

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

Genotyping Report

Report Date for this Batch: 26 November 2015

FMDV type A

Country: Turkey

Period: 2014-2015

No. of samples: 14

BATCH: WRLFMD/2015/00015



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/31/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (1) 306	
Location: Islim, Yildizeli, Sivas, Turkey	Topotype: ASIA
Date collected: 04/08/2014	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR14-31.SEQ
Date received for sequencing: 29/10/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 08/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 27 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/Krasnodar/1/RUS/2013* (ARRIAH)	RUS13-AD	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2013	TUR13-16	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/18/2013	TUR13-18	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/6/2012	TUR12-06	639	624	0	97.65	2.35	ASIA	Iran-05 ^{SIS-10}
5	A/KCR/1/RUS/2013* (ARRIAH)	RUS13-AB	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/19/2013	TUR13-19	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/21/2013	TUR13-21	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/22/2013	TUR13-22	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/23/2013	TUR13-23	639	623	0	97.50	2.50	ASIA	Iran-05 ^{SIS-10}
10	A/KCR/2/RUS/2013* (ARRIAH)	RUS13-AC	639	622	0	97.34	2.66	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	613	0	95.93	4.07	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	596	0	93.27	6.73	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	592	0	92.64	7.36	ASIA	Iran-05 ^{FAR-09}
4	A/TUR/33/2008 (FJ755155)	TUR08-33	639	588	0	92.02	7.98	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008 (FJ755010)	BAR08-06	639	586	0	91.71	8.29	ASIA	Iran-05 ^{BAR-08}
6	A/AFG/10/2010	AFG10-10	639	584	0	91.39	8.61	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	584	0	91.39	8.61	ASIA	Iran-05
8	A/TUR/1/2008 (FJ755133)	TUR08-01	639	584	0	91.39	8.61	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	581	0	90.92	9.08	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	575	0	89.98	10.02	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/35/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (5) 327	
Location: Gollu, Tusba, Van, Turkey	Topotype: ASIA
Date collected: 01/10/2014	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR14-35.SEQ
Date received for sequencing: 29/10/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 09/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 27 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/IRN/34/2013	IRN13-34	639	632	0	98.90	1.10	ASIA	Iran-05 ^{SIS-10}
2	A/IRN/5/2014	IRN14-05	639	632	0	98.90	1.10	ASIA	Iran-05 ^{SIS-10}
3	A/IRN/18/2013	IRN13-18	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
4	A/IRN/33/2013	IRN13-33	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
5	A/IRN/8/2014	IRN14-08	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
6	A/IRN/4/2014	IRN14-04	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
7	A/IRN/7/2014	IRN14-07	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/1/2015	TUR15-01	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
9	A/IRN/9/2014	IRN14-09	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
10	A/IRN/10/2014	IRN14-10	639	628	0	98.28	1.72	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	608	0	95.15	4.85	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/9/2010	IRN10-09	639	588	0	92.02	7.98	ASIA	Iran-05 ^{ESF-10}
4	A/AFG/10/2010	AFG10-10	639	587	0	91.86	8.14	ASIA	Iran-05 ^{HER-10}
5	A/BAR/6/2008 (FJ755010)	BAR08-06	639	587	0	91.86	8.14	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	585	0	91.55	8.45	ASIA	Iran-05
7	A/IRN/78/2009	IRN09-78	639	585	0	91.55	8.45	ASIA	Iran-05 ^{FAR-09}
8	A/TUR/1/2008 (FJ755133)	TUR08-01	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/15/2012	IRN12-15	639	582	0	91.08	8.92	ASIA	Iran-05 ^{SIS-12}
10	A/TUR/33/2008 (FJ755155)	TUR08-33	639	581	0	90.92	9.08	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/36/2014 Batch No: WRLFMD/2015/00015 Sender Ref: (6) 330 Location: Topac, Acigol, Nevsehir, Turkey Date collected: 21/10/2014 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 10/11/2015 Species: Cattle Material used: BTy1 09/10/2015 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 25/11/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Iran-05 ^{SIS-10} Sequence filename: TUR14-36.SEQ Date sequence last updated: 25/11/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2085 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 15 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/38/2014	TUR14-38	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/40/2014	TUR14-40	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/16/2015	TUR15-16	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/4/2015	TUR15-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
