

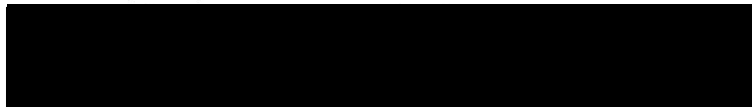


INSTITUTE FOR ANIMAL HEALTH
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath
PIRBRIGHT LABORATORY
Ash Road,
Pirbright,
Surrey,
GU24 0NF
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FMD Genotyping Report

Lab Reference WRL Batch Number: WRLFMD/2012/00007

Sender Details:



Date Received: 2nd February 2012

Country of Origin: Turkey

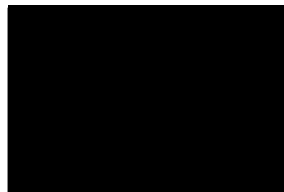
Date Reported: 6th March 2012

Dear Dr Musa Alkan

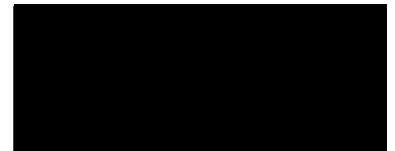
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

Results Approved By:



Official Stamp:



Date:

6/3/12 ✓

A UKAS accredited testing laboratory No. 4025.

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: gareth.shimmon@iah.ac.uk. IAH actively seeks and appreciates feedback, if you would like to offer feedback please complete the WRLFMD survey here: <http://www.surveymonkey.com/s/WRLFMD>

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

Genotyping Report

Report Date for this Batch: 5 March 2012

FMDV type Asia 1

Country: Turkey

Period: 2011-2012

No. of samples: 12

BATCH: WRLFMD/2012/00007



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: ASIA1 WRLFMD Ref No: TUR/65/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1550/2011 Location: Agapinar, Odun Pazari, Eskisehir, Central Anatolia, Turkey Date collected: 20/10/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-65.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 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	Asia1/TUR/1/2012	TUR12-01	633	630	0	99.53	0.47	ASIA	unnamed
2	Asia1/TUR/76/2011	TUR11-76	633	629	0	99.37	0.63	ASIA	unnamed
3	Asia1/TUR/66/2011	TUR11-66	633	628	0	99.21	0.79	ASIA	unnamed
4	Asia1/TUR/67/2011	TUR11-67	633	628	0	99.21	0.79	ASIA	unnamed
5	Asia1/TUR/69/2011	TUR11-69	633	628	0	99.21	0.79	ASIA	unnamed
6	Asia1/TUR/73/2011	TUR11-73	633	628	0	99.21	0.79	ASIA	unnamed
7	Asia1/TUR/2/2012	TUR12-02	633	627	0	99.05	0.95	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	627	0	99.05	0.95	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	624	0	98.58	1.42	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	624	0	98.58	1.42	ASIA	unnamed

