



INSTITUTE FOR ANIMAL HEALTH

Acting Director: Professor David Paton MA, VetMB, PhD, MRCVS

PIRBRIGHT LABORATORY

Ash Road,

Pirbright,

Surrey,

GU24 0NF

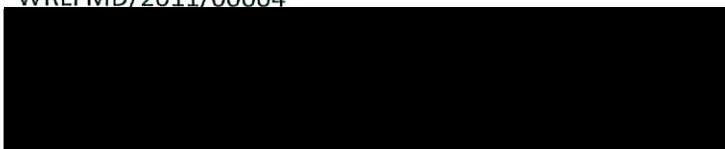
Intn Tel: 00 44 1483 232441

Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2011/00004

Sender Details:



Date Received: 18th January 2011

Country of Origin: Afghanistan

Date Reported: 20th May 2011

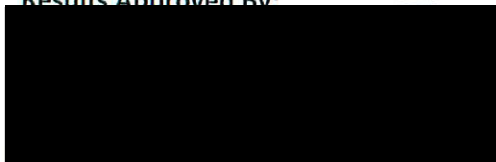
Dear Dr. E Ul Haq Khan,

Re.: Serotype O

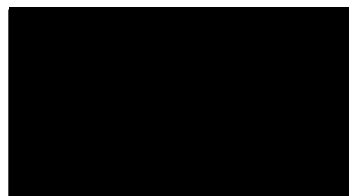
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

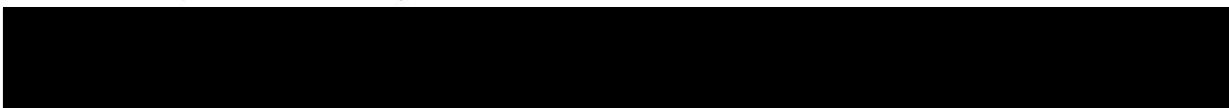
Results Approved By:



Official Stamp:



Date: 20/05/2011



Testing carried out by WRLFMD is UKAS ISO/IEC 17025 accredited. Please see link for scope of accreditation:

http://www.ukas.org/testing/lab_detail.asp?lab_id=2811&location_id=&vMenuOption=3 . To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.wilson@bbsrc.ac.uk)

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

Genotyping Report

Report Date for this Batch: 20 May 2011

FMDV type O

Country: Afghanistan

Period: 2010

No. of samples: 92

BATCH: WRLFMD/2011/00004



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/110/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 312	
Location: Mndwal, Angel, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 01/01/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10110.SEQ
Date received for sequencing: 16/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 48 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/IRN/62/2010	IRN10-62	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/126/2010	AFG10126	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/145/2010	AFG10145	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/59/2010	AFG10-59	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/61/2010	AFG10-61	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/65/2010	AFG10-65	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/66/2010	AFG10-66	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/67/2010	AFG10-67	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/89/2010	AFG10-89	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/106/2010	IRN10106	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Im-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	571	0	89.36	10.64	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/111/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 358 Location: Ghonmykly, Dehbala, Nangarhar, Afghanistan Date collected: 01/01/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 16/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10111.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 48 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/217/2010	AFG10217	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/219/2010	AFG10219	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/221/2010	AFG10221	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/100/2010	IRN10100	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/101/2010	IRN10101	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/142/2010	IRN10142	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/20/2010	IRN10-20	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/33/2010	IRN10-33	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/34/2010	IRN10-34	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/37/2010	IRN10-37	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/119/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 309	
Location: Alamanbea, Gzara, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 09/06/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10119.SEQ
Date received for sequencing: 16/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 48 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/IRN/30/2010	IRN10-30	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/4/2010	IRN10-04	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/3/2010	PAK10-03	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/4/2010	PAK10-04	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/100/2010	IRN10100	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/101/2010	IRN10101	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/11/2010	IRN10-11	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/142/2010	IRN10142	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/2/2010	IRN10-02	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/20/2010	IRN10-20	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	608	0	95.15	4.85	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/120/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 302	
Location: Mohallangar, zendajan, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 10/06/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10120.SEQ
Date received for sequencing: 16/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Total no. of comparisons: 2845
	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 48 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/164/2010	AFG10164	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/110/2010	AFG10110	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/121/2010	AFG10121	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/142/2010	AFG10142	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/62/2010	IRN10-62	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/126/2010	AFG10126	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/145/2010	AFG10145	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/59/2010	AFG10-59	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/61/2010	AFG10-61	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/65/2010	AFG10-65	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	608	0	95.15	4.85	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	606	0	94.84	5.16	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	574	1	89.97	10.03	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	574	0	89.83	10.17	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/121/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 298	
Location: Khnjan, Gzara, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 12/06/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10121.SEQ
Date received for sequencing: 16/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 48 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/142/2010	AFG10142	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/126/2010	AFG10126	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/110/2010	AFG10110	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/164/2010	AFG10164	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/62/2010	IRN10-62	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/120/2010	AFG10120	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/145/2010	AFG10145	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/59/2010	AFG10-59	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/61/2010	AFG10-61	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/65/2010	AFG10-65	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Im-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	571	0	89.36	10.64	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/126/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 297 Location: Qasr Nasir, Pashtonzarghon, Hirat, Afghanistan Date collected: 20/06/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10126.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/110/2010	AFG10110	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/121/2010	AFG10121	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/142/2010	AFG10142	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/62/2010	IRN10-62	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/145/2010	AFG10145	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/59/2010	AFG10-59	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/61/2010	AFG10-61	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/65/2010	AFG10-65	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/66/2010	AFG10-66	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/67/2010	AFG10-67	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/131/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 284	
Location: Khlman, Gzara, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 24/06/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10131.SEQ
Date received for sequencing: 21/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 43 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/135/2010	AFG10135	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/158/2010	AFG10158	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/160/2010a	AFG10160A	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/192/2010a	AFG10192A	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/30/2010	IRN10-30	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/4/2010	IRN10-04	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/15/2010	PAK10-15	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/21/2010	PAK10-21	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/22/2010	PAK10-22	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/3/2010	PAK10-03	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/133/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 305	
Location: Rakhna, Angel, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 24/06/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10133.SEQ
Date received for sequencing: 16/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 48 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/IRN/149/2010	IRN10149	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/110/2010	AFG10110	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/62/2010	IRN10-62	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/126/2010	AFG10126	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/145/2010	AFG10145	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/59/2010	AFG10-59	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/61/2010	AFG10-61	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/65/2010	AFG10-65	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/66/2010	AFG10-66	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/67/2010	AFG10-67	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	590	0	92.33	7.67	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	579	0	90.61	9.39	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/135/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 285 Location: Seawoshan, Gzara, Hirat, Afghanistan Date collected: 26/06/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10135.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/158/2010	AFG10158	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/160/2010a	AFG10160A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/192/2010a	AFG10192A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/131/2010	AFG10131	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/30/2010	IRN10-30	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/4/2010	IRN10-04	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/15/2010	PAK10-15	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/21/2010	PAK10-21	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/22/2010	PAK10-22	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/3/2010	PAK10-03	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/141/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 303 Location: Ashaqsleman, Angel, Hirat, Afghanistan Date collected: 29/06/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10141.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/110/2010	AFG10110	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/40/2010	AFG10-40	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/41/2010	AFG10-41	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/42/2010	AFG10-42	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/62/2010	IRN10-62	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/126/2010	AFG10126	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/145/2010	AFG10145	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/39/2010	AFG10-39	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/43/2010	AFG10-43	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/44/2010	AFG10-44	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/142/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 304	
Location: Gabraeel, Angel, Hirat, Afghanistan	Topotype: ME-SA
Date collected: 29/06/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10142.SEQ
Date received for sequencing: 21/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 43 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/121/2010	AFG10121	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/126/2010	AFG10126	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/110/2010	AFG10110	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/164/2010	AFG10164	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/62/2010	IRN10-62	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/120/2010	AFG10120	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/145/2010	AFG10145	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/59/2010	AFG10-59	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/61/2010	AFG10-61	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/65/2010	AFG10-65	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Im-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	571	0	89.36	10.64	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/145/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 317 Location: Arzy, Gosha, Nangarhar, Afghanistan Date collected: 30/06/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10145.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/110/2010	AFG10110	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/62/2010	IRN10-62	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/126/2010	AFG10126	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/59/2010	AFG10-59	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/61/2010	AFG10-61	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/65/2010	AFG10-65	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/66/2010	AFG10-66	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/67/2010	AFG10-67	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/89/2010	AFG10-89	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/106/2010	IRN10106	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/148/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 426 Location: Kochi People, Srkhroad, Nangarhar, Afghanistan Date collected: 06/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG10148.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/30/2010	AFG10-30	639	634	0	99.22	0.78	ME-SA	PanAsia-2
2	O/AFG/45/2007	AFG07-45	639	620	0	97.03	2.97	ME-SA	PanAsia-2
3	O/AFG/42/2007	AFG07-42	639	619	0	96.87	3.13	ME-SA	PanAsia-2
4	O/AFG/43/2007	AFG07-43	639	619	0	96.87	3.13	ME-SA	PanAsia-2
5	O/AFG/29/2007	AFG07-29	639	618	0	96.71	3.29	ME-SA	PanAsia-2
6	O/KAZ/2007 (ARRIAH)	KAZ07-AA	639	616	0	96.40	3.60	ME-SA	PanAsia-2
7	O/PAK/10/2006	PAK06-10	639	616	0	96.40	3.60	ME-SA	PanAsia-2
8	O/PAK/10/2006 (EF494503)	PAK06-AE	639	616	0	96.40	3.60	ME-SA	PanAsia-2
9	O/PAK/16/2006	PAK06-16	639	616	0	96.40	3.60	ME-SA	PanAsia-2
10	O/PAK/4/2006	PAK06-04	639	616	0	96.40	3.60	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	612	0	95.77	4.23	ME-SA	PanAsia-2
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/18/2010	IRN10-18	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{ANT-10}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{SAN-09}
6	O/PAK/16/2010	PAK10-16	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/88/2009	IRN09-88	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	592	0	92.64	7.36	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	578	0	90.45	9.55	ME-SA	Ind-2001a
10	O/BHU/3/2009	BHU09-03	639	575	0	89.98	10.02	ME-SA	Ind-2001d

