

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

Genotyping Report

Report Date for this Batch: 19 December 2014

FMDV type O

Country: Vietnam

Period: 2014

No. of samples: 12

BATCH: WRLFMD/2014/00035



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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/9/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: NCVDF14-28	
Location: Son La, Vietnam	Topotype: ME-SA
Date collected: 24/04/2014	Genotype/strain: PanAsia
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-09.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 22/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/11/2014	VIT14-11	639	638	0	99.84	0.16	ME-SA	PanAsia
2	O/VIT/12/2014	VIT14-12	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/40/2013	VIT13-40	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/VIT/13/2013	VIT13-13	639	636	0	99.53	0.47	ME-SA	PanAsia
5	O/VIT/15/2013	VIT13-15	639	636	0	99.53	0.47	ME-SA	PanAsia
6	O/VIT/46/2013	VIT13-46	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/VIT/47/2013	VIT13-47	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/VIT/51/2013	VIT13-51	639	635	0	99.37	0.63	ME-SA	PanAsia
9	O/CAM/3/2013	CAM13-03	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/VIT/11/2013	VIT13-11	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	593	0	92.80	7.20	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/8/2005	IRN05-08	639	580	0	90.77	9.23	ME-SA	PanAsia-2
4	O/BHU/3/2009 (KM921814)	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
7	O/IRN/31/2009	IRN09-31	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{FAR-09}
8	O/PAK/16/2010	PAK10-16	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{PUN-10}
9	O/IRN/18/2010	IRN10-18	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IND/53/79 (AF292107)	IND79A53	639	570	0	89.20	10.80	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/11/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: NCVDF14-39	
Location: Son La, Vietnam	Topotype: ME-SA
Date collected: 24/04/2014	Genotype/strain: PanAsia
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-11.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 23/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/12/2014	VIT14-12	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/40/2013	VIT13-40	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/9/2014	VIT14-09	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/13/2013	VIT13-13	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/15/2013	VIT13-15	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/46/2013	VIT13-46	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/47/2013	VIT13-47	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/51/2013	VIT13-51	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/CAM/3/2013	CAM13-03	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/11/2013	VIT13-11	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	594	0	92.96	7.04	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/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
4	O/BHU/3/2009 (KM921814)	BHU09-03	639	580	0	90.77	9.23	ME-SA	Ind-2001d
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
7	O/IRN/31/2009	IRN09-31	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{FAR-09}
8	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}
9	O/IRN/18/2010	IRN10-18	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IND/53/79 (AF292107)	IND79A53	639	571	0	89.36	10.64	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/12/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: NCVD F14-41	
Location: Son La, Vietnam	Topotype: ME-SA
Date collected: 24/04/2014	Genotype/strain: PanAsia
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-12.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 27/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/11/2014	VIT14-11	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/40/2013	VIT13-40	639	638	0	99.84	0.16	ME-SA	PanAsia
3	O/VIT/9/2014	VIT14-09	639	638	0	99.84	0.16	ME-SA	PanAsia