5	A/IRQ/A222/2012* (FMDI)	IRQ12-AC	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/16/2013	TUR13-16	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/18/2013	TUR13-18	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/35/2013	TUR13-35	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/6/2012	TUR12-06	639	619	0	96.87	3.13	ASIA	Iran-05 ^{SIS-10}
10	A/Bingol/TUR/937/2013.442 (FMDI)	TUR13-AA	627	607	0	96.81	3.19	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	609	0	95.31	4.69	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	595	0	93.11	6.89	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 (FJ755010)	BAR08-06	639	590	0	92.33	7.67	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/1/2008 (FJ755133)	TUR08-01	639	589	0	92.18	7.82	ASIA	Iran-05 ^{ARD-07}
6	A/AFG/10/2010	AFG10-10	639	587	0	91.86	8.14	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	585	0	91.55	8.45	ASIA	Iran-05
8	A/TUR/33/2008 (FJ755155)	TUR08-33	639	585	0	91.55	8.45	ASIA	Iran-05 ^{EZM-07}
9	A/IRN/15/2012	IRN12-15	639	584	0	91.39	8.61	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 WRLFMD Ref No: TUR/38/2014 Batch No: WRLFMD/2015/00015 Sender Ref: (8) 348 Location: Asagimahmutlar, Merkez, Kirikkale, Turkey Date collected: 02/12/2014 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 29/10/2015 Species: Cattle Material used: BTy1 08/10/2015 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 25/11/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Iran-05 ^{SIS-10} Sequence filename: TUR14-38.SEQ Date sequence last updated: 25/11/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2085 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 27 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/40/2014	TUR14-40	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2015	TUR15-16	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/36/2014	TUR14-36	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/4/2015	TUR15-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
5	A/IRQ/A222/2012* (FMDI)	IRQ12-AC	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/16/2013	TUR13-16	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/18/2013	TUR13-18	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/35/2013	TUR13-35	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/6/2012	TUR12-06	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
10	A/Bingol/TUR/937/2013.442 (FMDI)	TUR13-AA	627	605	0	96.49	3.51	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	607	0	94.99	5.01	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	594	0	92.96	7.04	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/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/1/2008 (FJ755133)	TUR08-01	639	588	0	92.02	7.98	ASIA	Iran-05 ^{ARD-07}
6	A/AFG/10/2010	AFG10-10	639	586	0	91.71	8.29	ASIA	Iran-05 ^{HER-10}
7	A/TUR/33/2008 (FJ755155)	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	584	0	91.39	8.61	ASIA	Iran-05
9	A/IRN/15/2012	IRN12-15	639	583	0	91.24	8.76	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	582	0	91.08	8.92	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/40/2014 Batch No: WRLFMD/2015/00015 Sender Ref: (10) 352 Location: Hacilar, Golbasi, Ankara, Turkey Date collected: 09/12/2014 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 10/11/2015 Species: Cattle Material used: BTy1 08/10/2015 & BTy2 24/10/2015 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 25/11/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Iran-05 ^{SIS-10} Sequence filename: TUR14-40.SEQ Date sequence last updated: 25/11/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2085 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 15 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/38/2014	TUR14-38	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/16/2015	TUR15-16	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/36/2014	TUR14-36	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/4/2015	TUR15-04	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
5	A/IRQ/A222/2012* (FMDI)	IRQ12-AC	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/16/2013	TUR13-16	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/18/2013	TUR13-18	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/35/2013	TUR13-35	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/6/2012	TUR12-06	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
