



INSTITUTE FOR ANIMAL HEALTH

Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath

PIRBRIGHT LABORATORY

Ash Road,

Pirbright,

Surrey,

GU24 0NF

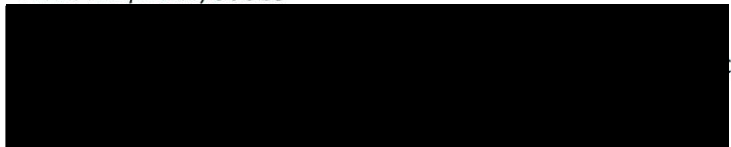
Intn Tel: 00 44 1483 232441

Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2011/00023

Sender Details:



Date Received: 31st March 2011

Country of Origin: Afghanistan

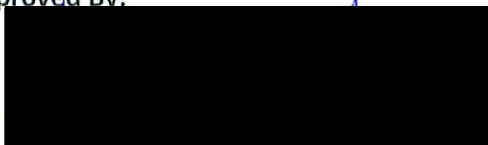
Date Reported: 14th June 2011

Dear Dr. Ehtisham Khan,

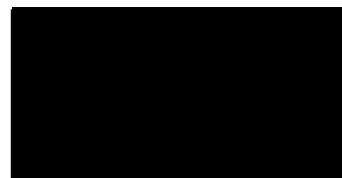
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

Results Approved By:



Official Stamp:



Date:

15/6/11



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: elizabeth.wilson@bbsrc.ac.uk)

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

Genotyping Report

Report Date for this Batch: 14 June 2011

FMDV type O

Country: Afghanistan

Period: 2011

No. of samples: 20

BATCH: WRLFMD/2011/00023



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: AFG/1/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 441 Location: Company, District 5, Kabul, Afghanistan Date collected: 09/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-01.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/2/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 442 Location: Dara Paghman, Paghman, Kabul, Afghanistan Date collected: 10/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-02.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
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2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/3/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 443 Location: Dara Paghman, Paghman, Kabul, Afghanistan Date collected: 10/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-03.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
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Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
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1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/4/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 444 Location: Dara Paghman, Paghman, Kabul, Afghanistan Date collected: 10/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-04.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
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2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/5/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 445 Location: Dara Paghman, Paghman, Kabul, Afghanistan Date collected: 10/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-05.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
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2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
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9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
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Page 1 of 1

