

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

Genotyping Report

Report Date for this Batch: 3 July 2013

FMDV type A

Country: Turkey

Period: 2012-2013

No. of samples: 17

BATCH: WRLFMD/2013/00006



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/6/2012	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-1	
Location: Karagozler, Tepebasi, Eskisehir, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 28/12/2012	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR12-06.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 16/05/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/16/2013	TUR13-16	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/18/2013	TUR13-18	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/19/2013	TUR13-19	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/21/2013	TUR13-21	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/22/2013	TUR13-22	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/23/2013	TUR13-23	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/35/2013	TUR13-35	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	620	0	97.03	2.97	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	602	0	94.21	5.79	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	598	0	93.58	6.42	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	591	0	92.49	7.51	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	590	0	92.33	7.67	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	589	0	92.18	7.82	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/1/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-07	
Location: Asagiyuvucak, Havza, Samsun, Medium Black Sea, Turkey	Topotype: ASIA
Date collected: 01/01/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-01.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 16/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1647
A-1C612F/EUR-2B52R	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	A/TUR/10/2013	TUR13-10	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/11/2013	TUR13-11	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/5/2011	TUR11-05	639	626	0	97.97	2.03	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/7/2013	TUR13-07	639	626	0	97.97	2.03	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/10/2011	TUR11-10	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/13/2011	TUR11-13	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/16/2011	TUR11-16	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/18/2011	TUR11-18	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/21/2011	TUR11-21	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/23/2011	TUR11-23	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	594	0	92.96	7.04	ASIA	Iran-05 ^{FAR-09}
4	A/AFG/10/2010	AFG10-10	639	593	0	92.80	7.20	ASIA	Iran-05 ^{HER-10}
5	A/IRN/1/2005 (EF208769)	IRN05-01	639	591	0	92.49	7.51	ASIA	Iran-05
6	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
7	A/BAR/6/2008	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
8	A/IRN/15/2012	IRN12-15	639	589	0	92.18	7.82	ASIA	Iran-05 ^{SIS-12}
9	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/4/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-14-15 Location: Kuyulu, Merkez, Elazig, East Anatolia, Turkey Date collected: 05/01/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 03/06/2013 Species: Cattle Material used: BTy1 17/05/2013 Region sequenced: VPI RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{SIS-10} Sequence filename: TUR13-04.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 1647 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	A/TUR/14/2013	TUR13-14	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/9/2013	TUR13-09	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/16/2013	TUR13-16	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/18/2013	TUR13-18	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/30/2013	TUR13-30	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/19/2013	TUR13-19	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/21/2013	TUR13-21	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/22/2013	TUR13-22	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/23/2013	TUR13-23	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}

