

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

## Genotyping Report

Report Date for this Batch: 18 April 2016

FMDV type A

Country: Saudi Arabia

Period: 2015

No. of samples: 6

BATCH: WRLFMD/2016/00011



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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: 18/04/2016
WRLFMD Ref No: SAU/9/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00011	Checked by: K. Bachanek-Bankowska
Sender Ref: 9	
Location: not known, Saudi Arabia	Topotype: ASIA
Date collected: 05/10/2015	Genotype/strain: G-VII
Date received by WRLFMD: 29/03/2016	Sequence filename: SAU15-09.SEQ
Date received for sequencing: 14/04/2016	Date sequence last updated: 18/04/2016
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 03/03/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2134
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 20 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	A/SAU/1/2015 (KU127247)	SAU15-01	639	639	0	100.00	0.00	ASIA	G-VII
2	A/SAU/2/2015	SAU15-02	639	639	0	100.00	0.00	ASIA	G-VII
3	A/SAU/6/2015	SAU15-06	639	637	0	99.69	0.31	ASIA	G-VII
4	A/PD78/IND/2015* (PD-FMD)	IND15-AA	639	633	0	99.06	0.94	ASIA	G-VII
5	A/ARM/2/2015 (ARRIAH)	ARM15-AB	639	632	0	98.90	1.10	ASIA	G-VII
6	A/IRN/12/2015	IRN15-12	639	632	0	98.90	1.10	ASIA	G-VII
7	A/IRN/25/2015	IRN15-25	639	632	0	98.90	1.10	ASIA	G-VII
8	A/ARM/1/2015 (ARRIAH)	ARM15-AA	639	631	0	98.75	1.25	ASIA	G-VII
9	A/ARM/3/2015 (ARRIAH)	ARM15-AC	639	631	0	98.75	1.25	ASIA	G-VII
10	A/SAU/3/2015	SAU15-03	639	631	0	98.75	1.25	ASIA	G-VII
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IND/40/2000* (1999;AF390646)	IND00-40	639	575	0	89.98	10.02	ASIA	G-VII
2	A22/IRQ/64 (AY593763)	IRQ64--A	639	541	0	84.66	15.34	ASIA	A <sub>22</sub>
3	A/IRN/1/96 (EF208771)	IRN96-01	638	538	1	84.33	15.67	ASIA	Iran-96
4	A/IRN/2/87 (EF208770)	IRN87-02	636	533	0	83.81	16.19	ASIA	Iran-87
5	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	529	0	82.79	17.21	ASIA	A15
6	A12/UK/119/32 (M10975)	UKG32119	639	528	0	82.63	17.37	EURO-SA	A <sub>12</sub>
7	A/IRN/22/99 (EF208772)	IRN99-22	636	524	0	82.39	17.61	ASIA	Iran-99
8	A/AFG/10/2010	AFG10-10	639	525	0	82.16	17.84	ASIA	Iran-05 <sup>HER-10</sup>
9	A/IRN/9/2011	IRN11-09	639	525	0	82.16	17.84	ASIA	Iran-05 <sup>QAZ-11</sup>
10	A/TAI/118/87* (EF208777)	TAI87-AD	636	522	0	82.08	17.92	ASIA	Thai-87