10	A/Bingol/TUR/937/2013.442 (FMDI)	TUR13-AA	627	605	0	96.49	3.51	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	607	0	94.99	5.01	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	594	0	92.96	7.04	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/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/1/2008 (FJ755133)	TUR08-01	639	588	0	92.02	7.98	ASIA	Iran-05 ^{ARD-07}
6	A/AFG/10/2010	AFG10-10	639	586	0	91.71	8.29	ASIA	Iran-05 ^{HER-10}
7	A/TUR/33/2008 (FJ755155)	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	584	0	91.39	8.61	ASIA	Iran-05
9	A/IRN/15/2012	IRN12-15	639	583	0	91.24	8.76	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	582	0	91.08	8.92	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/1/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (11) 6	
Location: Atakoy, Menderes, Izmir, Turkey	Topotype: ASIA
Date collected: 29/01/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-01.SEQ
Date received for sequencing: 29/10/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 16/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 27 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/IRN/34/2013	IRN13-34	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
2	A/IRN/5/2014	IRN14-05	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/IRN/18/2013	IRN13-18	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
4	A/IRN/33/2013	IRN13-33	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
5	A/IRN/8/2014	IRN14-08	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
6	A/IRN/9/2014	IRN14-09	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
7	A/IRN/10/2014	IRN14-10	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
8	A/IRN/25/2013	IRN13-25	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
9	A/IRN/4/2014	IRN14-04	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
10	A/IRN/7/2014	IRN14-07	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	611	0	95.62	4.38	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	596	0	93.27	6.73	ASIA	Iran-05 ^{AFG-07}
3	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
4	A/BAR/6/2008 (FJ755010)	BAR08-06	639	588	0	92.02	7.98	ASIA	Iran-05 ^{BAR-08}
5	A/IRN/78/2009	IRN09-78	639	588	0	92.02	7.98	ASIA	Iran-05 ^{FAR-09}
6	A/IRN/15/2012	IRN12-15	639	587	0	91.86	8.14	ASIA	Iran-05 ^{SIS-12}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	586	0	91.71	8.29	ASIA	Iran-05
8	A/IRN/9/2010	IRN10-09	639	586	0	91.71	8.29	ASIA	Iran-05 ^{ESF-10}
9	A/TUR/1/2008 (FJ755133)	TUR08-01	639	584	0	91.39	8.61	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/33/2008 (FJ755155)	TUR08-33	639	582	0	91.08	8.92	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/3/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (13) 14	
Location: Vize, Akcakale, Sanliurfa, Turkey	Topotype: ASIA
Date collected: 10/02/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-03.SEQ
Date received for sequencing: 29/10/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 07/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 27 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/13/2015	TUR15-13	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/6/2015	TUR15-06	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/8/2015	TUR15-08	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/11/2015	TUR15-11	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/12/2014	TUR14-12	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/21/2014	TUR14-21	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/26/2014	TUR14-26	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/28/2014	TUR14-28	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/29/2014	TUR14-29	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/41/2013	TUR13-41	639	629	0	98.44	1.56	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	608	0	95.15	4.85	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{AFG-07}
3	A/BAR/6/2008 (FJ755010)	BAR08-06	639	587	0	91.86	8.14	ASIA	Iran-05 ^{BAR-08}
4	A/IRN/78/2009	IRN09-78	639	587	0	91.86	8.14	ASIA	Iran-05 ^{FAR-09}
5	A/TUR/33/2008 (FJ755155)	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	583	0	91.24	8.76	ASIA	Iran-05
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	581	0	90.92	9.08	ASIA	Iran-05 ^{ARD-07}
8	A/AFG/10/2010	AFG10-10	639	580	0	90.77	9.23	ASIA	Iran-05 ^{HER-10}