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	A/IRN/125/2010	IRN10125	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	602	0	94.21	5.79	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	596	0	93.27	6.73	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	591	0	92.49	7.51	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	590	0	92.33	7.67	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	589	0	92.18	7.82	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/6/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-10	
Location: Eskiceltek, Suluova, Amasya, Medium Black Sea, Turkey	Topotype: ASIA
Date collected: 08/01/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-06.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 17/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2013	TUR13-16	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/18/2013	TUR13-18	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/30/2013	TUR13-30	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/19/2013	TUR13-19	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/21/2013	TUR13-21	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/22/2013	TUR13-22	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/23/2013	TUR13-23	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/35/2013	TUR13-35	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfind.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/IRN/125/2010	IRN10125	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	598	0	93.58	6.42	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	596	0	93.27	6.73	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	590	0	92.33	7.67	ASIA	Iran-05 ^{BAR-08}
5	A/AFG/10/2010	AFG10-10	639	588	0	92.02	7.98	ASIA	Iran-05 ^{HER-10}
6	A/IRN/15/2012	IRN12-15	639	587	0	91.86	8.14	ASIA	Iran-05 ^{SIS-12}
7	A/TUR/33/2008	TUR08-33	639	587	0	91.86	8.14	ASIA	Iran-05 ^{EZM-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	586	0	91.71	8.29	ASIA	Iran-05
9	A/TUR/1/2008	TUR08-01	639	586	0	91.71	8.29	ASIA	Iran-05 ^{ARD-07}
10	A/IRN/9/2010	IRN10-09	639	581	0	90.92	9.08	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/7/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-23	
Location: Camlik, Derebucak, Konya, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 13/01/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-07.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 17/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1647
A-1C612F/EUR-2B52R	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	A/TUR/11/2013	TUR13-11	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/1/2013	TUR13-01	639	626	0	97.97	2.03	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/10/2013	TUR13-10	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
4	A/IRN/4/2011	IRN11-04	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/5/2011	TUR11-05	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
6	A/IRN/18/2011	IRN11-18	639	622	0	97.34	2.66	ASIA	Iran-05 ^{SIS-10}
7	A/IRN/5/2011	IRN11-05	639	622	0	97.34	2.66	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/10/2011	TUR11-10	639	622	0	97.34	2.66	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/13/2011	TUR11-13	639	622	0	97.34	2.66	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/14/2011	TUR11-14	639	622	0	97.34	2.66	ASIA	Iran-05 ^{SIS-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/find_genotyping/prototypes.htm)									
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2	A/AFG/6/2007	AFG07-06	639	598	0	93.58	6.42	ASIA	Iran-05 ^{AFG-07}
3	A/AFG/10/2010	AFG10-10	639	594	0	92.96	7.04	ASIA	Iran-05 ^{HER-10}
4	A/IRN/78/2009	IRN09-78	639	593	0	92.80	7.20	ASIA	Iran-05 ^{FAR-09}
5	A/IRN/15/2012	IRN12-15	639	592	0	92.64	7.36	ASIA	Iran-05 ^{SIS-12}
6	A/BAR/6/2008	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
7	A/TUR/1/2008	TUR08-01	639	588	0	92.02	7.98	ASIA	Iran-05 ^{ARD-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	587	0	91.86	8.14	ASIA	Iran-05
9	A/TUR/33/2008	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
10	A/IRN/9/2010	IRN10-09	639	580	0	90.77	9.23	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/9/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-38	
Location: Karayakup, Sarikaya, Yozgat, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 14/01/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-09.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 21/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	Min. no. of nt for comparison: 600
	Total turn-around time: 82 days
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Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TUR/4/2013	TUR13-04	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/14/2013	TUR13-14	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/16/2013	TUR13-16	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/18/2013	TUR13-18	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/30/2013	TUR13-30	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/19/2013	TUR13-19	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/21/2013	TUR13-21	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/22/2013	TUR13-22	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/23/2013	TUR13-23	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	595	0	93.11	6.89	ASIA	Iran-05 ^{FAR-09}
4	A/TUR/1/2008	TUR08-01	639	593	0	92.80	7.20	ASIA	Iran-05 ^{ARD-07}
5	A/BAR/6/2008	BAR08-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{BAR-08}
6	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
7	A/AFG/10/2010	AFG10-10	639	589	0	92.18	7.82	ASIA	Iran-05 ^{HER-10}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	589	0	92.18	7.82	ASIA	Iran-05
9	A/IRN/15/2012	IRN12-15	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/10/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-29	
Location: Akarca, Dazkiri, Afyonkarahisar, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 17/01/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-10.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 21/05/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/1/2013	TUR13-01	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/11/2013	TUR13-11	639	626	0	97.97	2.03	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/5/2011	TUR11-05	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/7/2013	TUR13-07	639	625	0	97.81	2.19	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/10/2011	TUR11-10	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/13/2011	TUR11-13	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/16/2011	TUR11-16	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/18/2011	TUR11-18	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/21/2011	TUR11-21	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/23/2011	TUR11-23	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	622	0	97.34	2.66	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	600	0	93.90	6.10	ASIA	Iran-05 ^{AFG-07}
3	A/AFG/10/2010	AFG10-10	639	594	0	92.96	7.04	ASIA	Iran-05 ^{HER-10}
4	A/IRN/78/2009	IRN09-78	639	593	0	92.80	7.20	ASIA	Iran-05 ^{FAR-09}
5	A/BAR/6/2008	BAR08-06	639	590	0	92.33	7.67	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/15/2012	IRN12-15	639	590	0	92.33	7.67	ASIA	Iran-05 ^{SIS-12}
7	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	588	0	92.02	7.98	ASIA	Iran-05