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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	570	0	90.05	9.95	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	541	0	85.47	14.53	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	533	0	84.20	15.80	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	530	0	84.13	15.87	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	531	0	83.89	16.11	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	530	0	83.73	16.27	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	527	0	83.25	16.75	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	526	0	83.10	16.90	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	525	0	82.94	17.06	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	515	0	81.75	18.25	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: ASIA1 WRLFMD Ref No: TUR/66/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1637/2011 Location: Buzhane, Merkez, Van, East Anatolia, Turkey Date collected: 17/11/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-66.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/1/2012	TUR12-01	633	631	0	99.68	0.32	ASIA	unnamed
2	Asia1/TUR/2/2012	TUR12-02	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/76/2011	TUR11-76	633	630	0	99.53	0.47	ASIA	unnamed
4	Asia1/TUR/67/2011	TUR11-67	633	629	0	99.37	0.63	ASIA	unnamed
5	Asia1/TUR/69/2011	TUR11-69	633	629	0	99.37	0.63	ASIA	unnamed
6	Asia1/TUR/73/2011	TUR11-73	633	629	0	99.37	0.63	ASIA	unnamed
7	Asia1/TUR/65/2011	TUR11-65	633	628	0	99.21	0.79	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	628	0	99.21	0.79	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	627	0	99.05	0.95	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	627	0	99.05	0.95	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	570	0	90.05	9.95	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	542	0	85.62	14.38	ASIA	Group III
3	Asia1/IND/63/72* (AY304994)	IND72C63	630	533	0	84.60	15.40	ASIA	Unnamed
4	Asia1/IND/18/80 (DQ121116)	IND80-18	633	534	0	84.36	15.64	ASIA	Group V
5	Asia1/Shamir/ISR/89	ISR89--A	633	532	0	84.04	15.96	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	531	0	83.89	16.11	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	530	0	83.73	16.27	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	527	0	83.25	16.75	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	524	0	82.78	17.22	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	513	0	81.43	18.57	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: ASIA1 WRLFMD Ref No: TUR/67/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1658/2011 Location: Halilcavus, Hinis, Erzerum, East Anatolia, Turkey Date collected: 24/11/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-67.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/1/2012	TUR12-01	633	631	0	99.68	0.32	ASIA	unnamed
2	Asia1/TUR/76/2011	TUR11-76	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/66/2011	TUR11-66	633	629	0	99.37	0.63	ASIA	unnamed
4	Asia1/TUR/69/2011	TUR11-69	633	629	0	99.37	0.63	ASIA	unnamed
5	Asia1/TUR/73/2011	TUR11-73	633	629	0	99.37	0.63	ASIA	unnamed
6	Asia1/TUR/2/2012	TUR12-02	633	628	0	99.21	0.79	ASIA	unnamed
7	Asia1/TUR/65/2011	TUR11-65	633	628	0	99.21	0.79	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	628	0	99.21	0.79	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	625	0	98.74	1.26	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	625	0	98.74	1.26	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	570	0	90.05	9.95	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	539	0	85.15	14.85	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	535	0	84.52	15.48	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	532	0	84.44	15.56	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	529	0	83.57	16.43	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	528	0	83.41	16.59	ASIA	Unnamed
7	Asia1/HKN/19/74	HKN74-19	633	527	0	83.25	16.75	ASIA	Unnamed
8	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	527	0	83.25	16.75	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	523	0	82.62	17.38	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	512	0	81.27	18.73	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/68/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1702/2011 Location: Esunek, Bulanik, Mus, East Anatolia, Turkey Date collected: 01/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-68.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/49/2011	TUR11-49	633	629	0	99.37	0.63	ASIA	unnamed
2	Asia1/TUR/70/2011	TUR11-70	633	628	0	99.21	0.79	ASIA	unnamed
3	Asia1/IRN/33/2011	IRN11-33	633	627	0	99.05	0.95	ASIA	unnamed
4	Asia1/IRN/38/2011	IRN11-38	633	627	0	99.05	0.95	ASIA	unnamed
5	Asia1/TUR/1/2012	TUR12-01	633	627	0	99.05	0.95	ASIA	unnamed
6	Asia1/TUR/50/2011	TUR11-50	633	627	0	99.05	0.95	ASIA	unnamed
7	Asia1/TUR/66/2011	TUR11-66	633	627	0	99.05	0.95	ASIA	unnamed
8	Asia1/IRN/39/2011	IRN11-39	633	626	0	98.89	1.11	ASIA	unnamed
9	Asia1/IRN/43/2011	IRN11-43	633	626	0	98.89	1.11	ASIA	unnamed
10	Asia1/IRN/46/2011	IRN11-46	633	626	0	98.89	1.11	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	571	0	90.21	9.79	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	540	0	85.31	14.69	ASIA	Group III
3	Asia1/IND/63/72* (AY304994)	IND72C63	630	535	0	84.92	15.08	ASIA	Unnamed
4	Asia1/IND/18/80 (DQ121116)	IND80-18	633	532	0	84.04	15.96	ASIA	Group V
5	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	532	0	84.04	15.96	ASIA	Unnamed
6	Asia1/Shamir/ISR/89	ISR89--A	633	530	0	83.73	16.27	ASIA	Unnamed
7	Asia1/IND/14/95* (AF390678)	IND95-AA	633	529	0	83.57	16.43	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	528	0	83.41	16.59	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	524	0	82.78	17.22	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	512	0	81.27	18.73	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/69/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1700/2011 Location: Iismail Bey, Devrekan, Kastamonu, North Anatolia, Turkey Date collected: 06/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-69.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 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	Asia1/TUR/1/2012	TUR12-01	633	631	0	99.68	0.32	ASIA	unnamed
2	Asia1/TUR/72/2011	TUR11-72	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/76/2011	TUR11-76	633	630	0	99.53	0.47	ASIA	unnamed
4	Asia1/TUR/66/2011	TUR11-66	633	629	0	99.37	0.63	ASIA	unnamed
5	Asia1/TUR/67/2011	TUR11-67	633	629	0	99.37	0.63	ASIA	unnamed
6	Asia1/TUR/73/2011	TUR11-73	633	629	0	99.37	0.63	ASIA	unnamed
7	Asia1/TUR/2/2012	TUR12-02	633	628	0	99.21	0.79	ASIA	unnamed
8	Asia1/TUR/65/2011	TUR11-65	633	628	0	99.21	0.79	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	625	0	98.74	1.26	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	625	0	98.74	1.26	ASIA	unnamed

