

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

## Genotyping Report

Report Date for this Batch: 6 February 2014

FMDV type O

Country: Israel

Period: 2014

No. of samples: 6

BATCH: WRLFMD/2014/00001



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# FAO World Reference Laboratory for FMD Genotyping Report

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

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Serotype: O WRLFMD Ref No: ISR/1/2014 Batch No: WRLFMD/2014/00001 Sender Ref: 188210 Nazareth heart 1 Location: Iksal, Hazafon, Rishon-Lezion, Israel Date collected: 11/01/2014 Date received by WRLFMD: 24/01/2014 Date received for sequencing: 31/01/2014 Species: Sheep Material used: BTy1 28/01/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/02/2014 Reported by: N.J. Knowles Checked by: J. Wadsworth  Topotype: ME-SA Genotype/strain: PanAsia-2 <sup>FAR-09</sup> Sequence filename: ISR14-01.SEQ Date sequence last updated: 06/02/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3761 Min. no. of nt for comparison: 600 Total turn-around time: 13 days Sequencing time: 6 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/ISR/2/2014	ISR14-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/ISR/3/2014	ISR14-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
3	O/ISR/4/2014	ISR14-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/PAT/13/2013	PAT13-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/PAT/14/2013	PAT13-14	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
6	O/ISR/5/2014	ISR14-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
7	O/ISR/6/2014	ISR14-06	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/SAU/1/2009	SAU09-01	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
9	O/SAU/2/2009	SAU09-02	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
10	O/TUR/12/2013	TUR13-12	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
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	O/IRN/31/2009	IRN09-31	639	627	0	98.12	1.88	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 <sup>BAL-09</sup>
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 <sup>TER-08</sup>
5	O/PAK/16/2010	PAK10-16	639	600	0	93.90	6.10	ME-SA	PanAsia-2 <sup>PUN-10</sup>
6	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>ANT-10</sup>
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>SAN-09</sup>
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	587	0	91.86	8.14	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: ISR/2/2014 Batch No: WRLFMD/2014/00001 Sender Ref: 188210 Nazareth heart 3 Location: Iksal, Hazafon, Rishon-Lezion, Israel Date collected: 11/01/2014 Date received by WRLFMD: 24/01/2014 Date received for sequencing: 31/01/2014 Species: Sheep Material used: BTy1 28/01/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/02/2014 Reported by: N.J. Knowles Checked by: J. Wadsworth Topotype: ME-SA Genotype/strain: PanAsia-2 <sup>FAR-09</sup> Sequence filename: ISR14-02.SEQ Date sequence last updated: 06/02/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3761 Min. no. of nt for comparison: 600 Total turn-around time: 13 days Sequencing time: 6 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/ISR/1/2014	ISR14-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/ISR/3/2014	ISR14-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
3	O/ISR/4/2014	ISR14-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/PAT/13/2013	PAT13-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/PAT/14/2013	PAT13-14	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
6	O/ISR/5/2014	ISR14-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
7	O/ISR/6/2014	ISR14-06	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/SAU/1/2009	SAU09-01	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
9	O/SAU/2/2009	SAU09-02	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
10	O/TUR/12/2013	TUR13-12	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
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	O/IRN/31/2009	IRN09-31	639	627	0	98.12	1.88	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 <sup>BAL-09</sup>
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 <sup>TER-08</sup>
5	O/PAK/16/2010	PAK10-16	639	600	0	93.90	6.10	ME-SA	PanAsia-2 <sup>PUN-10</sup>
6	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>ANT-10</sup>
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>SAN-09</sup>