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/150/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 272 Location: Klog-e-do-ab, BadakhshanShewa, Afghanistan Date collected: 09/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: AFG10150.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/IRN/141/2010	IRN10141	639	630	0	98.59	1.41	ME-SA	PanAsia-2
2	O/IRN/71/2009	IRN09-71	639	630	0	98.59	1.41	ME-SA	PanAsia-2
3	O/IRN/86/2009	IRN09-86	639	629	0	98.44	1.56	ME-SA	PanAsia-2
4	O/IRN/23/2010	IRN10-23	639	627	0	98.12	1.88	ME-SA	PanAsia-2
5	O/IRN/24/2010	IRN10-24	639	627	0	98.12	1.88	ME-SA	PanAsia-2
6	O/IRN/22/2007	IRN07-22	639	617	0	96.56	3.44	ME-SA	PanAsia-2
7	O/PAK/15/2007	PAK07-15	639	617	0	96.56	3.44	ME-SA	PanAsia-2
8	O/PAK/21/2007	PAK07-21	639	617	0	96.56	3.44	ME-SA	PanAsia-2
9	O/PAK/35/2005 (FJ798166)	PAK05-35	639	617	0	96.56	3.44	ME-SA	PanAsia-2
10	O/PAK/56/2007 (FJ798180)	PAK07-56	639	617	0	96.56	3.44	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	598	0	93.58	6.42	ME-SA	PanAsia-2
2	O/IRN/31/2009	IRN09-31	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/88/2009	IRN09-88	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
4	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/257/2008* (FMDI)	TUR08-AD	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{TER-08}
7	O/PAK/16/2010	PAK10-16	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	581	0	90.92	9.08	ME-SA	Ind-2001a
10	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/151/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 273	
Location: BadakhshanShewa, Afghanistan	Topotype: ME-SA
Date collected: 09/07/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10151.SEQ
Date received for sequencing: 21/03/2011	Date sequence last updated: 23/03/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 43 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/192/2010b	AFG10192B	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/193/2010a	AFG10193A	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/39/2010	AFG10-39	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/245/2010	AFG10245	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/246/2010	AFG10246	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/247/2010	AFG10247	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/248/2010	AFG10248	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/249/2010	AFG10249	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/250/2010	AFG10250	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/251/2010	AFG10251	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	602	0	94.21	5.79	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/152/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 274 Location: Nakhcherpar, BadakhshanShewa, Afghanistan Date collected: 09/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10152.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/51/2010	AFG10-51	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/153/2010	AFG10153	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/60/2010	AFG10-60	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/62/2010	AFG10-62	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/68/2010	AFG10-68	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/110/2010	AFG10110	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/139/2010	IRN10139	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/62/2010	IRN10-62	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/126/2010	AFG10126	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/145/2010	AFG10145	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	626	0	97.97	2.03	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	602	0	94.21	5.79	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	590	0	92.33	7.67	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/153/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 275 Location: Shakh dara, Badakhshan Shewa, Afghanistan Date collected: 09/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10153.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/152/2010	AFG10152	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/51/2010	AFG10-51	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/60/2010	AFG10-60	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/62/2010	AFG10-62	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/68/2010	AFG10-68	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/110/2010	AFG10110	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/139/2010	IRN10139	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/62/2010	IRN10-62	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/126/2010	AFG10126	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/145/2010	AFG10145	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	625	0	97.81	2.19	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	588	0	92.02	7.98	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/158/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 280 Location: Qramogh1, Argo, BadakhshanShewa, Afghanistan Date collected: 11/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 21/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10158.SEQ Date sequence last updated: 23/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 43 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/135/2010	AFG10135	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/160/2010a	AFG10160A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/192/2010a	AFG10192A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/131/2010	AFG10131	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/30/2010	IRN10-30	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/4/2010	IRN10-04	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/15/2010	PAK10-15	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/21/2010	PAK10-21	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/22/2010	PAK10-22	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/3/2010	PAK10-03	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/160/2010a Batch No: WRLFMD/2011/00004 Sender Ref: 282 Location: Qramogh, Argo, BadakhshanShewa, Afghanistan Date collected: 11/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10160a.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/135/2010	AFG10135	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/158/2010	AFG10158	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/192/2010a	AFG10192A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/131/2010	AFG10131	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/30/2010	IRN10-30	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/4/2010	IRN10-04	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/15/2010	PAK10-15	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/21/2010	PAK10-21	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/22/2010	PAK10-22	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/3/2010	PAK10-03	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/160/2010b Batch No: WRLFMD/2011/00004 Sender Ref: 282 Location: Qramogh1, Argo, BadakhshanShewa, Afghanistan Date collected: 11/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10160b.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/193/2010b	AFG10193B	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/59/2010	AFG10-59	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/61/2010	AFG10-61	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/89/2010	AFG10-89	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/96/2010	IRN10-96	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/110/2010	AFG10110	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/32/2010	AFG10-32	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/34/2010	AFG10-34	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/139/2010	IRN10139	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/183/2010	IRN10183	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/164/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 295 Location: Shengana, Center, Panjsher, Afghanistan Date collected: 27/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10164.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/120/2010	AFG10120	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/110/2010	AFG10110	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/121/2010	AFG10121	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/142/2010	AFG10142	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/62/2010	IRN10-62	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/126/2010	AFG10126	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/145/2010	AFG10145	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/59/2010	AFG10-59	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/61/2010	AFG10-61	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/65/2010	AFG10-65	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	573	1	89.81	10.19	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	573	0	89.67	10.33	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/166/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 373 Location: Qarliq Graq, DashtQala, Takhar, Afghanistan Date collected: 31/07/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10166.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/IRN/139/2010	IRN10139	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/59/2010	AFG10-59	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/61/2010	AFG10-61	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/89/2010	AFG10-89	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/96/2010	IRN10-96	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/110/2010	AFG10110	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/32/2010	AFG10-32	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/34/2010	AFG10-34	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/132/2010	IRN10132	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/150/2010	IRN10150	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/170/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 360 Location: Zakhil, Rodat, Nangarhar, Afghanistan Date collected: 03/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10170.SEQ Date sequence last updated: 01/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/100/2010	PAK10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/PAK/53/2010	PAK10-53	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/54/2010	PAK10-54	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/60/2010	PAK10-60	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/61/2010	PAK10-61	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/68/2010	PAK10-68	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/71/2010	PAK10-71	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/75/2010	PAK10-75	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/76/2010	PAK10-76	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/191/2010	IRN10191	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	598	0	93.58	6.42	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	590	0	92.33	7.67	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/UAE/4/2008	UAE08-04	636	566	0	88.99	11.01	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/171/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 361 Location: Zemar Khill, Pacherogan, Nangarhar, Afghanistan Date collected: 03/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10171.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/196/2010	AFG10196	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/93/2010	IRN10-93	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/217/2010	AFG10217	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/219/2010	AFG10219	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/221/2010	AFG10221	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/101/2010	IRN10101	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/142/2010	IRN10142	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/156/2010	IRN10156	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/20/2010	IRN10-20	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/174/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 367 Location: Ranang, DashtQala, Nangarhar, Afghanistan Date collected: 10/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10174.SEQ Date sequence last updated: 01/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/178/2010	AFG10178	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/207/2010	AFG10207	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/212/2010	AFG10212	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/210/2010	AFG10210	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/211/2010	AFG10211	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/213/2010	AFG10213	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/214/2010	AFG10214	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/177/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 430 Location: Badakhshi Qshlaq, Baharak, Takhar, Afghanistan Date collected: 12/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10177.