

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

Genotyping Report

Date: 15 January 2010

Corrected: 22 February 2010 (Iran-05^{ARG} changed to Iran-05^{AFG})

FMDV type A

Country: Iran

Period: 2009

No. of isolates: 7

BATCH: WRLFMD/2010/00054



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Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

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<p>Serotype: A WRL Ref No: IRN/50/2009 Sender Ref: IR-88-70 Date collected: 16/07/2009 Date received by WRLFMD: 04/12/2009 Date received for sequencing: 12/01/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639</p>	<p>Report date: 15/01/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05^{AFG-07} Sequence filename: IRN09-50.SEQ Date sequence last updated: 15/01/2010 Total no. of comparisons: 1209 Min. no. of nt for comparison: 300 Total turn-around time: 42 days Sequencing time: 3 days</p>																																																																																								
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Serotype: A WRL Ref No: IRN/59/2009 Sender Ref: IR-88-59 Date collected: 27/07/2009 Date received by WRLFMD: 04/12/2009 Date received for sequencing: 12/01/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 15/01/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{AFG-07} Sequence filename: IRN09-59.SEQ Date sequence last updated: 15/01/2010 Total no. of comparisons: 1209 Min. no. of nt for comparison: 300 Total turn-around time: 42 days Sequencing time: 3 days																																																																																								
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Serotype: A WRL Ref No: IRN/63/2009 Sender Ref: IR-88-52 Date collected: 02/08/2009 Date received by WRLFMD: 04/12/2009 Date received for sequencing: 12/01/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 15/01/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{BAR-08} Sequence filename: IRN09-63.SEQ Date sequence last updated: 15/01/2010 Total no. of comparisons: 1209 Min. no. of nt for comparison: 300 Total turn-around time: 42 days Sequencing time: 3 days																																																																																								
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Molecular Epidemiology Report Form

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Serotype: A WRL Ref No: IRN/67/2009 Sender Ref: IR-88-72 Date collected: 01/09/2009 Date received by WRLFMD: 04/12/2009 Date received for sequencing: 12/01/2010 Species: Sheep Material used: BTy2 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 15/01/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{AFG-07} Sequence filename: IRN09-67.SEQ Date sequence last updated: 15/01/2010 Total no. of comparisons: 1209 Min. no. of nt for comparison: 300 Total turn-around time: 42 days Sequencing time: 3 days																																																																																								
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9	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	533	0	83.41	16.59																																																																																		
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	516	0	80.75	19.25																																																																																		
nt, nucleotides *, not a WRLFMD reference number																																																																																									

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

Serotype: A WRL Ref No: IRN/73/2009 Sender Ref: IR-88-55 Date collected: 01/01/2009 Date received by WRLFMD: 04/12/2009 Date received for sequencing: 12/01/2010 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 15/01/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{AFG-07} Sequence filename: IRN09-73.SEQ Date sequence last updated: 15/01/2010 Total no. of comparisons: 1209 Min. no. of nt for comparison: 300 Total turn-around time: 42 days Sequencing time: 3 days																																																																																								
Comments:																																																																																									
Ten Most Closely Related Viruses																																																																																									
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Report on FMDV A in Iran in 2009

Batch: WRLFMD/2009/00054

Software: MEGA 4.0

No. of Taxa : 191

Data File : n:\evd\meg\db\fmdv\al\IRN2009d.meg

Data Title : A Iran 2009

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference :

->Method : Neighbor-Joining

->Phylogeny Test and options : Bootstrap (1000 replicates; seed=4705)

Include Sites :

->Gaps/Missing Data : Pairwise Deletion

->Codon Positions : 1st+2nd+3rd+Noncoding
Substitution Model :

->Model : Nucleotide: Kimura 2-parameter

->Substitutions to Include : d: Transitions +
Transversions

->Pattern among Lineages : Same (Homogeneous)

