



INSTITUTE FOR ANIMAL HEALTH
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FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2010/00003

Sender Details:



Date Received: 4th February 2010

Country of Origin: Turkey

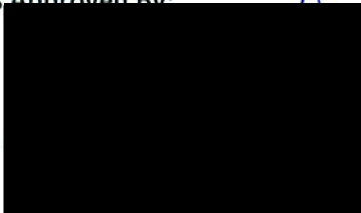
Date Reported: 19th February 2010

Dear Dr. Bulut,

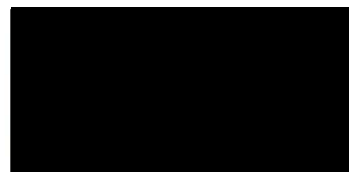
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

<http://www.wrlfmd.org/>

Results Approved By:



Official Stamp:



Date:

19/2/10



To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.wilson@bbsrc.ac.uk)

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

Genotyping Report

Date: 18 February 2010

FMDV type A

Country: Turkey

Period: 2009-2010

No. of isolates: 12

BATCH: WRLFMD/2010/00003



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/8/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 34/2009	
Location: Musalla, Gonen, Isparta, Mediterranean Region, Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05 ^{EZM-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-08.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/40/2008	TUR08-40	639	636	0	99.53	0.47	ASIA	Iran-05 ^{EZM-07}
2	A/TUR/6/2009* (FMDI-Ankara)	TUR09-AA	639	636	0	99.53	0.47	ASIA	Iran-05 ^{EZM-07}
3	A/TUR/859/2007* (FMDI-Ankara)	TUR07-AC	639	624	0	97.65	2.35	ASIA	Iran-05 ^{EZM-07}
4	A/TUR/1045/2007* (FMDI-Ankara)	TUR07-AH	639	622	0	97.34	2.66	ASIA	Iran-05 ^{EZM-07}
5	A/TUR/195/2008* (FMDI-Ankara)	TUR08-AH	639	620	0	97.03	2.97	ASIA	Iran-05 ^{EZM-07}
6	A/TUR/33/2008	TUR08-33	639	620	0	97.03	2.97	ASIA	Iran-05 ^{EZM-07}
7	A/TUR/20/2006	TUR06-20	639	615	0	96.24	3.76	ASIA	Iran-05
8	A/IRN/31/2005	IRN05-31	639	614	0	96.09	3.91	ASIA	Iran-05
9	A/PAK/5/2006	PAK06-05	639	614	0	96.09	3.91	ASIA	Iran-05
10	A/PAK/5/2006 (EF494488)	PAK06-AC	639	614	0	96.09	3.91	ASIA	Iran-05
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/TUR/33/2008	TUR08-33	639	620	0	97.03	2.97	ASIA	Iran-05 ^{EZM-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	613	0	95.93	4.07	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	605	0	94.68	5.32	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/1/2008	TUR08-01	639	604	0	94.52	5.48	ASIA	Iran-05 ^{ARD-07}
5	A/BAR/6/2008	BAR08-06	639	596	0	93.27	6.73	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	536	0	84.28	15.72	ASIA	Iran-87
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	538	0	84.19	15.81	ASIA	A15
8	A/IRN/22/99 (EF208772)	IRN99-22	636	534	0	83.96	16.04	ASIA	Iran-99
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	534	0	83.96	16.04	ASIA	unnamed
10	A22/IRQ/64 (AY593763)	IRQ64--A	639	526	0	82.32	17.68	ASIA	A22