nt, nucleotides

\*, not a WRLFMD reference number

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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: 18/04/2016
WRLFMD Ref No: SAU/14/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00011	Checked by: K. Bachanek-Bankowska
Sender Ref: 4	
Location: not known, Saudi Arabia	Topotype: ASIA
Date collected: 26/10/2015	Genotype/strain: G-VII
Date received by WRLFMD: 29/03/2016	Sequence filename: SAU15-14.SEQ
Date received for sequencing: 14/04/2016	Date sequence last updated: 18/04/2016
Species: Ovine	No. of Nt determined: 639
Material used: BTy1 05/04/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2134
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 20 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	A/SAU/15/2015	SAU15-15	639	639	0	100.00	0.00	ASIA	G-VII
2	A/SAU/16/2015	SAU15-16	639	639	0	100.00	0.00	ASIA	G-VII
3	A/SAU/17/2015	SAU15-17	639	639	0	100.00	0.00	ASIA	G-VII
4	A/SAU/21/2015	SAU15-21	639	638	0	99.84	0.16	ASIA	G-VII
5	A/SAU/7/2015	SAU15-07	639	638	0	99.84	0.16	ASIA	G-VII
6	A/SAU/5/2015	SAU15-05	639	637	0	99.69	0.31	ASIA	G-VII
7	A/SAU/8/2015	SAU15-08	639	631	0	98.75	1.25	ASIA	G-VII
8	A/PD78/IND/2015* (PD-FMD)	IND15-AA	639	630	0	98.59	1.41	ASIA	G-VII
9	A/IRN/12/2015	IRN15-12	639	629	0	98.44	1.56	ASIA	G-VII
10	A/IRN/25/2015	IRN15-25	639	629	0	98.44	1.56	ASIA	G-VII
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IND/40/2000* (1999;AF390646)	IND00-40	639	575	0	89.98	10.02	ASIA	G-VII
2	A22/IRQ/64 (AY593763)	IRQ64--A	639	538	0	84.19	15.81	ASIA	A <sub>22</sub>
3	A/IRN/1/96 (EF208771)	IRN96-01	638	533	1	83.54	16.46	ASIA	Iran-96
4	A/IRN/2/87 (EF208770)	IRN87-02	636	531	0	83.49	16.51	ASIA	Iran-87
5	A12/UK/119/32 (M10975)	UKG32119	639	529	0	82.79	17.21	EURO-SA	A <sub>12</sub>
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	526	0	82.32	17.68	ASIA	A15
7	A/IRN/22/99 (EF208772)	IRN99-22	636	523	0	82.23	17.77	ASIA	Iran-99
8	A/AFG/10/2010	AFG10-10	639	524	0	82.00	18.00	ASIA	Iran-05 <sup>HER-10</sup>
9	A/IRN/15/2012	IRN12-15	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>SIS-12</sup>
10	A/IRN/9/2011	IRN11-09	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>QAZ-11</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 18/04/2016
WRLFMD Ref No: SAU/15/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00011	Checked by: K. Bachanek-Bankowska
Sender Ref: 5	
Location: not known, Saudi Arabia	Topotype: ASIA
Date collected: 26/10/2015	Genotype/strain: G-VII
Date received by WRLFMD: 29/03/2016	Sequence filename: SAU15-15.SEQ
Date received for sequencing: 14/04/2016	Date sequence last updated: 18/04/2016
Species: Ovine	No. of Nt determined: 639
Material used: BTy1 05/04/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2134
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 20 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	A/SAU/14/2015	SAU15-14	639	639	0	100.00	0.00	ASIA	G-VII
2	A/SAU/16/2015	SAU15-16	639	639	0	100.00	0.00	ASIA	G-VII
3	A/SAU/17/2015	SAU15-17	639	639	0	100.00	0.00	ASIA	G-VII
4	A/SAU/21/2015	SAU15-21	639	638	0	99.84	0.16	ASIA	G-VII
5	A/SAU/7/2015	SAU15-07	639	638	0	99.84	0.16	ASIA	G-VII
6	A/SAU/5/2015	SAU15-05	639	637	0	99.69	0.31	ASIA	G-VII
7	A/SAU/8/2015	SAU15-08	639	631	0	98.75	1.25	ASIA	G-VII
8	A/PD78/IND/2015* (PD-FMD)	IND15-AA	639	630	0	98.59	1.41	ASIA	G-VII
9	A/IRN/12/2015	IRN15-12	639	629	0	98.44	1.56	ASIA	G-VII
10	A/IRN/25/2015	IRN15-25	639	629	0	98.44	1.56	ASIA	G-VII
