

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Date: 24 March 2010

FMDV type O

Country: Hong Kong SAR, P.R. China

Period: 2010

No. of isolates: 14

BATCH: WRLFMD/2010/00009



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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/1/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 01/10 D-10-496 (1)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 05/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-01.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 11/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/18/2010	HKN10-18	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/4/2010	HKN10-04	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/6/2010	HKN10-06	639	638	0	99.84	0.16	SEA	Mya-98
4	O/HKN/19/2010	HKN10-19	639	632	0	98.90	1.10	SEA	Mya-98
5	O/HKN/13/2010	HKN10-13	639	627	0	98.12	1.88	SEA	Mya-98
6	O/HKN/14/2010	HKN10-14	639	627	0	98.12	1.88	SEA	Mya-98
7	O/HKN/15/2010	HKN10-15	639	627	0	98.12	1.88	SEA	Mya-98
8	O/HKN/7/2010	HKN10-07	639	627	0	98.12	1.88	SEA	Mya-98
9	O/HKN/8/2010	HKN10-08	639	627	0	98.12	1.88	SEA	Mya-98
10	O/HKN/10/2010	HKN10-10	639	626	0	97.97	2.03	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	593	0	92.80	7.20	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	570	0	89.20	10.80	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	544	0	85.13	14.87	ME-SA	unnamed
4	O/IRN/8/2005	IRN05-08	639	541	0	84.66	15.34	ME-SA	PanAsia-2
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	539	0	84.35	15.65	SEA	Cam-94
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	538	0	84.19	15.81	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	538	0	84.19	15.81	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	535	0	83.72	16.28	ME-SA	Ind-2001a
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	532	1	83.39	16.61	ME-SA	Im-2001
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	532	0	83.26	16.74	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/4/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 02/10 D-10-545 (2)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 10/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-04.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 10/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/1/2010	HKN10-01	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/18/2010	HKN10-18	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/6/2010	HKN10-06	639	638	0	99.84	0.16	SEA	Mya-98
4	O/HKN/19/2010	HKN10-19	639	632	0	98.90	1.10	SEA	Mya-98
5	O/HKN/13/2010	HKN10-13	639	627	0	98.12	1.88	SEA	Mya-98
6	O/HKN/14/2010	HKN10-14	639	627	0	98.12	1.88	SEA	Mya-98
7	O/HKN/15/2010	HKN10-15	639	627	0	98.12	1.88	SEA	Mya-98
8	O/HKN/7/2010	HKN10-07	639	627	0	98.12	1.88	SEA	Mya-98
9	O/HKN/8/2010	HKN10-08	639	627	0	98.12	1.88	SEA	Mya-98
10	O/HKN/10/2010	HKN10-10	639	626	0	97.97	2.03	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	593	0	92.80	7.20	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	570	0	89.20	10.80	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	544	0	85.13	14.87	ME-SA	unnamed
4	O/IRN/8/2005	IRN05-08	639	541	0	84.66	15.34	ME-SA	PanAsia-2
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	539	0	84.35	15.65	SEA	Cam-94
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	538	0	84.19	15.81	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	538	0	84.19	15.81	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	535	0	83.72	16.28	ME-SA	Ind-2001a
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	532	1	83.39	16.61	ME-SA	Im-2001
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	532	0	83.26	16.74	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/6/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 02/10 D-10-545 (4)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 10/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-06.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 11/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/1/2010	HKN10-01	639	638	0	99.84	0.16	SEA	Mya-98
2	O/HKN/18/2010	HKN10-18	639	638	0	99.84	0.16	SEA	Mya-98
3	O/HKN/4/2010	HKN10-04	639	638	0	99.84	0.16	SEA	Mya-98
4	O/HKN/19/2010	HKN10-19	639	631	0	98.75	1.25	SEA	Mya-98
5	O/HKN/13/2010	HKN10-13	639	626	0	97.97	2.03	SEA	Mya-98
6	O/HKN/14/2010	HKN10-14	639	626	0	97.97	2.03	SEA	Mya-98
7	O/HKN/15/2010	HKN10-15	639	626	0	97.97	2.03	SEA	Mya-98
8	O/HKN/7/2010	HKN10-07	639	626	0	97.97	2.03	SEA	Mya-98
9	O/HKN/8/2010	HKN10-08	639	626	0	97.97	2.03	SEA	Mya-98
10	O/HKN/10/2010	HKN10-10	639	625	0	97.81	2.19	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	594	0	92.96	7.04	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	569	0	89.05	10.95	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	ME-SA	unnamed
4	O/IRN/8/2005	IRN05-08	639	540	0	84.51	15.49	ME-SA	PanAsia-2
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	538	0	84.19	15.81	SEA	Cam-94
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	537	0	84.04	15.96	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	537	0	84.04	15.96	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	534	0	83.57	16.43	ME-SA	Ind-2001a
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	531	1	83.23	16.77	ME-SA	Irn-2001
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	531	0	83.10	16.90	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/7/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 03/10 D-10-729 (1)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 22/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-07.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 10/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/13/2010	HKN10-13	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/14/2010	HKN10-14	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/15/2010	HKN10-15	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/8/2010	HKN10-08	639	639	0	100.00	0.00	SEA	Mya-98