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/9/2009 Batch No: WRLFMD/2010/00003 Sender Ref: 143/2009 Location: Karakoc, Yildizeli, Sivas, Central Anatolia Region, Turkey Date collected: 2009 Date received by WRLFMD: 04/02/2010 Date received for sequencing: 17/02/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: A-1C612F/EUR-2B52R	Report date: 18/02/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{ARD-07} Sequence filename: TUR09-09.SEQ Date sequence last updated: 18/02/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 1228 Min. no. of nt for comparison: 300 Total turn-around time: 14 days Sequencing time: 1 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/7/2009	TUR09-07	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/147/2009*	TUR09-AC	639	622	0	97.34	2.66	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/186/2009*	TUR09-AH	639	619	0	96.87	3.13	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/13/2008	TUR08-13	639	616	0	96.40	3.60	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/2/2008	TUR08-02	639	616	0	96.40	3.60	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/28/2008	TUR08-28	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/96/2008* (FMDI-Ankara)	TUR08-AD	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/130/2008* (FMDI-Ankara)	TUR08-AF	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/23/2008	TUR08-23	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/24/2008	TUR08-24	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	597	0	93.43	6.57	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	592	0	92.64	7.36	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	584	0	91.39	8.61	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	537	0	84.43	15.57	ASIA	Iran-87
7	A/TAI/118/87* (EF208777)	TAI87-AD	636	532	0	83.65	16.35	ASIA	unnamed
8	A/IRN/22/99 (EF208772)	IRN99-22	636	529	0	83.18	16.82	ASIA	Iran-99
9	A22/IRQ/64 (AY593763)	IRQ64--A	639	531	0	83.10	16.90	ASIA	A22
10	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	529	0	82.79	17.21	ASIA	A15

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/10/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 170/2009	
Location: Caykisla, Erenier, Sacarya, Mamara Region, Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05 ^{ARD-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-10.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/170/2009*	TUR09-AE	639	639	0	100.00	0.00	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/148/2009*	TUR09-AD	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/183/2009*	TUR09-AG	639	633	0	99.06	0.94	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/53/2008* (FMDI-Ankara)	TUR08-AC	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/1/2008	TUR08-01	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/1009/2007* (FMDI-Ankara)	TUR07-AG	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/1018/2007* (FMDI-Ankara)	TUR07-AF	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/22/2008	TUR08-22	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	605	0	94.68	5.32	ASIA	Iran-05
3	A/TUR/33/2008	TUR08-33	639	602	0	94.21	5.79	ASIA	Iran-05 ^{EZM-07}
4	A/AFG/6/2007	AFG07-06	639	599	0	93.74	6.26	ASIA	Iran-05 ^{AFG-07}
5	A/BAR/6/2008	BAR08-06	639	593	0	92.80	7.20	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	535	0	84.12	15.88	ASIA	Iran-87
7	A/IRN/22/99 (EF208772)	IRN99-22	636	535	0	84.12	15.88	ASIA	Iran-99
8	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	534	0	83.57	16.43	ASIA	A15
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	524	0	82.39	17.61	ASIA	unnamed
10	A22/IRQ/64 (AY593763)	IRQ64--A	639	526	0	82.32	17.68	ASIA	A22

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/11/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 177/2009	
Location: Seydikov, Eldivan, Cankin, Central Anatolia Region, Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05 ^{ARD-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-11.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/177/2009*	TUR09-AF	639	639	0	100.00	0.00	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/100/2008* (FMDI-Ankara)	TUR08-AE	639	625	0	97.81	2.19	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/13/2008	TUR08-13	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/2/2008	TUR08-02	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/23/2008	TUR08-23	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	624	0	97.65	2.35	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/53/2008* (FMDI-Ankara)	TUR08-AC	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/1/2008	TUR08-01	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/1009/2007* (FMDI-Ankara)	TUR07-AG	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	623	0	97.50	2.50	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	601	0	94.05	5.95	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	599	0	93.74	6.26	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	598	0	93.58	6.42	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	591	0	92.49	7.51	ASIA	Iran-05 ^{BAR-08}
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	537	0	84.04	15.96	ASIA	A15
7	A/IRN/2/87 (EF208770)	IRN87-02	636	533	0	83.81	16.19	ASIA	Iran-87
8	A/IRN/22/99 (EF208772)	IRN99-22	636	532	0	83.65	16.35	ASIA	Iran-99
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	532	0	83.65	16.35	ASIA	unnamed
10	A22/IRQ/64 (AY593763)	IRQ64--A	639	531	0	83.10	16.90	ASIA	A22