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IND/40/2000* (1999;AF390646)	IND00-40	639	575	0	89.98	10.02	ASIA	G-VII
2	A22/IRQ/64 (AY593763)	IRQ64--A	639	538	0	84.19	15.81	ASIA	A <sub>22</sub>
3	A/IRN/1/96 (EF208771)	IRN96-01	638	533	1	83.54	16.46	ASIA	Iran-96
4	A/IRN/2/87 (EF208770)	IRN87-02	636	531	0	83.49	16.51	ASIA	Iran-87
5	A12/UK/119/32 (M10975)	UKG32119	639	529	0	82.79	17.21	EURO-SA	A <sub>12</sub>
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	526	0	82.32	17.68	ASIA	A15
7	A/IRN/22/99 (EF208772)	IRN99-22	636	523	0	82.23	17.77	ASIA	Iran-99
8	A/AFG/10/2010	AFG10-10	639	524	0	82.00	18.00	ASIA	Iran-05 <sup>HER-10</sup>
9	A/IRN/15/2012	IRN12-15	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>SIS-12</sup>
10	A/IRN/9/2011	IRN11-09	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>QAZ-11</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 18/04/2016
WRLFMD Ref No: SAU/16/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00011	Checked by: K. Bachanek-Bankowska
Sender Ref: 6	
Location: not known, Saudi Arabia	Topotype: ASIA
Date collected: 26/10/2015	Genotype/strain: G-VII
Date received by WRLFMD: 29/03/2016	Sequence filename: SAU15-16.SEQ
Date received for sequencing: 14/04/2016	Date sequence last updated: 18/04/2016
Species: Ovine	No. of Nt determined: 639
Material used: BTy1 06/04/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2134
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 20 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	A/SAU/14/2015	SAU15-14	639	639	0	100.00	0.00	ASIA	G-VII
2	A/SAU/15/2015	SAU15-15	639	639	0	100.00	0.00	ASIA	G-VII
3	A/SAU/17/2015	SAU15-17	639	639	0	100.00	0.00	ASIA	G-VII
4	A/SAU/21/2015	SAU15-21	639	638	0	99.84	0.16	ASIA	G-VII
5	A/SAU/7/2015	SAU15-07	639	638	0	99.84	0.16	ASIA	G-VII
6	A/SAU/5/2015	SAU15-05	639	637	0	99.69	0.31	ASIA	G-VII
7	A/SAU/8/2015	SAU15-08	639	631	0	98.75	1.25	ASIA	G-VII
8	A/PD78/IND/2015* (PD-FMD)	IND15-AA	639	630	0	98.59	1.41	ASIA	G-VII
9	A/IRN/12/2015	IRN15-12	639	629	0	98.44	1.56	ASIA	G-VII
10	A/IRN/25/2015	IRN15-25	639	629	0	98.44	1.56	ASIA	G-VII
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IND/40/2000* (1999;AF390646)	IND00-40	639	575	0	89.98	10.02	ASIA	G-VII
2	A22/IRQ/64 (AY593763)	IRQ64--A	639	538	0	84.19	15.81	ASIA	A <sub>22</sub>
3	A/IRN/1/96 (EF208771)	IRN96-01	638	533	1	83.54	16.46	ASIA	Iran-96
4	A/IRN/2/87 (EF208770)	IRN87-02	636	531	0	83.49	16.51	ASIA	Iran-87
5	A12/UK/119/32 (M10975)	UKG32119	639	529	0	82.79	17.21	EURO-SA	A <sub>12</sub>
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	526	0	82.32	17.68	ASIA	A15
7	A/IRN/22/99 (EF208772)	IRN99-22	636	523	0	82.23	17.77	ASIA	Iran-99
8	A/AFG/10/2010	AFG10-10	639	524	0	82.00	18.00	ASIA	Iran-05 <sup>HER-10</sup>
9	A/IRN/15/2012	IRN12-15	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>SIS-12</sup>
10	A/IRN/9/2011	IRN11-09	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>QAZ-11</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 18/04/2016
WRLFMD Ref No: SAU/17/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00011	Checked by: K. Bachanek-Bankowska
Sender Ref: 7	
Location: not known, Saudi Arabia	Topotype: ASIA
Date collected: 26/10/2015	Genotype/strain: G-VII
Date received by WRLFMD: 29/03/2016	Sequence filename: SAU15-17.SEQ
Date received for sequencing: 14/04/2016	Date sequence last updated: 18/04/2016
Species: Ovine	No. of Nt determined: 639
Material used: BTy1 06/04/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2134
