

Serotype: O Report date: 07/06/2006
WRL Ref No: HKN/17/2005
Sender Ref: FMD 09/05 D-05-497 (1)
Date collected: 04/07/2005
Date received by WRLFMD: 14/04/2006 Topotype: Cathay
Date received for sequencing: 04/05/2006 Genotype/strain: none
Species: Pig Sequence filename: HKN05-17.SEQ
Material used: RS1 Date sequence last updated: 24/05/2006
Region sequenced: VP1 Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61 Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 54 days
No. of ambiguities: 0 Sequencing time: 34 days
Gene length: 639

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/18/2005	HKN05-18	639	635	0	99.37	0.63
2	O/HKN/20/2005	HKN05-20	639	634	0	99.22	0.78
3	O/HKN/14/2005	HKN05-14	639	633	0	99.06	0.94
4	O/HKN/25/2005	HKN05-25	639	632	0	98.9	1.1
5	O/HKN/12/2005	HKN05-12	639	632	0	98.9	1.1
6	O/HKN/9/2004	HKN04-09	639	632	0	98.9	1.1
7	O/HKN/19/2005	HKN05-19	639	631	0	98.75	1.25
8	O/HKN/12/2004	HKN04-12	639	631	0	98.75	1.25
9	O/HKN/1/2006	HKN06-01	639	630	0	98.59	1.41
10	O/HKN/9/2005	HKN05-09	639	630	0	98.59	1.41

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	590	0	92.33	7.67
2	O/HKN/6/83	HKN83-06	637	553	2	86.81	13.19
3	O/IND/53/79 [AF292107]	IND79A53	639	525	0	82.16	17.84
4	O/TAW/2/99	TAW99-02	639	517	0	80.91	19.09
5	O1/Manisa/TUR/69	TUR69--E	639	515	0	80.59	19.41
6	O/ISR/2/88	ISR88-02	639	514	0	80.44	19.56
7	O/MOR/1/91	MOR91-01	639	512	0	80.13	19.87
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
9	O/IND/R2/75* [AF204276]	IND75--A	639	504	0	78.87	21.13
10	O1/BFS 1860/UK/67	UKG67--A	639	495	0	77.46	22.54

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: HKN/18/2005
Sender Ref: FMD 09/05 D-05-497 (2)
Date collected: 04/07/2005
Date received by WRLFMD: 14/04/2006
Date received for sequencing: 04/05/2006
Species: Pig
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 07/06/2006
Topotype: Cathay
Genotype/strain: none
Sequence filename: HKN05-18.SEQ
Date sequence last updated: 19/05/2006
Total no. of comparisons: 1847
Min. no. of nt for comparison: 300
Total turn-around time: 54 days
Sequencing time: 34 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/20/2005	HKN05-20	639	637	0	99.69	0.31
2	O/HKN/9/2004	HKN04-09	639	635	0	99.37	0.63
3	O/HKN/25/2005	HKN05-25	639	635	0	99.37	0.63
4	O/HKN/17/2005	HKN05-17	639	635	0	99.37	0.63
5	O/HKN/19/2005	HKN05-19	639	634	0	99.22	0.78
6	O/HKN/14/2005	HKN05-14	639	634	0	99.22	0.78
7	O/HKN/12/2004	HKN04-12	639	634	0	99.22	0.78
8	O/HKN/12/2005	HKN05-12	639	633	0	99.06	0.94
9	O/HKN/24/2005	HKN05-24	639	633	0	99.06	0.94
10	O/HKN/3/2004	HKN04-03	639	632	0	98.9	1.1

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	594	0	92.96	7.04
2	O/HKN/6/83	HKN83-06	637	557	2	87.44	12.56
3	O/IND/53/79 [AF292107]	IND79A53	639	523	0	81.85	18.15
4	O/TAW/2/99	TAW99-02	639	517	0	80.91	19.09
5	O1/Manisa/TUR/69	TUR69--E	639	515	0	80.59	19.41
6	O/ISR/2/88	ISR88-02	639	514	0	80.44	19.56
7	O/MOR/1/91	MOR91-01	639	512	0	80.13	19.87
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
9	O/IND/R2/75* [AF204276]	IND75--A	639	504	0	78.87	21.13
10	O1/BFS 1860/UK/67	UKG67--A	639	498	0	77.93	22.07