4	O/VIT/13/2013	VIT13-13	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/VIT/15/2013	VIT13-15	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/VIT/46/2013	VIT13-46	639	636	0	99.53	0.47	ME-SA	PanAsia
7	O/VIT/47/2013	VIT13-47	639	636	0	99.53	0.47	ME-SA	PanAsia
8	O/VIT/51/2013	VIT13-51	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/CAM/3/2013	CAM13-03	639	635	0	99.37	0.63	ME-SA	PanAsia
10	O/VIT/11/2013	VIT13-11	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	594	0	92.96	7.04	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/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
4	O/BHU/3/2009 (KM921814)	BHU09-03	639	580	0	90.77	9.23	ME-SA	Ind-2001d
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	580	0	90.77	9.23	ME-SA	Ind-2001b
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	576	0	90.57	9.43	ME-SA	Ind-2001c
7	O/IRN/31/2009	IRN09-31	639	577	0	90.30	9.70	ME-SA	PanAsia-2 ^{FAR-09}
8	O/PAK/16/2010	PAK10-16	639	574	0	89.83	10.17	ME-SA	PanAsia-2 ^{PUN-10}
9	O/IRN/18/2010	IRN10-18	639	573	0	89.67	10.33	ME-SA	PanAsia-2 ^{BAL-09}
10	O/IND/53/79 (AF292107)	IND79A53	639	571	0	89.36	10.64	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/13/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-5210/1	
Location: Quang Nam, Vietnam	Topotype: SEA
Date collected: 26/04/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-13.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 27/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/18/2014	VIT14-18	639	638	0	99.84	0.16	SEA	Mya-98
2	O/MAY/2/2014	MAY14-02	639	636	0	99.53	0.47	SEA	Mya-98
3	O/VIT/21/2014	VIT14-21	639	636	0	99.53	0.47	SEA	Mya-98
4	O/VIT/26/2014	VIT14-26	639	636	0	99.53	0.47	SEA	Mya-98
5	O/VIT/27/2014	VIT14-27	639	636	0	99.53	0.47	SEA	Mya-98
6	O/MAY/9/2014	MAY14-09	639	634	0	99.22	0.78	SEA	Mya-98
7	O/MAY/1/2013	MAY13-01	639	627	0	98.12	1.88	SEA	Mya-98
8	O/MAY/25/2012	MAY12-25	639	627	0	98.12	1.88	SEA	Mya-98
9	O/TAI/14/2012	TAI12-14	639	627	0	98.12	1.88	SEA	Mya-98
10	O/TAI/18/2012	TAI12-18	639	627	0	98.12	1.88	SEA	Mya-98
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/MYA/7/98 (DQ164925)	MYA98-07	639	589	0	92.18	7.82	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	569	0	89.05	10.95	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	557	0	87.17	12.83	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	552	0	86.38	13.62	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	549	0	85.92	14.08	ME-SA	unnamed
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	545	0	85.69	14.31	ME-SA	Ind-2001c
7	O/IRN/31/2009	IRN09-31	639	546	0	85.45	14.55	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/264/2009* (FMDI)	TUR09-AK	639	546	0	85.45	14.55	ME-SA	PanAsia-2 ^{SAN-09}
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	545	0	85.29	14.71	ME-SA	PanAsia
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	544	0	85.13	14.87	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/16/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-6533	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 30/04/2014	Genotype/strain: PanAsia
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-16.SEQ
Date received for sequencing: 08/12/2014	Date sequence last updated: 09/12/2014
Species: Pig	No. of Nt determined: 639
Material used: RS1 29/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 11 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/28/2014	VIT14-28	639	635	0	99.37	0.63	ME-SA	PanAsia
2	O/VIT/23/2014	VIT14-23	639	634	0	99.22	0.78	ME-SA	PanAsia
3	O/VIT/24/2014	VIT14-24	639	634	0	99.22	0.78	ME-SA	PanAsia
4	O/VIT/28/2013	VIT13-28	639	632	0	98.90	1.10	ME-SA	PanAsia
5	O/VIT/22/2013	VIT13-22	639	631	0	98.75	1.25	ME-SA	PanAsia
6	O/VIT/23/2013	VIT13-23	639	631	0	98.75	1.25	ME-SA	PanAsia
7	O/VIT/24/2013	VIT13-24	639	631	0	98.75	1.25	ME-SA	PanAsia
8	O/VIT/27/2013	VIT13-27	639	631	0	98.75	1.25	ME-SA	PanAsia
9	O/VIT/30/2013	VIT13-30	639	631	0	98.75	1.25	ME-SA	PanAsia