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/256/2010	AFG10256	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/259/2010	AFG10259	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/10/2011	IRN11-10	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/103/2010	PAK10103	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/104/2010	PAK10104	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/262/2010	AFG10262	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/263/2010	AFG10263	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/264/2010	AFG10264	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/265/2010	AFG10265	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/266/2010	AFG10266	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	599	0	93.74	6.26	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/178/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 365 Location: Lala, Chaparhar, Nangarhar, Afghanistan Date collected: 15/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10178.SEQ Date sequence last updated: 01/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/174/2010	AFG10174	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/207/2010	AFG10207	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/212/2010	AFG10212	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/210/2010	AFG10210	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/211/2010	AFG10211	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/213/2010	AFG10213	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/214/2010	AFG10214	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/180/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 319 Location: Asalatkhil Abdara, Anaba, Panjsher, Afghanistan Date collected: 16/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10180.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/181/2010	AFG10181	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/183/2010	AFG10183	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/182/2010	AFG10182	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/220/2010	AFG10220	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/100/2010	IRN10100	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/101/2010	IRN10101	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/142/2010	IRN10142	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/15/2010	IRN10-15	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/33/2010	IRN10-33	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/181/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 320 Location: Asalatkhil Abdara, Anaba, Panjsher, Afghanistan Date collected: 16/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10181.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/180/2010	AFG10180	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/183/2010	AFG10183	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/182/2010	AFG10182	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/220/2010	AFG10220	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/100/2010	IRN10100	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/101/2010	IRN10101	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/142/2010	IRN10142	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/15/2010	IRN10-15	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/33/2010	IRN10-33	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/182/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 321 Location: Asalatkhil Abdara, Anaba, Panjsher, Afghanistan Date collected: 16/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10182.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/180/2010	AFG10180	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/181/2010	AFG10181	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/183/2010	AFG10183	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/220/2010	AFG10220	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/100/2010	IRN10100	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/101/2010	IRN10101	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/142/2010	IRN10142	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/15/2010	IRN10-15	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/33/2010	IRN10-33	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/183/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 322 Location: Asalatkhil Abdara, Anaba, Panjsher, Afghanistan Date collected: 16/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10183.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/180/2010	AFG10180	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/181/2010	AFG10181	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/182/2010	AFG10182	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/220/2010	AFG10220	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/100/2010	IRN10100	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/101/2010	IRN10101	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/142/2010	IRN10142	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/15/2010	IRN10-15	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/33/2010	IRN10-33	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	568	1	89.03	10.97	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/190/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 364 Location: Taraky, Chaparhar, Nangarhar, Afghanistan Date collected: 29/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10190.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/101/2010	IRN10101	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/142/2010	IRN10142	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/20/2010	IRN10-20	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/33/2010	IRN10-33	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/34/2010	IRN10-34	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/37/2010	IRN10-37	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/38/2010	IRN10-38	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/39/2010	IRN10-39	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/59/2010	IRN10-59	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	572	0	89.51	10.49	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/192/2010a Batch No: WRLFMD/2011/00004 Sender Ref: 424 Location: Lemargokterie, Chaparhar, Nangarhar, Afghanistan Date collected: 30/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10192a.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/135/2010	AFG10135	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/158/2010	AFG10158	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/160/2010a	AFG10160A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/131/2010	AFG10131	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/30/2010	IRN10-30	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/4/2010	IRN10-04	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/15/2010	PAK10-15	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/21/2010	PAK10-21	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/22/2010	PAK10-22	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/3/2010	PAK10-03	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	567	1	88.87	11.13	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/192/2010b Batch No: WRLFMD/2011/00004 Sender Ref: 424 Location: Lemargokterie, Chaparhar, Nangarhar, Afghanistan Date collected: 30/08/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10192b.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/193/2010a	AFG10193A	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/151/2010	AFG10151	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/39/2010	AFG10-39	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/245/2010	AFG10245	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/246/2010	AFG10246	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/247/2010	AFG10247	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/248/2010	AFG10248	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/249/2010	AFG10249	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/250/2010	AFG10250	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/251/2010	AFG10251	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/193/2010a Batch No: WRLFMD/2011/00004 Sender Ref: 366 Location: Sebpor, Kozknar, Nangarhar, Afghanistan Date collected: 02/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10193a.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/192/2010b	AFG10192B	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/151/2010	AFG10151	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/39/2010	AFG10-39	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/245/2010	AFG10245	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/246/2010	AFG10246	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/247/2010	AFG10247	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/248/2010	AFG10248	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/249/2010	AFG10249	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/250/2010	AFG10250	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/251/2010	AFG10251	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/193/2010b Batch No: WRLFMD/2011/00004 Sender Ref: 366 Location: Sebpor, Kozknar, Nangarhar, Afghanistan Date collected: 02/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 25/03/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10193b.SEQ Date sequence last updated: 30/03/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 39 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/160/2010b	AFG10160B	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/59/2010	AFG10-59	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/61/2010	AFG10-61	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/89/2010	AFG10-89	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/96/2010	IRN10-96	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/110/2010	AFG10110	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/32/2010	AFG10-32	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/34/2010	AFG10-34	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/139/2010	IRN10139	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/183/2010	IRN10183	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/195/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 370 Location: Rachpod, Baticot, Nangarhar, Afghanistan Date collected: 05/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10195.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/205/2010	AFG10205	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/221/2010	IRN10221	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/222/2010	IRN10222	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/223/2010	IRN10223	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/204/2010	AFG10204	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/100/2010	IRN10100	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/101/2010	IRN10101	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/142/2010	IRN10142	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/206/2010	IRN10206	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	590	0	92.33	7.67	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/196/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 363 Location: Daka, Momandara, Nangarhar, Afghanistan Date collected: 07/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10196.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/171/2010	AFG10171	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/93/2010	IRN10-93	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/217/2010	AFG10217	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/219/2010	AFG10219	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/221/2010	AFG10221	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/101/2010	IRN10101	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/142/2010	IRN10142	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/156/2010	IRN10156	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/20/2010	IRN10-20	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/197/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 324 Location: Baba Ali, Dara, Panjsher, Afghanistan Date collected: 15/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10197.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/200/2010	AFG10200	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/201/2010	AFG10201	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/202/2010	AFG10202	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/199/2010	AFG10199	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/225/2010	AFG10225	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/226/2010	AFG10226	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/227/2010	AFG10227	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/199/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 326 Location: Baba Ali, Dara, Panjsher, Afghanistan Date collected: 15/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10199.