5	O/HKN/10/2010	HKN10-10	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/11/2010	HKN10-11	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/12/2010	HKN10-12	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/9/2010	HKN10-09	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	628	0	98.28	1.72	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	628	0	98.28	1.72	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	599	0	93.74	6.26	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	574	0	89.83	10.17	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	544	0	85.13	14.87	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	541	0	84.66	15.34	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	540	0	84.51	15.49	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	537	0	84.04	15.96	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	537	0	84.04	15.96	ME-SA	Ind-2001a
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	535	0	83.72	16.28	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/8/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 03/10 D-10-729 (2)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 22/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-08.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 10/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/13/2010	HKN10-13	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/14/2010	HKN10-14	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/15/2010	HKN10-15	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/7/2010	HKN10-07	639	639	0	100.00	0.00	SEA	Mya-98
5	O/HKN/10/2010	HKN10-10	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/11/2010	HKN10-11	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/12/2010	HKN10-12	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/9/2010	HKN10-09	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	628	0	98.28	1.72	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	628	0	98.28	1.72	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	599	0	93.74	6.26	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	574	0	89.83	10.17	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	544	0	85.13	14.87	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	541	0	84.66	15.34	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	540	0	84.51	15.49	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	537	0	84.04	15.96	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	537	0	84.04	15.96	ME-SA	Ind-2001a
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	535	0	83.72	16.28	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/9/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 04/10 D-10-751 (1)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-09.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: BTy1 12/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/10/2010	HKN10-10	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/11/2010	HKN10-11	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/12/2010	HKN10-12	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/13/2010	HKN10-13	639	638	0	99.84	0.16	SEA	Mya-98
5	O/HKN/14/2010	HKN10-14	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/15/2010	HKN10-15	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/7/2010	HKN10-07	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/8/2010	HKN10-08	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	598	0	93.58	6.42	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	573	0	89.67	10.33	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	544	0	85.13	14.87	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	543	0	84.98	15.02	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	540	0	84.51	15.49	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	539	0	84.35	15.65	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	538	0	84.19	15.81	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	538	0	84.19	15.81	ME-SA	Ind-2001a
10	O/UAE/4/2008	UAE08-04	636	533	0	83.81	16.19	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/10/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 04/10 D-10-751 (2)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-10.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 11/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/11/2010	HKN10-11	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/12/2010	HKN10-12	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/9/2010	HKN10-09	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/13/2010	HKN10-13	639	638	0	99.84	0.16	SEA	Mya-98
5	O/HKN/14/2010	HKN10-14	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/15/2010	HKN10-15	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/7/2010	HKN10-07	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/8/2010	HKN10-08	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	598	0	93.58	6.42	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	573	0	89.67	10.33	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	544	0	85.13	14.87	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	543	0	84.98	15.02	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	540	0	84.51	15.49	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	539	0	84.35	15.65	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	538	0	84.19	15.81	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	538	0	84.19	15.81	ME-SA	Ind-2001a