->Rates among sites : Uniform rates

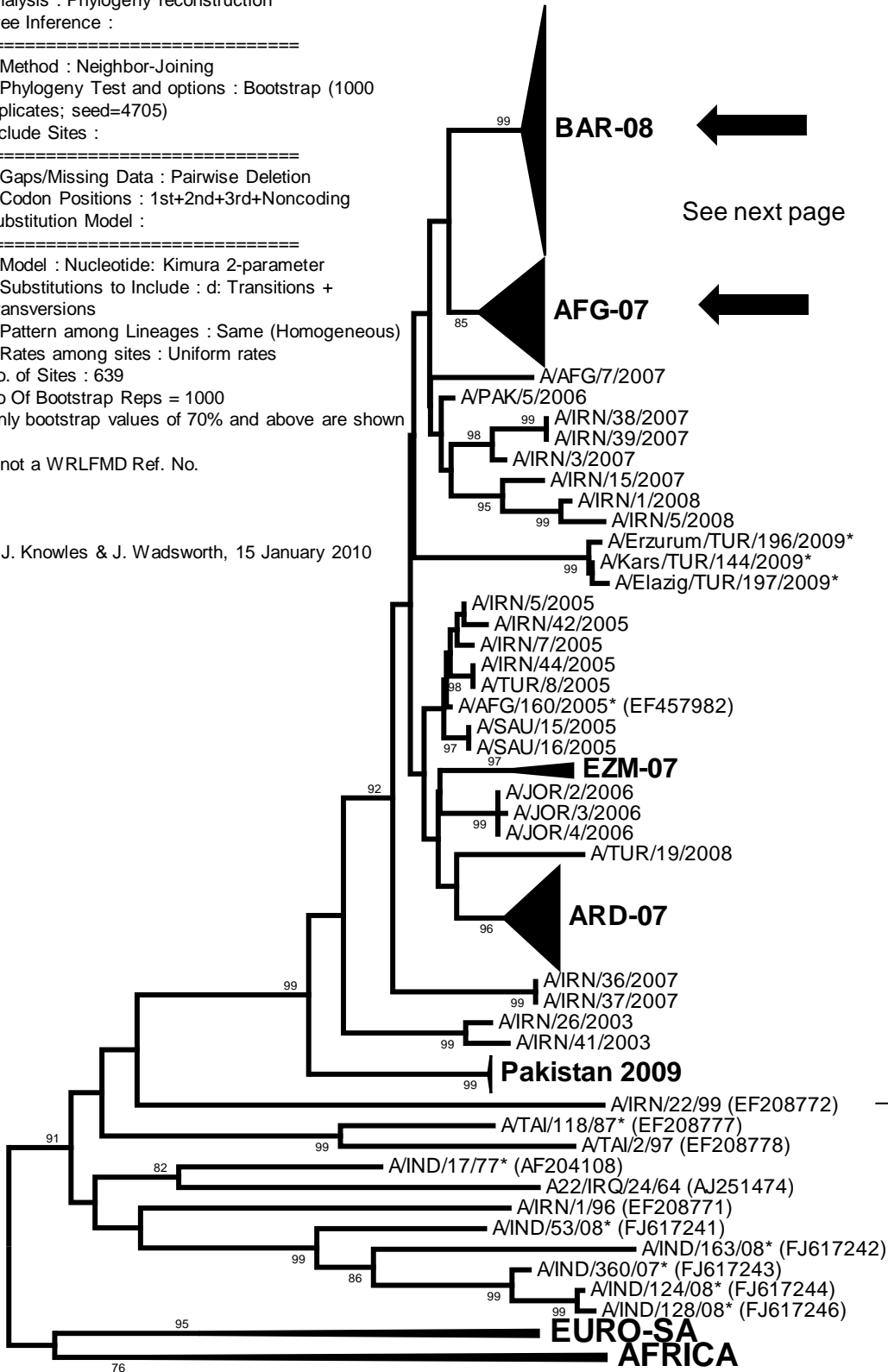
No. of Sites : 639

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 15 January 2010



