

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

Genotyping Report v2

Report Date for this Batch: 15 July 2015

FMDV type A

Country: Egypt

Period: 2014-2015

No. of sequences: 2

Originator:



Version 2 correcting the mis-naming of samples collected in 2015 as 2014



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FAO World Reference Laboratory for FMD Genotyping Report

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

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Serotype: A	Report date: 14/07/2015
WRLFMD Ref No: RL-464/EGY/2014	Reported by: N.J. Knowles
Batch No: WRLMEG/2015/00010	Checked by: K. Bachanek-Bankowska
Sender Ref: RL 464_Egypt_FMDV-A_2014	
Location: Aloba, Abo Elmatamer, Behira, Egypt	Topotype: ASIA
Date collected: 09/11/2014	Genotype/strain: Iran-05 ^{BAR-08}
Date received by WRLFMD: 10/07/2015	Sequence filename: EGY14-AG.SEQ
Date received for sequencing:	Date sequence last updated: 13/07/2015
Species: Cattle	No. of Nt determined: 639
Material used: LFBK1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2030
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around 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	A/RL-932/EGY/2015 (IZSLER)	EGY15-AB	639	638	0	99.84	0.16	ASIA	Iran-05 ^{BAR-08}
2	A/EGY/11/2013	EGY13-11	639	627	0	98.12	1.88	ASIA	Iran-05 ^{BAR-08}
3	A/EGY/12/2013	EGY13-12	639	627	0	98.12	1.88	ASIA	Iran-05 ^{BAR-08}
4	A/EGY/15/2013	EGY13-15	639	627	0	98.12	1.88	ASIA	Iran-05 ^{BAR-08}
5	A/EGY/30/2013	EGY13-30	639	627	0	98.12	1.88	ASIA	Iran-05 ^{BAR-08}
6	A/EGY/6/2013	EGY13-06	639	627	0	98.12	1.88	ASIA	Iran-05 ^{BAR-08}
7	A/EGY/17/2013	EGY13-17	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
8	A/EGY/21/2013	EGY13-21	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
9	A/EGY/31/2013	EGY13-31	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
10	A/EGY/5/2013	EGY13-05	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
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/BAR/6/2008 (FJ755010)	BAR08-06	639	611	0	95.62	4.38	ASIA	Iran-05 ^{BAR-08}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	602	0	94.21	5.79	ASIA	Iran-05
3	A/AFG/6/2007 (FJ755007)	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
4	A/AFG/10/2010	AFG10-10	639	598	0	93.58	6.42	ASIA	Iran-05 ^{HER-10}
5	A/IRN/78/2009	IRN09-78	639	597	0	93.43	6.57	ASIA	Iran-05 ^{FAR-09}
6	A/IRN/15/2012	IRN12-15	639	594	0	92.96	7.04	ASIA	Iran-05 ^{SIS-12}
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	593	0	92.80	7.20	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/33/2008 (FJ755155)	TUR08-33	639	593	0	92.80	7.20	ASIA	Iran-05 ^{EZM-07}
9	A/IRN/1/2011	IRN11-01	639	592	0	92.64	7.36	ASIA	Iran-05 ^{FAR-11}
10	A/IRN/125/2010	IRN10125	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: RL-932/EGY/2015 Batch No: WRLMEG/2015/00010 Sender Ref: RL 932_Egypt_FMDV-A_2015 Location: Kafr Saad, Kafr Saad, Dommiatte, Egypt Date collected: 30/03/2015 Date received by WRLFMD: 10/07/2015 Date received for sequencing: Species: Cattle Material used: LFBK1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 14/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Iran-05 ^{BAR-08} Sequence filename: EGY15-AB.SEQ Date sequence last updated: 13/07/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2030 Min. no. of nt for comparison: 600 Total turn-around time: 4 days
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4	A/EGY/15/2013	EGY13-15	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
5	A/EGY/30/2013	EGY13-30	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
6	A/EGY/6/2013	EGY13-06	639	626	0	97.97	2.03	ASIA	Iran-05 ^{BAR-08}
7	A/EGY/17/2013	EGY13-17	639	625	0	97.81	2.19	ASIA	Iran-05 ^{BAR-08}
8	A/EGY/21/2013	EGY13-21	639	625	0	97.81	2.19	ASIA	Iran-05 ^{BAR-08}
9	A/EGY/31/2013	EGY13-31	639	625	0	97.81	2.19	ASIA	Iran-05 ^{BAR-08}
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1	A/BAR/6/2008 (FJ755010)	BAR08-06	639	610	0	95.46	4.54	ASIA	Iran-05 ^{BAR-08}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	601	0	94.05	5.95	ASIA	Iran-05
3	A/AFG/6/2007 (FJ755007)	AFG07-06	639	600	0	93.90	6.10	ASIA	Iran-05 ^{AFG-07}
4	A/AFG/10/2010	AFG10-10	639	597	0	93.43	6.57	ASIA	Iran-05 ^{HER-10}
5	A/IRN/78/2009	IRN09-78	639	596	0	93.27	6.73	ASIA	Iran-05 ^{FAR-09}
6	A/IRN/15/2012	IRN12-15	639	593	0	92.80	7.20	ASIA	Iran-05 ^{SIS-12}
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	592	0	92.64	7.36	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/33/2008 (FJ755155)	TUR08-33	639	592	0	92.64	7.36	ASIA	Iran-05 ^{EZM-07}
9	A/IRN/1/2011	IRN11-01	639	591	0	92.49	7.51	ASIA	Iran-05 ^{FAR-11}
10	A/IRN/125/2010	IRN10125	639	587	0	91.86	8.14	ASIA	Iran-05 ^{SIS-10}