10	O/VIT/31/2013	VIT13-31	639	631	0	98.75	1.25	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	589	0	92.18	7.82	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	577	0	90.30	9.70	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	576	0	90.14	9.86	ME-SA	PanAsia-2 ^{FAR-09}
4	O/IRN/8/2005	IRN05-08	639	576	0	90.14	9.86	ME-SA	PanAsia-2
5	O/IRN/18/2010	IRN10-18	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{BAL-09}
6	O/PAK/16/2010	PAK10-16	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{PUN-10}
7	O/TUR/257/2008* (FMDI)	TUR08-AD	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{TER-08}
8	O/TUR/264/2009* (FMDI)	TUR09-AK	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{SAN-09}
9	O/IRN/88/2009	IRN09-88	639	568	0	88.89	11.11	ME-SA	PanAsia-2 ^{ANT-10}
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: 19/12/2014
WRLFMD Ref No: VIT/18/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-7879/M1	
Location: Gia Lai, Vietnam	Topotype: SEA
Date collected: 19/05/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-18.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 28/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/13/2014	VIT14-13	639	638	0	99.84	0.16	SEA	Mya-98
2	O/MAY/2/2014	MAY14-02	639	637	0	99.69	0.31	SEA	Mya-98
3	O/VIT/21/2014	VIT14-21	639	637	0	99.69	0.31	SEA	Mya-98
4	O/VIT/26/2014	VIT14-26	639	637	0	99.69	0.31	SEA	Mya-98
5	O/VIT/27/2014	VIT14-27	639	637	0	99.69	0.31	SEA	Mya-98
6	O/MAY/9/2014	MAY14-09	639	635	0	99.37	0.63	SEA	Mya-98
7	O/MAY/1/2013	MAY13-01	639	628	0	98.28	1.72	SEA	Mya-98
8	O/MAY/25/2012	MAY12-25	639	628	0	98.28	1.72	SEA	Mya-98
9	O/TAI/14/2012	TAI12-14	639	628	0	98.28	1.72	SEA	Mya-98
10	O/TAI/18/2012	TAI12-18	639	628	0	98.28	1.72	SEA	Mya-98
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/MYA/7/98 (DQ164925)	MYA98-07	639	590	0	92.33	7.67	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	570	0	89.20	10.80	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	558	0	87.32	12.68	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	553	0	86.54	13.46	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	550	0	86.07	13.93	ME-SA	unnamed
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	546	0	85.85	14.15	ME-SA	Ind-2001c
7	O/IRN/31/2009	IRN09-31	639	547	0	85.60	14.40	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/264/2009* (FMDI)	TUR09-AK	639	547	0	85.60	14.40	ME-SA	PanAsia-2 ^{SAN-09}
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	546	0	85.45	14.55	ME-SA	PanAsia
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	545	0	85.29	14.71	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/21/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-9555	
Location: Quang Nam, Vietnam	Topotype: SEA
Date collected: 20/06/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-21.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 28/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/26/2014	VIT14-26	639	639	0	100.00	0.00	SEA	Mya-98
2	O/VIT/27/2014	VIT14-27	639	639	0	100.00	0.00	SEA	Mya-98
3	O/MAY/2/2014	MAY14-02	639	637	0	99.69	0.31	SEA	Mya-98
4	O/VIT/18/2014	VIT14-18	639	637	0	99.69	0.31	SEA	Mya-98
5	O/VIT/13/2014	VIT14-13	639	636	0	99.53	0.47	SEA	Mya-98
6	O/MAY/9/2014	MAY14-09	639	635	0	99.37	0.63	SEA	Mya-98
7	O/MAY/1/2013	MAY13-01	639	628	0	98.28	1.72	SEA	Mya-98
8	O/MAY/25/2012	MAY12-25	639	628	0	98.28	1.72	SEA	Mya-98
9	O/TAI/14/2012	TAI12-14	639	628	0	98.28	1.72	SEA	Mya-98
10	O/TAI/18/2012	TAI12-18	639	628	0	98.28	1.72	SEA	Mya-98
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/MYA/7/98 (DQ164925)	MYA98-07	639	592	0	92.64	7.36	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	572	0	89.51	10.49	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	558	0	87.32	12.68	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	555	0	86.85	13.15	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	550	0	86.07	13.93	ME-SA	unnamed
6	O/IRN/31/2009	IRN09-31	639	549	0	85.92	14.08	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	549	0	85.92	14.08	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	546	0	85.85	14.15	ME-SA	Ind-2001c
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	548	0	85.76	14.24	ME-SA	PanAsia
