



INSTITUTE FOR ANIMAL HEALTH

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PIRBRIGHT LABORATORY

Ash Road,

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Surrey,

GU24 0NF

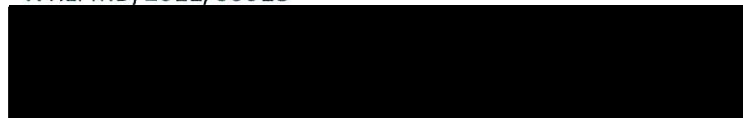
Intn Tel: 00 44 1483 232441

Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2011/00018

Sender Details:



Date Received: 1st April 2011

Country of Origin: Vietnam

Date Reported: 4th May 2011

Dear Dr. Nguyen Xuan Binh,

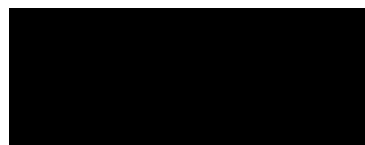
Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at:

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

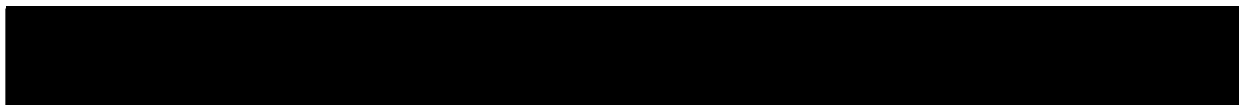
Results Approved By:



Official Stamp:



Date: 4/5/11



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)