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/12/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 203/2009	
Location: Gokcetas, Sebinkarahisan, Giresun, Black Sea Region, Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-12.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/4/2005	IRN05-04	639	614	0	96.09	3.91	ASIA	Iran-05
2	A/IRN/5/2005	IRN05-05	639	614	0	96.09	3.91	ASIA	Iran-05
3	A/IRN/7/2006	IRN06-07	639	614	0	96.09	3.91	ASIA	Iran-05
4	A/TUR/20/2006	TUR06-20	639	614	0	96.09	3.91	ASIA	Iran-05
5	A/TUR/7/2005	TUR05-07	639	614	0	96.09	3.91	ASIA	Iran-05
6	A/TUR/7/2006	TUR06-07	639	614	0	96.09	3.91	ASIA	Iran-05
7	A/IRN/42/2005	IRN05-42	639	613	0	95.93	4.07	ASIA	Iran-05
8	A/TUR/1/2006 (EU553878)	TUR06-01	639	613	0	95.93	4.07	ASIA	Iran-05
9	A/TUR/10/2006	TUR06-10	639	613	0	95.93	4.07	ASIA	Iran-05
10	A/TUR/17/2006	TUR06-17	639	613	0	95.93	4.07	ASIA	Iran-05
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/1/2005 (EF208769)	IRN05-01	639	612	0	95.77	4.23	ASIA	Iran-05
2	A/TUR/33/2008	TUR08-33	639	605	0	94.68	5.32	ASIA	Iran-05 ^{EZM-07}
3	A/AFG/6/2007	AFG07-06	639	604	0	94.52	5.48	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/1/2008	TUR08-01	639	604	0	94.52	5.48	ASIA	Iran-05 ^{ARD-07}
5	A/BAR/6/2008	BAR08-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{BAR-08}
6	A/TAI/118/87* (EF208777)	TAI87-AD	636	532	0	83.65	16.35	ASIA	unnamed
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	534	0	83.57	16.43	ASIA	A15
8	A/IRN/2/87 (EF208770)	IRN87-02	636	531	0	83.49	16.51	ASIA	Iran-87
9	A22/IRQ/64 (AY593763)	IRQ64--A	639	529	0	82.79	17.21	ASIA	A22
10	A/IRN/22/99 (EF208772)	IRN99-22	636	525	0	82.55	17.45	ASIA	Iran-99

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v2.9

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/13/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 216/2009	
Location: Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05 ^{ARD-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-13.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1228
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/53/2008* (FMDI-Ankara)	TUR08-AC	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/1/2008	TUR08-01	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/1018/2007* (FMDI-Ankara)	TUR07-AF	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/1009/2007* (FMDI-Ankara)	TUR07-AG	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/23/2008	TUR08-23	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/96/2008* (FMDI-Ankara)	TUR08-AD	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/12/2008	TUR08-12	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/37/2008	TUR08-37	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	615	0	96.24	3.76	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	601	0	94.05	5.95	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	596	0	93.27	6.73	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	596	0	93.27	6.73	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	585	0	91.55	8.45	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	540	0	84.91	15.09	ASIA	Iran-87
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	540	0	84.51	15.49	ASIA	A15
8	A/IRN/22/99 (EF208772)	IRN99-22	636	526	0	82.70	17.30	ASIA	Iran-99
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	525	0	82.55	17.45	ASIA	unnamed
10	A22/IRQ/64 (AY593763)	IRQ64--A	639	526	0	82.32	17.68	ASIA	A22