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/197/2010	AFG10197	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/200/2010	AFG10200	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/201/2010	AFG10201	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/202/2010	AFG10202	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/223/2010	AFG10223	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/224/2010	AFG10224	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/225/2010	AFG10225	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/226/2010	AFG10226	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/227/2010	AFG10227	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/100/2010	IRN10100	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/200/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 327 Location: Baba Ali, Dara, Panjsher, Afghanistan Date collected: 15/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10200.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/197/2010	AFG10197	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/201/2010	AFG10201	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/202/2010	AFG10202	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/199/2010	AFG10199	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/225/2010	AFG10225	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/226/2010	AFG10226	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/227/2010	AFG10227	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/201/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 328 Location: Baba Ali, Dara, Panjsher, Afghanistan Date collected: 15/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10201.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/197/2010	AFG10197	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/200/2010	AFG10200	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/202/2010	AFG10202	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/199/2010	AFG10199	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/225/2010	AFG10225	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/226/2010	AFG10226	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/227/2010	AFG10227	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/202/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 329 Location: Baba Ali, Dara, Panjsher, Afghanistan Date collected: 15/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10202.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/197/2010	AFG10197	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/200/2010	AFG10200	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/201/2010	AFG10201	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/199/2010	AFG10199	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/225/2010	AFG10225	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/226/2010	AFG10226	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/227/2010	AFG10227	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	606	0	94.84	5.16	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	573	0	89.67	10.33	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/204/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 331	
Location: Zorabad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 15/09/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10204.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/205/2010	AFG10205	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/221/2010	IRN10221	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/222/2010	IRN10222	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/223/2010	IRN10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/195/2010	AFG10195	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/100/2010	IRN10100	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/101/2010	IRN10101	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/142/2010	IRN10142	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/206/2010	IRN10206	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	591	0	92.49	7.51	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/205/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 332	
Location: Zorabad, 4th, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 15/09/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10205.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/IRN/221/2010	IRN10221	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/222/2010	IRN10222	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/223/2010	IRN10223	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/204/2010	AFG10204	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/195/2010	AFG10195	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/100/2010	IRN10100	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/101/2010	IRN10101	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/142/2010	IRN10142	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/20/2010	IRN10-20	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/206/2010	IRN10206	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	585	0	91.55	8.45	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/207/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 334 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10207.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/174/2010	AFG10174	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/178/2010	AFG10178	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/212/2010	AFG10212	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/210/2010	AFG10210	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/211/2010	AFG10211	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/213/2010	AFG10213	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/214/2010	AFG10214	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/208/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 335 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10208.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/209/2010	AFG10209	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/110/2010	AFG10110	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/62/2010	IRN10-62	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/126/2010	AFG10126	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/145/2010	AFG10145	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/59/2010	AFG10-59	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/61/2010	AFG10-61	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/65/2010	AFG10-65	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/66/2010	AFG10-66	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/67/2010	AFG10-67	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/209/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 336 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10209.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/208/2010	AFG10208	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/110/2010	AFG10110	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/62/2010	IRN10-62	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/126/2010	AFG10126	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/145/2010	AFG10145	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/59/2010	AFG10-59	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/61/2010	AFG10-61	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/65/2010	AFG10-65	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/66/2010	AFG10-66	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/67/2010	AFG10-67	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/210/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 337 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10210.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/213/2010	AFG10213	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/214/2010	AFG10214	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/174/2010	AFG10174	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/178/2010	AFG10178	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/207/2010	AFG10207	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/212/2010	AFG10212	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/211/2010	AFG10211	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/211/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 338 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10211.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/174/2010	AFG10174	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/178/2010	AFG10178	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/207/2010	AFG10207	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/212/2010	AFG10212	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/210/2010	AFG10210	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/213/2010	AFG10213	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/214/2010	AFG10214	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/212/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 339 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10212.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/174/2010	AFG10174	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/178/2010	AFG10178	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/207/2010	AFG10207	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/210/2010	AFG10210	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/211/2010	AFG10211	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/213/2010	AFG10213	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/214/2010	AFG10214	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	570	0	89.20	10.80	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/213/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 340 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10213.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/210/2010	AFG10210	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/214/2010	AFG10214	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/174/2010	AFG10174	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/178/2010	AFG10178	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/207/2010	AFG10207	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/212/2010	AFG10212	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/211/2010	AFG10211	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/214/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 341 Location: Fatehabad, Srkhroad, Nangarhar, Afghanistan Date collected: 18/09/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10214.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/210/2010	AFG10210	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/213/2010	AFG10213	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/174/2010	AFG10174	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/178/2010	AFG10178	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/207/2010	AFG10207	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/212/2010	AFG10212	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/211/2010	AFG10211	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/235/2010	AFG10235	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/244/2010	AFG10244	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/253/2010	AFG10253	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/217/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 350 Location: Qabzan, Rokha, Panjsher, Afghanistan Date collected: 09/10/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10217.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/219/2010	AFG10219	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/221/2010	AFG10221	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/100/2010	IRN10100	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/101/2010	IRN10101	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/142/2010	IRN10142	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/20/2010	IRN10-20	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/33/2010	IRN10-33	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/34/2010	IRN10-34	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/37/2010	IRN10-37	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/38/2010	IRN10-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	573	1	89.81	10.19	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/219/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 352 Location: Qabzan, Rokha, Panjsher, Afghanistan Date collected: 09/10/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10219.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/217/2010	AFG10217	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/221/2010	AFG10221	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/100/2010	IRN10100	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/101/2010	IRN10101	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/142/2010	IRN10142	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/20/2010	IRN10-20	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/33/2010	IRN10-33	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/34/2010	IRN10-34	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/37/2010	IRN10-37	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/38/2010	IRN10-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	573	1	89.81	10.19	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/220/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 353	