9	A/TUR/33/2008	TUR08-33	639	587	0	91.86	8.14	ASIA	Iran-05 ^{EZM-07}
10	A/IRN/9/2010	IRN10-09	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/11/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-46	
Location: Nazirlar, Mengen, Bolu, Marmara, Turkey	Topotype: ASIA
Date collected: 02/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-11.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 21/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/7/2013	TUR13-07	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/1/2013	TUR13-01	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/10/2013	TUR13-10	639	626	0	97.97	2.03	ASIA	Iran-05 ^{SIS-10}
4	A/IRN/4/2011	IRN11-04	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/5/2011	TUR11-05	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
6	A/IRN/18/2011	IRN11-18	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
7	A/IRN/5/2011	IRN11-05	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/10/2011	TUR11-10	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/13/2011	TUR11-13	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/14/2011	TUR11-14	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	621	0	97.18	2.82	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	599	0	93.74	6.26	ASIA	Iran-05 ^{AFG-07}
3	A/AFG/10/2010	AFG10-10	639	595	0	93.11	6.89	ASIA	Iran-05 ^{HER-10}
4	A/IRN/78/2009	IRN09-78	639	594	0	92.96	7.04	ASIA	Iran-05 ^{FAR-09}
5	A/IRN/15/2012	IRN12-15	639	591	0	92.49	7.51	ASIA	Iran-05 ^{SIS-12}
6	A/BAR/6/2008	BAR08-06	639	590	0	92.33	7.67	ASIA	Iran-05 ^{BAR-08}
7	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	588	0	92.02	7.98	ASIA	Iran-05
9	A/TUR/33/2008	TUR08-33	639	587	0	91.86	8.14	ASIA	Iran-05 ^{EZM-07}
10	A/IRN/9/2010	IRN10-09	639	579	0	90.61	9.39	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/14/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-80	
Location: Asagiyuvucak, Havza, Samsun, Medium Black Sea, Turkey	Topotype: ASIA
Date collected: 19/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-14.SEQ
Date received for sequencing: 03/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 21/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/4/2013	TUR13-04	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/9/2013	TUR13-09	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/16/2013	TUR13-16	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/18/2013	TUR13-18	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/30/2013	TUR13-30	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/19/2013	TUR13-19	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/21/2013	TUR13-21	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/22/2013	TUR13-22	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/23/2013	TUR13-23	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	595	0	93.11	6.89	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	589	0	92.18	7.82	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	589	0	92.18	7.82	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/16/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-82	
Location: Hidirlik, Vezirkopru, Samsun, Medium Black Sea, Turkey	Topotype: ASIA
Date collected: 21/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-16.SEQ
Date received for sequencing: 14/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy2 11/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/18/2013	TUR13-18	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/19/2013	TUR13-19	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/21/2013	TUR13-21	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/22/2013	TUR13-22	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/23/2013	TUR13-23	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/35/2013	TUR13-35	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/6/2012	TUR12-06	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	620	0	97.03	2.97	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	602	0	94.21	5.79	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	598	0	93.58	6.42	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	591	0	92.49	7.51	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	590	0	92.33	7.67	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	589	0	92.18	7.82	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/18/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-86	
Location: Sogut, Bilecik, Marmara, Turkey	Topotype: ASIA
Date collected: 24/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-18.SEQ
Date received for sequencing: 14/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy2 11/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1647
A-1C612F/EUR-2B52R	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	A/TUR/16/2013	TUR13-16	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/19/2013	TUR13-19	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/21/2013	TUR13-21	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/22/2013	TUR13-22	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/23/2013	TUR13-23	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/35/2013	TUR13-35	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/6/2012	TUR12-06	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	620	0	97.03	2.97	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	602	0	94.21	5.79	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	598	0	93.58	6.42	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	591	0	92.49	7.51	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	590	0	92.33	7.67	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	589	0	92.18	7.82	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*. not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/19/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-100	
Location: Yenipececek, Sincan, Ankara, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 25/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-19.SEQ
Date received for sequencing: 14/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 31/05/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/16/2013	TUR13-16	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/18/2013	TUR13-18	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/21/2013	TUR13-21	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/22/2013	TUR13-22	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/23/2013	TUR13-23	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/35/2013	TUR13-35	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/6/2012	TUR12-06	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	597	0	93.43	6.57	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{BAR-08}
5	A/AFG/10/2010	AFG10-10	639	591	0	92.49	7.51	ASIA	Iran-05 ^{HER-10}
6	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	589	0	92.18	7.82	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/21/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-112	
Location: Karasiyaka, Yildizeli, Sivas, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 25/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-21.SEQ
Date received for sequencing: 14/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 11/06/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1647