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006						
WRL Ref No: HKN/19/2005							
Sender Ref: FMD 09/05 D-05-497 (3)							
Date collected: 04/07/2005	Topotype: Cathay						
Date received by WRLFMD: 14/04/2006	Genotype/strain: none						
Date received for sequencing: 04/05/2006	Sequence filename: HKN05-19.SEQ						
Species: Pig	Date sequence last updated: 19/05/2006						
Material used: RS1	Total no. of comparisons: 1847						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/NK61	Total turn-around time: 54 days						
No. of Nt determined: 639	Sequencing time: 34 days						
No. of ambiguities: 0							
Gene length: 639							
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/20/2005	HKN05-20	639	636	0	99.53	0.47
2	O/HKN/18/2005	HKN05-18	639	634	0	99.22	0.78
3	O/HKN/25/2005	HKN05-25	639	632	0	98.9	1.1
4	O/HKN/9/2004	HKN04-09	639	632	0	98.9	1.1
5	O/HKN/14/2005	HKN05-14	639	631	0	98.75	1.25
6	O/HKN/17/2005	HKN05-17	639	631	0	98.75	1.25
7	O/HKN/12/2004	HKN04-12	639	631	0	98.75	1.25
8	O/HKN/12/2005	HKN05-12	639	630	0	98.59	1.41
9	O/HKN/9/2005	HKN05-09	639	630	0	98.59	1.41
10	O/HKN/24/2005	HKN05-24	639	630	0	98.59	1.41
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	589	0	92.18	7.82
2	O/HKN/6/83	HKN83-06	637	552	2	86.66	13.34
3	O/IND/53/79 [AF292107]	IND79A53	639	521	0	81.53	18.47
4	O/TAW/2/99	TAW99-02	639	514	0	80.44	19.56
5	O/ISR/2/88	ISR88-02	639	512	0	80.13	19.87
6	O1/Manisa/TUR/69	TUR69--E	639	511	0	79.97	20.03
7	O/MOR/1/91	MOR91-01	639	510	0	79.81	20.19
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	510	0	79.81	20.19
9	O/IND/R2/75* [AF204276]	IND75--A	639	502	0	78.56	21.44
10	O1/BFS 1860/UK/67	UKG67--A	639	494	0	77.31	22.69
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: HKN/20/2005
Sender Ref: FMD 09/05 d-05-497 (4)
Date collected: 04/07/2005
Date received by WRLFMD: 14/04/2006
Date received for sequencing: 04/05/2006
Species: Pig
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 07/06/2006
Topotype: Cathay
Genotype/strain: none
Sequence filename: HKN05-20.SEQ
Date sequence last updated: 24/05/2006
Total no. of comparisons: 1847
Min. no. of nt for comparison: 300
Total turn-around time: 54 days
Sequencing time: 34 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/18/2005	HKN05-18	639	637	0	99.69	0.31
2	O/HKN/19/2005	HKN05-19	639	636	0	99.53	0.47
3	O/HKN/25/2005	HKN05-25	639	635	0	99.37	0.63
4	O/HKN/9/2004	HKN04-09	639	635	0	99.37	0.63
5	O/HKN/14/2005	HKN05-14	639	634	0	99.22	0.78
6	O/HKN/17/2005	HKN05-17	639	634	0	99.22	0.78
7	O/HKN/12/2004	HKN04-12	639	634	0	99.22	0.78
8	O/HKN/12/2005	HKN05-12	639	633	0	99.06	0.94
9	O/HKN/9/2005	HKN05-09	639	633	0	99.06	0.94
10	O/HKN/24/2005	HKN05-24	639	633	0	99.06	0.94

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	592	0	92.64	7.36
2	O/HKN/6/83	HKN83-06	637	555	2	87.13	12.87
3	O/IND/53/79 [AF292107]	IND79A53	639	522	0	81.69	18.31
4	O/TAW/2/99	TAW99-02	639	515	0	80.59	19.41
5	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
6	O/ISR/2/88	ISR88-02	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	639	511	0	79.97	20.03
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	511	0	79.97	20.03
9	O/IND/R2/75* [AF204276]	IND75--A	639	503	0	78.72	21.28
10	O1/BFS 1860/UK/67	UKG67--A	639	496	0	77.62	22.38