9	A/IRN/15/2012	IRN12-15	639	578	0	90.45	9.55	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	573	0	89.67	10.33	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/4/2015 Batch No: WRLFMD/2015/00015 Sender Ref: (14) 16 Location: Yukarimahalle, Sarayonu, Konya, Turkey Date collected: 16/02/2015 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 29/10/2015 Species: Cattle Material used: BTy1 16/10/2015 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 25/11/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Iran-05 ^{SIS-10} Sequence filename: TUR15-04.SEQ Date sequence last updated: 25/11/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2085 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 27 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/36/2014	TUR14-36	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/38/2014	TUR14-38	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/40/2014	TUR14-40	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/16/2015	TUR15-16	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
5	A/IRQ/A222/2012* (FMDI)	IRQ12-AC	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/16/2013	TUR13-16	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/18/2013	TUR13-18	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/35/2013	TUR13-35	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/6/2012	TUR12-06	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
10	A/Bingol/TUR/937/2013.442 (FMDI)	TUR13-AA	627	606	0	96.65	3.35	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	608	0	95.15	4.85	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	594	0	92.96	7.04	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/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/1/2008 (FJ755133)	TUR08-01	639	588	0	92.02	7.98	ASIA	Iran-05 ^{ARD-07}
6	A/AFG/10/2010	AFG10-10	639	587	0	91.86	8.14	ASIA	Iran-05 ^{HER-10}
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	584	0	91.39	8.61	ASIA	Iran-05
8	A/TUR/33/2008 (FJ755155)	TUR08-33	639	584	0	91.39	8.61	ASIA	Iran-05 ^{EZM-07}
9	A/IRN/15/2012	IRN12-15	639	583	0	91.24	8.76	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	582	0	91.08	8.92	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/6/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (16) 23	
Location: Tekeler, Karpuzlu, Aydin, Turkey	Topotype: ASIA
Date collected: 18/02/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-06.SEQ
Date received for sequencing: 29/10/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 16/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 27 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/13/2015	TUR15-13	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/3/2015	TUR15-03	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/8/2015	TUR15-08	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/11/2015	TUR15-11	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/12/2014	TUR14-12	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/21/2014	TUR14-21	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/26/2014	TUR14-26	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/29/2014	TUR14-29	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/41/2013	TUR13-41	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/5/2014	TUR14-05	639	631	0	98.75	1.25	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	610	0	95.46	4.54	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{AFG-07}
3	A/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
4	A/IRN/78/2009	IRN09-78	639	589	0	92.18	7.82	ASIA	Iran-05 ^{FAR-09}
5	A/TUR/33/2008 (FJ755155)	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	585	0	91.55	8.45	ASIA	Iran-05
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ARD-07}
8	A/AFG/10/2010	AFG10-10	639	582	0	91.08	8.92	ASIA	Iran-05 ^{HER-10}
9	A/IRN/15/2012	IRN12-15	639	580	0	90.77	9.23	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	575	0	89.98	10.02	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/8/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (18) 31	
Location: Saratli, Gulagac, Aksaray, Turkey	Topotype: ASIA
Date collected: 02/03/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-08.SEQ
Date received for sequencing: 29/10/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 20/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 27 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/13/2015	TUR15-13	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/6/2015	TUR15-06	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/3/2015	TUR15-03	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/11/2015	TUR15-11	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/12/2014	TUR14-12	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/21/2014	TUR14-21	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/26/2014	TUR14-26	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/29/2014	TUR14-29	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/41/2013	TUR13-41	639	629	0	98.44	1.56	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/5/2014	TUR14-05	639	629	0	98.44	1.56	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	610	0	95.46	4.54	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{AFG-07}