Location: Qabzan, Rokha, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 09/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10220.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/180/2010	AFG10180	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/181/2010	AFG10181	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/183/2010	AFG10183	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/182/2010	AFG10182	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/171/2010	AFG10171	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/196/2010	AFG10196	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/100/2010	IRN10100	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/101/2010	IRN10101	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/142/2010	IRN10142	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/15/2010	IRN10-15	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	589	0	92.18	7.82	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	568	0	88.89	11.11	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/221/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 354 Location: Qabzan, Rokha, Panjsher, Afghanistan Date collected: 09/10/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10221.SEQ Date sequence last updated: 06/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/217/2010	AFG10217	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/219/2010	AFG10219	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/100/2010	IRN10100	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/101/2010	IRN10101	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/142/2010	IRN10142	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/20/2010	IRN10-20	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/33/2010	IRN10-33	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/34/2010	IRN10-34	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/37/2010	IRN10-37	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/38/2010	IRN10-38	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	607	0	94.99	5.01	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	605	0	94.68	5.32	ME-SA	PanAsia-2 ^{TER-08}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	586	0	91.71	8.29	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	574	0	89.83	10.17	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	573	1	89.81	10.19	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/223/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 344	
Location: Kraman, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 10/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10223.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/224/2010	AFG10224	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/197/2010	AFG10197	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/200/2010	AFG10200	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/201/2010	AFG10201	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/202/2010	AFG10202	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/225/2010	AFG10225	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/226/2010	AFG10226	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/227/2010	AFG10227	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/199/2010	AFG10199	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/29/2010	IRN10-29	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/224/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 345	
Location: Kraman, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 10/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10224.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/223/2010	AFG10223	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/197/2010	AFG10197	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/200/2010	AFG10200	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/201/2010	AFG10201	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/202/2010	AFG10202	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/225/2010	AFG10225	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/226/2010	AFG10226	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/227/2010	AFG10227	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/199/2010	AFG10199	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/29/2010	IRN10-29	639	635	0	99.37	0.63	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/225/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 346	
Location: Kraman, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 10/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10225.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/226/2010	AFG10226	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/227/2010	AFG10227	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/197/2010	AFG10197	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/200/2010	AFG10200	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/201/2010	AFG10201	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/202/2010	AFG10202	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/199/2010	AFG10199	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/29/2010	IRN10-29	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Im-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/226/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 347	
Location: Kraman, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 10/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10226.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/225/2010	AFG10225	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/227/2010	AFG10227	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/197/2010	AFG10197	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/200/2010	AFG10200	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/201/2010	AFG10201	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/202/2010	AFG10202	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/199/2010	AFG10199	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/29/2010	IRN10-29	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Im-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/227/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 348	
Location: Kraman, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 10/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10227.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/225/2010	AFG10225	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/226/2010	AFG10226	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/223/2010	AFG10223	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/224/2010	AFG10224	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/197/2010	AFG10197	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/200/2010	AFG10200	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/201/2010	AFG10201	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/202/2010	AFG10202	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/199/2010	AFG10199	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/29/2010	IRN10-29	639	634	0	99.22	0.78	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	604	0	94.52	5.48	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Im-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/229/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 382	
Location: Darulaman, 7, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 12/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10229.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/IRN/100/2010	IRN10100	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/101/2010	IRN10101	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/142/2010	IRN10142	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
4	O/IRN/20/2010	IRN10-20	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
5	O/IRN/33/2010	IRN10-33	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/34/2010	IRN10-34	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/37/2010	IRN10-37	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/38/2010	IRN10-38	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/IRN/39/2010	IRN10-39	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/59/2010	IRN10-59	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	605	0	94.68	5.32	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	603	0	94.37	5.63	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
6	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	572	0	89.51	10.49	ME-SA	Ind-2001a
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/235/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 383	
Location: Dehdana, 7, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 19/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10235.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/244/2010	AFG10244	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/253/2010	AFG10253	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/112/2010	PAK10112	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/77/2010	PAK10-77	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/78/2010	PAK10-78	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/79/2010	PAK10-79	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/80/2010	PAK10-80	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/88/2010	PAK10-88	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/89/2010	PAK10-89	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/98/2010	PAK10-98	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Im-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/236/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 397	
Location: Baraki, 4, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10236.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/237/2010	AFG10237	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/238/2010	AFG10238	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/239/2010	AFG10239	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/241/2010	AFG10241	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/1/2010	PAK10-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/2/2010	PAK10-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/5/2010	PAK10-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/8/2010	PAK10-08	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/30/2010	IRN10-30	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/237/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 398	
Location: Baraki, 4, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10237.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/236/2010	AFG10236	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/238/2010	AFG10238	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/239/2010	AFG10239	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/241/2010	AFG10241	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/1/2010	PAK10-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/2/2010	PAK10-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/5/2010	PAK10-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/8/2010	PAK10-08	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/30/2010	IRN10-30	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/238/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 399	
Location: Baraki, 4, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10238.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/236/2010	AFG10236	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/237/2010	AFG10237	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/239/2010	AFG10239	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/241/2010	AFG10241	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/1/2010	PAK10-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/2/2010	PAK10-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/5/2010	PAK10-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/8/2010	PAK10-08	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/30/2010	IRN10-30	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/239/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 400	
Location: Baraki, 4, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10239.SEQ