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 20 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	A/SAU/14/2015	SAU15-14	639	639	0	100.00	0.00	ASIA	G-VII
2	A/SAU/15/2015	SAU15-15	639	639	0	100.00	0.00	ASIA	G-VII
3	A/SAU/16/2015	SAU15-16	639	639	0	100.00	0.00	ASIA	G-VII
4	A/SAU/21/2015	SAU15-21	639	638	0	99.84	0.16	ASIA	G-VII
5	A/SAU/7/2015	SAU15-07	639	638	0	99.84	0.16	ASIA	G-VII
6	A/SAU/5/2015	SAU15-05	639	637	0	99.69	0.31	ASIA	G-VII
7	A/SAU/8/2015	SAU15-08	639	631	0	98.75	1.25	ASIA	G-VII
8	A/PD78/IND/2015* (PD-FMD)	IND15-AA	639	630	0	98.59	1.41	ASIA	G-VII
9	A/IRN/12/2015	IRN15-12	639	629	0	98.44	1.56	ASIA	G-VII
10	A/IRN/25/2015	IRN15-25	639	629	0	98.44	1.56	ASIA	G-VII
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IND/40/2000* (1999;AF390646)	IND00-40	639	575	0	89.98	10.02	ASIA	G-VII
2	A22/IRQ/64 (AY593763)	IRQ64--A	639	538	0	84.19	15.81	ASIA	A <sub>22</sub>
3	A/IRN/1/96 (EF208771)	IRN96-01	638	533	1	83.54	16.46	ASIA	Iran-96
4	A/IRN/2/87 (EF208770)	IRN87-02	636	531	0	83.49	16.51	ASIA	Iran-87
5	A12/UK/119/32 (M10975)	UKG32119	639	529	0	82.79	17.21	EURO-SA	A <sub>12</sub>
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	526	0	82.32	17.68	ASIA	A15
7	A/IRN/22/99 (EF208772)	IRN99-22	636	523	0	82.23	17.77	ASIA	Iran-99
8	A/AFG/10/2010	AFG10-10	639	524	0	82.00	18.00	ASIA	Iran-05 <sup>HER-10</sup>
9	A/IRN/15/2012	IRN12-15	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>SIS-12</sup>
10	A/IRN/9/2011	IRN11-09	639	522	0	81.69	18.31	ASIA	Iran-05 <sup>QAZ-11</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: A	Report date: 18/04/2016
WRLFMD Ref No: SAU/21/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00011	Checked by: K. Bachanek-Bankowska
Sender Ref: 12	
Location: not known, Saudi Arabia	Topotype: ASIA
Date collected: 22/12/2015	Genotype/strain: G-VII
Date received by WRLFMD: 29/03/2016	Sequence filename: SAU15-21.SEQ
Date received for sequencing: 14/04/2016	Date sequence last updated: 18/04/2016
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 07/04/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2134
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 20 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	A/SAU/7/2015	SAU15-07	639	639	0	100.00	0.00	ASIA	G-VII
2	A/SAU/14/2015	SAU15-14	639	638	0	99.84	0.16	ASIA	G-VII
3	A/SAU/15/2015	SAU15-15	639	638	0	99.84	0.16	ASIA	G-VII
4	A/SAU/16/2015	SAU15-16	639	638	0	99.84	0.16	ASIA	G-VII
5	A/SAU/17/2015	SAU15-17	639	638	0	99.84	0.16	ASIA	G-VII
6	A/SAU/5/2015	SAU15-05	639	638	0	99.84	0.16	ASIA	G-VII
7	A/SAU/8/2015	SAU15-08	639	632	0	98.90	1.10	ASIA	G-VII
8	A/PD78/IND/2015* (PD-FMD)	IND15-AA	639	631	0	98.75	1.25	ASIA	G-VII
9	A/IRN/12/2015	IRN15-12	639	630	0	98.59	1.41	ASIA	G-VII
10	A/IRN/25/2015	IRN15-25	639	630	0	98.59	1.41	ASIA	G-VII
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IND/40/2000* (1999;AF390646)	IND00-40	639	574	0	89.83	10.17	ASIA	G-VII
2	A22/IRQ/64 (AY593763)	IRQ64--A	639	539	0	84.35	15.65	ASIA	A <sub>22</sub>
3	A/IRN/1/96 (EF208771)	IRN96-01	638	534	1	83.70	16.30	ASIA	Iran-96
4	A/IRN/2/87 (EF208770)	IRN87-02	636	530	0	83.33	16.67	ASIA	Iran-87
5	A12/UK/119/32 (M10975)	UKG32119	639	528	0	82.63	17.37	EURO-SA	A <sub>12</sub>
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	527	0	82.47	17.53	ASIA	A15
7	A/IRN/22/99 (EF208772)	IRN99-22	636	524	0	82.39	17.61	ASIA	Iran-99
8	A/AFG/10/2010	AFG10-10	639	525	0	82.16	17.84	ASIA	Iran-05 <sup>HER-10</sup>
9	A/IRN/9/2011	IRN11-09	639	523	0	81.85	18.15	ASIA	Iran-05 <sup>QAZ-11</sup>
10	A/IRN/125/2010	IRN10125	639	521	0	81.53	18.47	ASIA	Iran-05 <sup>SIS-10</sup>