3	A/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
4	A/IRN/78/2009	IRN09-78	639	587	0	91.86	8.14	ASIA	Iran-05 ^{FAR-09}
5	A/IRN/1/2005 (EF208769)	IRN05-01	639	585	0	91.55	8.45	ASIA	Iran-05
6	A/TUR/33/2008 (FJ755155)	TUR08-33	639	584	0	91.39	8.61	ASIA	Iran-05 ^{EZM-07}
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	581	0	90.92	9.08	ASIA	Iran-05 ^{ARD-07}
8	A/AFG/10/2010	AFG10-10	639	580	0	90.77	9.23	ASIA	Iran-05 ^{HER-10}
9	A/IRN/15/2012	IRN12-15	639	579	0	90.61	9.39	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/9/2011	IRN11-09	639	574	0	89.83	10.17	ASIA	Iran-05 ^{QAZ-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/11/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (21) 80	
Location: Karakale, Digor, Kars, Turkey	Topotype: ASIA
Date collected: 27/03/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-11.SEQ
Date received for sequencing: 10/11/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 27/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 15 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/13/2015	TUR15-13	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/6/2015	TUR15-06	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/3/2015	TUR15-03	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/8/2015	TUR15-08	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/12/2014	TUR14-12	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/21/2014	TUR14-21	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/26/2014	TUR14-26	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/29/2014	TUR14-29	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/41/2013	TUR13-41	639	627	0	98.12	1.88	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/5/2014	TUR14-05	639	627	0	98.12	1.88	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	606	0	94.84	5.16	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{AFG-07}
3	A/BAR/6/2008 (FJ755010)	BAR08-06	639	585	0	91.55	8.45	ASIA	Iran-05 ^{BAR-08}
4	A/IRN/78/2009	IRN09-78	639	585	0	91.55	8.45	ASIA	Iran-05 ^{FAR-09}
5	A/TUR/33/2008 (FJ755155)	TUR08-33	639	582	0	91.08	8.92	ASIA	Iran-05 ^{EZM-07}
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	581	0	90.92	9.08	ASIA	Iran-05
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	581	0	90.92	9.08	ASIA	Iran-05 ^{ARD-07}
8	A/AFG/10/2010	AFG10-10	639	578	0	90.45	9.55	ASIA	Iran-05 ^{HER-10}
9	A/IRN/15/2012	IRN12-15	639	576	0	90.14	9.86	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	573	0	89.67	10.33	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/13/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (23) 84	
Location: Kadikoy, Efeler, Aydin, Turkey	Topotype: ASIA
Date collected: 01/04/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-13.SEQ
Date received for sequencing: 10/11/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 23/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 15 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/6/2015	TUR15-06	639	639	0	100.00	0.00	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/3/2015	TUR15-03	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/8/2015	TUR15-08	639	637	0	99.69	0.31	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/11/2015	TUR15-11	639	635	0	99.37	0.63	ASIA	Iran-05 ^{SIS-10}
5	A/TUR/12/2014	TUR14-12	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
6	A/TUR/21/2014	TUR14-21	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
7	A/TUR/26/2014	TUR14-26	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
8	A/TUR/29/2014	TUR14-29	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/41/2013	TUR13-41	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/5/2014	TUR14-05	639	631	0	98.75	1.25	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	610	0	95.46	4.54	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{AFG-07}
3	A/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
4	A/IRN/78/2009	IRN09-78	639	589	0	92.18	7.82	ASIA	Iran-05 ^{FAR-09}
5	A/TUR/33/2008 (FJ755155)	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	585	0	91.55	8.45	ASIA	Iran-05
7	A/TUR/1/2008 (FJ755133)	TUR08-01	639	583	0	91.24	8.76	ASIA	Iran-05 ^{ARD-07}