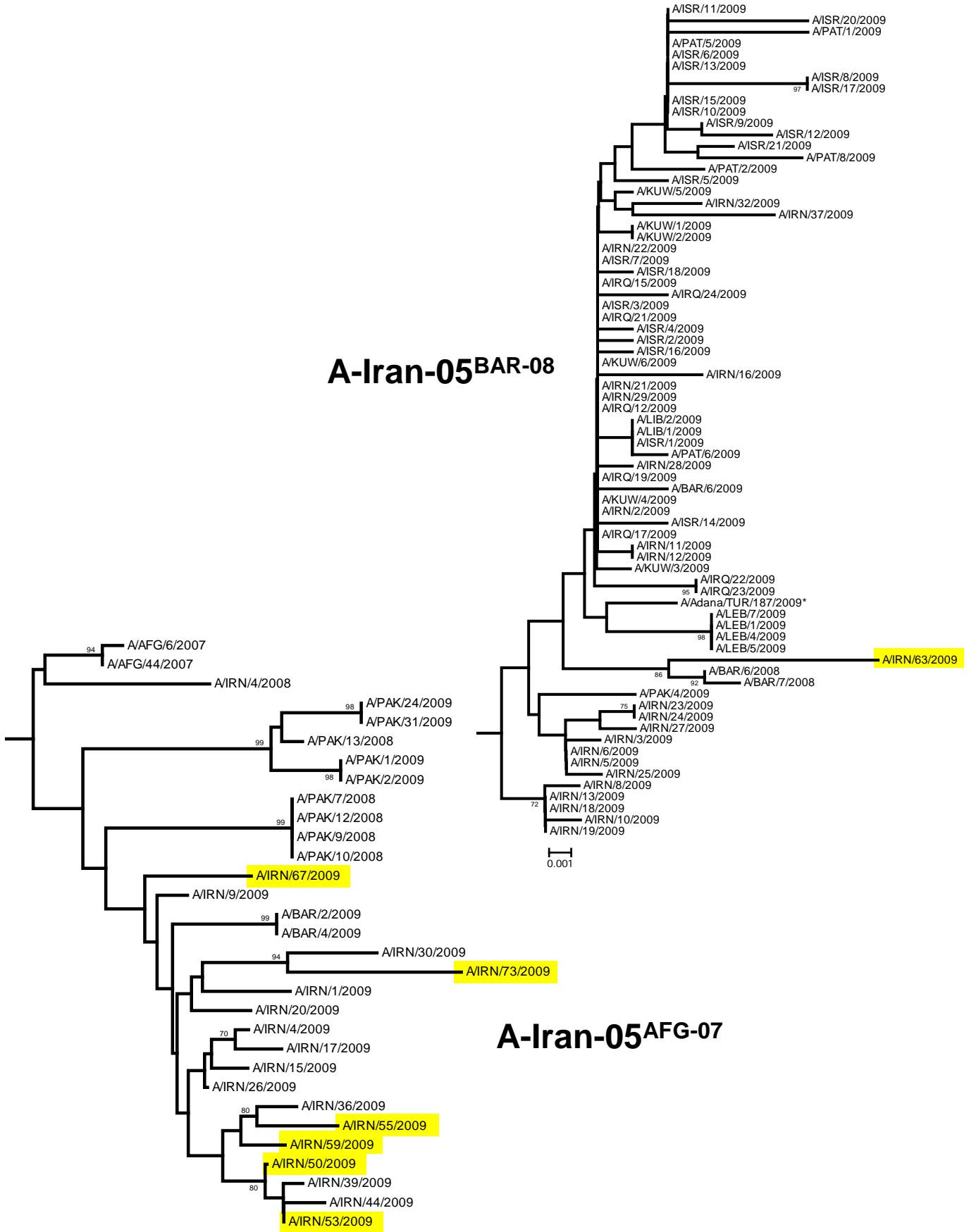
Iran-05

ASIA

0.02

Report on FMDV A in Iran in 2009

Batch: WRLFMD/2009/00054



0.002