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TUR/14/2009 Batch No: WRLFMD/2010/00003 Sender Ref: 238/2009 Location: Cirgalan Nei, Kocasinan, Kaysen, Central Anatolia Region, Turkey Date collected: 2009 Date received by WRLFMD: 04/02/2010 Date received for sequencing: 17/02/2010 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 18/02/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Iran-05 ^{ARD-07} Sequence filename: TUR09-14.SEQ Date sequence last updated: 18/02/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 1228 Min. no. of nt for comparison: 300 Total turn-around time: 14 days Sequencing time: 1 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/6/2010	TUR10-06	639	637	0	99.69	0.31	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/2/2010	TUR10-02	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/21/2009	TUR09-21	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/96/2008* (FMDI-Ankara)	TUR08-AD	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/53/2008* (FMDI-Ankara)	TUR08-AC	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/1/2008	TUR08-01	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/1018/2007* (FMDI-Ankara)	TUR07-AF	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/145/2008* (FMDI-Ankara)	TUR08-AG	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	595	0	93.11	6.89	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	590	0	92.33	7.67	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	586	0	91.71	8.29	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	535	0	84.12	15.88	ASIA	Iran-87
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	536	0	83.88	16.12	ASIA	A15
8	A22/IRQ/64 (AY593763)	IRQ64--A	639	530	0	82.94	17.06	ASIA	A22
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	526	0	82.70	17.30	ASIA	unnamed
10	A/IRN/22/99 (EF208772)	IRN99-22	636	521	0	81.92	18.08	ASIA	Iran-99

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/18/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 279/2009	
Location: Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05 ^{BAR-08}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-18.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1228
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/KUW/5/2009	KUW09-05	639	633	0	99.06	0.94	ASIA	Iran-05 ^{BAR-08}
2	A/BAR/6/2009	BAR09-06	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
3	A/IRN/2/2009	IRN09-02	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
4	A/IRN/21/2009	IRN09-21	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
5	A/IRN/22/2009	IRN09-22	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/29/2009	IRN09-29	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
7	A/IRQ/10/2009	IRQ09-10	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
8	A/IRQ/11/2009	IRQ09-11	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
9	A/IRQ/12/2009	IRQ09-12	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
10	A/IRQ/15/2009	IRQ09-15	639	632	0	98.90	1.10	ASIA	Iran-05 ^{BAR-08}
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/BAR/6/2008	BAR08-06	639	627	0	98.12	1.88	ASIA	Iran-05 ^{BAR-08}
2	A/AFG/6/2007	AFG07-06	639	611	0	95.62	4.38	ASIA	Iran-05 ^{AFG-07}
3	A/IRN/1/2005 (EF208769)	IRN05-01	639	606	0	94.84	5.16	ASIA	Iran-05
4	A/TUR/1/2008	TUR08-01	639	599	0	93.74	6.26	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/33/2008	TUR08-33	639	595	0	93.11	6.89	ASIA	Iran-05 ^{EZM-07}
6	A/TAI/118/87* (EF208771)	TAI87-AD	636	536	0	84.28	15.72	ASIA	unnamed
7	A/IRN/1/96 (EF208771)	IRN96-01	638	533	1	83.54	16.46	ASIA	Iran-96
8	A/IRN/2/87 (EF208770)	IRN87-02	636	531	0	83.49	16.51	ASIA	Iran-87
9	A/IRN/22/99 (EF208772)	IRN99-22	636	528	0	83.02	16.98	ASIA	Iran-99
10	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	526	0	82.32	17.68	ASIA	A15