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O Report date: 07/06/2006
WRL Ref No: HKN/22/2005
Sender Ref: FMD 11/05 D-05-1588 (1)
Date collected: 15/11/2005
Date received by WRLFMD: 14/04/2006 Topotype: Cathay
Date received for sequencing: 04/05/2006 Genotype/strain: none
Species: Pig Sequence filename: HKN05-22.SEQ
Material used: RS1 Date sequence last updated: 24/05/2006
Region sequenced: VP1 Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61 Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 54 days
No. of ambiguities: 0 Sequencing time: 34 days
Gene length: 639

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/23/2005	HKN05-23	639	639	0	100	0
2	O/HKN/24/2005	HKN05-24	639	636	0	99.53	0.47
3	O/HKN/3/2006	HKN06-03	639	635	0	99.37	0.63
4	O/HKN/4/2006	HKN06-04	639	635	0	99.37	0.63
5	O/HKN/2/2006	HKN06-02	639	635	0	99.37	0.63
6	O/HKN/5/2006	HKN06-05	639	634	0	99.22	0.78
7	O/HKN/25/2005	HKN05-25	639	634	0	99.22	0.78
8	O/HKN/1/2006	HKN06-01	639	634	0	99.22	0.78
9	O/HKN/18/2005	HKN05-18	639	632	0	98.9	1.1
10	O/HKN/20/2005	HKN05-20	639	632	0	98.9	1.1

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	589	0	92.18	7.82
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	523	0	81.85	18.15
4	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
5	O/ISR/2/88	ISR88-02	639	514	0	80.44	19.56
6	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	639	512	0	80.13	19.87
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
9	O/IND/R2/75* [AF204276]	IND75--A	639	505	0	79.03	20.97
10	O1/BFS 1860/UK/67	UKG67--A	639	497	0	77.78	22.22

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O Report date: 07/06/2006
WRL Ref No: HKN/23/2005
Sender Ref: FMD 11/05 D-05-1588 (2)
Date collected: 15/11/2005
Date received by WRLFMD: 14/04/2006 Topotype: Cathay
Date received for sequencing: 04/05/2006 Genotype/strain: none
Species: Pig Sequence filename: HKN05-23.SEQ
Material used: RS1 Date sequence last updated: 24/05/2006
Region sequenced: VP1 Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61 Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 54 days
No. of ambiguities: 0 Sequencing time: 34 days
Gene length: 639

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/22/2005	HKN05-22	639	639	0	100	0
2	O/HKN/24/2005	HKN05-24	639	636	0	99.53	0.47
3	O/HKN/3/2006	HKN06-03	639	635	0	99.37	0.63
4	O/HKN/4/2006	HKN06-04	639	635	0	99.37	0.63
5	O/HKN/2/2006	HKN06-02	639	635	0	99.37	0.63
6	O/HKN/5/2006	HKN06-05	639	634	0	99.22	0.78
7	O/HKN/25/2005	HKN05-25	639	634	0	99.22	0.78
8	O/HKN/1/2006	HKN06-01	639	634	0	99.22	0.78
9	O/HKN/18/2005	HKN05-18	639	632	0	98.9	1.1
10	O/HKN/20/2005	HKN05-20	639	632	0	98.9	1.1

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	589	0	92.18	7.82
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	523	0	81.85	18.15
4	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
5	O/ISR/2/88	ISR88-02	639	514	0	80.44	19.56
6	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	639	512	0	80.13	19.87
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
9	O/IND/R2/75* [AF204276]	IND75--A	639	505	0	79.03	20.97
10	O1/BFS 1860/UK/67	UKG67--A	639	497	0	77.78	22.22

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006
WRL Ref No: HKN/24/2005	
Sender Ref: FMD 12/05 D-05-1747 (1)	
Date collected: 21/11/2005	
Date received by WRLFMD: 14/04/2006	Topotype: Cathay
Date received for sequencing: 04/05/2006	Genotype/strain: none
Species: Pig	Sequence filename: HKN05-24.SEQ
Material used: RS1	Date sequence last updated: 19/05/2006
Region sequenced: VP1	Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 54 days
No. of ambiguities: 0	Sequencing time: 34 days
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/3/2006	HKN06-03	639	636	0	99.53	0.47
2	O/HKN/4/2006	HKN06-04	639	636	0	99.53	0.47
3	O/HKN/22/2005	HKN05-22	639	636	0	99.53	0.47
4	O/HKN/23/2005	HKN05-23	639	636	0	99.53	0.47
5	O/HKN/2/2006	HKN06-02	639	636	0	99.53	0.47
6	O/HKN/5/2006	HKN06-05	639	635	0	99.37	0.63
7	O/HKN/25/2005	HKN05-25	639	635	0	99.37	0.63
8	O/HKN/1/2006	HKN06-01	639	635	0	99.37	0.63
9	O/HKN/18/2005	HKN05-18	639	633	0	99.06	0.94
10	O/HKN/20/2005	HKN05-20	639	633	0	99.06	0.94