10	O/UAE/4/2008	UAE08-04	636	533	0	83.81	16.19	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/11/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 04/10 D-10-751 (3)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-11.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: BTy1 11/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/10/2010	HKN10-10	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/12/2010	HKN10-12	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/9/2010	HKN10-09	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/13/2010	HKN10-13	639	638	0	99.84	0.16	SEA	Mya-98
5	O/HKN/14/2010	HKN10-14	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/15/2010	HKN10-15	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/7/2010	HKN10-07	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/8/2010	HKN10-08	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	598	0	93.58	6.42	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	573	0	89.67	10.33	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	544	0	85.13	14.87	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	543	0	84.98	15.02	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	540	0	84.51	15.49	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	539	0	84.35	15.65	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	538	0	84.19	15.81	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	538	0	84.19	15.81	ME-SA	Ind-2001a
10	O/UAE/4/2008	UAE08-04	636	533	0	83.81	16.19	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/12/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 04/10 D-10-751 (4)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-12.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: OS 05/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/10/2010	HKN10-10	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/11/2010	HKN10-11	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/9/2010	HKN10-09	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/13/2010	HKN10-13	639	638	0	99.84	0.16	SEA	Mya-98
5	O/HKN/14/2010	HKN10-14	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/15/2010	HKN10-15	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/7/2010	HKN10-07	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/8/2010	HKN10-08	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	598	0	93.58	6.42	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	573	0	89.67	10.33	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	544	0	85.13	14.87	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	543	0	84.98	15.02	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	540	0	84.51	15.49	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	539	0	84.35	15.65	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	538	0	84.19	15.81	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	538	0	84.19	15.81	ME-SA	Ind-2001a
10	O/UAE/4/2008	UAE08-04	636	533	0	83.81	16.19	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/13/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 05/10 D-10-752 (1)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-13.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: BTy1 11/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/14/2010	HKN10-14	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/15/2010	HKN10-15	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/7/2010	HKN10-07	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/8/2010	HKN10-08	639	639	0	100.00	0.00	SEA	Mya-98
5	O/HKN/10/2010	HKN10-10	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/11/2010	HKN10-11	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/12/2010	HKN10-12	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/9/2010	HKN10-09	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	628	0	98.28	1.72	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	628	0	98.28	1.72	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	599	0	93.74	6.26	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	574	0	89.83	10.17	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	544	0	85.13	14.87	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	541	0	84.66	15.34	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	540	0	84.51	15.49	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	537	0	84.04	15.96	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	537	0	84.04	15.96	ME-SA	Ind-2001a
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	535	0	83.72	16.28	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/14/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 05/10 D-10-752 (2)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-14.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 11/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/13/2010	HKN10-13	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/15/2010	HKN10-15	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/7/2010	HKN10-07	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/8/2010	HKN10-08	639	639	0	100.00	0.00	SEA	Mya-98
5	O/HKN/10/2010	HKN10-10	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/11/2010	HKN10-11	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/12/2010	HKN10-12	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/9/2010	HKN10-09	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	628	0	98.28	1.72	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	628	0	98.28	1.72	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	599	0	93.74	6.26	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	574	0	89.83	10.17	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	544	0	85.13	14.87	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	541	0	84.66	15.34	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	540	0	84.51	15.49	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	537	0	84.04	15.96	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	537	0	84.04	15.96	ME-SA	Ind-2001a
