



INSTITUTE FOR ANIMAL HEALTH
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FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2010/00017

Sender Details:



Date Received: 9th April 2010
Country of Origin: Afghanistan
Date Reported: 22nd June 2010

Dear Dr. Ehtisham Khan,

Re.: Serotype O

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:

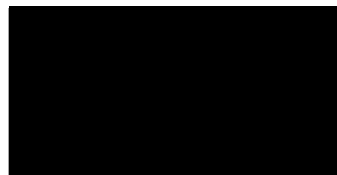
<http://www.wrlfmd.org/>

Please note that some of these samples were collected more than six months ago.

Results Approved By:



Official Stamp:



Date:

24/6/10

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: 21 June 2010

FMDV type O

Country: Afghanistan

Period: 2009-2010

No. of isolates: 43

BATCH: WRLFMD/2010/00017

The following 43 samples, originally reported as FMDV-GD have now been amplified and sequenced using FMDV O primers:

AFG/5/2009, AFG/19/2009, AFG/22/2009, AFG/23/2009, AFG/24/2009, AFG/25/2009, AFG/27/2009, AFG/28/2009, AFG/29/2009, AFG/30/2009, AFG/31/2009, AFG/32/2009, AFG/33/2009, AFG/35/2009, AFG/36/2009, AFG/37/2009, AFG/38/2009, AFG/40/2009, AFG/42/2009, AFG/43/2009, AFG/44/2009, AFG/45/2009, AFG/46/2009, AFG/49/2009, AFG/65/2009, AFG/66/2009, AFG/67/2009, AFG/1/2010, AFG/2/2010, AFG/4/2010, AFG/5/2010, AFG/11/2010, AFG/12/2010, AFG/13/2010, AFG/19/2010, AFG/20/2010, AFG/21/2010, AFG/22/2010, AFG/23/2010, AFG/24/2010, AFG/25/2010, AFG/26/2010 & AFG/27/2010.