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	547	0	85.60	14.40	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/23/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-10894	
Location: Long An, Vietnam	Topotype: ME-SA
Date collected: 10/07/2014	Genotype/strain: PanAsia
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-23.SEQ
Date received for sequencing: 08/12/2014	Date sequence last updated: 09/12/2014
Species: Pig	No. of Nt determined: 639
Material used: RS1 29/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 11 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/24/2014	VIT14-24	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/16/2014	VIT14-16	639	634	0	99.22	0.78	ME-SA	PanAsia
3	O/VIT/28/2014	VIT14-28	639	632	0	98.90	1.10	ME-SA	PanAsia
4	O/VIT/28/2013	VIT13-28	639	629	0	98.44	1.56	ME-SA	PanAsia
5	O/VIT/22/2013	VIT13-22	639	628	0	98.28	1.72	ME-SA	PanAsia
6	O/VIT/23/2013	VIT13-23	639	628	0	98.28	1.72	ME-SA	PanAsia
7	O/VIT/24/2013	VIT13-24	639	628	0	98.28	1.72	ME-SA	PanAsia
8	O/VIT/27/2013	VIT13-27	639	628	0	98.28	1.72	ME-SA	PanAsia
9	O/VIT/30/2013	VIT13-30	639	628	0	98.28	1.72	ME-SA	PanAsia
10	O/VIT/31/2013	VIT13-31	639	628	0	98.28	1.72	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	587	0	91.86	8.14	ME-SA	PanAsia
2	O/IRN/31/2009	IRN09-31	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	574	0	89.83	10.17	ME-SA	PanAsia-2
4	O/KUW/3/97 (DQ164904)	KUW97-03	639	574	0	89.83	10.17	ME-SA	Ind-2001a
5	O/IRN/18/2010	IRN10-18	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{BAL-09}
6	O/PAK/16/2010	PAK10-16	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/88/2009	IRN09-88	639	567	0	88.73	11.27	ME-SA	PanAsia-2 ^{ANT-10}
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	566	0	88.58	11.42	ME-SA	PanAsia-2 ^{TER-08}
9	O/TUR/264/2009* (FMDI)	TUR09-AK	639	566	0	88.58	11.42	ME-SA	PanAsia-2 ^{SAN-09}
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	565	0	88.42	11.58	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: VIT/24/2014 Batch No: WRLFMD/2014/00035 Sender Ref: 14-RAHO6_F6 Location: Long An, Vietnam Date collected: 10/07/2014 Date received by WRLFMD: 28/10/2014 Date received for sequencing: 08/12/2014 Species: Pig Material used: RS1 29/11/2014 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 19/12/2014 Reported by: N.J. Knowles Checked by: J. Wadsworth Topotype: ME-SA Genotype/strain: PanAsia Sequence filename: VIT14-24.SEQ Date sequence last updated: 09/12/2014 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4104 Min. no. of nt for comparison: 600 Total turn-around time: 52 days Sequencing time: 11 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/23/2014	VIT14-23	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/VIT/16/2014	VIT14-16	639	634	0	99.22	0.78	ME-SA	PanAsia
3	O/VIT/28/2014	VIT14-28	639	632	0	98.90	1.10	ME-SA	PanAsia
4	O/VIT/28/2013	VIT13-28	639	629	0	98.44	1.56	ME-SA	PanAsia
5	O/VIT/22/2013	VIT13-22	639	628	0	98.28	1.72	ME-SA	PanAsia
6	O/VIT/23/2013	VIT13-23	639	628	0	98.28	1.72	ME-SA	PanAsia
7	O/VIT/24/2013	VIT13-24	639	628	0	98.28	1.72	ME-SA	PanAsia
8	O/VIT/27/2013	VIT13-27	639	628	0	98.28	1.72	ME-SA	PanAsia
9	O/VIT/30/2013	VIT13-30	639	628	0	98.28	1.72	ME-SA	PanAsia
10	O/VIT/31/2013	VIT13-31	639	628	0	98.28	1.72	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	587	0	91.86	8.14	ME-SA	PanAsia
2	O/IRN/31/2009	IRN09-31	639	575	0	89.98	10.02	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	574	0	89.83	10.17	ME-SA	PanAsia-2
4	O/KUW/3/97 (DQ164904)	KUW97-03	639	574	0	89.83	10.17	ME-SA	Ind-2001a
5	O/IRN/18/2010	IRN10-18	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{BAL-09}
6	O/PAK/16/2010	PAK10-16	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{PUN-10}
7	O/IRN/88/2009	IRN09-88	639	567	0	88.73	11.27	ME-SA	PanAsia-2 ^{ANT-10}
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	566	0	88.58	11.42	ME-SA	PanAsia-2 ^{TER-08}
9	O/TUR/264/2009* (FMDI)	TUR09-AK	639	566	0	88.58	11.42	ME-SA	PanAsia-2 ^{SAN-09}
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	565	0	88.42	11.58	ME-SA	Ind-2001b