10/10/10

Dr Michael Johnson
Head of Laboratory
IAH, Fingert

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

Genotyping Report

Report Date for this Batch: 3 May 2011

FMDV type O

Country: Vietnam

Period: 2010-2011

No. of samples: 35

BATCH: WRLFMD/2011/00018



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/14/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 10-8436 (VN-1)	
Location: Khanh Hoa, Vietnam	Topotype: ME-SA
Date collected: 11/11/2010	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT10-14.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/7/2010	VIT10-07	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/8/2010	VIT10-08	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/CAM/2/2010	CAM10-02	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/CAM/4/2010	CAM10-04	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/CAM/5/2010	CAM10-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/10/2010	VIT10-10	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/VIT/11/2010	VIT10-11	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/13/2010	VIT10-13	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/3/2010	VIT10-03	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/CAM/1/2010	CAM10-01	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	600	0	93.90	6.10	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	585	0	91.55	8.45	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	585	0	91.55	8.45	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	582	0	91.08	8.92	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/IRN/88/2009	IRN09-88	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/15/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 10-8628 (SHI)	
Location: Phu Yen, Vietnam	Topotype: ME-SA
Date collected: 18/11/2010	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT10-15.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/10/2010	VIT10-10	639	636	0	99.53	0.47	ME-SA	PanAsia
2	O/VIT/11/2010	VIT10-11	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/1/2011	VIT11-01	639	635	0	99.37	0.63	ME-SA	PanAsia
4	O/VIT/7/2010	VIT10-07	639	635	0	99.37	0.63	ME-SA	PanAsia
5	O/VIT/8/2010	VIT10-08	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/CAM/2/2010	CAM10-02	639	634	0	99.22	0.78	ME-SA	PanAsia
7	O/CAM/4/2010	CAM10-04	639	634	0	99.22	0.78	ME-SA	PanAsia
8	O/CAM/5/2010	CAM10-05	639	634	0	99.22	0.78	ME-SA	PanAsia
9	O/VIT/13/2010	VIT10-13	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/VIT/14/2010	VIT10-14	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	584	0	91.39	8.61	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{TER-08}
10	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/16/2010	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-51 (6143)	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 16/12/2010	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT10-16.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
2	O/VIT/29/2011	VIT11-29	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/31/2011	VIT11-31	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/28/2011	VIT11-28	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
7	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{TER-08}
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: 22/04/2011
WRLFMD Ref No: VIT/1/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-01	
Location: Lang Son, Vietnam	Topotype: ME-SA
Date collected: 01/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-01.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/10/2010	VIT10-10	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/11/2010	VIT10-11	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/7/2010	VIT10-07	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/8/2010	VIT10-08	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/CAM/2/2010	CAM10-02	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/CAM/4/2010	CAM10-04	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/CAM/5/2010	CAM10-05	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/13/2010	VIT10-13	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/14/2010	VIT10-14	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/3/2010	VIT10-03	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	589	0	92.18	7.82	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	584	0	91.39	8.61	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
9	O/IRN/88/2009	IRN09-88	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/2/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-02	
Location: Lang Son, Vietnam	Topotype: ME-SA
Date collected: 02/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-02.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/21/2011	VIT11-21	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/12/2011	VIT11-12	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/4/2011	VIT11-04	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/9/2011	VIT11-09	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/7/2011	VIT11-07	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/10/2011	VIT11-10	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/11/2011	VIT11-11	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	578	0	90.45	9.55	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
8	O/IRN/88/2009	IRN09-88	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/3/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-554 (01)	
Location: Ba Ria-Vung Tau, Vietnam	Topotype: ME-SA
Date collected: 05/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-03.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/32/2011	VIT11-32	639	637	0	99.69	0.31	ME-SA	PanAsia
2	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/7/2010	VIT10-07	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/8/2010	VIT10-08	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/CAM/2/2010	CAM10-02	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/CAM/4/2010	CAM10-04	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/CAM/5/2010	CAM10-05	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/10/2010	VIT10-10	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	582	0	91.08	8.92	ME-SA	Ind-2001b
6	O/BHU/3/2009	BHU09-03	639	580	0	90.77	9.23	ME-SA	Ind-2001d
7	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
8	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	577	0	90.30	9.70	ME-SA	Pak-98
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/4/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-03	
Location: Hai Duong, Vietnam	Topotype: ME-SA
Date collected: 05/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-04.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: BHK1 RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/12/2011	VIT11-12	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/9/2011	VIT11-09	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/7/2011	VIT11-07	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/2/2011	VIT11-02	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/22/2011	VIT11-22	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/26/2011	VIT11-26	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/37/2011	VIT11-37	639	637	0	99.69	0.31	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/5/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-04	
Location: Son La, Vietnam	Topotype: ME-SA
Date collected: 05/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-05.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Cattle	No. of Nt determined: 639
Material used: BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/6/2011	VIT11-06	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/VIT/12/2011	VIT11-12	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/37/2011	VIT11-37	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/4/2011	VIT11-04	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/9/2011	VIT11-09	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/13/2011	VIT11-13	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/14/2011	VIT11-14	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/17/2011	VIT11-17	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/29/2011	VIT11-29	639	637	0	99.69	0.31	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	584	0	91.39	8.61	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{TER-08}
