

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

Genotyping Report

Report Date for this Batch: 3 July 2013

FMDV type O

Country: Turkey

Period: 2013

No. of samples: 13

BATCH: WRLFMD/2013/00006



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: TUR/3/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-26 Location: Avsar, Soke, Aydin, West Anatolia, Turkey Date collected: 04/01/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 03/06/2013 Species: Cattle Material used: BTy1 17/05/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: TUR13-03.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 30 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/TUR/71/2011	TUR11-71	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/SAU/45/2011* (JUST)	SAU11-AC	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
3	O/ISR/6/2011	ISR11-06	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
4	O/ISR/9/2011	ISR11-09	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
5	O/ISR/11/2011	ISR11-11	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
6	O/ISR/12/2011	ISR11-12	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
7	O/ISR/13/2011	ISR11-13	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
8	O/ISR/17/2011	ISR11-17	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
9	O/ISR/22/2011	ISR11-22	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
10	O/ISR/26/2011	ISR11-26	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
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	O/IRN/88/2009	IRN09-88	639	621	0	97.18	2.82	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/BHU/3/2009	BHU09-03	639	569	0	89.05	10.95	ME-SA	Ind-2001d
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/12/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-60 Location: Asagikuzfindik, Inonu, Eskisehir, Central Anatolia, Turkey Date collected: 09/02/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 03/06/2013 Species: Cattle Material used: BTy1 21/05/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-12.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 30 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/TUR/26/2013	TUR13-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/38/2013	TUR13-38	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/25/2013	TUR13-25	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/33/2013	TUR13-33	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/37/2013	TUR13-37	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/24/2013	TUR13-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/27/2013	TUR13-27	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/29/2013	TUR13-29	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	593	0	92.80	7.20	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	574	0	89.83	10.17	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/15/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-76 Location: Karacercili, Tarsus, Mersin, Mediterranean, Turkey Date collected: 21/02/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 14/06/2013 Species: Cattle Material used: BTy1 31/05/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-15.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 19 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/IRN/31/2009	IRN09-31	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
2	O/IRN/52/2009	IRN09-52	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/60/2009	IRN09-60	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/62/2011	IRN11-62	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/79/2009	IRN09-79	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
6	O/IRN 12463/2012*	IRN12-AQ	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
7	O/SAU/1/2009	SAU09-01	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
8	O/SAU/2/2009	SAU09-02	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
9	O/IRN/21/2012	IRN12-21	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{FAR-09}
10	O/IRN/41/2009	IRN09-41	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{FAR-09}
2	O/IRN/18/2010	IRN10-18	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{BAL-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
6	O/IRN/88/2009	IRN09-88	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	572	0	89.51	10.49	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/24/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-88 Location: Yabalak, Merkez, Sivas, Central Anatolia, Turkey Date collected: 26/02/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 14/06/2013 Species: Cattle Material used: BTy1 11/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-24.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 19 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/TUR/29/2013	TUR13-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/12/2013	TUR13-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/26/2013	TUR13-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/38/2013	TUR13-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/25/2013	TUR13-25	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/33/2013	TUR13-33	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/37/2013	TUR13-37	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/27/2013	TUR13-27	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{FAR-09}
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{BAL-09}
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	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	574	0	89.83	10.17	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/25/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-109 Location: Duzkoy, Merkez, Ordu, Medium Black Sea, Turkey Date collected: 02/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy1 11/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-25.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/12/2013	TUR13-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/26/2013	TUR13-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/38/2013	TUR13-38	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/33/2013	TUR13-33	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/37/2013	TUR13-37	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/24/2013	TUR13-24	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/27/2013	TUR13-27	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/29/2013	TUR13-29	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	606	0	94.84	5.16	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	594	0	92.96	7.04	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	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: TUR/26/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-134 Location: Koklu, Merkez, Kastamonu, Middle Black Sea, Turkey Date collected: 06/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy2 13/06/2013 Region sequenced: VPI RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-26.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/12/2013	TUR13-12	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/38/2013	TUR13-38	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/25/2013	TUR13-25	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/33/2013	TUR13-33	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/37/2013	TUR13-37	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/24/2013	TUR13-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/27/2013	TUR13-27	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/29/2013	TUR13-29	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	593	0	92.80	7.20	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	574	0	89.83	10.17	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/27/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-138 Location: Candir, Merkez, Balikesir, West Anatolia, Turkey Date collected: 08/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 14/06/2013 Species: Cattle Material used: BTy1 11/06/2013 Region sequenced: VPI RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-27.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 19 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/TUR/12/2013	TUR13-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/26/2013	TUR13-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/38/2013	TUR13-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/25/2013	TUR13-25	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/33/2013	TUR13-33	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/37/2013	TUR13-37	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/24/2013	TUR13-24	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/29/2013	TUR13-29	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	574	0	89.83	10.17	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/29/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-149 Location: Yesilova, Tufanbeyli, Adana, Mediterranean, Turkey Date collected: 10/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy1 12/06/2013 Region sequenced: VPI RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-29.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/24/2013	TUR13-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/12/2013	TUR13-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/26/2013	TUR13-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/38/2013	TUR13-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/25/2013	TUR13-25	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/33/2013	TUR13-33	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/37/2013	TUR13-37	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/27/2013	TUR13-27	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{FAR-09}
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{BAL-09}
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	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	574	0	89.83	10.17	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/31/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-165 Location: Efendibey Mah, Merkez, Nigde, Central Anatolia, Turkey Date collected: 12/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 14/06/2013 Species: Cattle Material used: BTy1 12/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-31.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 19 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/TUR/12/2013	TUR13-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/26/2013	TUR13-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/38/2013	TUR13-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/25/2013	TUR13-25	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/33/2013	TUR13-33	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/37/2013	TUR13-37	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/24/2013	TUR13-24	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/27/2013	TUR13-27	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/29/2013	TUR13-29	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/find_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	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	574	0	89.83	10.17	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/33/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-198 Location: Aritas, Afsin, K.Maras, Mediterranean, Turkey Date collected: 12/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy1 12/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-33.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/12/2013	TUR13-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/26/2013	TUR13-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/38/2013	TUR13-38	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/25/2013	TUR13-25	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/37/2013	TUR13-37	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/24/2013	TUR13-24	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/27/2013	TUR13-27	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/29/2013	TUR13-29	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	602	0	94.21	5.79	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	592	0	92.64	7.36	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b