nt, nucleotides

* , not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/26/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-11384	
Location: Kon Tum, Vietnam	Topotype: SEA
Date collected: 17/07/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-26.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 27/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/21/2014	VIT14-21	639	639	0	100.00	0.00	SEA	Mya-98
2	O/VIT/27/2014	VIT14-27	639	639	0	100.00	0.00	SEA	Mya-98
3	O/MAY/2/2014	MAY14-02	639	637	0	99.69	0.31	SEA	Mya-98
4	O/VIT/18/2014	VIT14-18	639	637	0	99.69	0.31	SEA	Mya-98
5	O/VIT/13/2014	VIT14-13	639	636	0	99.53	0.47	SEA	Mya-98
6	O/MAY/9/2014	MAY14-09	639	635	0	99.37	0.63	SEA	Mya-98
7	O/MAY/1/2013	MAY13-01	639	628	0	98.28	1.72	SEA	Mya-98
8	O/MAY/25/2012	MAY12-25	639	628	0	98.28	1.72	SEA	Mya-98
9	O/TAI/14/2012	TAI12-14	639	628	0	98.28	1.72	SEA	Mya-98
10	O/TAI/18/2012	TAI12-18	639	628	0	98.28	1.72	SEA	Mya-98
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/MYA/7/98 (DQ164925)	MYA98-07	639	592	0	92.64	7.36	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	572	0	89.51	10.49	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	558	0	87.32	12.68	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	555	0	86.85	13.15	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	550	0	86.07	13.93	ME-SA	unnamed
6	O/IRN/31/2009	IRN09-31	639	549	0	85.92	14.08	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	549	0	85.92	14.08	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	546	0	85.85	14.15	ME-SA	Ind-2001c
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	548	0	85.76	14.24	ME-SA	PanAsia
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	547	0	85.60	14.40	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/27/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-RAHO6_F7	
Location: Kon Tum, Vietnam	Topotype: SEA
Date collected: 17/07/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-27.SEQ
Date received for sequencing: 01/12/2014	Date sequence last updated: 03/12/2014
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 27/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 18 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/21/2014	VIT14-21	639	639	0	100.00	0.00	SEA	Mya-98
2	O/VIT/26/2014	VIT14-26	639	639	0	100.00	0.00	SEA	Mya-98
3	O/MAY/2/2014	MAY14-02	639	637	0	99.69	0.31	SEA	Mya-98
4	O/VIT/18/2014	VIT14-18	639	637	0	99.69	0.31	SEA	Mya-98
5	O/VIT/13/2014	VIT14-13	639	636	0	99.53	0.47	SEA	Mya-98
6	O/MAY/9/2014	MAY14-09	639	635	0	99.37	0.63	SEA	Mya-98
7	O/MAY/1/2013	MAY13-01	639	628	0	98.28	1.72	SEA	Mya-98
8	O/MAY/25/2012	MAY12-25	639	628	0	98.28	1.72	SEA	Mya-98
9	O/TAI/14/2012	TAI12-14	639	628	0	98.28	1.72	SEA	Mya-98
10	O/TAI/18/2012	TAI12-18	639	628	0	98.28	1.72	SEA	Mya-98
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/MYA/7/98 (DQ164925)	MYA98-07	639	592	0	92.64	7.36	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	572	0	89.51	10.49	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	558	0	87.32	12.68	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	555	0	86.85	13.15	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	550	0	86.07	13.93	ME-SA	unnamed