Date received for sequencing: 08/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 25 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/236/2010	AFG10236	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/237/2010	AFG10237	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/238/2010	AFG10238	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/241/2010	AFG10241	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/1/2010	PAK10-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/2/2010	PAK10-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/5/2010	PAK10-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/8/2010	PAK10-08	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/30/2010	IRN10-30	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/240/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 401	
Location: Zorabad, 4, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10240.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/243/2010	AFG10243	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/PAK/99/2010	PAK10-99	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/100/2010	PAK10100	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/53/2010	PAK10-53	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/54/2010	PAK10-54	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/60/2010	PAK10-60	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/61/2010	PAK10-61	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/68/2010	PAK10-68	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/71/2010	PAK10-71	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/74/2010	PAK10-74	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	602	0	94.21	5.79	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	579	0	90.61	9.39	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/241/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 402	
Location: Zorabad, 4, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10241.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 06/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/236/2010	AFG10236	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/237/2010	AFG10237	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/238/2010	AFG10238	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/239/2010	AFG10239	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/242/2010	AFG10242	630	630	9	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/1/2010	PAK10-01	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/2/2010	PAK10-02	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/5/2010	PAK10-05	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/8/2010	PAK10-08	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
10	O/IRN/30/2010	IRN10-30	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/TUR/257/2008* (FMDI)	TUR08-AD	639	604	0	94.52	5.48	ME-SA	PanAsia-2 ^{TER-08}
3	O/IRN/8/2005	IRN05-08	639	603	0	94.37	5.63	ME-SA	PanAsia-2
4	O/IRN/31/2009	IRN09-31	639	602	0	94.21	5.79	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	568	0	88.89	11.11	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/242/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 403	
Location: Zorabad, 5, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10242.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 630
Material used: BTy1	No. of ambiguities: 9
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2829
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/236/2010	AFG10236	630	630	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/237/2010	AFG10237	630	630	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/238/2010	AFG10238	630	630	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/239/2010	AFG10239	630	630	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/241/2010	AFG10241	630	630	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/IRN/30/2010	IRN10-30	630	629	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/IRN/4/2010	IRN10-04	630	629	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/1/2010	PAK10-01	630	629	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/2/2010	PAK10-02	630	629	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/3/2010	PAK10-03	630	629	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	630	627	0	99.52	0.48	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	630	600	0	95.24	4.76	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	630	599	0	95.08	4.92	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	630	598	0	94.92	5.08	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/18/2010	IRN10-18	630	592	0	93.97	6.03	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	630	592	0	93.97	6.03	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	630	588	0	93.33	6.67	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	630	579	0	91.90	8.10	ME-SA	PanAsia
9	O/PAK/16/2003 (DQ165068)	PAK03-16	630	566	0	89.84	10.16	ME-SA	Pak-98
10	O/OMN/7/2001 (DQ164941)	OMN01-07	630	565	0	89.68	10.32	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/243/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 404	
Location: Zorabad, 6, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 20/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10243.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/240/2010	AFG10240	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/PAK/99/2010	PAK10-99	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/100/2010	PAK10100	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/53/2010	PAK10-53	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/54/2010	PAK10-54	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/60/2010	PAK10-60	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/61/2010	PAK10-61	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/68/2010	PAK10-68	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/71/2010	PAK10-71	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/74/2010	PAK10-74	639	633	0	99.06	0.94	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	602	0	94.21	5.79	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
6	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	579	0	90.61	9.39	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/244/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 439 Location: Qabzan, Rokha, Panjsher, Afghanistan Date collected: 25/12/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 01/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10244.SEQ Date sequence last updated: 13/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 32 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/235/2010	AFG10235	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/253/2010	AFG10253	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/112/2010	PAK10112	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/77/2010	PAK10-77	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/78/2010	PAK10-78	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/79/2010	PAK10-79	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/80/2010	PAK10-80	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/88/2010	PAK10-88	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/89/2010	PAK10-89	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/98/2010	PAK10-98	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	632	0	98.90	1.10	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	571	1	89.50	10.50	ME-SA	Im-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/245/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 389	
Location: Doghabad, 7, Kabul, Afghanistan	Topotype: ME-SA
Date collected: 21/10/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10245.SEQ
Date received for sequencing: 08/04/2011	Date sequence last updated: 13/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 25 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/246/2010	AFG10246	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/247/2010	AFG10247	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/248/2010	AFG10248	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/249/2010	AFG10249	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/250/2010	AFG10250	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/251/2010	AFG10251	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/246/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 390	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10246.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 07/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/245/2010	AFG10245	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/247/2010	AFG10247	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/248/2010	AFG10248	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/249/2010	AFG10249	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/250/2010	AFG10250	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/251/2010	AFG10251	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/247/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 391	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10247.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 07/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/245/2010	AFG10245	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/246/2010	AFG10246	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/248/2010	AFG10248	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/249/2010	AFG10249	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/250/2010	AFG10250	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/251/2010	AFG10251	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/248/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 392	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10248.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 07/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/245/2010	AFG10245	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/246/2010	AFG10246	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/247/2010	AFG10247	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/249/2010	AFG10249	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/250/2010	AFG10250	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/251/2010	AFG10251	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/249/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 393	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10249.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 07/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/245/2010	AFG10245	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/246/2010	AFG10246	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/247/2010	AFG10247	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/248/2010	AFG10248	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/250/2010	AFG10250	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/251/2010	AFG10251	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/250/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 394	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10250.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 07/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/245/2010	AFG10245	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/246/2010	AFG10246	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/247/2010	AFG10247	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/248/2010	AFG10248	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/249/2010	AFG10249	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/251/2010	AFG10251	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/251/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 395	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10251.SEQ
Date received for sequencing: 01/04/2011	Date sequence last updated: 07/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 32 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/245/2010	AFG10245	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/246/2010	AFG10246	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/247/2010	AFG10247	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/248/2010	AFG10248	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/249/2010	AFG10249	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/250/2010	AFG10250	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/192/2010b	AFG10192B	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/193/2010a	AFG10193A	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/151/2010	AFG10151	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/39/2010	AFG10-39	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	628	0	98.28	1.72	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
3	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	580	0	90.77	9.23	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	569	1	89.18	10.82	ME-SA	Irn-2001