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Serotype: O WRLFMD Ref No: AFG/5/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-65/120 Location: Pushti Bag, Deh Dadi, Balkh, Afghanistan Date collected: 06/09/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-05.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/19/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-60/108 Location: Charm Ga, Aibak center, Samangan, Afghanistan Date collected: 24/11/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-19.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/25/2009	AFG09-25	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/28/2009	AFG09-28	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/29/2009	AFG09-29	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	608	0	95.15	4.85	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	592	0	92.64	7.36	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	562	0	88.36	11.64	ME-SA	Ind-2001c
9	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/22/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-61/111 Location: Shar Jad, Center, Samangan, Afghanistan Date collected: 24/11/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 05/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-22.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 22 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/23/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-61/112 Location: Shar Jad, Center, Samangan, Afghanistan Date collected: 24/11/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-23.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	569	0	89.05	10.95	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	562	0	88.36	11.64	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/24/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-61/113 Location: Shar Jad, Center, Samangan, Afghanistan Date collected: 24/11/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-24.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/25/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-62/114 Location: Khwaja Isn, Aibal Center, Samangan, Afghanistan Date collected: 24/11/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 18/06/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-25.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2450 Min. no. of nt for comparison: 300 Total turn-around time: 70 days Sequencing time: 31 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/19/2009	AFG09-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/28/2009	AFG09-28	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/29/2009	AFG09-29	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	608	0	95.15	4.85	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	592	0	92.64	7.36	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	562	0	88.36	11.64	ME-SA	Ind-2001c
9	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/27/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-67/123 Location: Qala-I-Naja, Char Dihi, Kabul, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 05/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-27.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 22 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/28/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-76/149 Location: Sarqad, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-28.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/29/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-76/150 Location: Sarqad, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-29.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/30/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/151 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-30.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/31/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/152 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-31.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/32/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/153 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-32.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/33/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/154 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-33.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/49/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-69/130 Location: Nahar Sha, Bahsood, Nangarhar, Afghanistan Date collected: 14/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 05/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 18/06/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-49.SEQ Date sequence last updated: 28/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2450 Min. no. of nt for comparison: 300 Total turn-around time: 70 days Sequencing time: 44 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/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	608	0	95.15	4.85	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001
6	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98
8	O/IND/R2/75* (AF204276)	IND75--A	639	565	0	88.42	11.58	ME-SA	unnamed
9	O/UAE/4/2008	UAE08-04	636	562	0	88.36	11.64	ME-SA	Ind-2001c
10	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/35/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/156 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 05/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-35.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 22 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/36/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/157 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-36.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/37/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-77/158 Location: Takht Rust, Aibak Center, Samangan, Afghanistan Date collected: 07/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-37.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/38/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-75/145 Location: Char Rahi, Nahar Sha, Balkh, Afghanistan Date collected: 08/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-38.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/40/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-75/147 Location: Char Rahi, Nahar Sha, Balkh, Afghanistan Date collected: 08/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-40.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/42/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-68/124	
Location: Gulistan, Rukha, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 11/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-42.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/43/2009	AFG09-43	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/44/2009	AFG09-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/45/2009	AFG09-45	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/46/2009	AFG09-46	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
6	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/43/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-68/125	
Location: Gulistan, Rukha, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 11/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-43.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/42/2009	AFG09-42	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/44/2009	AFG09-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/45/2009	AFG09-45	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/46/2009	AFG09-46	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
6	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/44/2009 Batch No: WRLFMD/2010/00017 Sender Ref: AA-68/126 Location: Gulistan, Rukha, Panjsher, Afghanistan Date collected: 11/12/2009 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 05/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG09-44.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 22 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/42/2009	AFG09-42	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/43/2009	AFG09-43	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/45/2009	AFG09-45	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/46/2009	AFG09-46	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