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	535	0	83.72	16.28	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/15/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 05/10 D-10-752 (3)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 24/02/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-15.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 12/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/13/2010	HKN10-13	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/14/2010	HKN10-14	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/7/2010	HKN10-07	639	639	0	100.00	0.00	SEA	Mya-98
4	O/HKN/8/2010	HKN10-08	639	639	0	100.00	0.00	SEA	Mya-98
5	O/HKN/10/2010	HKN10-10	639	638	0	99.84	0.16	SEA	Mya-98
6	O/HKN/11/2010	HKN10-11	639	638	0	99.84	0.16	SEA	Mya-98
7	O/HKN/12/2010	HKN10-12	639	638	0	99.84	0.16	SEA	Mya-98
8	O/HKN/9/2010	HKN10-09	639	638	0	99.84	0.16	SEA	Mya-98
9	O/MYA/5/2009	MYA09-05	639	628	0	98.28	1.72	SEA	Mya-98
10	O/MYA/6/2009	MYA09-06	639	628	0	98.28	1.72	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	599	0	93.74	6.26	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	574	0	89.83	10.17	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O/IRN/8/2005	IRN05-08	639	544	0	85.13	14.87	ME-SA	PanAsia-2
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	541	0	84.66	15.34	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	540	0	84.51	15.49	ME-SA	PanAsia
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	537	0	84.04	15.96	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	537	0	84.04	15.96	ME-SA	Ind-2001a
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	535	0	83.72	16.28	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/18/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 06/10 D-10-817 (3)	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 01/03/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-18.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: OS 05/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/1/2010	HKN10-01	639	639	0	100.00	0.00	SEA	Mya-98
2	O/HKN/4/2010	HKN10-04	639	639	0	100.00	0.00	SEA	Mya-98
3	O/HKN/6/2010	HKN10-06	639	638	0	99.84	0.16	SEA	Mya-98
4	O/HKN/19/2010	HKN10-19	639	632	0	98.90	1.10	SEA	Mya-98
5	O/HKN/13/2010	HKN10-13	639	627	0	98.12	1.88	SEA	Mya-98
6	O/HKN/14/2010	HKN10-14	639	627	0	98.12	1.88	SEA	Mya-98
7	O/HKN/15/2010	HKN10-15	639	627	0	98.12	1.88	SEA	Mya-98
8	O/HKN/7/2010	HKN10-07	639	627	0	98.12	1.88	SEA	Mya-98
9	O/HKN/8/2010	HKN10-08	639	627	0	98.12	1.88	SEA	Mya-98
10	O/HKN/10/2010	HKN10-10	639	626	0	97.97	2.03	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	593	0	92.80	7.20	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	570	0	89.20	10.80	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	544	0	85.13	14.87	ME-SA	unnamed
4	O/IRN/8/2005	IRN05-08	639	541	0	84.66	15.34	ME-SA	PanAsia-2
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	539	0	84.35	15.65	SEA	Cam-94
6	O/ETH/3/2004 (FJ798109)	ETH04-03	639	538	0	84.19	15.81	EA-3	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	538	0	84.19	15.81	ME-SA	PanAsia
8	O/KUW/3/97 (DQ164904)	KUW97-03	639	535	0	83.72	16.28	ME-SA	Ind-2001a
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	532	1	83.39	16.61	ME-SA	Im-2001
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	532	0	83.26	16.74	EA-3	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 24/03/2010
WRLFMD Ref No: HKN/19/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00009	Checked by: D.P. King
Sender Ref: FMD 07/10 D-10-825	
Location: Not Given, Hong Kong	Topotype: SEA
Date collected: 03/03/2010	Genotype/strain: Mya-98
Date received by WRLFMD: 05/03/2010	Sequence filename: HKN10-19.SEQ
Date received for sequencing: 16/03/2010	Date sequence last updated: 24/03/2010
Species: Pig	No. of Nt determined: 639
Material used: RS1 12/03/2010	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2306
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 19 days
	Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/HKN/1/2010	HKN10-01	639	632	0	98.90	1.10	SEA	Mya-98
2	O/HKN/18/2010	HKN10-18	639	632	0	98.90	1.10	SEA	Mya-98
3	O/HKN/4/2010	HKN10-04	639	632	0	98.90	1.10	SEA	Mya-98
4	O/HKN/6/2010	HKN10-06	639	631	0	98.75	1.25	SEA	Mya-98
5	O/HKN/13/2010	HKN10-13	639	626	0	97.97	2.03	SEA	Mya-98
6	O/HKN/14/2010	HKN10-14	639	626	0	97.97	2.03	SEA	Mya-98
7	O/HKN/15/2010	HKN10-15	639	626	0	97.97	2.03	SEA	Mya-98
8	O/HKN/7/2010	HKN10-07	639	626	0	97.97	2.03	SEA	Mya-98
9	O/HKN/8/2010	HKN10-08	639	626	0	97.97	2.03	SEA	Mya-98
10	O/HKN/10/2010	HKN10-10	639	625	0	97.81	2.19	SEA	Mya-98
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/7/98 (DQ164925)	MYA98-07	639	594	0	92.96	7.04	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	569	0	89.05	10.95	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	543	0	84.98	15.02	ME-SA	unnamed
4	O/ETH/3/2004 (FJ798109)	ETH04-03	639	541	0	84.66	15.34	EA-3	unnamed
5	O/IRN/8/2005	IRN05-08	639	540	0	84.51	15.49	ME-SA	PanAsia-2
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	539	0	84.35	15.65	ME-SA	PanAsia
7	O/CAM/3/98 (AJ294910)	CAM98-03	639	538	0	84.19	15.81	SEA	Cam-94
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	537	0	84.04	15.96	EA-3	unnamed
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	534	0	83.57	16.43	ME-SA	Ind-2001a
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	533	1	83.54	16.46	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v3.1