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/21/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 1/2010	
Location: M. Yenimahalle, Yenipazar, Bilecik, Marmara Region, Turkey	Topotype: ASIA
Date collected: 2009	Genotype/strain: Iran-05 ^{ARD-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR09-21.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/2/2010	TUR10-02	639	637	0	99.69	0.31	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/14/2009	TUR09-14	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/6/2010	TUR10-06	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/96/2008* (FMDI-Ankara)	TUR08-AD	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/53/2008* (FMDI-Ankara)	TUR08-AC	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/1/2008	TUR08-01	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/1018/2007* (FMDI-Ankara)	TUR07-AF	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/145/2008* (FMDI-Ankara)	TUR08-AG	639	612	0	95.77	4.23	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	594	0	92.96	7.04	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	591	0	92.49	7.51	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	589	0	92.18	7.82	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	585	0	91.55	8.45	ASIA	Iran-05 ^{BAR-08}
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	537	0	84.04	15.96	ASIA	A15
7	A/IRN/2/87 (EF208770)	IRN87-02	636	534	0	83.96	16.04	ASIA	Iran-87
8	A/TAI/118/87* (EF208777)	TAI87-AD	636	525	0	82.55	17.45	ASIA	unnamed
9	A22/IRQ/64 (AY593763)	IRQ64--A	639	527	0	82.47	17.53	ASIA	A22
10	A/IRN/22/99 (EF208772)	IRN99-22	636	522	0	82.08	17.92	ASIA	Iran-99

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/2/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 5/2010	
Location: Uludere, Tepebasi, Eskisehir, Central Anatolian Region, Turkey	Topotype: ASIA
Date collected: 2010	Genotype/strain: Iran-05 ^{ARD-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR10-02.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/21/2009	TUR09-21	639	637	0	99.69	0.31	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/14/2009	TUR09-14	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/6/2010	TUR10-06	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/96/2008* (FMDI-Ankara)	TUR08-AD	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/53/2008* (FMDI-Ankara)	TUR08-AC	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/1/2008	TUR08-01	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/1018/2007* (FMDI-Ankara)	TUR07-AF	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/145/2008* (FMDI-Ankara)	TUR08-AG	639	612	0	95.77	4.23	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	594	0	92.96	7.04	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	591	0	92.49	7.51	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	589	0	92.18	7.82	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	586	0	91.71	8.29	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	536	0	84.28	15.72	ASIA	Iran-87
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	537	0	84.04	15.96	ASIA	A15
8	A22/IRQ/64 (AY593763)	IRQ64--A	639	529	0	82.79	17.21	ASIA	A22
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	525	0	82.55	17.45	ASIA	unnamed
10	A/IRN/1/96 (EF208771)	IRN96-01	638	523	1	81.97	18.03	ASIA	Iran-96

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/3/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 6/2010	
Location: Gulyazi, Kixiloren, Afyon, Central Anatolia Region, Turkey	Topotype: ASIA
Date collected: 2010	Genotype/strain: Iran-05
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR10-03.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/196/2009*	TUR09-AJ	639	627	0	98.12	1.88	ASIA	Iran-05
2	A/TUR/144/2009*	TUR09-AB	639	627	0	98.12	1.88	ASIA	Iran-05
3	A/TUR/197/2009*	TUR09-AK	639	625	0	97.81	2.19	ASIA	Iran-05
4	A/TUR/12/2005	TUR05-12	639	606	0	94.84	5.16	ASIA	Iran-05
5	A/TUR/9/2006	TUR06-09	639	606	0	94.84	5.16	ASIA	Iran-05
6	A/IRN/38/2005	IRN05-38	639	605	0	94.68	5.32	ASIA	Iran-05
7	A/TUR/1/2006 (EU553878)	TUR06-01	639	605	0	94.68	5.32	ASIA	Iran-05
8	A/TUR/10/2005	TUR05-10	639	605	0	94.68	5.32	ASIA	Iran-05
9	A/TUR/241/2006* (FMDI-Ankara)	TUR06-AI	639	605	0	94.68	5.32	ASIA	Iran-05
10	A/TUR/3/2006	TUR06-03	639	605	0	94.68	5.32	ASIA	Iran-05
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/1/2005 (EF208769)	IRN05-01	639	600	0	93.90	6.10	ASIA	Iran-05
2	A/TUR/1/2008	TUR08-01	639	598	0	93.58	6.42	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/33/2008	TUR08-33	639	597	0	93.43	6.57	ASIA	Iran-05 ^{EZM-07}
4	A/AFG/6/2007	AFG07-06	639	594	0	92.96	7.04	ASIA	Iran-05 ^{AFG-07}
5	A/BAR/6/2008	BAR08-06	639	590	0	92.33	7.67	ASIA	Iran-05 ^{BAR-08}
6	A/IRN/2/87 (EF208770)	IRN87-02	636	534	0	83.96	16.04	ASIA	Iran-87
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	535	0	83.72	16.28	ASIA	A15
8	A/IRN/22/99 (EF208772)	IRN99-22	636	528	0	83.02	16.98	ASIA	Iran-99
9	A/TAI/118/87* (EF208777)	TAI87-AD	636	526	0	82.70	17.30	ASIA	unnamed
10	A22/IRQ/64 (AY593763)	IRQ64--A	639	528	0	82.63	17.37	ASIA	A22