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/6/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-05	
Location: Tuyen Quang, Vietnam	Topotype: ME-SA
Date collected: 06/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-06.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Buffalo	No. of Nt determined: 639
Material used: BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/5/2011	VIT11-05	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/VIT/12/2011	VIT11-12	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/37/2011	VIT11-37	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/4/2011	VIT11-04	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/9/2011	VIT11-09	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/13/2011	VIT11-13	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/14/2011	VIT11-14	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/17/2011	VIT11-17	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/29/2011	VIT11-29	639	637	0	99.69	0.31	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	584	0	91.39	8.61	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{TER-08}
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/7/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-06	
Location: Wang Son, Vietnam	Topotype: ME-SA
Date collected: 11/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-07.SEQ
Date received for sequencing: 13/04/2011	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/12/2011	VIT11-12	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/4/2011	VIT11-04	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/8/2011	VIT11-08	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/9/2011	VIT11-09	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/2/2011	VIT11-02	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/22/2011	VIT11-22	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/26/2011	VIT11-26	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	582	0	91.08	8.92	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	579	0	90.61	9.39	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/PAK/16/2010	PAK10-16	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/8/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-07	
Location: Lang Son, Vietnam	Topotype: ME-SA
Date collected: 11/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-08.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/7/2011	VIT11-07	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/12/2011	VIT11-12	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/4/2011	VIT11-04	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/9/2011	VIT11-09	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/22/2011	VIT11-22	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/26/2011	VIT11-26	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	582	0	91.08	8.92	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
7	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
8	O/PAK/16/2010	PAK10-16	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{PUN-10}
9	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/9/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-08	
Location: Tai Nguyen, Vietnam	Topotype: ME-SA
Date collected: 14/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-09.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/12/2011	VIT11-12	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/4/2011	VIT11-04	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/7/2011	VIT11-07	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/2/2011	VIT11-02	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/22/2011	VIT11-22	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/26/2011	VIT11-26	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/37/2011	VIT11-37	639	637	0	99.69	0.31	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/10/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-09	
Location: Hoa Binh, Vietnam	Topotype: ME-SA
Date collected: 14/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-10.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/11/2011	VIT11-11	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
3	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
4	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
5	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/16/2011	VIT11-16	639	634	0	99.22	0.78	ME-SA	PanAsia
7	O/VIT/21/2011	VIT11-21	639	634	0	99.22	0.78	ME-SA	PanAsia
8	O/VIT/5/2011	VIT11-05	639	634	0	99.22	0.78	ME-SA	PanAsia
9	O/VIT/6/2011	VIT11-06	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/VIT/7/2011	VIT11-07	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	584	0	91.39	8.61	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	576	0	90.14	9.86	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	574	0	89.83	10.17	ME-SA	Ind-2001d
8	O/IRN/88/2009	IRN09-88	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/11/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-10	
Location: Hoa Binh, Vietnam	Topotype: ME-SA
Date collected: 14/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-11.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/10/2011	VIT11-10	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
3	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
4	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
5	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/16/2011	VIT11-16	639	634	0	99.22	0.78	ME-SA	PanAsia
7	O/VIT/21/2011	VIT11-21	639	634	0	99.22	0.78	ME-SA	PanAsia
8	O/VIT/5/2011	VIT11-05	639	634	0	99.22	0.78	ME-SA	PanAsia
9	O/VIT/6/2011	VIT11-06	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/VIT/7/2011	VIT11-07	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	584	0	91.39	8.61	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	576	0	90.14	9.86	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	574	0	89.83	10.17	ME-SA	Ind-2001d
8	O/IRN/88/2009	IRN09-88	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/12/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-11	
Location: Thai Nguyen, Vietnam	Topotype: ME-SA
Date collected: 17/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-12.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/4/2011	VIT11-04	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/9/2011	VIT11-09	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/7/2011	VIT11-07	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/2/2011	VIT11-02	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/22/2011	VIT11-22	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/26/2011	VIT11-26	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/37/2011	VIT11-37	639	637	0	99.69	0.31	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/13/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-960 (254)	
Location: Dong Nai, Vietnam	Topotype: ME-SA
Date collected: 19/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-13.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/37/2011	VIT11-37	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/14/2011	VIT11-14	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/36/2011	VIT11-36	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/17/2011	VIT11-17	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	585	0	91.55	8.45	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
9	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/14/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-991 (303)	
Location: Ben Tre, Vietnam	Topotype: ME-SA
Date collected: 20/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-14.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/37/2011	VIT11-37	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/13/2011	VIT11-13	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/36/2011	VIT11-36	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/17/2011	VIT11-17	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	585	0	91.55	8.45	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