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	590	0	92.33	7.67
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	524	0	82	18
4	O/TAW/2/99	TAW99-02	639	517	0	80.91	19.09
5	O1/Manisa/TUR/69	TUR69--E	639	515	0	80.59	19.41
6	O/ISR/2/88	ISR88-02	639	515	0	80.59	19.41
7	O/MOR/1/91	MOR91-01	639	513	0	80.28	19.72
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	513	0	80.28	19.72
9	O/IND/R2/75* [AF204276]	IND75--A	639	505	0	79.03	20.97
10	O1/BFS 1860/UK/67	UKG67--A	639	498	0	77.93	22.07

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006
WRL Ref No: HKN/25/2005	
Sender Ref: FMD 12/05 D-05-1747 (2)	
Date collected: 21/11/2005	
Date received by WRLFMD: 14/04/2006	Topotype: Cathay
Date received for sequencing: 04/05/2006	Genotype/strain: none
Species: Pig	Sequence filename: HKN05-25.SEQ
Material used: RS1	Date sequence last updated: 19/05/2006
Region sequenced: VP1	Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 54 days
No. of ambiguities: 0	Sequencing time: 34 days
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/18/2005	HKN05-18	639	635	0	99.37	0.63
2	O/HKN/20/2005	HKN05-20	639	635	0	99.37	0.63
3	O/HKN/24/2005	HKN05-24	639	635	0	99.37	0.63
4	O/HKN/4/2006	HKN06-04	639	634	0	99.22	0.78
5	O/HKN/22/2005	HKN05-22	639	634	0	99.22	0.78
6	O/HKN/23/2005	HKN05-23	639	634	0	99.22	0.78
7	O/HKN/3/2006	HKN06-03	639	634	0	99.22	0.78
8	O/HKN/2/2006	HKN06-02	639	634	0	99.22	0.78
9	O/HKN/1/2006	HKN06-01	639	633	0	99.06	0.94
10	O/HKN/5/2006	HKN06-05	639	633	0	99.06	0.94

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	592	0	92.64	7.36
2	O/HKN/6/83	HKN83-06	637	557	2	87.44	12.56
3	O/IND/53/79 [AF292107]	IND79A53	639	523	0	81.85	18.15
4	O/TAW/2/99	TAW99-02	639	518	0	81.06	18.94
5	O1/Manisa/TUR/69	TUR69--E	639	516	0	80.75	19.25
6	O/ISR/2/88	ISR88-02	639	516	0	80.75	19.25
7	O/MOR/1/91	MOR91-01	639	514	0	80.44	19.56
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
9	O/IND/R2/75* [AF204276]	IND75--A	639	506	0	79.19	20.81
10	O1/BFS 1860/UK/67	UKG67--A	639	497	0	77.78	22.22