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2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/7/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 447 Location: Qala Sedeq, Paghman, Kabul, Afghanistan Date collected: 13/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-07.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/8/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 448 Location: Qala Sedeq, Paghman, Kabul, Afghanistan Date collected: 13/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-08.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/9/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 449 Location: Qala Sedeq, Paghman, Kabul, Afghanistan Date collected: 13/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-09.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/10/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 450 Location: Qala Sedeq, Paghman, Kabul, Afghanistan Date collected: 13/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-10.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/11/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 451 Location: Qala Sedeq, Paghman, Kabul, Afghanistan Date collected: 13/01/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-11.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/33/2011	AFG11-33	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/18/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 535 Location: Yakachnar, Subrghan, Jwzjan, Afghanistan Date collected: 02/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-18.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/19/2011	AFG11-19	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/256/2010	AFG10256	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/259/2010	AFG10259	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/35/2011	AFG11-35	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/10/2011	IRN11-10	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/35/2011	IRN11-35	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/103/2010	PAK10103	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/104/2010	PAK10104	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/262/2010	AFG10262	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/263/2010	AFG10263	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	598	0	93.58	6.42	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{BAL-09}
6	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	568	0	88.89	11.11	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/19/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 541 Location: Kaje, Pul Alam, Logar, Afghanistan Date collected: 02/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 11/05/2011 Species: Not Known Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-19.SEQ Date sequence last updated: 16/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 34 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/256/2010	AFG10256	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/259/2010	AFG10259	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/35/2011	AFG11-35	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/10/2011	IRN11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/35/2011	IRN11-35	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/103/2010	PAK10103	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/104/2010	PAK10104	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/262/2010	AFG10262	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/263/2010	AFG10263	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/264/2010	AFG10264	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/32/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 565 Location: Dare, Kajak, Shekhali, Parwan, Afghanistan Date collected: 12/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 25/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-32.SEQ Date sequence last updated: 27/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/36/2011	AFG11-36	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/41/2011	AFG11-41	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/44/2011	AFG11-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/59/2010	AFG10-59	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/61/2010	AFG10-61	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/89/2010	AFG10-89	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/3/2010	IRN10-03	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/96/2010	IRN10-96	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/110/2010	AFG10110	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/32/2010	AFG10-32	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/33/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 537 Location: Hazara Baghal, District 11, Kabul, Afghanistan Date collected: 14/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 25/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-33.SEQ Date sequence last updated: 27/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/1/2011	AFG11-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/10/2011	AFG11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/11/2011	AFG11-11	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/2/2011	AFG11-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/3/2011	AFG11-03	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/4/2011	AFG11-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/5/2011	AFG11-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/6/2011	AFG11-06	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/7/2011	AFG11-07	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/35/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 543 Location: Qalai Shmk, Pul Alam, Logar, Afghanistan Date collected: 20/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 25/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-35.SEQ Date sequence last updated: 27/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/19/2011	AFG11-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/256/2010	AFG10256	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/259/2010	AFG10259	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/10/2011	IRN11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/35/2011	IRN11-35	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/103/2010	PAK10103	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/104/2010	PAK10104	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/262/2010	AFG10262	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/263/2010	AFG10263	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/264/2010	AFG10264	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{BAL-09}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 14/06/2011
WRLFMD Ref No: AFG/36/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00023	Checked by: D.P. King
Sender Ref: 540	
Location: Hadazi, Afghanistan	Topotype: ME-SA
Date collected: 21/02/2011	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 31/03/2011	Sequence filename: AFG11-36.SEQ
Date received for sequencing: 25/05/2011	Date sequence last updated: 27/05/2011
Species: Not Known	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 3017
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 75 days
	Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/32/2011	AFG11-32	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/41/2011	AFG11-41	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/44/2011	AFG11-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/59/2010	AFG10-59	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/61/2010	AFG10-61	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/89/2010	AFG10-89	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/3/2010	IRN10-03	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/96/2010	IRN10-96	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/110/2010	AFG10110	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/32/2010	AFG10-32	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/38/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 545 Location: Khoja Pai Takht, Memana, Faryab, Afghanistan Date collected: 24/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 25/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-38.SEQ Date sequence last updated: 26/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/PAK/63/2011	PAK11-63	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/235/2010	AFG10235	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/244/2010	AFG10244	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/253/2010	AFG10253	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/112/2010	PAK10112	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/74/2011	PAK11-74	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/77/2010	PAK10-77	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/78/2010	PAK10-78	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/79/2010	PAK10-79	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/80/2010	PAK10-80	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	627	0	98.12	1.88	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	598	0	93.58	6.42	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{BAL-09}
7	O/PAK/16/2010	PAK10-16	639	588	0	92.02	7.98	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/41/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 567 Location: Kolamar, Seagr, Parwan, Afghanistan Date collected: 25/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 25/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-41.SEQ Date sequence last updated: 27/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/32/2011	AFG11-32	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/36/2011	AFG11-36	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/44/2011	AFG11-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/59/2010	AFG10-59	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/61/2010	AFG10-61	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/89/2010	AFG10-89	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/3/2010	IRN10-03	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/96/2010	IRN10-96	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/110/2010	AFG10110	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/32/2010	AFG10-32	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/44/2011 Batch No: WRLFMD/2011/00023 Sender Ref: 568 Location: Rasoli, Seagr, Parwan, Afghanistan Date collected: 28/02/2011 Date received by WRLFMD: 31/03/2011 Date received for sequencing: 25/05/2011 Species: Not Known Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 14/06/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG11-44.SEQ Date sequence last updated: 27/05/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 3017 Min. no. of nt for comparison: 600 Total turn-around time: 75 days Sequencing time: 20 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/32/2011	AFG11-32	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/36/2011	AFG11-36	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/41/2011	AFG11-41	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/59/2010	AFG10-59	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/61/2010	AFG10-61	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/89/2010	AFG10-89	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/3/2010	IRN10-03	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/96/2010	IRN10-96	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/110/2010	AFG10110	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/32/2010	AFG10-32	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{BAL-09}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV O in Afghanistan in 2011

