

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

Genotyping Report

Report Date for this Batch: 9 April 2013

FMDV type A

Country: People's Republic of China

Period: 2013

No. of sequences: 1 (VP1)

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

Page 1 of 1

Serotype: A WRLFMD Ref No: QHXN-CHA-2013-B Batch No: WRLMEG/2013/00009 Sender Ref: A-QHXN-2013-B_LVRI Location: Chengbei district, Xining, QingHai, China Date collected: ~15/03/2013 Date received by WRLFMD: 09/04/2013 Date received for sequencing: n/a Species: Cattle Material used: Not known Region sequenced: VP1 RT-PCR primers: Not known	Report date: 09/04/2013 Reported by: N.J. Knowles Checked by: V. Mioulet Topotype: ASIA Genotype/strain: Sea-97 Sequence filename: CHA13-AB.SEQ Date sequence last updated: 09/04/2013 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 1575 Min. no. of nt for comparison: 600 Total turn-around time: 0 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/GDMM-CHA-2013-S (LVRI)	CHA13-AA	633	627	0	99.05	0.95	ASIA	Sea-97
2	A/Zabaikalsky/RUS/2013 (ARRIAH)	RUS13-AA	633	627	0	99.05	0.95	ASIA	Sea-97
3	A/TAI/1/2011	TAI11-01	633	617	0	97.47	2.53	ASIA	Sea-97
4	A/TAI/3/2011	TAI11-03	633	617	0	97.47	2.53	ASIA	Sea-97
5	A/THA 66-1/10* (TRRL)	TAI10-AA	633	617	0	97.47	2.53	ASIA	Sea-97
6	A/TAI/7/2010	TAI10-07	633	616	0	97.31	2.69	ASIA	Sea-97
7	A/TAI/8/2010	TAI10-08	633	616	0	97.31	2.69	ASIA	Sea-97
8	A/THA 67-3/10* (TRRL)	TAI10-AB	633	616	0	97.31	2.69	ASIA	Sea-97
9	A/THA 69-6/10* (TRRL)	TAI10-AC	633	616	0	97.31	2.69	ASIA	Sea-97
10	A/MAY/4/2011	MAY11-04	633	614	0	97.00	3.00	ASIA	Sea-97
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	A/TAI/7/2003 (HQ116312)	TAI03-07	633	595	0	94.00	6.00	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	633	576	0	91.00	9.00	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	633	557	0	87.99	12.01	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	526	0	82.70	17.30	ASIA	A22
5	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	519	0	81.60	18.40	ASIA	Iran-05 ^{FAR-09}
7	A/GHA/16/73	GHA73-16	633	516	0	81.52	18.48	AFRICA	G-VI
8	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
9	A/IRN/1/96 (EF208771)	IRN96-01	635	514	1	80.94	19.06	ASIA	Iran-96
10	A/IRN/22/99 (EF208772)	IRN99-22	633	512	0	80.88	19.12	ASIA	Iran-99

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV A in P.R. China in 2013

Batch: WRLMEG/2013/00009

◆ indicates viruses in this batch

Software: MEGA 5.1

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 : 639

No Of Bootstrap Reps = 1000

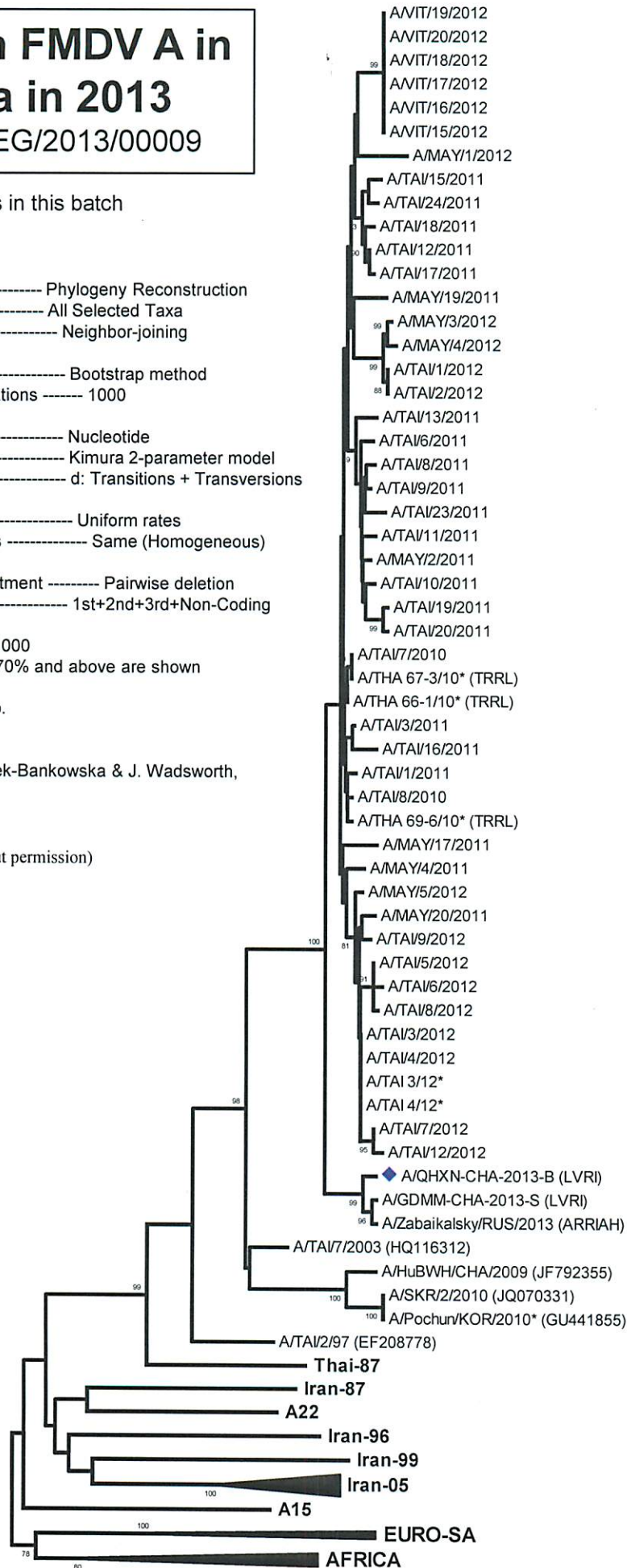
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, K. Bachanek-Bankowska & J. Wadsworth,
09 April 2013

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Sea-97

ASIA

0.02