGGGCGCGTCCGGCACCACGACCGCTGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG-----
ACGCAGTGCAGGGsGCGCs . . CACsACGAsGCGsGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGuG
ACGCAGTGCAGGGsGCGCsCCGuCACsACGAsGCGsGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGuG
ACGCAGTGCAGGGsGCGCsCCGuCACsACGAsGCGsGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG
ACGCAGTGCAGGGsGCGCsCCGGCACsACGAsGCGsGCCCTCGGAAAAGAGCAGACACTCCTCCGACAGG

cov pid 6641
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
2 Orf_virus_D1701 98.3% 88.3% -----CACCGCTCGGCGGACCAGACCAACTCGGCGGACAGGGACCAACACCGTTCGCGGTTCGCAAGAATACGACTCG
3 Orf_virus_NA1-11 97.9% 87.5% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
4 Orf_virus_OV-HN3_12 98.1% 87.2% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
5 Orf_virus_OV-IA82 98.6% 88.5% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
6 Orf_virus_NZ2 98.5% 88.2% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
7 Orf_virus_YX 98.1% 95.5% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
8 Orf_virus_GO 98.8% 96.4% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
9 Orf_virus_B029 91.8% 81.7% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
10 Orf_virus_IHUMI-1 78.5% 70.9% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
11 Orf_virus_SJ1 77.2% 74.2% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
12 Orf_virus_NP 24.1% 23.5% -----CACCGCTCGGCGGACCAGACCAATCGGCGGACAGGGACCGACACCGCGCGGTTCGCAAGAATACGACTCG
. CACCuCTCGGCGGACCAGACCAAsTCuGCGGACAGuGAssuACACCGsCGCuGTCGCAAGuAACACGACTCG
. CACCuCTCGGCGGACCAGACCAAsTCGCGGACAGGGAsGACACCGsCGCuGTCGCAAGuAACACGACTCG
. CACCuCTCGGCGGACCAGACCAATCGGCGGACAGGGAsGACACCGsCGCuGTCGCAAGuAACACGACTCG
. CACCuCTCGGCGGACCAGACCAATCGGCGGACAGGGAsGACACCGsCGCuGTCGCAAGuAACACGACTCG

cov pid 6721
1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CACCCGTCGCGCAAGAACCAGACTACGAGCGGGCAGACTACAGGGATACCCCTCACAAACCCACCCAGACGCCCGCGC
2 Orf_virus_D1701 98.3% 88.3% CACCCGTCGCGCAAGAACCAGACTACGAGCGGGCAGACTACCAAGACACCCCTCTCAAACCCACCCAGACGCCCGCGC
3 Orf_virus_NA1-11 97.9% 87.5% CACCCGTCGCGCAGGAACCAGACTACGAGCGGGAGACTACAGAGACACCCCTCACAAACCCACCCA---GCCCGCGC

