

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

Genotyping Report

Report Date for this Batch: 22 July 2014

FMDV type O

Country: Hong Kong SAR

Period: 2014

No. of samples: 1

BATCH: WRLFMD/2014/00020



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

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Serotype: O WRLFMD Ref No: HKN/13/2014 Batch No: WRLFMD/2014/00020 Sender Ref: 14-07250, FMD 08/14 Location: Sheung Shui, New Territories, Hong Kong Date collected: 07/05/2014 Date received by WRLFMD: 28/05/2014 Date received for sequencing: 16/07/2014 Species: Pig Material used: RS3 10/06/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 21/07/2014 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: CATHAY Genotype/strain: unnamed Sequence filename: HKN14-13.SEQ Date sequence last updated: 21/07/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3903 Min. no. of nt for comparison: 600 Total turn-around time: 54 days Sequencing time: 5 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	636	0	99.53	0.47	CATHAY	unnamed
2	O/HKN/7/2014	HKN14-07	639	636	0	99.53	0.47	CATHAY	unnamed
3	O/HKN/8/2014	HKN14-08	639	636	0	99.53	0.47	CATHAY	unnamed
4	O/HKN/4/2014	HKN14-04	639	634	0	99.22	0.78	CATHAY	unnamed
5	O/HKN/6/2014	HKN14-06	639	634	0	99.22	0.78	CATHAY	unnamed
6	O/HKN/5/2014	HKN14-05	639	633	0	99.06	0.94	CATHAY	unnamed
7	O/HKN/1/2013	HKN13-01	639	624	0	97.65	2.35	CATHAY	unnamed
8	O/HKN/3/2011	HKN11-03	639	622	0	97.34	2.66	CATHAY	unnamed
9	O/HKN/5/2011	HKN11-05	639	622	0	97.34	2.66	CATHAY	unnamed
10	O/HKN/6/2011	HKN11-06	639	622	0	97.34	2.66	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	571	0	89.36	10.64	CATHAY	unnamed
2	O/PHI/7/96 (AJ294926)	PHI96-07	639	568	0	88.89	11.11	CATHAY	unnamed
3	O/HKN/6/83 (AJ294919)	HKN83-06	637	553	2	86.81	13.19	CATHAY	unnamed
4	O/HKN/21/70 (AJ294911)	HKN70A21	637	525	2	82.42	17.58	CATHAY	unnamed
5	O/IND/53/79 (AF292107)	IND79A53	639	511	0	79.97	20.03	ME-SA	unnamed
6	O/UGA/17/98 (HM211075)	UGA98-17	639	511	0	79.97	20.03	EA-4	unnamed
7	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	511	0	79.97	20.03	ME-SA	unnamed
8	O/MAL/1/98 (DQ165074)	MAL98-01	639	507	0	79.34	20.66	EA-2	unnamed
9	O/TAN/2/2004 (KF561679)	TAN04-02	639	506	0	79.19	20.81	EA-2	unnamed
10	O/ETH/58/2005 (FJ798141)	ETH05-58	639	505	0	79.03	20.97	EA-4	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/2014/00020

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

----- Phylogeny Reconstruction

----- All Selected Taxa

----- Neighbor-joining

Phylogeny Test

----- Bootstrap method

----- 1000

Substitution Model

----- Nucleotide

----- Kimura 2-parameter model

----- d: Transitions + Transversions

Rates and Patterns

----- Uniform rates

----- Same (Homogeneous)

Data Subset to Use

----- Pairwise deletion

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

No. of Sites : 642

No Of Bootstrap Reps = 1000

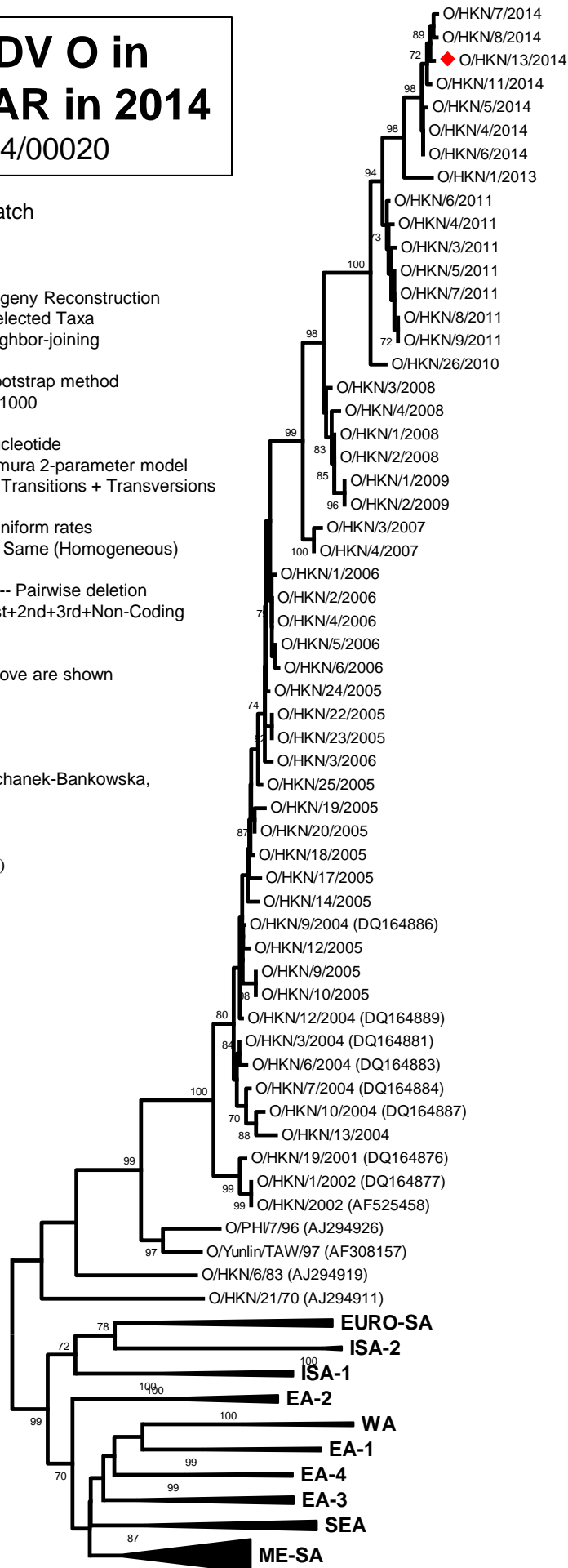
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
22 July 2014

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CATHAY

0.02