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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	570	0	90.05	9.95	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	541	0	85.47	14.53	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	533	0	84.20	15.80	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	530	0	84.13	15.87	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	529	0	83.57	16.43	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	528	0	83.41	16.59	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	527	0	83.25	16.75	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	526	0	83.10	16.90	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	523	0	82.62	17.38	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	512	0	81.27	18.73	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: ASIA1 WRLFMD Ref No: TUR/70/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1714/2011 Location: Balıkcılar, Merkez, Ardahan, East Anatolia, Turkey Date collected: 07/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-70.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/49/2011	TUR11-49	633	632	0	99.84	0.16	ASIA	unnamed
2	Asia1/TUR/50/2011	TUR11-50	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/74/2011	TUR11-74	633	630	0	99.53	0.47	ASIA	unnamed
4	Asia1/TUR/51/2011	TUR11-51	633	629	0	99.37	0.63	ASIA	unnamed
5	Asia1/TUR/68/2011	TUR11-68	633	628	0	99.21	0.79	ASIA	unnamed
6	Asia1/IRN/33/2011	IRN11-33	633	626	0	98.89	1.11	ASIA	unnamed
7	Asia1/IRN/38/2011	IRN11-38	633	626	0	98.89	1.11	ASIA	unnamed
8	Asia1/TUR/1/2012	TUR12-01	633	626	0	98.89	1.11	ASIA	unnamed
9	Asia1/TUR/66/2011	TUR11-66	633	626	0	98.89	1.11	ASIA	unnamed
10	Asia1/IRN/39/2011	IRN11-39	633	625	0	98.74	1.26	ASIA	unnamed