4 Orf_virus_OV-HN3_12 98.1% 87.2% CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGGAAAGACTACAGAGACACCCCTCACAAAACCCACCCA---GCCCCCGC
5 Orf_virus_OV-IA82 98.6% 88.5% CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGGCGGACTACCAGAGACATCCCTCACAGACCCACCCAGAGCCCCCGC
6 Orf_virus_NZ2 98.5% 88.2% CACCCGTCGCGCAGGAACCGCAACTACGAGCGGGGCGGACTACCAGAGACACCCCTCACAAAACCCACCCAGACGCCCCCGC
7 Orf_virus_YX 98.1% 95.5% CACCCGTCGCGCAAGAACCAGCAACTACGAGCGGGGAGACTACCAGGGACACCCCTCACAAAACCCACCCAGACGCCCCCGC
8 Orf_virus_GO 98.8% 96.4% CACCCGTCGCGCAAGAACCAGCAACTACGAGCGGGGCGGACTACCAGAAACATCCCTCACAGACCCACCCAGAGCCCCCGC
9 Orf_virus_B029 91.8% 81.7% CACTCGACGCGCAGGAACCGCAACTACGAGCGGGGCGGACTACCAGAAACATCCCTCACAGACCCACCCAGAGCCCCCGC
10 Orf_virus_IHUMI-1 78.5% 70.9% CACC---CGCGCAGGAACCGCAACTACGAGCGGGTAGACTACCAGAGACATCCCTCACAGACCCGCCAGAGCCCCCGC
11 Orf_virus_SJ1 77.2% 74.2% CACCCGTCGCGCAAGAACCAGCAACTACGAGCGGGGCGGACTACCAGGGATACCCCTCACAAAACCCACCCAGACGCCCCCGC
12 Orf_virus_NP 24.1% 23.5% CACCCGTCGCGCAAGAACCAGCAACTACGAGCGGGGCGGACTACCAGGGACACCCCTCACAAAACCCACCCAGACGCCCCCGC
consensus/100% CACs . . . CGCGCAuGAACCGCuAsACGAGCGGGsuGACTACCAuuuAsAsCCCTCsAuAsCCuCCCA . . . GCCCCCGC
consensus/90% CACCCGsCGCGCAuGAACCGCuACTACGAGCGGGsuGACTACCAuGAsAsCCCTCACAAACCCCA . . . GCCCCCGC
consensus/80% CACCCGTCGCGCAuGAACCGCAACTACGAGCGGGsuGACTACCAGuGACAsCCCTCACAuACCCACCCAGAsGCCCCCGC
consensus/70% CACCCGTCGCGCAuGAACCGCAACTACGAGCGGGGCGGACTACCAGuGACACCCCTCACAAAACCCACCCAGAsGCCCCCGC

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCTGACC 6801
2 Orf_virus_D1701 98.3% 88.3% GCAGACCTCGACGCTCAAAGTGAAGTTCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
3 Orf_virus_NA1-11 97.9% 87.5% GCAGACTTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
4 Orf_virus_OV-HN3_12 98.1% 87.2% GCAGACTTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
5 Orf_virus_OV-IA82 98.6% 88.5% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
6 Orf_virus_NZ2 98.5% 88.2% GCAGACCTCGACGCTCAAGGTGACCTCCCTAAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
7 Orf_virus_YX 98.1% 95.5% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACACCACTACGAGACCCCGACC
8 Orf_virus_GO 98.8% 96.4% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACAsCACTACGAGACCCCGACC
9 Orf_virus_B029 91.8% 81.7% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
10 Orf_virus_IHUMI-1 78.5% 70.9% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
11 Orf_virus_SJ1 77.2% 74.2% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
12 Orf_virus_NP 24.1% 23.5% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
consensus/100% GCAGAsTTCGACGCTCAAuGTGACCTCCCTsAGCACsAGTGCAGCACCCCTGTCCsAACAsCACTACGAGACCCCsGACC
consensus/90% GCAGACsTCGACGCTCAAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACAsCACTACGAGACCCCGACC
consensus/80% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC
consensus/70% GCAGACCTCGACGCTCAAGGTGACCTCCCTCAGCACCAGTGCAGCACCCCTGTCCCAACATCACTACGAGACCCCGACC