6	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/45/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-68/127	
Location: Gulistan, Rukha, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 11/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-45.SEQ
Date received for sequencing: 05/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 22 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/42/2009	AFG09-42	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/43/2009	AFG09-43	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/44/2009	AFG09-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/46/2009	AFG09-46	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
6	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/46/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-68/128	
Location: Gulistan, Rukha, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 11/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-46.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/42/2009	AFG09-42	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/43/2009	AFG09-43	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/44/2009	AFG09-44	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/45/2009	AFG09-45	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
6	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
7	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/65/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-81/163	
Location: Gharomy, Center, Khost, Afghanistan	Topotype: ME-SA
Date collected: 20/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-65.SEQ
Date received for sequencing: 05/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 22 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/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	569	0	89.05	10.95	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	562	0	88.36	11.64	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	561	0	87.79	12.21	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/66/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-78/159	
Location: Qala-I-Jum, 7th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-66.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/67/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-79/160	
Location: Ali Mardan, 7th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/12/2009	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG09-67.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/1/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-82/164	
Location: Sariay Naw, Injil, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 08/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-01.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/2/2010	AFG10-02	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
3	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
4	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
5	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/27/2009	AFG09-27	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/28/2009	AFG09-28	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/29/2009	AFG09-29	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	589	0	92.18	7.82	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	568	0	88.89	11.11	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/2/2010 Batch No: WRLFMD/2010/00017 Sender Ref: AA-82/165 Location: Sariay Naw, Injil, Hirat, Afghanistan Date collected: 08/01/2010 Date received by WRLFMD: 09/04/2010 Date received for sequencing: 18/05/2010 Species: Not Known Material used: Epithelium suspension Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 27/05/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG10-02.SEQ Date sequence last updated: 27/05/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2444 Min. no. of nt for comparison: 300 Total turn-around time: 48 days Sequencing time: 9 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/1/2010	AFG10-01	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
3	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
4	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
5	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/27/2009	AFG09-27	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/28/2009	AFG09-28	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/29/2009	AFG09-29	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	589	0	92.18	7.82	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	575	0	89.98	10.02	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	568	0	88.89	11.11	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	562	0	87.95	12.05	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	560	0	87.64	12.36	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/4/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-83/167	
Location: Baba Haji, 2nd, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 08/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-04.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/13/2010	AFG10-13	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/5/2010	AFG10-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/12/2010	AFG10-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/5/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-84/168	
Location: Qala-I-Reg, 9th, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 08/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-05.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/13/2010	AFG10-13	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/4/2010	AFG10-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/12/2010	AFG10-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/11/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-85/174	
Location: Rabat Guz, Injil, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 09/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-11.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/28/2009	AFG09-28	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/29/2009	AFG09-29	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/30/2009	AFG09-30	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	569	0	89.05	10.95	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	562	0	88.36	11.64	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	561	0	87.79	12.21	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/12/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-86/175	
Location: Qafasdan, Injil, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 09/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-12.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/13/2010	AFG10-13	639	638	0	99.84	0.16	ME-SA	PanAsia-2
2	O/AFG/4/2010	AFG10-04	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/AFG/5/2010	AFG10-05	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	637	0	99.69	0.31	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	637	0	99.69	0.31	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	637	0	99.69	0.31	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	637	0	99.69	0.31	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	637	0	99.69	0.31	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	637	0	99.69	0.31	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	589	0	92.18	7.82	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/BHU/3/2009	BHU09-03	639	572	0	89.51	10.49	ME-SA	Ind-2001d
7	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/13/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-86/176	