10	O/IRN/88/2009	IRN09-88	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{ANT-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/15/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-12	
Location: Ha Noi, Vietnam	Topotype: ME-SA
Date collected: 21/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-15.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	634	0	99.22	0.78	ME-SA	PanAsia
2	O/VIT/5/2011	VIT11-05	639	634	0	99.22	0.78	ME-SA	PanAsia
3	O/VIT/6/2011	VIT11-06	639	634	0	99.22	0.78	ME-SA	PanAsia
4	O/VIT/12/2011	VIT11-12	639	633	0	99.06	0.94	ME-SA	PanAsia
5	O/VIT/27/2011	VIT11-27	639	633	0	99.06	0.94	ME-SA	PanAsia
6	O/VIT/37/2011	VIT11-37	639	633	0	99.06	0.94	ME-SA	PanAsia
7	O/VIT/4/2011	VIT11-04	639	633	0	99.06	0.94	ME-SA	PanAsia
8	O/VIT/9/2011	VIT11-09	639	633	0	99.06	0.94	ME-SA	PanAsia
9	O/CAM/4/2010	CAM10-04	639	632	0	98.90	1.10	ME-SA	PanAsia
10	O/VIT/13/2011	VIT11-13	639	632	0	98.90	1.10	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	582	0	91.08	8.92	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	576	0	90.14	9.86	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	574	0	89.83	10.17	ME-SA	Ind-2001d
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{TER-08}
9	O/IRN/61/2001 (DQ164896)	IRN01-61	638	573	1	89.81	10.19	ME-SA	Irn-2001
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/16/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-13	
Location: Thai Nguyen, Vietnam	Topotype: ME-SA
Date collected: 21/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-16.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/5/2011	VIT11-05	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/6/2011	VIT11-06	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/VIT/12/2011	VIT11-12	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/37/2011	VIT11-37	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/4/2011	VIT11-04	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/9/2011	VIT11-09	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/13/2011	VIT11-13	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/14/2011	VIT11-14	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/17/2011	VIT11-17	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/29/2011	VIT11-29	639	637	0	99.69	0.31	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	584	0	91.39	8.61	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{TER-08}
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/17/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-14	
Location: Thai Nguyen, Vietnam	Topotype: ME-SA
Date collected: 24/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-17.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 20/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
2	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/37/2011	VIT11-37	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/9/2011	VIT11-09	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/13/2011	VIT11-13	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/14/2011	VIT11-14	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/29/2011	VIT11-29	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{TER-08}
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	574	1	89.97	10.03	ME-SA	Irn-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/21/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-19	
Location: Lang Son, Vietnam	Topotype: ME-SA
Date collected: 25/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-21.SEQ
Date received for sequencing: 18/04/2011	Date sequence last updated: 20/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 4 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/VIT/2/2011	VIT11-02	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/9/2011	VIT11-09	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/16/2011	VIT11-16	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/5/2011	VIT11-05	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/6/2011	VIT11-06	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/7/2011	VIT11-07	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/10/2011	VIT11-10	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/VIT/11/2011	VIT11-11	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	585	0	91.55	8.45	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	582	0	91.08	8.92	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	579	0	90.61	9.39	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	577	0	90.30	9.70	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	575	0	89.98	10.02	ME-SA	Ind-2001d
8	O/IRN/88/2009	IRN09-88	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{ANT-10}
9	O/PAK/16/2010	PAK10-16	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/22/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: NCVD-11-18	
Location: Ha Noi, Vietnam	Topotype: ME-SA
Date collected: 26/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-22.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 20/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/12/2011	VIT11-12	639	637	0	99.69	0.31	ME-SA	PanAsia
2	O/VIT/4/2011	VIT11-04	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/9/2011	VIT11-09	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/7/2011	VIT11-07	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/26/2011	VIT11-26	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/PAK/16/2010	PAK10-16	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{PUN-10}
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/23/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1210 (427)	
Location: Ba Ria-Vung Tau, Vietnam	Topotype: ME-SA
Date collected: 27/01/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-23.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/7/2010	VIT10-07	639	637	0	99.69	0.31	ME-SA	PanAsia
2	O/VIT/8/2010	VIT10-08	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/CAM/2/2010	CAM10-02	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/CAM/4/2010	CAM10-04	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/CAM/5/2010	CAM10-05	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/10/2010	VIT10-10	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/11/2010	VIT10-11	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/13/2010	VIT10-13	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/14/2010	VIT10-14	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/3/2010	VIT10-03	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	599	0	93.74	6.26	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	584	0	91.39	8.61	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/IRN/88/2009	IRN09-88	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{ANT-10}
10	O/PAK/16/2010	PAK10-16	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/25/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1526 (B2)	
Location: Long An, Vietnam	Topotype: ME-SA
Date collected: 17/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-25.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 15/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/29/2011	VIT11-29	639	636	0	99.53	0.47	ME-SA	PanAsia
2	O/VIT/31/2011	VIT11-31	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/28/2011	VIT11-28	639	635	0	99.37	0.63	ME-SA	PanAsia
4	O/VIT/16/2011	VIT11-16	639	634	0	99.22	0.78	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	634	0	99.22	0.78	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	634	0	99.22	0.78	ME-SA	PanAsia
7	O/VIT/12/2011	VIT11-12	639	633	0	99.06	0.94	ME-SA	PanAsia
8	O/VIT/16/2010	VIT10-16	639	633	0	99.06	0.94	ME-SA	PanAsia
9	O/VIT/37/2011	VIT11-37	639	633	0	99.06	0.94	ME-SA	PanAsia
10	O/VIT/4/2011	VIT11-04	639	633	0	99.06	0.94	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	594	0	92.96	7.04	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	584	0	91.39	8.61	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	579	0	90.61	9.39	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	579	0	90.61	9.39	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	576	0	90.14	9.86	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	574	0	89.83	10.17	ME-SA	Ind-2001d
8	O/PAK/16/2010	PAK10-16	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{PUN-10}
