

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

Genotyping Report

Report Date for this Batch: 21 June 2013

FMDV type O

Country: Hong Kong SAR, P.R. China

Period: 2013

No. of samples: 1

BATCH: WRLFMD/2013/00010



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

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Serotype: O	Report date: 21/06/2013
WRLFMD Ref No: HKN/1/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00010	Checked by: D.P. King
Sender Ref: 13-05709	
Location: not given, Hong Kong SAR	Topotype: CATHAY
Date collected: 02/04/2013	Genotype/strain: unnamed
Date received by WRLFMD: 08/05/2013	Sequence filename: HKN13-01.SEQ
Date received for sequencing: 18/06/2013	Date sequence last updated: 21/06/2013
Species: Pig	No. of Nt determined: 639
Material used: RS2 31/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3659
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
O-1C283F/EUR-2B52R	Total turn-around time: 44 days
	Sequencing time: 3 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/6/2011	HKN11-06	639	625	0	97.81	2.19	CATHAY	unnamed
2	O/HKN/3/2011	HKN11-03	639	623	0	97.50	2.50	CATHAY	unnamed
3	O/HKN/5/2011	HKN11-05	639	623	0	97.50	2.50	CATHAY	unnamed
4	O/HKN/7/2011	HKN11-07	639	623	0	97.50	2.50	CATHAY	unnamed
5	O/HKN/4/2011	HKN11-04	639	622	0	97.34	2.66	CATHAY	unnamed
6	O/HKN/8/2011	HKN11-08	639	622	0	97.34	2.66	CATHAY	unnamed
7	O/HKN/9/2011	HKN11-09	639	622	0	97.34	2.66	CATHAY	unnamed
8	O/HKN/26/2010	HKN10-26	639	618	0	96.71	3.29	CATHAY	Unnamed
9	O/HKN/3/2008	HKN08-03	639	608	0	95.15	4.85	CATHAY	unnamed
10	O/HKN/1/2008	HKN08-01	639	606	0	94.84	5.16	CATHAY	unnamed
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/Yunlin/TAW/97 (AF308157)	TAW97--B	639	562	0	87.95	12.05	CATHAY	unnamed
2	O/PHI/7/96 (AJ294926)	PHI96-07	639	559	0	87.48	12.52	CATHAY	unnamed
3	O/HKN/6/83 (AJ294919)	HKN83-06	637	543	2	85.24	14.76	CATHAY	unnamed
4	O/HKN/21/70 (AJ294911)	HKN70A21	637	520	2	81.63	18.37	CATHAY	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	508	0	79.50	20.50	ME-SA	unnamed
6	O/UGA/17/98 (HM211075)	UGA98-17	639	507	0	79.34	20.66	EA-4	unnamed
7	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	503	0	78.72	21.28	ME-SA	unnamed
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	501	0	78.40	21.60	EA-3	unnamed
9	O/TAN/2/2004	TAN04-02	639	501	0	78.40	21.60	EA-2	unnamed
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	500	1	78.37	21.63	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV O in Hong Kong SAR in 2013

Batch: WRLFMD/2013/00010

◆ indicates viruses in this batch

Software: MEGA 5.2

Analysis

Analysis ----- Phylogeny Reconstruction
 Scope ----- All Selected Taxa
 Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method
 No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide
 Model/Method ----- Kimura 2-parameter model
 Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates
 Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion
 Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, K. Bachanek-Bankowska & J. Wadsworth,
 21 June 2013

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CATHAY