nt, nucleotides

*. not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/36/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-193 Location: Kayaalti, Hacibektas, Nevsehir, Central Anatolia, Turkey Date collected: 16/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy1 13/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-36.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/37/2013	TUR13-37	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/12/2013	TUR13-12	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/26/2013	TUR13-26	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/38/2013	TUR13-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/25/2013	TUR13-25	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/33/2013	TUR13-33	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/24/2013	TUR13-24	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/27/2013	TUR13-27	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/29/2013	TUR13-29	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/31/2013	TUR13-31	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{FAR-09}
2	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{BAL-09}
3	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/PAK/16/2010	PAK10-16	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{PUN-10}
6	O/IRN/88/2009	IRN09-88	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{ANT-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	593	0	92.80	7.20	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	574	0	89.83	10.17	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TUR/37/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-185 Location: Cebirli, Evren, Ankara, Central Anatolia, Turkey Date collected: 17/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy1 13/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-37.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/12/2013	TUR13-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/26/2013	TUR13-26	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/36/2013	TUR13-36	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/38/2013	TUR13-38	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/25/2013	TUR13-25	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/33/2013	TUR13-33	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/24/2013	TUR13-24	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/27/2013	TUR13-27	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/29/2013	TUR13-29	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/31/2013	TUR13-31	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{FAR-09}
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	O/IRN/31/2009	IRN09-31	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	602	0	94.21	5.79	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	592	0	92.64	7.36	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b

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: O WRLFMD Ref No: TUR/38/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-191 Location: Cullu Mah, Merkez, Kirikkale, Central Anatolia, Turkey Date collected: 19/03/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy1 13/06/2013 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{FAR-09} Sequence filename: TUR13-38.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3678 Min. no. of nt for comparison: 600 Total turn-around time: 82 days Sequencing time: 12 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/TUR/12/2013	TUR13-12	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/26/2013	TUR13-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{FAR-09}
3	O/TUR/25/2013	TUR13-25	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/33/2013	TUR13-33	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/37/2013	TUR13-37	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{FAR-09}
6	O/TUR/24/2013	TUR13-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/27/2013	TUR13-27	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/29/2013	TUR13-29	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
9	O/TUR/31/2013	TUR13-31	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
10	O/TUR/36/2013	TUR13-36	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{FAR-09}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/find_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	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{FAR-09}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/18/2010	IRN10-18	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{BAL-09}
4	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
5	O/PAK/16/2010	PAK10-16	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{PUN-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
7	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	593	0	92.80	7.20	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	574	0	89.83	10.17	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 Turkey in 2013

Batch: WRLFMD/2013/00006

◆ 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, K. Bachanek-Bankowska & J. Wadsworth,
 03 July 2013

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