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006						
WRL Ref No: HKN/1/2006							
Sender Ref: FMD 01/06 D-06-345 (1)							
Date collected: 26/01/2006	Topotype: Cathay						
Date received by WRLFMD: 14/04/2006	Genotype/strain: none						
Date received for sequencing: 04/05/2006	Sequence filename: HKN06-01.SEQ						
Species: Pig	Date sequence last updated: 19/05/2006						
Material used: RS1	Total no. of comparisons: 1847						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/NK61	Total turn-around time: 54 days						
No. of Nt determined: 639	Sequencing time: 34 days						
No. of ambiguities: 0							
Gene length: 639							
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/2/2006	HKN06-02	639	638	0	99.84	0.16
2	O/HKN/4/2006	HKN06-04	639	638	0	99.84	0.16
3	O/HKN/5/2006	HKN06-05	639	637	0	99.69	0.31
4	O/HKN/24/2005	HKN05-24	639	635	0	99.37	0.63
5	O/HKN/22/2005	HKN05-22	639	634	0	99.22	0.78
6	O/HKN/23/2005	HKN05-23	639	634	0	99.22	0.78
7	O/HKN/3/2006	HKN06-03	639	634	0	99.22	0.78
8	O/HKN/25/2005	HKN05-25	639	633	0	99.06	0.94
9	O/HKN/18/2005	HKN05-18	639	632	0	98.9	1.1
10	O/HKN/20/2005	HKN05-20	639	631	0	98.75	1.25
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	589	0	92.18	7.82
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	523	0	81.85	18.15
4	O/TAW/2/99	TAW99-02	639	515	0	80.59	19.41
5	O/ISR/2/88	ISR88-02	639	514	0	80.44	19.56
6	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	639	512	0	80.13	19.87
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	511	0	79.97	20.03
9	O/IND/R2/75* [AF204276]	IND75--A	639	504	0	78.87	21.13
10	O1/BFS 1860/UK/67	UKG67--A	639	496	0	77.62	22.38
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: HKN/2/2006
Sender Ref: FMD 01/06 D-06-345 (2)
Date collected: 26/01/2006
Date received by WRLFMD: 14/04/2006
Date received for sequencing: 04/05/2006
Species: Pig
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 07/06/2006
Topotype: Cathay
Genotype/strain: none
Sequence filename: HKN06-02.SEQ
Date sequence last updated: 24/05/2006
Total no. of comparisons: 1847
Min. no. of nt for comparison: 300
Total turn-around time: 54 days
Sequencing time: 34 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/4/2006	HKN06-04	639	639	0	100	0
2	O/HKN/1/2006	HKN06-01	639	638	0	99.84	0.16
3	O/HKN/5/2006	HKN06-05	639	638	0	99.84	0.16
4	O/HKN/24/2005	HKN05-24	639	636	0	99.53	0.47
5	O/HKN/22/2005	HKN05-22	639	635	0	99.37	0.63
6	O/HKN/23/2005	HKN05-23	639	635	0	99.37	0.63
7	O/HKN/3/2006	HKN06-03	639	635	0	99.37	0.63
8	O/HKN/25/2005	HKN05-25	639	634	0	99.22	0.78
9	O/HKN/18/2005	HKN05-18	639	632	0	98.9	1.1
10	O/HKN/20/2005	HKN05-20	639	632	0	98.9	1.1

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	589	0	92.18	7.82
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	522	0	81.69	18.31
4	O/TAW/2/99	TAW99-02	639	515	0	80.59	19.41
5	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
6	O/ISR/2/88	ISR88-02	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	639	511	0	79.97	20.03
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	511	0	79.97	20.03
9	O/IND/R2/75* [AF204276]	IND75--A	639	503	0	78.72	21.28
10	O1/BFS 1860/UK/67	UKG67--A	639	496	0	77.62	22.38

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006
WRL Ref No: HKN/3/2006	
Sender Ref: FMD 01/06 D-06-345 (3)	
Date collected: 26/01/2006	
Date received by WRLFMD: 14/04/2006	Topotype: Cathay
Date received for sequencing: 04/05/2006	Genotype/strain: none
Species: Pig	Sequence filename: HKN06-03.SEQ
Material used: RS2	Date sequence last updated: 19/05/2006
Region sequenced: VP1	Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 54 days
No. of ambiguities: 0	Sequencing time: 34 days
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/24/2005	HKN05-24	639	636	0	99.53	0.47
2	O/HKN/2/2006	HKN06-02	639	635	0	99.37	0.63
3	O/HKN/4/2006	HKN06-04	639	635	0	99.37	0.63
4	O/HKN/22/2005	HKN05-22	639	635	0	99.37	0.63
5	O/HKN/23/2005	HKN05-23	639	635	0	99.37	0.63
6	O/HKN/5/2006	HKN06-05	639	634	0	99.22	0.78
7	O/HKN/25/2005	HKN05-25	639	634	0	99.22	0.78
8	O/HKN/1/2006	HKN06-01	639	634	0	99.22	0.78
9	O/HKN/18/2005	HKN05-18	639	632	0	98.9	1.1
10	O/HKN/20/2005	HKN05-20	639	632	0	98.9	1.1