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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	574	0	90.68	9.32	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	541	0	85.47	14.53	ASIA	Group III
3	Asia1/IND/63/72* (AY304994)	IND72C63	630	535	0	84.92	15.08	ASIA	Unnamed
4	Asia1/IND/18/80 (DQ121116)	IND80-18	633	534	0	84.36	15.64	ASIA	Group V
5	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	533	0	84.20	15.80	ASIA	Unnamed
6	Asia1/Shamir/ISR/89	ISR89--A	633	531	0	83.89	16.11	ASIA	Unnamed
7	Asia1/IND/14/95* (AF390678)	IND95-AA	633	530	0	83.73	16.27	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	527	0	83.25	16.75	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	525	0	82.94	17.06	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	515	0	81.75	18.25	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/72/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1719/2011 Location: Alaage, Demirci, Manisa, West Anatolia, Turkey Date collected: 12/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-72.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/1/2012	TUR12-01	633	630	0	99.53	0.47	ASIA	unnamed
2	Asia1/TUR/69/2011	TUR11-69	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/76/2011	TUR11-76	633	629	0	99.37	0.63	ASIA	unnamed
4	Asia1/TUR/66/2011	TUR11-66	633	628	0	99.21	0.79	ASIA	unnamed
5	Asia1/TUR/67/2011	TUR11-67	633	628	0	99.21	0.79	ASIA	unnamed
6	Asia1/TUR/73/2011	TUR11-73	633	628	0	99.21	0.79	ASIA	unnamed
7	Asia1/TUR/2/2012	TUR12-02	633	627	0	99.05	0.95	ASIA	unnamed
8	Asia1/TUR/65/2011	TUR11-65	633	627	0	99.05	0.95	ASIA	unnamed
9	Asia1/BAR/1/2011	BAR11-01	633	624	0	98.58	1.42	ASIA	Unnamed
10	Asia1/BAR/2/2011	BAR11-02	633	624	0	98.58	1.42	ASIA	Unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	573	0	90.52	9.48	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	542	0	85.62	14.38	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	536	0	84.68	15.32	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	529	0	83.97	16.03	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	530	0	83.73	16.27	ASIA	Unnamed
6	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	530	0	83.73	16.27	ASIA	Unnamed
7	Asia1/IND/14/95* (AF390678)	IND95-AA	633	529	0	83.57	16.43	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	527	0	83.25	16.75	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	524	0	82.78	17.22	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	511	0	81.11	18.89	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/73/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1741/2011 Location: Istiklay, Karatay, Konya, Central Anatolia, Turkey Date collected: 16/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-73.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/1/2012	TUR12-01	633	631	0	99.68	0.32	ASIA	unnamed
2	Asia1/TUR/76/2011	TUR11-76	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/66/2011	TUR11-66	633	629	0	99.37	0.63	ASIA	unnamed
4	Asia1/TUR/67/2011	TUR11-67	633	629	0	99.37	0.63	ASIA	unnamed
5	Asia1/TUR/69/2011	TUR11-69	633	629	0	99.37	0.63	ASIA	unnamed
6	Asia1/TUR/2/2012	TUR12-02	633	628	0	99.21	0.79	ASIA	unnamed
7	Asia1/TUR/65/2011	TUR11-65	633	628	0	99.21	0.79	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	628	0	99.21	0.79	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	625	0	98.74	1.26	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	625	0	98.74	1.26	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	570	0	90.05	9.95	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	539	0	85.15	14.85	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	533	0	84.20	15.80	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	530	0	84.13	15.87	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	529	0	83.57	16.43	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	528	0	83.41	16.59	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	528	0	83.41	