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Report on FMDV O in Hong Kong in 2010

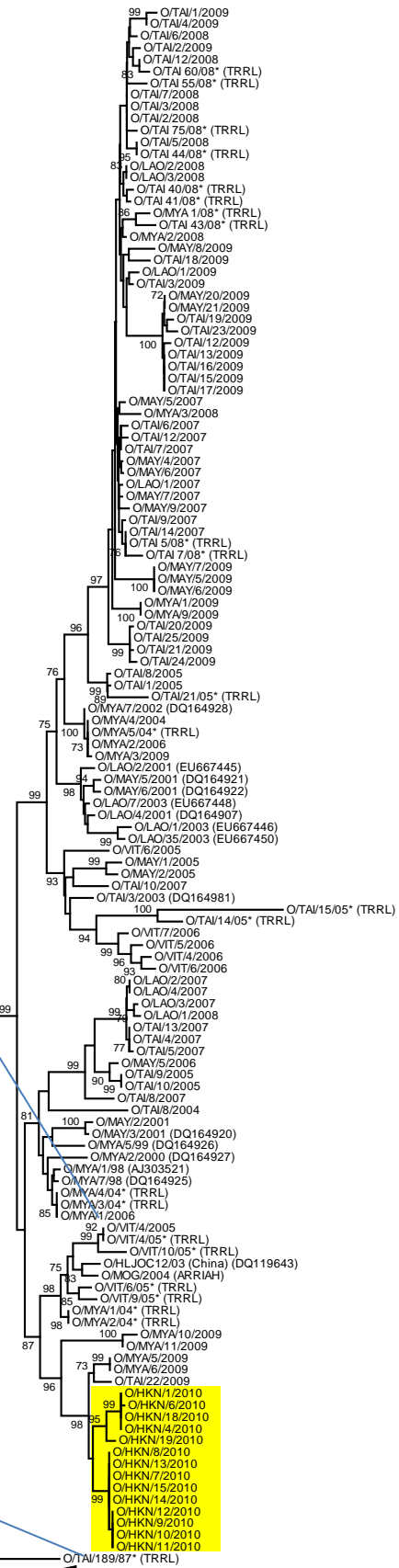
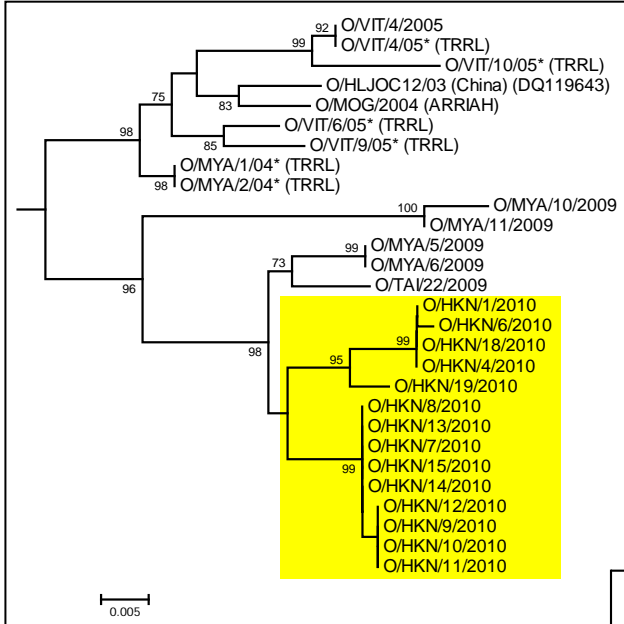
Batch: WRLFMD/2010/00009

Software: MEGA 4.0
 No. of Taxa : 238
 Data File : n:\evd\meg\db\fmdv\o\HKN2010a.meg
 Data Title : O Hong Kong 2010
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)
 Include Sites : =====
 ->Gaps/Missing Data : Pairwise Deletion
 ->Codon Positions : 1st+2nd+3rd+Noncoding
 Substitution Model : =====
 ->Model : Nucleotide: Kimura 2-parameter
 ->Substitutions to Include : d: Transitions + Transversions
 ->Pattern among Lineages : Same (Homogeneous)
 ->Rates among sites : Uniform rates
 No. of Sites : 639
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 24 March 2010

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Mya-98 SEA

Cam-94
 CATHAY
 ME-SA

0.02