Location: Qafasdan, Injil, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 09/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-13.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/4/2010	AFG10-04	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/5/2010	AFG10-05	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/12/2010	AFG10-12	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	563	0	88.11	11.89	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/19/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-88/178	
Location: Zor Abad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-19.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 18/06/2010
WRLFMD Ref No: AFG/20/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-88/179	
Location: Zor Abad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-20.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2450
	Min. no. of nt for comparison: 300
	Total turn-around time: 70 days
	Sequencing time: 31 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/20/2010	PAK10-20	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/PAK/16/2010	PAK10-16	639	638	0	99.84	0.16	ME-SA	PanAsia-2
3	O/PAK/17/2010	PAK10-17	639	638	0	99.84	0.16	ME-SA	PanAsia-2
4	O/PAK/18/2010	PAK10-18	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/PAK/19/2010	PAK10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/PAK/28/2007	PAK07-28	639	614	0	96.09	3.91	ME-SA	PanAsia-2
7	O/PAK/50/2007	PAK07-50	639	614	0	96.09	3.91	ME-SA	PanAsia-2
8	O/PAK/22/2007	PAK07-22	639	613	0	95.93	4.07	ME-SA	PanAsia-2
9	O/PAK/23/2007	PAK07-23	639	613	0	95.93	4.07	ME-SA	PanAsia-2
10	O/IRN/45/2006	IRN06-45	639	612	0	95.77	4.23	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
5	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
6	O/IND/53/79 (AF292107)	IND79A53	639	568	0	88.89	11.11	ME-SA	unnamed
7	O/BHU/3/2009	BHU09-03	639	565	0	88.42	11.58	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	561	0	88.21	11.79	ME-SA	Ind-2001c
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	563	0	88.11	11.89	ME-SA	Pak-98
10	O/IND/R2/75* (AF204276)	IND75--A	639	559	0	87.48	12.52	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/21/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-88/180	
Location: Zor Abad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-21.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/22/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-88/181	
Location: Zor Abad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-22.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/23/2010	AFG10-23	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/23/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-88/182	
Location: Zor Abad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 23/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-23.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/19/2010	AFG10-19	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/21/2010	AFG10-21	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/22/2009	AFG09-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/22/2010	AFG10-22	639	639	0	100.00	0.00	ME-SA	PanAsia-2
5	O/AFG/24/2009	AFG09-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
6	O/AFG/27/2009	AFG09-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
7	O/AFG/28/2009	AFG09-28	639	639	0	100.00	0.00	ME-SA	PanAsia-2
8	O/AFG/29/2009	AFG09-29	639	639	0	100.00	0.00	ME-SA	PanAsia-2
9	O/AFG/30/2009	AFG09-30	639	639	0	100.00	0.00	ME-SA	PanAsia-2
10	O/AFG/31/2009	AFG09-31	639	639	0	100.00	0.00	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	591	0	92.49	7.51	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	570	0	89.20	10.80	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	563	0	88.52	11.48	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	564	0	88.26	11.74	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	562	0	87.95	12.05	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/24/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-90/187	
Location: Khair Khan, 8th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 26/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-24.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/25/2010	AFG10-25	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/26/2010	AFG10-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/27/2010	AFG10-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	565	0	88.42	11.58	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 27/05/2010
WRLFMD Ref No: AFG/25/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-90/188	
Location: Khair Khan, 8th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 26/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-25.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 27/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2444
	Min. no. of nt for comparison: 300
	Total turn-around time: 48 days
	Sequencing time: 9 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/24/2010	AFG10-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/26/2010	AFG10-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/27/2010	AFG10-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	565	0	88.42	11.58	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 18/06/2010
WRLFMD Ref No: AFG/26/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-90/189	
Location: Khair Khan, 8th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 26/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-26.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 28/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2450
	Min. no. of nt for comparison: 300
	Total turn-around time: 70 days
	Sequencing time: 31 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/24/2010	AFG10-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/25/2010	AFG10-25	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/27/2010	AFG10-27	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Iran-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	565	0	88.42	11.58	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 18/06/2010
WRLFMD Ref No: AFG/27/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00017	Checked by: D.P. King
Sender Ref: AA-90/190	
Location: Khair Khan, 8th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 26/01/2010	Genotype/strain: PanAsia-2
Date received by WRLFMD: 09/04/2010	Sequence filename: AFG10-27.SEQ
Date received for sequencing: 18/05/2010	Date sequence last updated: 28/05/2010
Species: Not Known	No. of Nt determined: 639
Material used: Epithelium suspension	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2450
	Min. no. of nt for comparison: 300
	Total turn-around time: 70 days
	Sequencing time: 31 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/24/2010	AFG10-24	639	639	0	100.00	0.00	ME-SA	PanAsia-2
2	O/AFG/25/2010	AFG10-25	639	639	0	100.00	0.00	ME-SA	PanAsia-2
3	O/AFG/26/2010	AFG10-26	639	639	0	100.00	0.00	ME-SA	PanAsia-2
4	O/AFG/19/2010	AFG10-19	639	638	0	99.84	0.16	ME-SA	PanAsia-2
5	O/AFG/21/2010	AFG10-21	639	638	0	99.84	0.16	ME-SA	PanAsia-2
6	O/AFG/22/2009	AFG09-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
7	O/AFG/22/2010	AFG10-22	639	638	0	99.84	0.16	ME-SA	PanAsia-2
8	O/AFG/23/2010	AFG10-23	639	638	0	99.84	0.16	ME-SA	PanAsia-2
9	O/AFG/24/2009	AFG09-24	639	638	0	99.84	0.16	ME-SA	PanAsia-2
10	O/AFG/27/2009	AFG09-27	639	638	0	99.84	0.16	ME-SA	PanAsia-2
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/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
2	O/UKG/35/2001 (AJ539141)	UKG01-35	639	590	0	92.33	7.67	ME-SA	PanAsia
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
4	O/OMN/7/2001 (DQ164941)	OMN01-07	639	575	0	89.98	10.02	ME-SA	Ind-2001b
5	O/PAK/16/2003 (DQ165068)	PAK03-16	639	573	0	89.67	10.33	ME-SA	Pak-98
6	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001
7	O/BHU/3/2009	BHU09-03	639	571	0	89.36	10.64	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	564	0	88.68	11.32	ME-SA	Ind-2001c
9	O/IND/R2/75* (AF204276)	IND75--A	639	565	0	88.42	11.58	ME-SA	unnamed
10	O/IND/53/79 (AF292107)	IND79A53	639	563	0	88.11	11.89	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v3.1