16.59	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	527	0	83.25	16.75	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	523	0	82.62	17.38	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	514	0	81.59	18.41	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/74/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 1760/2011 Location: Dutlu, Octu, Erzerum, East Anatolia, Turkey Date collected: 19/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-74.SEQ Date sequence last updated: 29/02/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/70/2011	TUR11-70	633	630	0	99.53	0.47	ASIA	unnamed
2	Asia1/TUR/49/2011	TUR11-49	633	629	0	99.37	0.63	ASIA	unnamed
3	Asia1/TUR/50/2011	TUR11-50	633	627	0	99.05	0.95	ASIA	unnamed
4	Asia1/TUR/51/2011	TUR11-51	633	626	0	98.89	1.11	ASIA	unnamed
5	Asia1/TUR/68/2011	TUR11-68	633	625	0	98.74	1.26	ASIA	unnamed
6	Asia1/IRN/33/2011	IRN11-33	633	623	0	98.42	1.58	ASIA	unnamed
7	Asia1/IRN/38/2011	IRN11-38	633	623	0	98.42	1.58	ASIA	unnamed
8	Asia1/TUR/1/2012	TUR12-01	633	623	0	98.42	1.58	ASIA	unnamed
9	Asia1/TUR/66/2011	TUR11-66	633	623	0	98.42	1.58	ASIA	unnamed
10	Asia1/TUR/67/2011	TUR11-67	633	623	0	98.42	1.58	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	571	0	90.21	9.79	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	538	0	84.99	15.01	ASIA	Group III
3	Asia1/IND/63/72* (AY304994)	IND72C63	630	532	0	84.44	15.56	ASIA	Unnamed
4	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	532	0	84.04	15.96	ASIA	Unnamed
5	Asia1/IND/18/80 (DQ121116)	IND80-18	633	531	0	83.89	16.11	ASIA	Group V
6	Asia1/Shamir/ISR/89	ISR89--A	633	528	0	83.41	16.59	ASIA	Unnamed
7	Asia1/IND/14/95* (AF390678)	IND95-AA	633	527	0	83.25	16.75	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	524	0	82.78	17.22	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	524	0	82.78	17.22	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	512	0	81.27	18.73	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/76/2011 Batch No: WRLFMD/2012/00007 Sender Ref: 3/2012 Location: Kucukkalecik, Merkez, Afyonkarahisar, West Anatolia, Turkey Date collected: 27/12/2011 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR11-76.SEQ Date sequence last updated: 01/03/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/1/2012	TUR12-01	633	632	0	99.84	0.16	ASIA	unnamed
2	Asia1/TUR/66/2011	TUR11-66	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/67/2011	TUR11-67	633	630	0	99.53	0.47	ASIA	unnamed
4	Asia1/TUR/69/2011	TUR11-69	633	630	0	99.53	0.47	ASIA	unnamed
5	Asia1/TUR/73/2011	TUR11-73	633	630	0	99.53	0.47	ASIA	unnamed
6	Asia1/TUR/2/2012	TUR12-02	633	629	0	99.37	0.63	ASIA	unnamed
7	Asia1/TUR/65/2011	TUR11-65	633	629	0	99.37	0.63	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	629	0	99.37	0.63	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	626	0	98.89	1.11	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	626	0	98.89	1.11	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	571	0	90.21	9.79	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	540	0	85.31	14.69	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	534	0	84.36	15.64	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	531	0	84.29	15.71	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	530	0	83.73	16.27	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	529	0	83.57	16.43	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	528	0	83.41	16.59	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	527	0	83.25	16.75	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	524	0	82.78	17.22	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	513	0	81.43	18.57	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/1/2012 Batch No: WRLFMD/2012/00007 Sender Ref: 21/2012 Location: Cumau, Cime, Aydin, West Anatolia, Turkey Date collected: 02/01/2012 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR12-01.SEQ Date sequence last updated: 01/03/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/76/2011	TUR11-76	633	632	0	99.84	0.16	ASIA	unnamed