9	O/UAE/4/2008	UAE08-04	636	570	0	89.62	10.38	ME-SA	Ind-2001c
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/26/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1624 (CM 3)	
Location: Dong Nai, Vietnam	Topotype: ME-SA
Date collected: 20/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-26.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/12/2011	VIT11-12	639	637	0	99.69	0.31	ME-SA	PanAsia
2	O/VIT/4/2011	VIT11-04	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/9/2011	VIT11-09	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/7/2011	VIT11-07	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/22/2011	VIT11-22	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/34/2011	VIT11-34	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	588	0	92.02	7.98	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	578	0	90.45	9.55	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
8	O/IRN/61/2001 (DQ164896)	IRN01-61	638	575	1	90.13	9.87	ME-SA	Irn-2001
9	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c
10	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/27/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1677 (694 + 695)	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 22/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-27.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
2	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
5	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/30/2011	VIT11-30	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/13/2011	VIT11-13	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	584	0	91.39	8.61	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	578	0	90.45	9.55	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
9	O/TUR/264/2009* (FMDI)	TUR09-AK	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{SAN-09}
10	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/28/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1677 (696)	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 22/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-28.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/29/2011	VIT11-29	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/31/2011	VIT11-31	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/16/2010	VIT10-16	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/25/2011	VIT11-25	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	578	0	90.45	9.55	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	572	0	89.94	10.06	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{TER-08}
10	O/PAK/16/2010	PAK10-16	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/29/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1677 (697)	
Location: Ben Tre, Vietnam	Topotype: ME-SA
Date collected: 22/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-29.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/31/2011	VIT11-31	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/28/2011	VIT11-28	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/16/2010	VIT10-16	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/25/2011	VIT11-25	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/37/2011	VIT11-37	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	582	0	91.08	8.92	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	579	0	90.61	9.39	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{TER-08}
10	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/30/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1766	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 23/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-30.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 20/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
2	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
5	O/VIT/2/2011	VIT11-02	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/27/2011	VIT11-27	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/13/2011	VIT11-13	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	596	0	93.27	6.73	ME-SA	PanAsia
2	O/IRN/31/2009	IRN09-31	639	585	0	91.55	8.45	ME-SA	PanAsia-2 ^{FAR-09}
3	O/KUW/3/97 (DQ164904)	KUW97-03	639	584	0	91.39	8.61	ME-SA	Ind-2001a
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	578	0	90.45	9.55	ME-SA	Ind-2001b
7	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
8	O/BHU/3/2009	BHU09-03	639	576	0	90.14	9.86	ME-SA	Ind-2001d
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/31/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-1763 (MT1)	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 23/02/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-31.SEQ
Date received for sequencing: 18/04/2011	Date sequence last updated: 20/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 4 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/VIT/29/2011	VIT11-29	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/28/2011	VIT11-28	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/16/2010	VIT10-16	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/25/2011	VIT11-25	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/37/2011	VIT11-37	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	582	0	91.08	8.92	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	579	0	90.61	9.39	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{TER-08}
10	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/32/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-2246	
Location: Bin Duong, Vietnam	Topotype: ME-SA
Date collected: 10/03/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-32.SEQ
Date received for sequencing: 18/04/2011	Date sequence last updated: 20/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 4 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/VIT/3/2011	VIT11-03	639	637	0	99.69	0.31	ME-SA	PanAsia
2	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/7/2010	VIT10-07	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/8/2010	VIT10-08	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/CAM/2/2010	CAM10-02	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/CAM/4/2010	CAM10-04	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/CAM/5/2010	CAM10-05	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/10/2010	VIT10-10	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/OMN/7/2001 (DQ164941)	OMN01-07	639	584	0	91.39	8.61	ME-SA	Ind-2001b
4	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
5	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
6	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
7	O/UAE/4/2008	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
8	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
9	O/PAK/16/2003 (DQ165068)	PAK03-16	639	576	0	90.14	9.86	ME-SA	Pak-98
10	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/34/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-2490 (01)	
Location: Kon Tum, Vietnam	Topotype: ME-SA
Date collected: 21/03/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-34.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/35/2011	VIT11-35	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/26/2011	VIT11-26	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/13/2011	VIT11-13	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	575	1	90.13	9.87	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/35/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-2491 (03)	
Location: Kon Tum, Vietnam	Topotype: ME-SA
Date collected: 21/03/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-35.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/34/2011	VIT11-34	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/16/2011	VIT11-16	639	636	0	99.53	0.47	ME-SA	PanAsia
3	O/VIT/5/2011	VIT11-05	639	636	0	99.53	0.47	ME-SA	PanAsia
4	O/VIT/6/2011	VIT11-06	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/12/2011	VIT11-12	639	635	0	99.37	0.63	ME-SA	PanAsia
6	O/VIT/26/2011	VIT11-26	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/37/2011	VIT11-37	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/13/2011	VIT11-13	639	634	0	99.22	0.78	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
10	O/IRN/61/2001 (DQ164896)	IRN01-61	638	575	1	90.13	9.87	ME-SA	Iran-2001