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	569	0	89.05	10.95	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/252/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 396	
Location: Zardi, Dara, Panjsher, Afghanistan	Topotype: ME-SA
Date collected: 05/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10252.SEQ
Date received for sequencing: 08/04/2011	Date sequence last updated: 14/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 25 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/256/2010	AFG10256	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/259/2010	AFG10259	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/10/2011	IRN11-10	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/103/2010	PAK10103	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/104/2010	PAK10104	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/262/2010	AFG10262	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/263/2010	AFG10263	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/264/2010	AFG10264	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/265/2010	AFG10265	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/266/2010	AFG10266	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	599	0	93.74	6.26	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	569	0	89.05	10.95	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/253/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 417 Location: Charahi Sarsabzi, 4, Kabul, Afghanistan Date collected: 22/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10253.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/112/2010	PAK10112	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/PAK/77/2010	PAK10-77	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/78/2010	PAK10-78	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/79/2010	PAK10-79	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/80/2010	PAK10-80	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/88/2010	PAK10-88	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/89/2010	PAK10-89	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
8	O/PAK/98/2010	PAK10-98	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/102/2010	PAK10102	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/1/2011	PAK11-01	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
3	O/TUR/257/2008* (FMDI)	TUR08-AD	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{TER-08}
4	O/IRN/31/2009	IRN09-31	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{FAR-09}
5	O/TUR/264/2009* (FMDI)	TUR09-AK	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{SAN-09}
6	O/IRN/18/2010	IRN10-18	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{ANT-10}
7	O/PAK/16/2010	PAK10-16	639	592	0	92.64	7.36	ME-SA	PanAsia-2 ^{PUN-10}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	581	0	90.92	9.08	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	572	1	89.66	10.34	ME-SA	Im-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/256/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 420 Location: Charahi Sarsabzi, 4, Kabul, Afghanistan Date collected: 22/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10256.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/259/2010	AFG10259	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/10/2011	IRN11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/103/2010	PAK10103	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/104/2010	PAK10104	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/262/2010	AFG10262	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/263/2010	AFG10263	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/264/2010	AFG10264	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/265/2010	AFG10265	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/266/2010	AFG10266	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/267/2010	AFG10267	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/259/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 421 Location: Dornami, Asmayl khil, Khost, Afghanistan Date collected: 23/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10259.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/256/2010	AFG10256	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/10/2011	IRN11-10	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/PAK/103/2010	PAK10103	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/104/2010	PAK10104	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/262/2010	AFG10262	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/263/2010	AFG10263	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/264/2010	AFG10264	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/265/2010	AFG10265	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/266/2010	AFG10266	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/267/2010	AFG10267	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	631	0	98.75	1.25	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	601	0	94.05	5.95	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	601	0	94.05	5.95	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	584	0	91.39	8.61	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	572	0	89.51	10.49	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/261/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 408 Location: Khoaja Abgosh, Nahr shahi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10261.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/256/2010	AFG10256	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/259/2010	AFG10259	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/10/2011	IRN11-10	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/103/2010	PAK10103	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/104/2010	PAK10104	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/262/2010	AFG10262	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/263/2010	AFG10263	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/264/2010	AFG10264	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/265/2010	AFG10265	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/266/2010	AFG10266	639	636	0	99.53	0.47	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	629	0	98.44	1.56	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	599	0	93.74	6.26	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	599	0	93.74	6.26	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	597	0	93.43	6.57	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	595	0	93.11	6.89	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	593	0	92.80	7.20	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	582	0	91.08	8.92	ME-SA	PanAsia
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	570	1	89.34	10.66	ME-SA	Irn-2001
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	570	0	89.20	10.80	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/262/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 409 Location: Khoaja Abgosh, Nahr shahi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10262.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/263/2010	AFG10263	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/264/2010	AFG10264	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/265/2010	AFG10265	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/266/2010	AFG10266	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/267/2010	AFG10267	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/263/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 410 Location: Khoaja Abgosh, Nahr shahi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10263.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/262/2010	AFG10262	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/264/2010	AFG10264	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/265/2010	AFG10265	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/266/2010	AFG10266	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/267/2010	AFG10267	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/264/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 411 Location: Khoaja Abgosh, Nahr shahi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10264.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/262/2010	AFG10262	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/263/2010	AFG10263	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/265/2010	AFG10265	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/266/2010	AFG10266	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/267/2010	AFG10267	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/265/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 412 Location: Posta 52, Dehdadi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10265.SEQ Date sequence last updated: 20/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/262/2010	AFG10262	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/263/2010	AFG10263	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/264/2010	AFG10264	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/266/2010	AFG10266	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/267/2010	AFG10267	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/266/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 413 Location: Posta 52, Dehdadi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10266.SEQ Date sequence last updated: 14/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/262/2010	AFG10262	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/263/2010	AFG10263	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/264/2010	AFG10264	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/265/2010	AFG10265	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/267/2010	AFG10267	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: AFG/267/2010 Batch No: WRLFMD/2011/00004 Sender Ref: 414 Location: Posta 52, Dehdadi, Balkh, Afghanistan Date collected: 25/11/2010 Date received by WRLFMD: 18/01/2011 Date received for sequencing: 08/04/2011 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 03/05/2011 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 ^{ANT-10} Sequence filename: AFG10267.SEQ Date sequence last updated: 20/04/2011 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2845 Min. no. of nt for comparison: 600 Total turn-around time: 105 days Sequencing time: 25 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/262/2010	AFG10262	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/263/2010	AFG10263	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
3	O/AFG/264/2010	AFG10264	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
4	O/AFG/265/2010	AFG10265	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
5	O/AFG/266/2010	AFG10266	639	639	0	100.00	0.00	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
8	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	571	0	89.36	10.64	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 03/05/2011
WRLFMD Ref No: AFG/268/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00004	Checked by: D.P. King
Sender Ref: 415	
Location: Posta 52, Dehdadi, Balkh, Afghanistan	Topotype: ME-SA
Date collected: 25/11/2010	Genotype/strain: PanAsia-2 ^{ANT-10}
Date received by WRLFMD: 18/01/2011	Sequence filename: AFG10268.SEQ
Date received for sequencing: 08/04/2011	Date sequence last updated: 20/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2845
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 105 days
	Sequencing time: 25 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/AFG/256/2010	AFG10256	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
2	O/AFG/259/2010	AFG10259	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
3	O/IRN/10/2011	IRN11-10	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
4	O/PAK/103/2010	PAK10103	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
5	O/PAK/104/2010	PAK10104	639	638	0	99.84	0.16	ME-SA	PanAsia-2 ^{ANT-10}
6	O/AFG/262/2010	AFG10262	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
7	O/AFG/263/2010	AFG10263	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
8	O/AFG/264/2010	AFG10264	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
9	O/AFG/265/2010	AFG10265	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
10	O/AFG/266/2010	AFG10266	639	637	0	99.69	0.31	ME-SA	PanAsia-2 ^{ANT-10}
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/IRN/88/2009	IRN09-88	639	630	0	98.59	1.41	ME-SA	PanAsia-2 ^{ANT-10}
2	O/IRN/31/2009	IRN09-31	639	600	0	93.90	6.10	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	600	0	93.90	6.10	ME-SA	PanAsia-2
4	O/TUR/257/2008* (FMDI)	TUR08-AD	639	598	0	93.58	6.42	ME-SA	PanAsia-2 ^{TER-08}
5	O/IRN/18/2010	IRN10-18	639	596	0	93.27	6.73	ME-SA	PanAsia-2 ^{ANT-10}
6	O/PAK/16/2010	PAK10-16	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	594	0	92.96	7.04	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	583	0	91.24	8.76	ME-SA	PanAsia
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	571	0	89.36	10.64	ME-SA	Ind-2001b
10	O/PAK/16/2003 (DQ165068)	PAK03-16	639	570	0	89.20	10.80	ME-SA	Pak-98