Batch: WRLFMD/2011/00023

◆ 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 : 642

No Of Bootstrap Reps = 1000

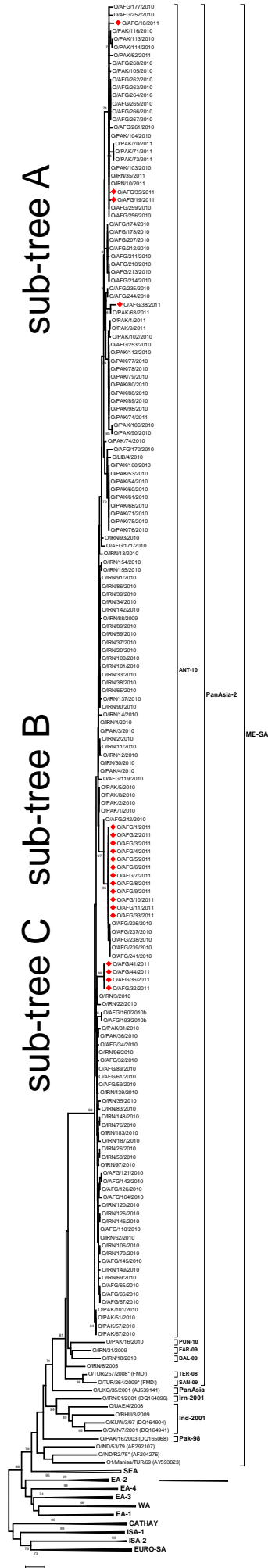
Only bootstrap values of 70% and above are shown

* , not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 14 June 2011

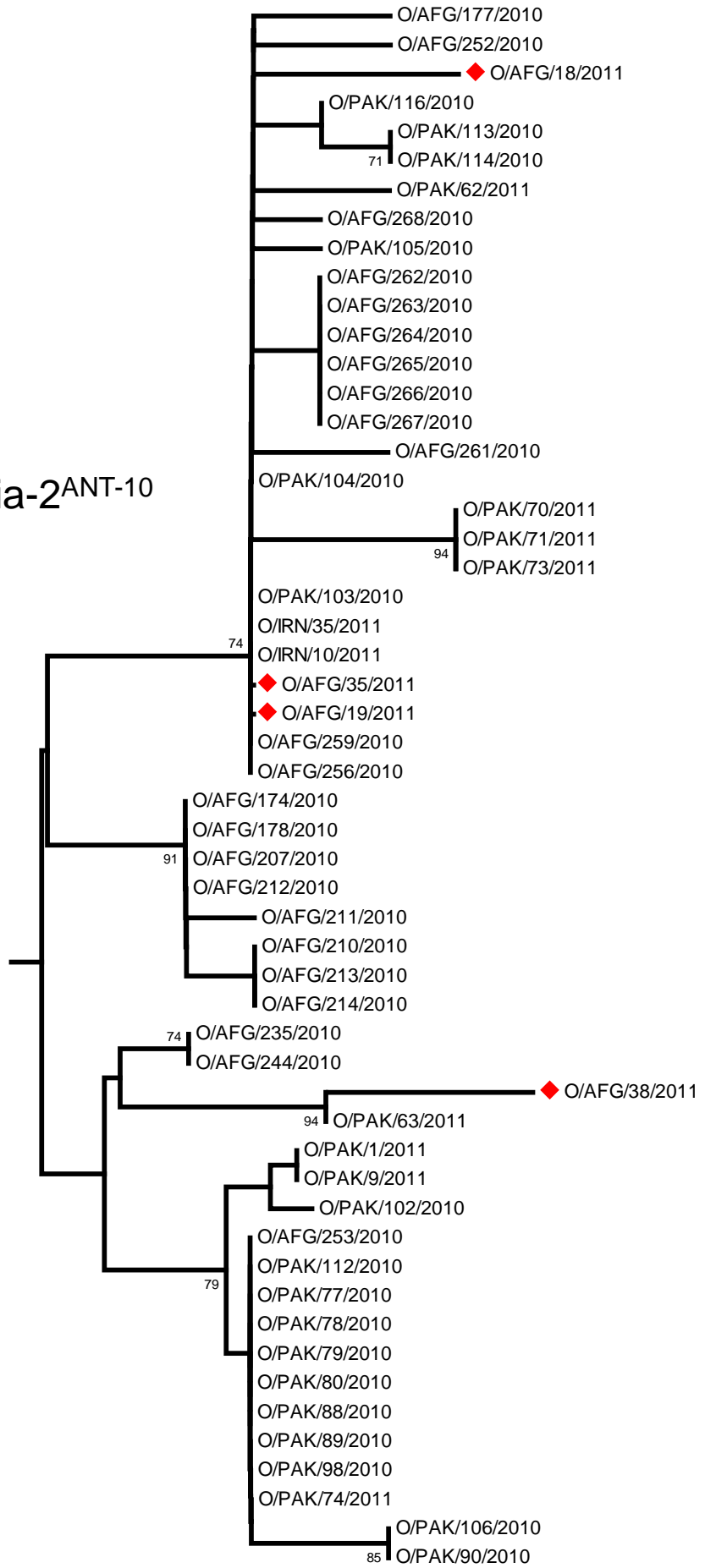
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see subsequent pages