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/36/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-2683 (FM 11-04)	
Location: Vin Long, Vietnam	Topotype: ME-SA
Date collected: 28/03/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-36.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
Species: Pig	No. of Nt determined: 639
Material used: RS1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/37/2011	VIT11-37	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/13/2011	VIT11-13	639	637	0	99.69	0.31	ME-SA	PanAsia
3	O/VIT/14/2011	VIT11-14	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/16/2011	VIT11-16	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/VIT/12/2011	VIT11-12	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/VIT/17/2011	VIT11-17	639	635	0	99.37	0.63	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	597	0	93.43	6.57	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	585	0	91.55	8.45	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	582	0	91.08	8.92	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	578	0	90.45	9.55	ME-SA	Ind-2001d
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{TER-08}
9	O/UAE/4/2008	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 22/04/2011
WRLFMD Ref No: VIT/37/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00018	Checked by: D.P. King
Sender Ref: 11-2721 (PS-01)	
Location: Quang Nam, Vietnam	Topotype: ME-SA
Date collected: 29/03/2011	Genotype/strain: PanAsia
Date received by WRLFMD: 01/04/2011	Sequence filename: VIT11-37.SEQ
Date received for sequencing: 13/04/2011	Date sequence last updated: 18/04/2011
Species: Buffalo	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: 2753
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 9 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/VIT/13/2011	VIT11-13	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/14/2011	VIT11-14	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/16/2011	VIT11-16	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/36/2011	VIT11-36	639	638	0	99.84	0.16	ME-SA	PanAsia
5	O/VIT/5/2011	VIT11-05	639	638	0	99.84	0.16	ME-SA	PanAsia
6	O/VIT/6/2011	VIT11-06	639	638	0	99.84	0.16	ME-SA	PanAsia
7	O/VIT/12/2011	VIT11-12	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/VIT/4/2011	VIT11-04	639	637	0	99.69	0.31	ME-SA	PanAsia
9	O/VIT/9/2011	VIT11-09	639	637	0	99.69	0.31	ME-SA	PanAsia
10	O/VIT/17/2011	VIT11-17	639	636	0	99.53	0.47	ME-SA	PanAsia
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/UKG/35/2001 (AJ539141)	UKG01-35	639	598	0	93.58	6.42	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	586	0	91.71	8.29	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	584	0	91.39	8.61	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	581	0	90.92	9.08	ME-SA	PanAsia-2 ^{BAL-09}
6	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
7	O/BHU/3/2009	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{TER-08}
9	O/UAE/4/2008	UAE08-04	636	574	0	90.25	9.75	ME-SA	Ind-2001c
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{SAN-09}