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 18/02/2010
WRLFMD Ref No: TUR/6/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00003	Checked by: D.P. King
Sender Ref: 25/2010	
Location: M Sevinc, Odunpazari, Eskisehir, Central Anatolia Region, Turkey	Topotype: ASIA
Date collected: 2010	Genotype/strain: Iran-05 ^{ARD-07}
Date received by WRLFMD: 04/02/2010	Sequence filename: TUR10-06.SEQ
Date received for sequencing: 17/02/2010	Date sequence last updated: 18/02/2010
Species: Cattle	No. of Nt determined: 639
Material used: RS2	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: 1228
	Min. no. of nt for comparison: 300
	Total turn-around time: 14 days
	Sequencing time: 1 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/14/2009	TUR09-14	639	637	0	99.69	0.31	ASIA	Iran-05 ^{ARD-07}
2	A/TUR/2/2010	TUR10-02	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
3	A/TUR/21/2009	TUR09-21	639	636	0	99.53	0.47	ASIA	Iran-05 ^{ARD-07}
4	A/TUR/96/2008* (FMDI-Ankara)	TUR08-AD	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
5	A/TUR/53/2008* (FMDI-Ankara)	TUR08-AC	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
6	A/TUR/1/2008	TUR08-01	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
7	A/TUR/1018/2007* (FMDI-Ankara)	TUR07-AF	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
8	A/TUR/925/2007* (FMDI-Ankara)	TUR07-AD	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/981/2007* (FMDI-Ankara)	TUR07-AE	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/145/2008* (FMDI-Ankara)	TUR08-AG	639	613	0	95.93	4.07	ASIA	Iran-05 ^{ARD-07}
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/TUR/1/2008	TUR08-01	639	614	0	96.09	3.91	ASIA	Iran-05 ^{ARD-07}
2	A/IRN/1/2005 (EF208769)	IRN05-01	639	595	0	93.11	6.89	ASIA	Iran-05
3	A/AFG/6/2007	AFG07-06	639	592	0	92.64	7.36	ASIA	Iran-05 ^{AFG-07}
4	A/TUR/33/2008	TUR08-33	639	592	0	92.64	7.36	ASIA	Iran-05 ^{EZM-07}
5	A/BAR/6/2008	BAR08-06	639	586	0	91.71	8.29	ASIA	Iran-05 ^{BAR-08}
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	639	538	0	84.19	15.81	ASIA	A15
7	A/IRN/2/87 (EF208770)	IRN87-02	636	535	0	84.12	15.88	ASIA	Iran-87
8	A/TAI/118/87* (EF208777)	TAI87-AD	636	527	0	82.86	17.14	ASIA	unnamed
9	A22/IRQ/64 (AY593763)	IRQ64--A	639	528	0	82.63	17.37	ASIA	A22
10	A/IRN/22/99 (EF208772)	IRN99-22	636	521	0	81.92	18.08	ASIA	Iran-99

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v2.9

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Report on FMDV A in Turkey in 2009-2010