nt, nucleotides

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Report on FMDV A in Egypt in 2014-2015

Batch: WRLMEG/2015/00010

◆ indicates viruses in this batch

Software: MEGA 6.06

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

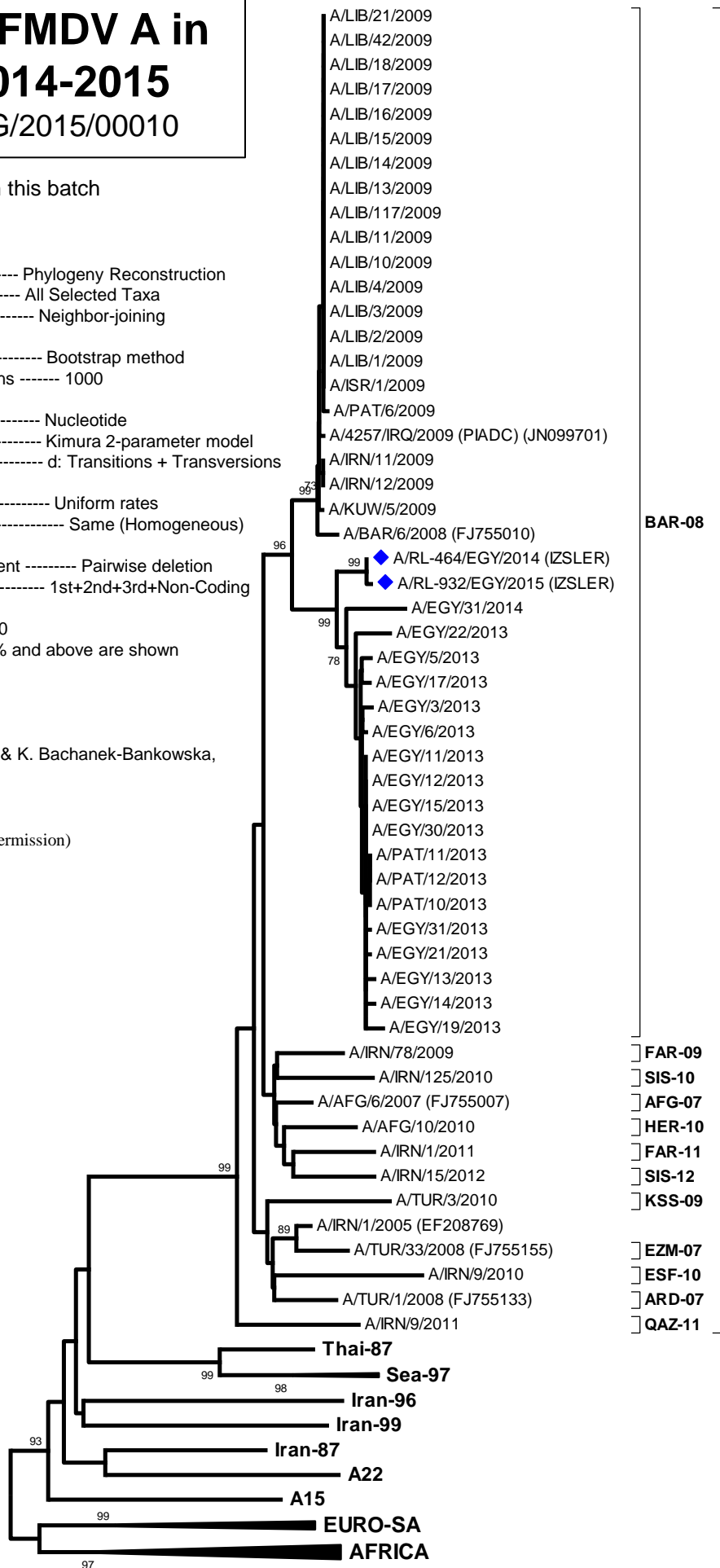
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
15 July 2015

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