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	591	0	92.49	7.51
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	522	0	81.69	18.31
4	O/ISR/2/88	ISR88-02	639	515	0	80.59	19.41
5	O1/Manisa/TUR/69	TUR69--E	639	515	0	80.59	19.41
6	O/TAW/2/99	TAW99-02	639	515	0	80.59	19.41
7	O/MOR/1/91	MOR91-01	639	513	0	80.28	19.72
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	511	0	79.97	20.03
9	O/IND/R2/75* [AF204276]	IND75--A	639	503	0	78.72	21.28
10	O1/BFS 1860/UK/67	UKG67--A	639	496	0	77.62	22.38

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: HKN/4/2006
Sender Ref: FMD 01/06 D-06-345 (4)
Date collected: 26/01/2006
Date received by WRLFMD: 14/04/2006
Date received for sequencing: 04/05/2006
Species: Pig
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 07/06/2006
Topotype: Cathay
Genotype/strain: none
Sequence filename: HKN06-04.SEQ
Date sequence last updated: 19/05/2006
Total no. of comparisons: 1847
Min. no. of nt for comparison: 300
Total turn-around time: 54 days
Sequencing time: 34 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/2/2006	HKN06-02	639	639	0	100	0
2	O/HKN/1/2006	HKN06-01	639	638	0	99.84	0.16
3	O/HKN/5/2006	HKN06-05	639	638	0	99.84	0.16
4	O/HKN/24/2005	HKN05-24	639	636	0	99.53	0.47
5	O/HKN/22/2005	HKN05-22	639	635	0	99.37	0.63
6	O/HKN/3/2006	HKN06-03	639	635	0	99.37	0.63
7	O/HKN/23/2005	HKN05-23	639	635	0	99.37	0.63
8	O/HKN/25/2005	HKN05-25	639	634	0	99.22	0.78
9	O/HKN/18/2005	HKN05-18	639	632	0	98.9	1.1
10	O/HKN/20/2005	HKN05-20	639	632	0	98.9	1.1

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	589	0	92.18	7.82
2	O/HKN/6/83	HKN83-06	637	556	2	87.28	12.72
3	O/IND/53/79 [AF292107]	IND79A53	639	522	0	81.69	18.31
4	O/TAW/2/99	TAW99-02	639	515	0	80.59	19.41
5	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
6	O/ISR/2/88	ISR88-02	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	639	511	0	79.97	20.03
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	511	0	79.97	20.03
9	O/IND/R2/75* [AF204276]	IND75--A	639	503	0	78.72	21.28
10	O1/BFS 1860/UK/67	UKG67--A	639	496	0	77.62	22.38

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006
WRL Ref No: HKN/5/2006	
Sender Ref: FMD 01/06 D-06-345 (5)	
Date collected: 26/01/2006	
Date received by WRLFMD: 14/04/2006	Topotype: Cathay
Date received for sequencing: 04/05/2006	Genotype/strain: none
Species: Pig	Sequence filename: HKN06-05.SEQ
Material used: RS1	Date sequence last updated: 19/05/2006
Region sequenced: VP1	Total no. of comparisons: 1847
RT-PCR primers: O-1C272F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 54 days
No. of ambiguities: 0	Sequencing time: 34 days
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/2/2006	HKN06-02	639	638	0	99.84	0.16
2	O/HKN/4/2006	HKN06-04	639	638	0	99.84	0.16
3	O/HKN/1/2006	HKN06-01	639	637	0	99.69	0.31
4	O/HKN/24/2005	HKN05-24	639	635	0	99.37	0.63
5	O/HKN/22/2005	HKN05-22	639	634	0	99.22	0.78
6	O/HKN/3/2006	HKN06-03	639	634	0	99.22	0.78
7	O/HKN/23/2005	HKN05-23	639	634	0	99.22	0.78
8	O/HKN/25/2005	HKN05-25	639	633	0	99.06	0.94
9	O/HKN/18/2005	HKN05-18	639	631	0	98.75	1.25
10	O/HKN/20/2005	HKN05-20	639	631	0	98.75	1.25