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Report on FMDV O in Afghanistan in 2009-2010

Batch: WRLFMD/2010/00017

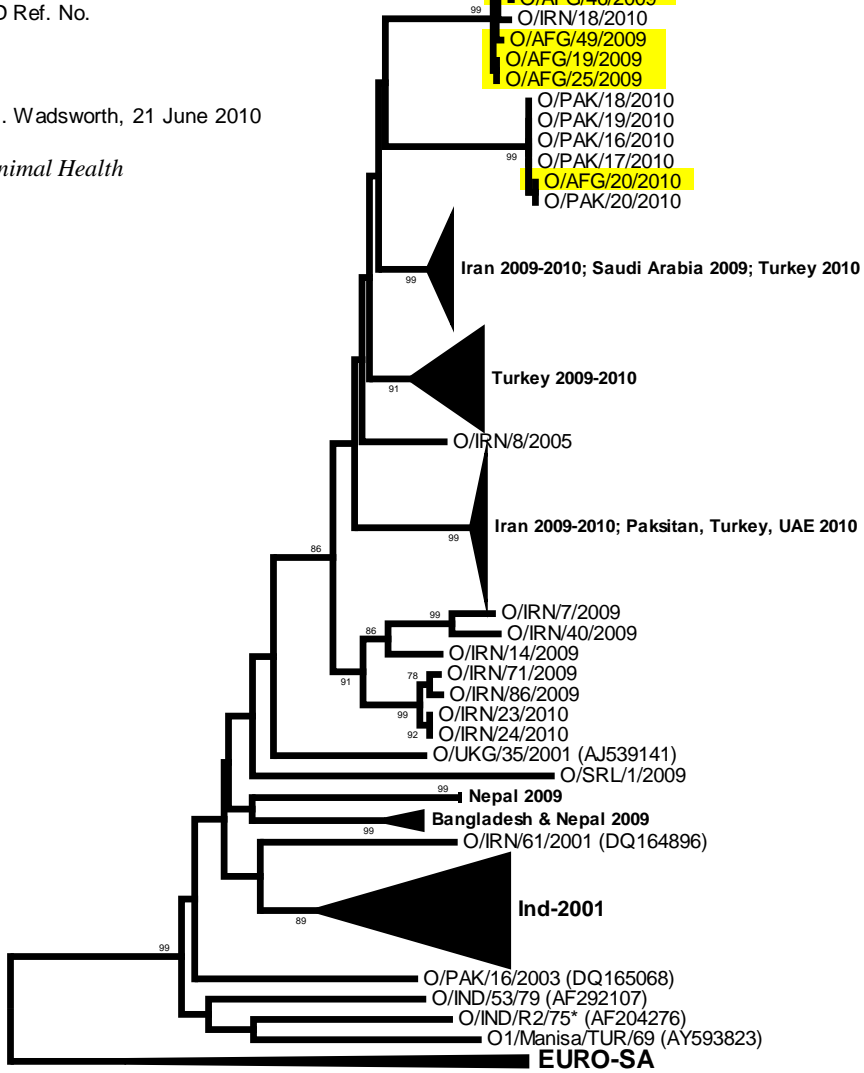
Software: MEGA 4.0
 No. of Taxa : 255
 Data File : n:\evd\meg\db\fmvd\o\AFG2010a.meg
 Data Title : O Afghanistan 2009-2010
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates;
 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, 21 June 2010

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O/AFG/25/2010
 O/AFG/26/2010
 O/AFG/24/2010
 O/AFG/27/2010
 O/AFG/11/2010
 O/AFG/1/2010
 O/AFG/2/2010
 O/AFG/4/2010
 O/AFG/13/2010
 O/AFG/5/2010
 O/AFG/12/2010
 O/AFG/23/2009
 O/AFG/65/2009
 O/AFG/40/2009
 O/AFG/37/2009
 O/AFG/21/2010
 O/AFG/32/2009
 O/AFG/67/2009
 O/AFG/29/2009
 O/AFG/33/2009
 O/AFG/36/2009
 O/AFG/5/2009
 O/AFG/24/2009
 O/AFG/35/2009
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 O/AFG/28/2009
 O/AFG/22/2009
 O/AFG/66/2009
 O/AFG/30/2009
 O/AFG/22/2010
 O/AFG/31/2009
 O/AFG/19/2010
 O/AFG/38/2009
 O/AFG/23/2010
 O/AFG/44/2009
 O/AFG/42/2009
 O/AFG/43/2009
 O/AFG/45/2009
 O/AFG/46/2009
 O/IRN/18/2010
 O/AFG/49/2009
 O/AFG/19/2009
 O/AFG/25/2009



0.02