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	587	0	91.86	8.14	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: ISR/3/2014 Batch No: WRLFMD/2014/00001 Sender Ref: 188210 Nazareth heart 1, pass 1 (30h) Location: Iksal, Hazafon, Rishon-Lezion, Israel Date collected: 12/01/2014 Date received by WRLFMD: 24/01/2014 Date received for sequencing: 31/01/2014 Species: Sheep Material used: BTy1 28/01/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/02/2014 Reported by: N.J. Knowles Checked by: J. Wadsworth  Topotype: ME-SA Genotype/strain: PanAsia-2 <sup>FAR-09</sup> Sequence filename: ISR14-03.SEQ Date sequence last updated: 06/02/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3761 Min. no. of nt for comparison: 600 Total turn-around time: 13 days Sequencing time: 6 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/ISR/1/2014	ISR14-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/ISR/2/2014	ISR14-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
3	O/ISR/4/2014	ISR14-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/PAT/13/2013	PAT13-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/PAT/14/2013	PAT13-14	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
6	O/ISR/5/2014	ISR14-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
7	O/ISR/6/2014	ISR14-06	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/SAU/1/2009	SAU09-01	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
9	O/SAU/2/2009	SAU09-02	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
10	O/TUR/12/2013	TUR13-12	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/find_genotyping/prototypes.htm">http://www.wrlfmd.org/find_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/31/2009	IRN09-31	639	627	0	98.12	1.88	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 <sup>BAL-09</sup>
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 <sup>TER-08</sup>
5	O/PAK/16/2010	PAK10-16	639	600	0	93.90	6.10	ME-SA	PanAsia-2 <sup>PUN-10</sup>
6	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>ANT-10</sup>
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>SAN-09</sup>
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	587	0	91.86	8.14	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: ISR/4/2014 Batch No: WRLFMD/2014/00001 Sender Ref: 188210 Nazareth heart 3, pass 1 (30h) Location: Iskal, Hazafon, Rishon-Lezion, Israel Date collected: 12/01/2014 Date received by WRLFMD: 24/01/2014 Date received for sequencing: 31/01/2014 Species: Sheep Material used: BTy1 28/01/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/02/2014 Reported by: N.J. Knowles Checked by: J. Wadsworth Topotype: ME-SA Genotype/strain: PanAsia-2 <sup>FAR-09</sup> Sequence filename: ISR14-04.SEQ Date sequence last updated: 06/02/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3761 Min. no. of nt for comparison: 600 Total turn-around time: 13 days Sequencing time: 6 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/ISR/1/2014	ISR14-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/ISR/2/2014	ISR14-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
3	O/ISR/3/2014	ISR14-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/PAT/13/2013	PAT13-13	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/PAT/14/2013	PAT13-14	639	637	0	99.69	0.31	ME-SA	PanAsia-2 <sup>FAR-09</sup>
6	O/ISR/5/2014	ISR14-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
7	O/ISR/6/2014	ISR14-06	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/SAU/1/2009	SAU09-01	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
9	O/SAU/2/2009	SAU09-02	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
10	O/TUR/12/2013	TUR13-12	639	629	0	98.44	1.56	ME-SA	PanAsia-2 <sup>FAR-09</sup>
<b>Most Closely Related Reference Viruses</b>									
(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	O/IRN/31/2009	IRN09-31	639	627	0	98.12	1.88	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 <sup>BAL-09</sup>
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 <sup>TER-08</sup>
5	O/PAK/16/2010	PAK10-16	639	600	0	93.90	6.10	ME-SA	PanAsia-2 <sup>PUN-10</sup>
6	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>ANT-10</sup>
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>SAN-09</sup>
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	587	0	91.86	8.14	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 06/02/2014
WRLFMD Ref No: ISR/5/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00001	Checked by: J. Wadsworth
Sender Ref: 188656 Tirah heart	
Location: Tirah, Israel	Topotype: ME-SA
Date collected: 15/01/2014	Genotype/strain: PanAsia-2 <sup>FAR-09</sup>