6	O/IRN/31/2009	IRN09-31	639	549	0	85.92	14.08	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	549	0	85.92	14.08	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	546	0	85.85	14.15	ME-SA	Ind-2001c
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	548	0	85.76	14.24	ME-SA	PanAsia
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	547	0	85.60	14.40	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 19/12/2014
WRLFMD Ref No: VIT/28/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2014/00035	Checked by: J. Wadsworth
Sender Ref: 14-11859	
Location: Tien Giang, Vietnam	Topotype: ME-SA
Date collected: 24/07/2014	Genotype/strain: PanAsia
Date received by WRLFMD: 28/10/2014	Sequence filename: VIT14-28.SEQ
Date received for sequencing: 08/12/2014	Date sequence last updated: 09/12/2014
Species: Pig	No. of Nt determined: 639
Material used: RS1 29/11/2014	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4104
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 52 days
	Sequencing time: 11 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/16/2014	VIT14-16	639	635	0	99.37	0.63	ME-SA	PanAsia
2	O/VIT/23/2014	VIT14-23	639	632	0	98.90	1.10	ME-SA	PanAsia
3	O/VIT/24/2014	VIT14-24	639	632	0	98.90	1.10	ME-SA	PanAsia
4	O/VIT/28/2013	VIT13-28	639	630	0	98.59	1.41	ME-SA	PanAsia
5	O/VIT/22/2013	VIT13-22	639	629	0	98.44	1.56	ME-SA	PanAsia
6	O/VIT/23/2013	VIT13-23	639	629	0	98.44	1.56	ME-SA	PanAsia
7	O/VIT/24/2013	VIT13-24	639	629	0	98.44	1.56	ME-SA	PanAsia
8	O/VIT/27/2013	VIT13-27	639	629	0	98.44	1.56	ME-SA	PanAsia
9	O/VIT/30/2013	VIT13-30	639	629	0	98.44	1.56	ME-SA	PanAsia
10	O/VIT/31/2013	VIT13-31	639	629	0	98.44	1.56	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	589	0	92.18	7.82	ME-SA	PanAsia
2	O/IRN/31/2009	IRN09-31	639	578	0	90.45	9.55	ME-SA	PanAsia-2 ^{FAR-09}
3	O/IRN/8/2005	IRN05-08	639	576	0	90.14	9.86	ME-SA	PanAsia-2
4	O/KUW/3/97 (DQ164904)	KUW97-03	639	576	0	90.14	9.86	ME-SA	Ind-2001a
5	O/IRN/18/2010	IRN10-18	639	572	0	89.51	10.49	ME-SA	PanAsia-2 ^{BAL-09}
6	O/IRN/88/2009	IRN09-88	639	570	0	89.20	10.80	ME-SA	PanAsia-2 ^{ANT-10}
7	O/OMN/7/2001 (DQ164941)	OMN01-07	639	569	0	89.05	10.95	ME-SA	Ind-2001b
8	O/TUR/257/2008* (FMDI)	TUR08-AD	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{TER-08}
9	O/TUR/264/2009* (FMDI)	TUR09-AK	639	569	0	89.05	10.95	ME-SA	PanAsia-2 ^{SAN-09}
10	O/BHU/3/2009 (KM921814)	BHU09-03	639	567	0	88.73	11.27	ME-SA	Ind-2001d

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.3

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Report on FMDV O in Vietnam in 2014

Batch: WRLFMD/2014/00035

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

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

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

Rates and Patterns

Rates among Sites ----- Uniform rates

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

Data Subset to Use

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

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

No. of Sites : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

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N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
19 December 2014

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