A-1C612F/EUR-2B52R	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	A/TUR/16/2013	TUR13-16	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/18/2013	TUR13-18	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/19/2013	TUR13-19	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/22/2013	TUR13-22	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/23/2013	TUR13-23	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/35/2013	TUR13-35	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/6/2012	TUR12-06	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	597	0	93.43	6.57	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	589	0	92.18	7.82	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	589	0	92.18	7.82	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/22/2013 Batch No: WRLFMD/2013/00006 Sender Ref: 2013-120 Location: Cepni, Tosya, Kastamonu, Middle Black Sea, Turkey Date collected: 25/02/2013 Date received by WRLFMD: 12/04/2013 Date received for sequencing: 21/06/2013 Species: Cattle Material used: BTy2 18/06/2013 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 03/07/2013 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{SIS-10} Sequence filename: TUR13-22.SEQ Date sequence last updated: 02/07/2013 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 1647 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	A/TUR/23/2013	TUR13-23	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2013	TUR13-16	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/18/2013	TUR13-18	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/19/2013	TUR13-19	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/21/2013	TUR13-21	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/35/2013	TUR13-35	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/6/2012	TUR12-06	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	597	0	93.43	6.57	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	589	0	92.18	7.82	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	589	0	92.18	7.82	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*. not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/23/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-119	
Location: Cepni, Tosya, Kastamonu, Middle Black Sea, Turkey	Topotype: ASIA
Date collected: 25/02/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-23.SEQ
Date received for sequencing: 14/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 11/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/22/2013	TUR13-22	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2013	TUR13-16	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/18/2013	TUR13-18	639	638	0	99.84	0.16	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/19/2013	TUR13-19	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/21/2013	TUR13-21	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/35/2013	TUR13-35	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/6/2012	TUR12-06	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/30/2013	TUR13-30	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	601	0	94.05	5.95	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	597	0	93.43	6.57	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	589	0	92.18	7.82	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	589	0	92.18	7.82	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	588	0	92.02	7.98	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/30/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-155	
Location: Kaymaz, Sivrihisar, Eskisehir, Central Anatolia, Turkey	Topotype: ASIA
Date collected: 11/03/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-30.SEQ
Date received for sequencing: 21/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 12/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1647
	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	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2013	TUR13-16	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/18/2013	TUR13-18	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/35/2013	TUR13-35	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/4/2013	TUR13-04	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/6/2013	TUR13-06	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/14/2013	TUR13-14	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/19/2013	TUR13-19	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/21/2013	TUR13-21	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/22/2013	TUR13-22	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	602	0	94.21	5.79	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	600	0	93.90	6.10	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{BAR-08}
5	A/AFG/10/2010	AFG10-10	639	592	0	92.64	7.36	ASIA	Iran-05 ^{HER-10}
6	A/TUR/33/2008	TUR08-33	639	591	0	92.49	7.51	ASIA	Iran-05 ^{EZM-07}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	590	0	92.33	7.67	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	589	0	92.18	7.82	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	581	0	90.92	9.08	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/07/2013
WRLFMD Ref No: TUR/35/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00006	Checked by: D.P. King
Sender Ref: 2013-145	
Location: Akkisla, Safranbolu, Karabuk, Middle Black Sea, Turkey	Topotype: ASIA
Date collected: 16/03/2013	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/04/2013	Sequence filename: TUR13-35.SEQ
Date received for sequencing: 21/06/2013	Date sequence last updated: 02/07/2013
Species: Cattle	No. of Nt determined: 639
Material used: BTy2 15/06/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1647
A-1C612F/EUR-2B52R	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	A/TUR/16/2013	TUR13-16	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/18/2013	TUR13-18	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/19/2013	TUR13-19	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/21/2013	TUR13-21	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/22/2013	TUR13-22	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/23/2013	TUR13-23	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/30/2013	TUR13-30	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/6/2012	TUR12-06	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/1204/2012* (FMDI)	TUR12-AA	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/4/2013	TUR13-04	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-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	A/IRN/125/2010	IRN10125	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007	AFG07-06	639	602	0	94.21	5.79	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	598	0	93.58	6.42	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008	BAR08-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/33/2008	TUR08-33	639	591	0	92.49	7.51	ASIA	Iran-05 ^{EZM-07}
6	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	590	0	92.33	7.67	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	639	590	0	92.33	7.67	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	587	0	91.86	8.14	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2010	IRN10-09	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ESF-10}

nt, nucleotides

*. not a WRLFMD reference number

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Report on FMDV A in Turkey in 2012-2013

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 : 639

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,
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