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.4

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# Report on FMDV A in Saudi Arabia in 2015

Batch: WRLFMD/2016/00011

◆ 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 : 639

No Of Bootstrap Reps = 1000

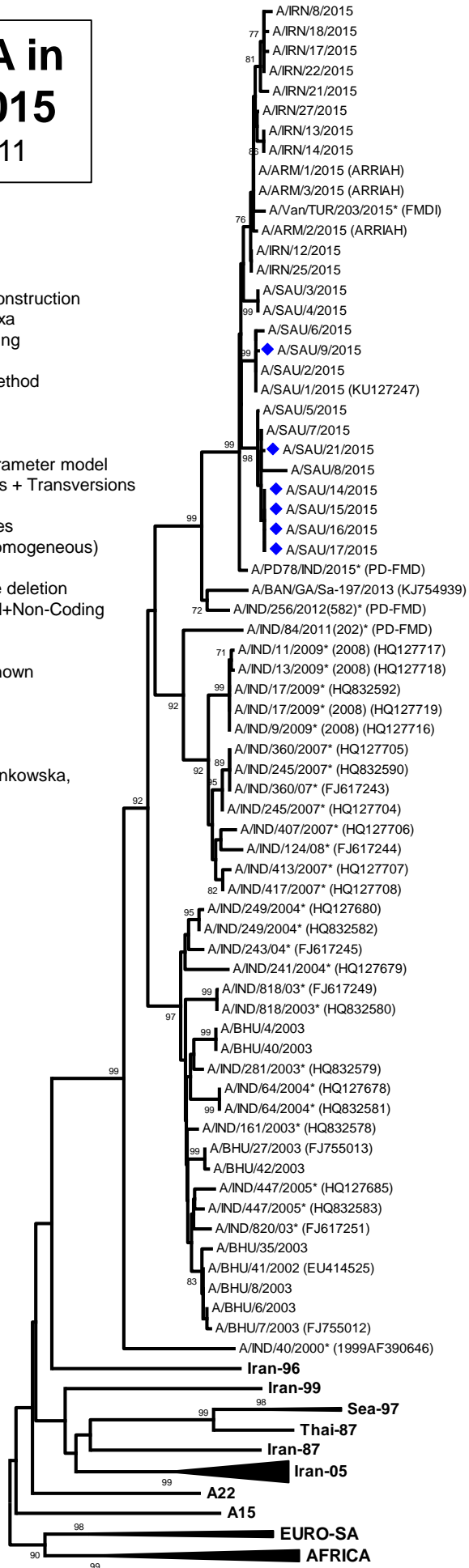
Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,  
18 April 2016

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G-VII (G-18)

ASIA

0.02