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% ACGTCTACGACGCTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG 6881
2 Orf_virus_D1701 98.3% 88.3% ACATCTACGACGCTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
3 Orf_virus_NA1-11 97.9% 87.5% ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
4 Orf_virus_OV-HN3_12 98.1% 87.2% ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
5 Orf_virus_OV-IA82 98.6% 88.5% ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
6 Orf_virus_NZ2 98.5% 88.2% ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
7 Orf_virus_YX 98.1% 95.5% ACGTCTACGACGCTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
8 Orf_virus_GO 98.8% 96.4% ACATCTACGACGCTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
9 Orf_virus_B029 91.8% 81.7% ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTTGGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
10 Orf_virus_IHUMI-1 78.5% 70.9% ACATCTACGACATCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
11 Orf_virus_SJ1 77.2% 74.2% CCGTCTACGACGCTCCCGGAAGACAGTCGCGGGGCGTCGCTCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
12 Orf_virus_NP 24.1% 23.5% ACGTCTACGACGCTCCCGGAAGACAGTCGCGGGGCGTCGCCCCCCTTGCGGGACCTTGCCTCCCCCGCTCGCCATG
consensus/100% sCuTCTACGACuTCCCGGAAGACuGTGCGGGGCGTsGssCCCCsTsGCGGGACCTTsGCGTsCCCCCGCTCGCCATG
consensus/90% ACuTCTACGACuTCCCGGAAGACAGTCGCGGGGCGTCGssCCCCsTsGCGGGACCTTsGCGTsCCCCCGCTCGCCATG
consensus/80% ACuTCTACGACuTCCCGGAAGACAGTCGCGGGGCGTCGssCCCCCTsGCGGGACCTTsGCGTCCCCCGCTCGCCATG
consensus/70% ACuTCTACGACuTCCCGGAAGACAGTCGCGGGGCGTCGssCCCCCTsGCGGGACCTTsGCGTCCCCCGCTCGCCATG

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CCCAACTCCAAGCCCTCGCGCCGATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGTGGCGCCAGCAAACC 7040
2 Orf_virus_D1701 98.3% 88.3% CCCAACTCCAAGCCCTCGCGCCGCTGCGCCCGGCGTCCATGAACGACTGCCGATAAAGCACTGCGGGCGCCAGCAGACC
3 Orf_virus_NA1-11 97.9% 87.5% CCAAAATCCAAGCACCCGCGCCGATGCGCCCGGCTTCCATGAACGACTGCCTGATGACGCACCGGCGCCGGCAAACC
4 Orf_virus_OV-HN3_12 98.1% 87.2% CCAAAATCCAAGCACCCGCGCCGATGCGCCCGGCTTCCATGAACGACTGCCTGATGACGCACCGGCGCCGGCAAACC
5 Orf_virus_OV-IA82 98.6% 88.5% CCCAAATCCAAG---CCGCGCCGACGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGGCGCCGGCAGACC
6 Orf_virus_NZ2 98.5% 88.2% CCCAAATCCAAG---CCGCGTCGACGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGGCGCCGGCAGACC
7 Orf_virus_YX 98.1% 95.5% CCCAACTCCAAGCCCTCGCGCCGATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGCGGGCGCCAGCAAACC
8 Orf_virus_GO 98.8% 96.4% CCCAACTCCAAGCCCTCGCGCCGATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGCGGGCGCCAGCAAACC
9 Orf_virus_B029 91.8% 81.7% CCCAAATCCAAG---CCGCGCCGATGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGGCGCCGGCAGACC
10 Orf_virus_IHUMI-1 78.5% 70.9% CCCAAATCCAAG---CCGCGCCGACGCGCCCGGCGTCCATGAACGACTGCCTGATGAAGCACTGCGGGCGCCGGCAGACC
11 Orf_virus_SJ1 77.2% 74.2% CCCAACTCTAAGCCCTCGCGCCGATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGTGGTGCCAGCAAACC
12 Orf_virus_NP 24.1% 23.5% CCCAACTCCAAGCCCTCGCGCCGATGCGCCCGGCGTCCATGAGCGACTTCCCAATGAAGCACTGCGGGCGCCAGCAAACC
consensus/100% CCsAASTCsAAG . . . sCGGCSCGCuSgCGCCCuGsTCCATGAuCGACTsCCsuATuAsGCACsGsGGsGCCuGCAuACC
consensus/90% CCsAASTCCAAG . . . sCGGCGCGAsGCGCCCGGCGTCCATGAuCGACTsCCsuATGAsGCACsGsGGCGCCuGCAuACC
consensus/80% CCCAASTCCAAG . . . sCGGCGCGAsGCGCCCGGCGTCCATGAuCGACTsCCsuATGAAGCACTGCGGGCGCCuGCAuACC
consensus/70% CCCAASTCCAAG . . . sCGGCGCGATGCGCCCGGCGTCCATGAuCGACTsCCsuATGAAGCACTGCGGGCGCCuGCAuACC