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV O in Vietnam in 2010-2011

Batch: WRLFMD/2011/00018

◆ indicates viruses in this batch

Software: MEGA 5.0

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, 03 May 2011

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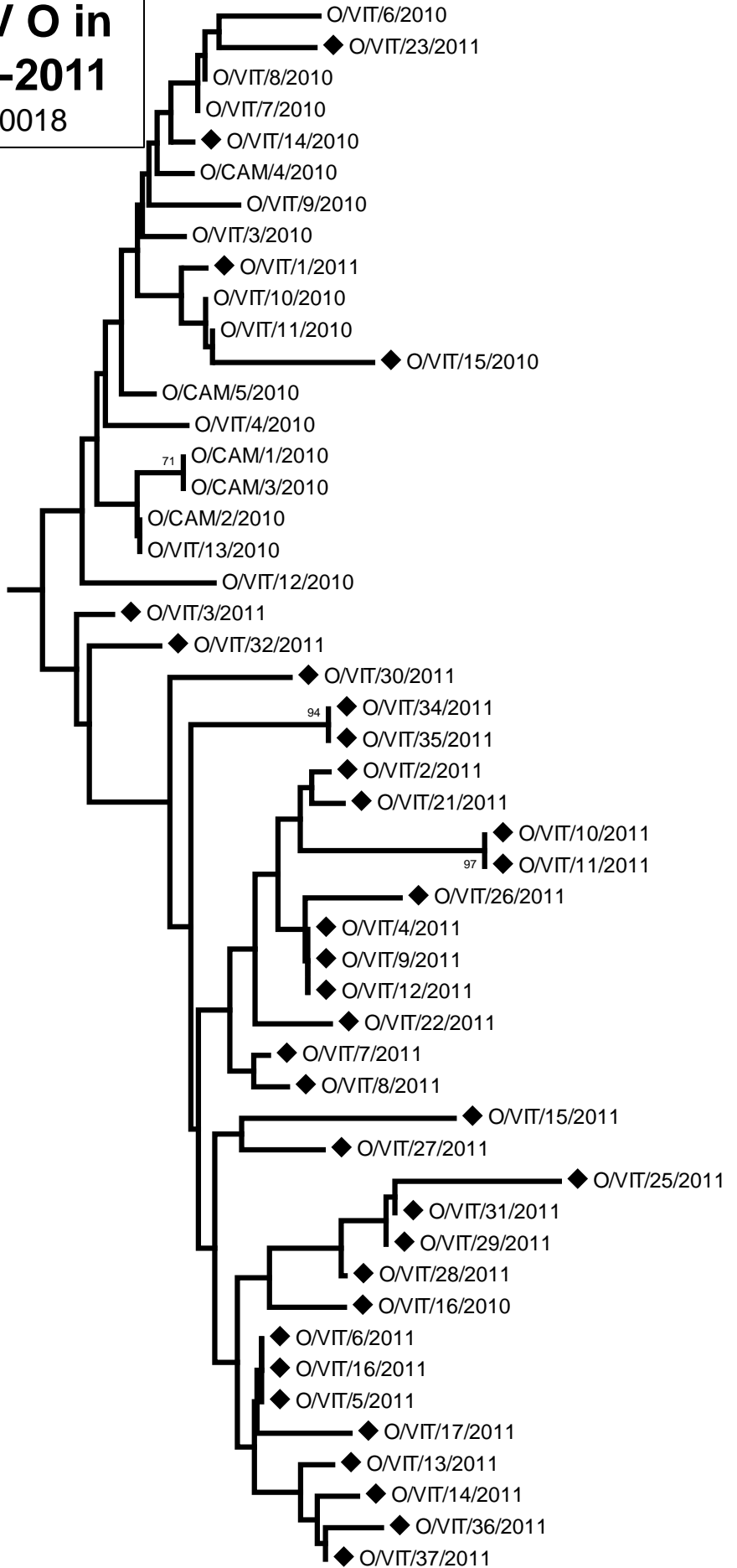
See next page →

Report on FMDV O in Vietnam in 2010-2011

Batch: WRLFMD/2011/00018

◆ indicates viruses in this batch

ME-SA/PanAsia



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