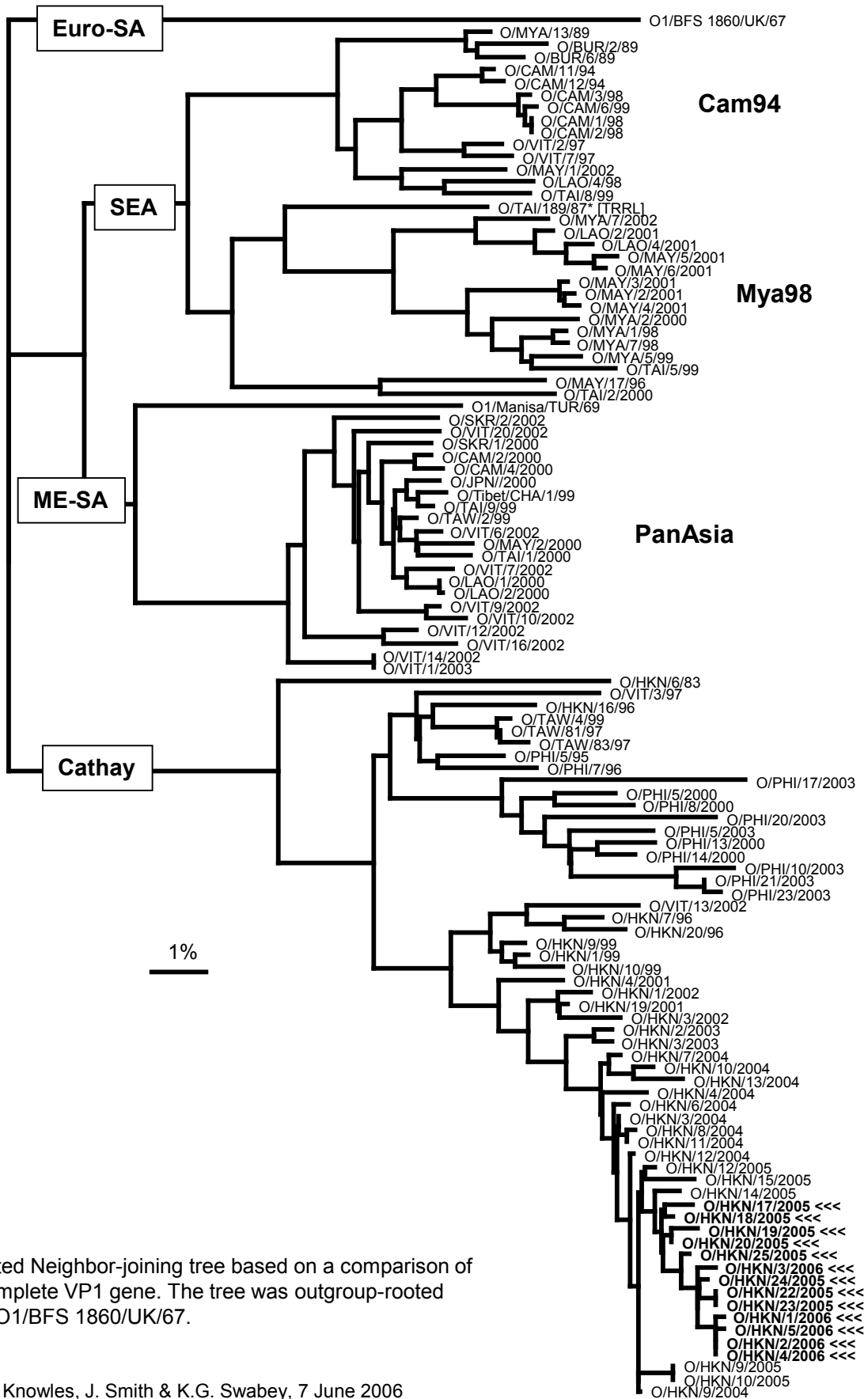
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	588	0	92.02	7.98
2	O/HKN/6/83	HKN83-06	637	557	2	87.44	12.56
3	O/IND/53/79 [AF292107]	IND79A53	639	521	0	81.53	18.47
4	O1/Manisa/TUR/69	TUR69--E	639	514	0	80.44	19.56
5	O/TAW/2/99	TAW99-02	639	514	0	80.44	19.56
6	O/ISR/2/88	ISR88-02	639	512	0	80.13	19.87
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
8	O/MOR/1/91	MOR91-01	639	510	0	79.81	20.19
9	O/IND/R2/75* [AF204276]	IND75--A	639	504	0	78.87	21.13
10	O1/BFS 1860/UK/67	UKG67--A	639	495	0	77.46	22.54

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Hong Kong in 2005-2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67.