Date received by WRLFMD: 24/01/2014	Sequence filename: ISR14-05.SEQ
Date received for sequencing: 31/01/2014	Date sequence last updated: 06/02/2014
Species: Sheep	No. of Nt determined: 639
Material used: BTy1 28/01/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3761
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 13 days
	Sequencing time: 6 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/ISR/6/2014	ISR14-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/PAT/13/2013	PAT13-13	639	634	0	99.22	0.78	ME-SA	PanAsia-2 <sup>FAR-09</sup>
3	O/PAT/14/2013	PAT13-14	639	634	0	99.22	0.78	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/ISR/1/2014	ISR14-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/ISR/2/2014	ISR14-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
6	O/ISR/3/2014	ISR14-03	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
7	O/ISR/4/2014	ISR14-04	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/TUR/12/2013	TUR13-12	639	625	0	97.81	2.19	ME-SA	PanAsia-2 <sup>FAR-09</sup>
9	O/TUR/24/2013	TUR13-24	639	625	0	97.81	2.19	ME-SA	PanAsia-2 <sup>FAR-09</sup>
10	O/TUR/26/2013	TUR13-26	639	625	0	97.81	2.19	ME-SA	PanAsia-2 <sup>FAR-09</sup>
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	O/IRN/31/2009	IRN09-31	639	623	0	97.50	2.50	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 <sup>BAL-09</sup>
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 <sup>TER-08</sup>
4	O/PAK/16/2010	PAK10-16	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>PUN-10</sup>
5	O/IRN/8/2005	IRN05-08	639	595	0	93.11	6.89	ME-SA	PanAsia-2
6	O/IRN/88/2009	IRN09-88	639	592	0	92.64	7.36	ME-SA	PanAsia-2 <sup>ANT-10</sup>
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 <sup>SAN-09</sup>
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	572	0	89.51	10.49	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: ISR/6/2014 Batch No: WRLFMD/2014/00001 Sender Ref: 188656 Tirah heart, pass 1 (14h) Location: Tirah, Israel Date collected: 16/01/2014 Date received by WRLFMD: 24/01/2014 Date received for sequencing: 31/01/2014 Species: Sheep Material used: BTy1 28/01/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 06/02/2014 Reported by: N.J. Knowles Checked by: J. Wadsworth Topotype: ME-SA Genotype/strain: PanAsia-2 <sup>FAR-09</sup> Sequence filename: ISR14-06.SEQ Date sequence last updated: 06/02/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3761 Min. no. of nt for comparison: 600 Total turn-around time: 13 days Sequencing time: 6 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/ISR/5/2014	ISR14-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/PAT/13/2013	PAT13-13	639	634	0	99.22	0.78	ME-SA	PanAsia-2 <sup>FAR-09</sup>
3	O/PAT/14/2013	PAT13-14	639	634	0	99.22	0.78	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/ISR/1/2014	ISR14-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
5	O/ISR/2/2014	ISR14-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
6	O/ISR/3/2014	ISR14-03	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
7	O/ISR/4/2014	ISR14-04	639	632	0	98.90	1.10	ME-SA	PanAsia-2 <sup>FAR-09</sup>
8	O/TUR/12/2013	TUR13-12	639	625	0	97.81	2.19	ME-SA	PanAsia-2 <sup>FAR-09</sup>
9	O/TUR/24/2013	TUR13-24	639	625	0	97.81	2.19	ME-SA	PanAsia-2 <sup>FAR-09</sup>
10	O/TUR/26/2013	TUR13-26	639	625	0	97.81	2.19	ME-SA	PanAsia-2 <sup>FAR-09</sup>

### Most Closely Related Reference Viruses

(see [http://www.wrlfmd.org/fmd\\_genotyping/prototypes.htm](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/IRN/31/2009	IRN09-31	639	623	0	97.50	2.50	ME-SA	PanAsia-2 <sup>FAR-09</sup>
2	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 <sup>BAL-09</sup>
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 <sup>TER-08</sup>
4	O/PAK/16/2010	PAK10-16	639	596	0	93.27	6.73	ME-SA	PanAsia-2 <sup>PUN-10</sup>
5	O/IRN/8/2005	IRN05-08	639	595	0	93.11	6.89	ME-SA	PanAsia-2
6	O/IRN/88/2009	IRN09-88	639	592	0	92.64	7.36	ME-SA	PanAsia-2 <sup>ANT-10</sup>
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 <sup>SAN-09</sup>
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	572	0	89.51	10.49	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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# Report on FMDV O in Israel in 2014

Batch: WRLFMD/2014/00001

◆ indicates viruses in this batch

Software: MEGA 5.2

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 : 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,  
06 February 2014

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