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CAACCTCCAAGACGACATATGCACACTATGCACTGATATAGAGACACAACCTGAGTGCCTAGAGAAGTCTCTGGAGTCAG 7041
2 Orf_virus_D1701 98.3% 88.3% CAACCTCCAAGACGACATATGCACACTATGCACTGATATAGAGACACAGCTGAGTGCCTAGAGAAGTCTCTGGAGTCAG
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% CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCCTAGAGAAGTCTCTGGAGTCAG
8 Orf_virus_GO 98.8% 96.4% CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCCTAGAGAAGTCTCTGGAGTCAG
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% CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCCTAGAGAAGTCTCTGGAGTCAG
12 Orf_virus_NP 24.1% 23.5% CAACCTCCAAGACGACATATGCACACTATGTACTGATATAGAGACACAGCTGAGTGCCTAGAGAAGTCTCTGGAGTCAG
consensus/100% CAACCTCCAuuCGAsATATGCACACTuTsACTGATATAGAGACACuTGAGsGCACTAGAGAAGTCTCTGGAGTCAG
consensus/90% CAACCTCCAAGACGsATATGCACACTATGsACTGATATAGAGACACAGCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG
consensus/80% CAACCTCCAAGACGACATATGCACACTATGsACTGATATAGAGACACAGCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG
consensus/70% CAACCTCCAAGACGACATATGCACACTATGsACTGATATAGAGACACAGCTGAGsGCACTAGAGAAGTCTCTGGAGTCAG

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT 7120
2 Orf_virus_D1701 98.3% 88.3% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
3 Orf_virus_NA1-11 97.9% 87.5% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
4 Orf_virus_OV-HN3_12 98.1% 87.2% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
5 Orf_virus_OV-IA82 98.6% 88.5% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACCTTGTCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
6 Orf_virus_NZ2 98.5% 88.2% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
7 Orf_virus_YX 98.1% 95.5% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
8 Orf_virus_GO 98.8% 96.4% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
9 Orf_virus_B029 91.8% 81.7% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
10 Orf_virus_IHUMI-1 78.5% 70.9% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACATTGCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
11 Orf_virus_SJ1 77.2% 74.2% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACACTACTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
12 Orf_virus_NP 24.1% 23.5% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuTCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
consensus/100% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuTCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
consensus/90% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuTCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
consensus/80% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuTCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT
consensus/70% AGTCAACTTCTATCGTCGCTACATACAAGACACTAAGACAsTuTCTCGCCACGCGAGCAGCAAACATCGGCAGCAAAGCT

1 Orf_virus_OV-SA00_NC_005336.1_115015-122053 100.0% 100.0% CTGATCTACACCAACGACTACAACAACAGTGGCAACGTCGGCGAAGAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGG 7201
2 Orf_virus_D1701 98.3% 88.3% CTGATCTACACCAACGACTACAACGACAGTGGCAACGTCGTGAAAAGGAGCACTGCTCGGAGGAGTGCTGCAAGTGG 7280
3 Orf_virus_NA1-11 97.9% 87.5% CTGATCTACACCGACGACTACAACGACAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGG 7280
4 Orf_virus_OV-HN3_12 98.1% 87.2% CTGATCTACACCGACGACTACAACGACAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGG 7280
5 Orf_virus_OV-IA82 98.6% 88.5% CTGATCTACACCGACGACTACAACGGCAGTGGCAACGTCGGCGAAGGGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGG 7280
6 Orf_virus_NZ2 98.5% 88.2% CTGATCTACACCGACGACTACAACGGCAGTGGCGAGCTCGGCGAAAAGGAGCACTGCTCGGAGGAGTGCTGCAAAGTGG 7280

