

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

## Genotyping Report

Report Date for this Batch: 21 December 2014

FMDV type O

Country: Hong Kong SAR

Period: 2014

No. of samples: 1

BATCH: WRLFMD/2014/00039



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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: 21/12/2014
WRLFMD Ref No: HKN/15/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00039	Checked by: K. Bachanek-Bankowska
Sender Ref: 14-18295, FMD 10/14	
Location: Sheung Shui, New Territories, Hong Kong SAR	Topotype: CATHAY
Date collected: 25/11/2014	Genotype/strain: unnamed
Date received by WRLFMD: 11/12/2014	Sequence filename: HKN14-15.SEQ
Date received for sequencing: 17/12/2014	Date sequence last updated: 19/12/2014
Species: Pig	No. of Nt determined: 639
Material used: RS1 13/12/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Total no. of comparisons: 4105
	Min. no. of nt for comparison: 600
	Total turn-around time: 10 days
	Sequencing time: 4 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/11/2014	HKN14-11	639	634	0	99.22	0.78	CATHAY	unnamed
2	O/HKN/4/2014	HKN14-04	639	632	0	98.90	1.10	CATHAY	unnamed
3	O/HKN/6/2014	HKN14-06	639	632	0	98.90	1.10	CATHAY	unnamed
4	O/HKN/13/2014	HKN14-13	639	631	0	98.75	1.25	CATHAY	unnamed
5	O/HKN/5/2014	HKN14-05	639	631	0	98.75	1.25	CATHAY	unnamed
6	O/HKN/7/2014	HKN14-07	639	630	0	98.59	1.41	CATHAY	unnamed
7	O/HKN/8/2014	HKN14-08	639	630	0	98.59	1.41	CATHAY	unnamed
8	O/HKN/1/2013 (KM243172)	HKN13-01	639	618	0	96.71	3.29	CATHAY	unnamed
9	O/HKN/3/2011 (KM243165)	HKN11-03	639	618	0	96.71	3.29	CATHAY	unnamed
10	O/HKN/5/2011 (KM243167)	HKN11-05	639	618	0	96.71	3.29	CATHAY	unnamed

## Most Closely Related Reference Viruses

(see [http://www.wrlfmd.org/fmd\\_genotyping/prototypes.htm](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	569	0	89.05	10.95	CATHAY	unnamed
2	O/PHI/7/96 (AJ294926;KM243058)	PHI96-07	639	566	0	88.58	11.42	CATHAY	unnamed
3	O/HKN/6/83 (AJ294919)	HKN83-06	637	547	2	85.87	14.13	CATHAY	unnamed
4	O/HKN/21/70 (AJ294911)	HKN70A21	637	521	2	81.79	18.21	CATHAY	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	512	0	80.13	19.87	ME-SA	unnamed
6	O/TAN/2/2004 (KF561679)	TAN04-02	639	512	0	80.13	19.87	EA-2	unnamed
7	O/UGA/17/98 (HM211075)	UGA98-17	639	510	0	79.81	20.19	EA-4	unnamed
8	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	510	0	79.81	20.19	ME-SA	unnamed
9	O/MAL/1/98 (DQ165074)	MAL98-01	639	509	0	79.66	20.34	EA-2	unnamed
10	O/UGA/3/2002 (DQ165077)	UGA02-03	639	509	0	79.66	20.34	EA-2	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.3

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# Report on FMDV O in Hong Kong SAR in 2014

Batch: WRLFMD/2014/00039

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 642

No Of Bootstrap Reps = 1000

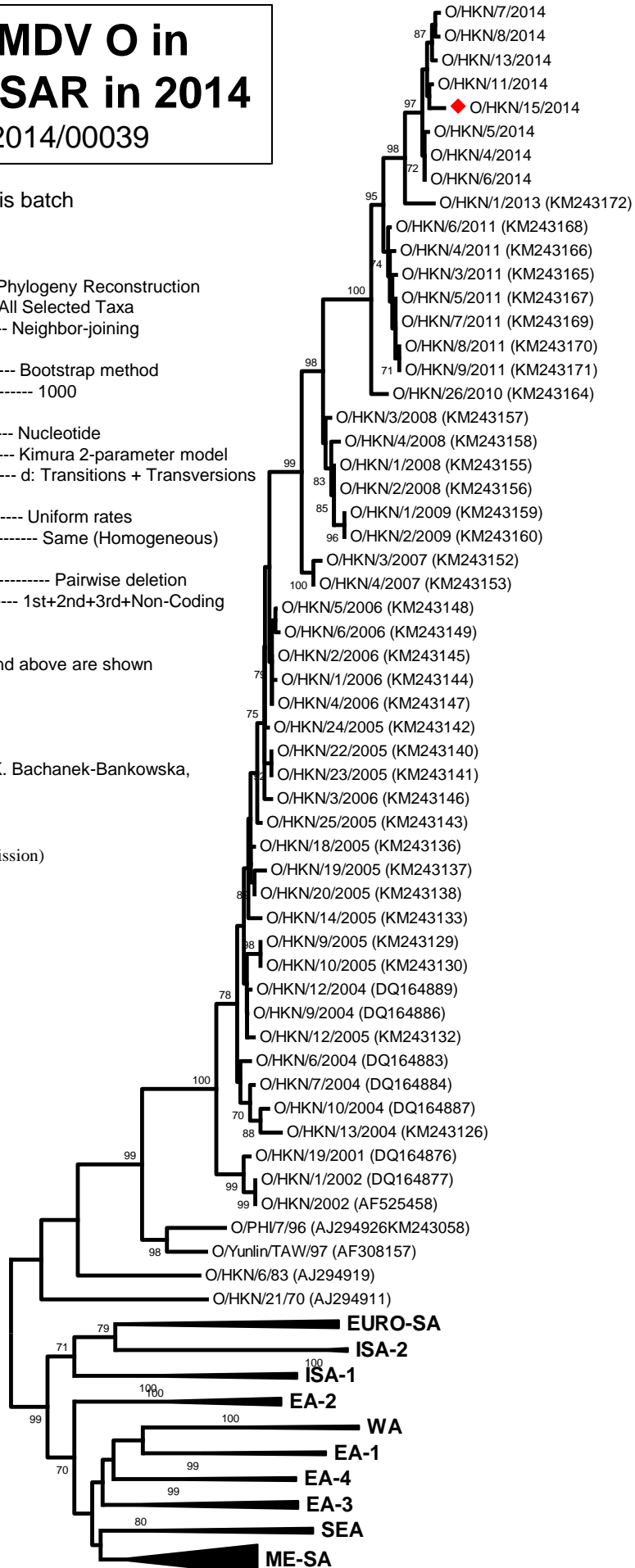
Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,  
21 December 2014

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CATHAY

0.02