2	Asia1/TUR/66/2011	TUR11-66	633	631	0	99.68	0.32	ASIA	unnamed
3	Asia1/TUR/67/2011	TUR11-67	633	631	0	99.68	0.32	ASIA	unnamed
4	Asia1/TUR/69/2011	TUR11-69	633	631	0	99.68	0.32	ASIA	unnamed
5	Asia1/TUR/73/2011	TUR11-73	633	631	0	99.68	0.32	ASIA	unnamed
6	Asia1/TUR/2/2012	TUR12-02	633	630	0	99.53	0.47	ASIA	unnamed
7	Asia1/TUR/65/2011	TUR11-65	633	630	0	99.53	0.47	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	630	0	99.53	0.47	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	627	0	99.05	0.95	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	627	0	99.05	0.95	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	572	0	90.36	9.64	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	541	0	85.47	14.53	ASIA	Group III
3	Asia1/IND/18/80 (DQ121116)	IND80-18	633	535	0	84.52	15.48	ASIA	Group V
4	Asia1/IND/63/72* (AY304994)	IND72C63	630	532	0	84.44	15.56	ASIA	Unnamed
5	Asia1/Shamir/ISR/89	ISR89--A	633	531	0	83.89	16.11	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	530	0	83.73	16.27	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	529	0	83.57	16.43	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	528	0	83.41	16.59	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	525	0	82.94	17.06	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	514	0	81.59	18.41	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: ASIA1 WRLFMD Ref No: TUR/2/2012 Batch No: WRLFMD/2012/00007 Sender Ref: 47/2011 Location: Ocakli, Varto, Mus, East Anatolia, Turkey Date collected: 05/01/2012 Date received by WRLFMD: 02/02/2012 Date received for sequencing: 23/02/2012 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R As1-1C613F/EUR-2B52R	Report date: 02/03/2012 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: unnamed Sequence filename: TUR12-02.SEQ Date sequence last updated: 01/03/2012 No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633 Total no. of comparisons: 425 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 8 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	Asia1/TUR/1/2012	TUR12-01	633	630	0	99.53	0.47	ASIA	unnamed
2	Asia1/TUR/66/2011	TUR11-66	633	630	0	99.53	0.47	ASIA	unnamed
3	Asia1/TUR/76/2011	TUR11-76	633	629	0	99.37	0.63	ASIA	unnamed
4	Asia1/TUR/67/2011	TUR11-67	633	628	0	99.21	0.79	ASIA	unnamed
5	Asia1/TUR/69/2011	TUR11-69	633	628	0	99.21	0.79	ASIA	unnamed
6	Asia1/TUR/73/2011	TUR11-73	633	628	0	99.21	0.79	ASIA	unnamed
7	Asia1/TUR/65/2011	TUR11-65	633	627	0	99.05	0.95	ASIA	unnamed
8	Asia1/TUR/72/2011	TUR11-72	633	627	0	99.05	0.95	ASIA	unnamed
9	Asia1/IRN/33/2011	IRN11-33	633	626	0	98.89	1.11	ASIA	unnamed
10	Asia1/IRN/38/2011	IRN11-38	633	626	0	98.89	1.11	ASIA	unnamed
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	Asia1/AFG/1/2001 (DQ121109)	AFG01-01	633	569	0	89.89	10.11	ASIA	Group I
2	Asia1/IND/762/2003* (DQ101240)	IND03-AB	633	540	0	85.31	14.69	ASIA	Group III
3	Asia1/IND/63/72* (AY304994)	IND72C63	630	533	0	84.60	15.40	ASIA	Unnamed
4	Asia1/IND/18/80 (DQ121116)	IND80-18	633	534	0	84.36	15.64	ASIA	Group V
5	Asia1/Shamir/ISR/89	ISR89--A	633	530	0	83.73	16.27	ASIA	Unnamed
6	Asia1/IND/14/95* (AF390678)	IND95-AA	633	529	0	83.57	16.43	ASIA	Unnamed
7	Asia1/YNBS/CHA/58 (AY390432)	CHA58-AA	633	528	0	83.41	16.59	ASIA	Unnamed
8	Asia1/HKN/19/74	HKN74-19	633	525	0	82.94	17.06	ASIA	Unnamed
9	Asia1/IRN/10/2004 (DQ121119)	IRN04-10	633	522	0	82.46	17.54	ASIA	Group VIb
10	Asia1/PAK/1/54 (AY593795)	PAK54A01	630	513	0	81.43	18.57	ASIA	not defined

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV Asia 1 in Turkey in 2011-2012

Batch: WRLFMD/2012/00007

◆ indicates viruses in this batch

Software: MEGA 5.0

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 : 633

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 05 March 2012

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