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.0

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Report on FMDV O in Afghanistan in 2010

Batch: WRLFMD/2011/00004

◆ indicates viruses in this batch

Software: MEGA 5.0

Analysis

Analysis ----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

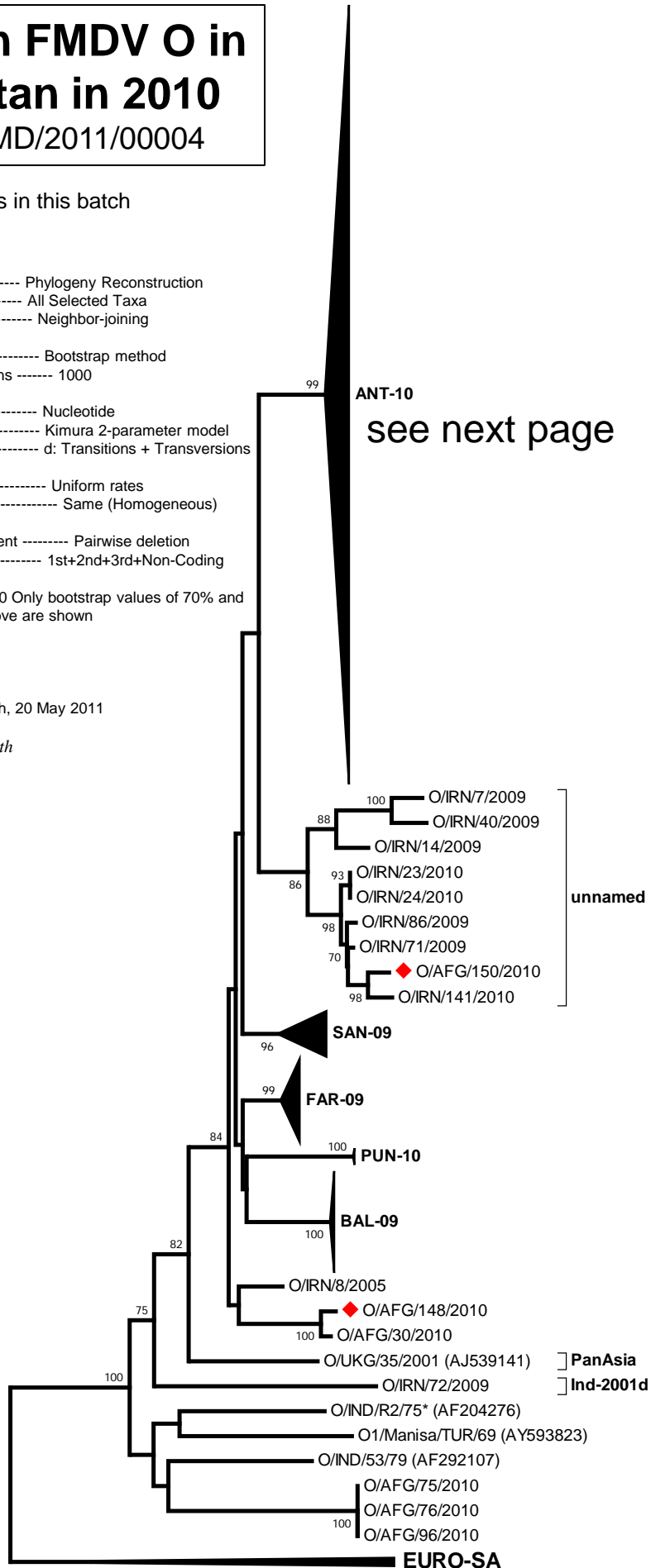
No. of Sites : 639

No Of Bootstrap Reps = 1000 Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 20 May 2011

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PanAsia-2

ME-SA

unnamed

PanAsia

Ind-2001d

0.02

Report on FMDV O in Afghanistan in 2010

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◆ indicates viruses in this batch

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