Batch: WRLFMD/2010/00003

Software: MEGA 4.0

No. of Taxa : 164

Data File : n:\evd\meg\db\fmvd\la\tur2010a.meg

Data Title : A Turkey 2009-2010

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference : =====

->Method : Neighbor-Joining

->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)

Include Sites : =====

->Gaps/Missing Data : Pairwise Deletion

->Codon Positions : 1st+2nd+3rd+Noncoding

Substitution Model : =====

->Model : Nucleotide: Kimura 2-parameter

->Substitutions to Include : d: Transitions + Transversions

->Pattern among Lineages : Same (Homogeneous)

->Rates among sites : Uniform rates

No. of Sites : 639

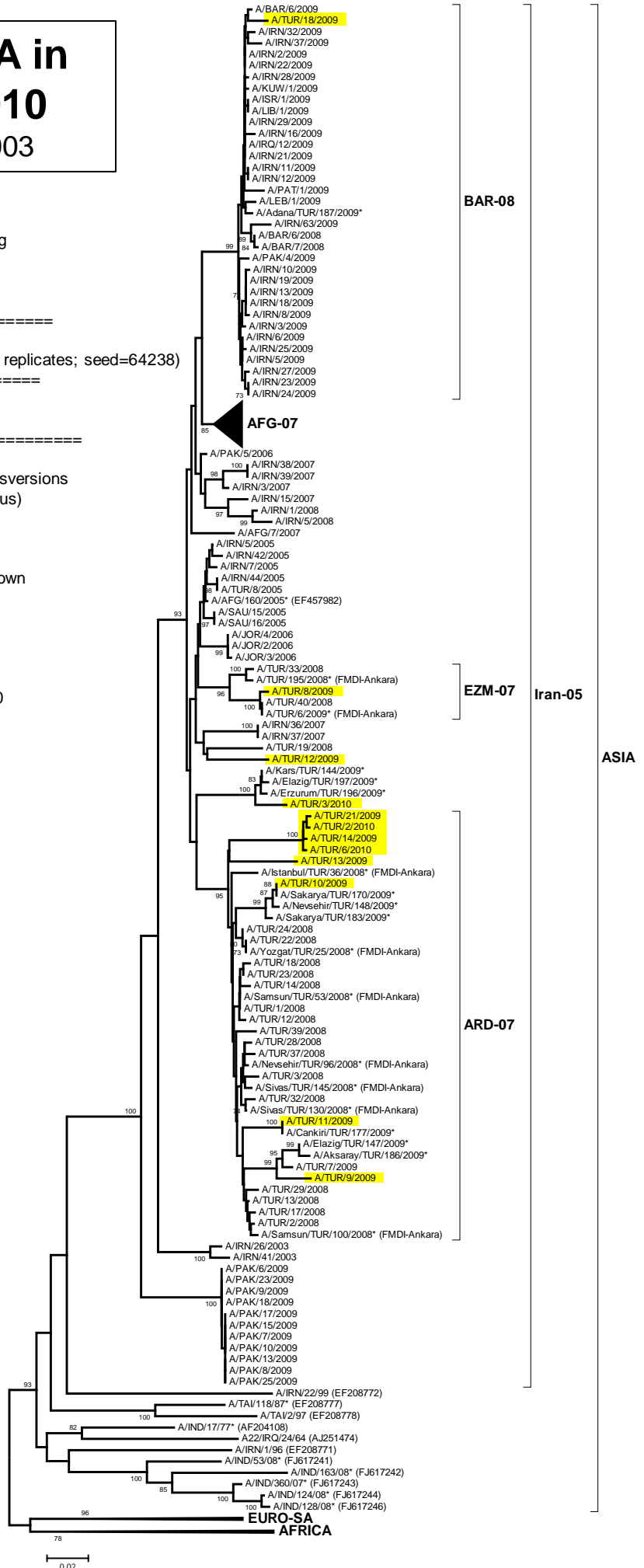
No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

* , not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 18 February 2010

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ASIA