8	A/AFG/10/2010	AFG10-10	639	582	0	91.08	8.92	ASIA	Iran-05 ^{HER-10}
9	A/IRN/15/2012	IRN12-15	639	580	0	90.77	9.23	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	575	0	89.98	10.02	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/14/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (24) 90	
Location: Tekke, Pamukkale, Denizli, Turkey	Topotype: ASIA
Date collected: 14/04/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-14.SEQ
Date received for sequencing: 10/11/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 22/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 15 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/IRN/34/2013	IRN13-34	639	632	0	98.90	1.10	ASIA	Iran-05 ^{SIS-10}
2	A/IRN/5/2014	IRN14-05	639	632	0	98.90	1.10	ASIA	Iran-05 ^{SIS-10}
3	A/IRN/18/2013	IRN13-18	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
4	A/IRN/33/2013	IRN13-33	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
5	A/IRN/8/2014	IRN14-08	639	631	0	98.75	1.25	ASIA	Iran-05 ^{SIS-10}
6	A/IRN/10/2014	IRN14-10	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
7	A/IRN/25/2013	IRN13-25	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
8	A/IRN/32/2013	IRN13-32	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
9	A/IRN/4/2014	IRN14-04	639	630	0	98.59	1.41	ASIA	Iran-05 ^{SIS-10}
10	A/IRN/7/2014	IRN14-07	639	630	0	98.59	1.41	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	610	0	95.46	4.54	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	596	0	93.27	6.73	ASIA	Iran-05 ^{AFG-07}
3	A/AFG/10/2010	AFG10-10	639	590	0	92.33	7.67	ASIA	Iran-05 ^{HER-10}
4	A/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
5	A/IRN/78/2009	IRN09-78	639	588	0	92.02	7.98	ASIA	Iran-05 ^{FAR-09}
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	587	0	91.86	8.14	ASIA	Iran-05
7	A/IRN/9/2010	IRN10-09	639	586	0	91.71	8.29	ASIA	Iran-05 ^{ESF-10}
8	A/IRN/15/2012	IRN12-15	639	585	0	91.55	8.45	ASIA	Iran-05 ^{SIS-12}
9	A/TUR/1/2008 (FJ755133)	TUR08-01	639	582	0	91.08	8.92	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/33/2008 (FJ755155)	TUR08-33	639	582	0	91.08	8.92	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 25/11/2015
WRLFMD Ref No: TUR/16/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00015	Checked by: K. Bachanek-Bankowska
Sender Ref: (26) 108	
Location: Merkez, Merkez, Burdur, Turkey	Topotype: ASIA
Date collected: 30/04/2015	Genotype/strain: Iran-05 ^{SIS-10}
Date received by WRLFMD: 12/08/2015	Sequence filename: TUR15-16.SEQ
Date received for sequencing: 10/11/2015	Date sequence last updated: 25/11/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 23/10/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2085
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 15 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/38/2014	TUR14-38	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
2	A/TUR/40/2014	TUR14-40	639	636	0	99.53	0.47	ASIA	Iran-05 ^{SIS-10}
3	A/TUR/36/2014	TUR14-36	639	634	0	99.22	0.78	ASIA	Iran-05 ^{SIS-10}
4	A/TUR/4/2015	TUR15-04	639	633	0	99.06	0.94	ASIA	Iran-05 ^{SIS-10}
5	A/IRQ/A222/2012* (FMDI)	IRQ12-AC	639	618	0	96.71	3.29	ASIA	Iran-05 ^{SIS-10}
6	A/IRN/31/2012	IRN12-31	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
7	A/IRQ/A218/2012* (FMDI)	IRQ12-AB	639	617	0	96.56	3.44	ASIA	Iran-05 ^{SIS-10}
8	A/IRQ/A223/2012* (FMDI)	IRQ12-AD	639	616	0	96.40	3.60	ASIA	Iran-05 ^{SIS-10}
9	A/TUR/16/2013	TUR13-16	639	616	0	96.40	3.60	ASIA	Iran-05 ^{SIS-10}
10	A/TUR/18/2013	TUR13-18	639	616	0	96.40	3.60	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	608	0	95.15	4.85	ASIA	Iran-05 ^{SIS-10}
2	A/AFG/6/2007 (FJ755007)	AFG07-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/78/2009	IRN09-78	639	592	0	92.64	7.36	ASIA	Iran-05 ^{FAR-09}
4	A/BAR/6/2008 (FJ755010)	BAR08-06	639	589	0	92.18	7.82	ASIA	Iran-05 ^{BAR-08}
5	A/TUR/1/2008 (FJ755133)	TUR08-01	639	588	0	92.02	7.98	ASIA	Iran-05 ^{ARD-07}
6	A/AFG/10/2010	AFG10-10	639	586	0	91.71	8.29	ASIA	Iran-05 ^{HER-10}
7	A/TUR/33/2008 (FJ755155)	TUR08-33	639	586	0	91.71	8.29	ASIA	Iran-05 ^{EZM-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	584	0	91.39	8.61	ASIA	Iran-05
9	A/IRN/15/2012	IRN12-15	639	583	0	91.24	8.76	ASIA	Iran-05 ^{SIS-12}
10	A/IRN/1/2011	IRN11-01	639	582	0	91.08	8.92	ASIA	Iran-05 ^{FAR-11}

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV A in Turkey in 2014-2015

Batch: WRLFMD/2015/00015

◆ indicates viruses in this batch

Software: MEGA 6.06

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, J. Wadsworth & K. Bachanek-Bankowska,
25 November 2015

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