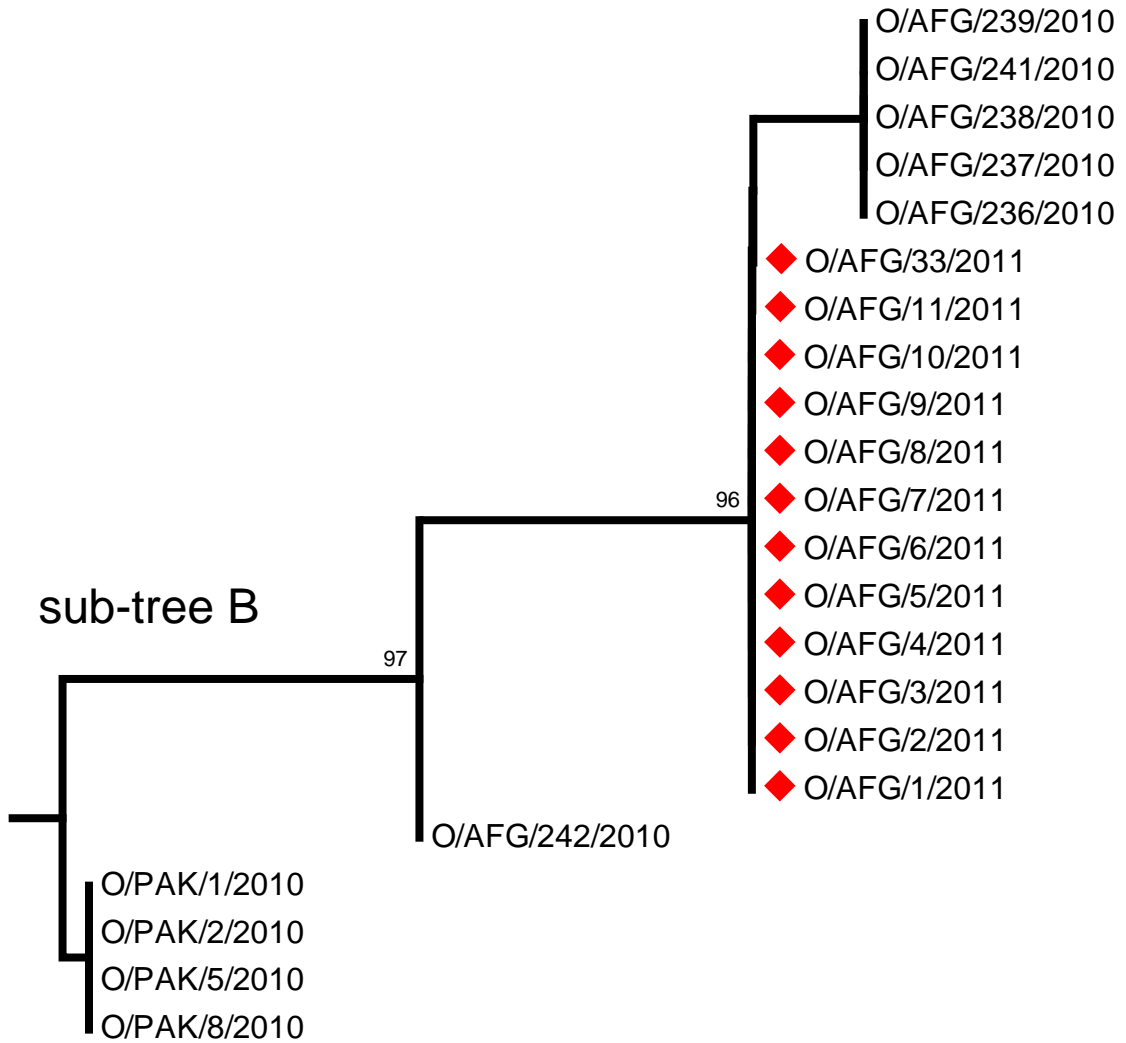
O/ME-SA/PanAsia-2^{ANT-10}

sub-tree A



0.001

O/ME-SA/PanAsia-2^{ANT-10}



0.001

O/ME-SA/PanAsia-2^{ANT-10}

