

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

Genotyping Report

Report Date for this Batch: 9 September 2015

FMDV type O

Country: Thailand

Period: 2014-2015

No. of samples: 8

BATCH: WRLFMD/2015/00016



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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: 09/09/2015
WRLFMD Ref No: TAI/10/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00016	Checked by: K. Bachanek-Bankowska
Sender Ref: 49-1/14 R1B1	
Location: Lai Nan, Wiang Sa, Nan, Thailand	Topotype: SEA
Date collected: 10/03/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 12/08/2015	Sequence filename: TAI14-10.SEQ
Date received for sequencing: 28/08/2015	Date sequence last updated: 09/09/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 20/08/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4156
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 28 days
	Sequencing time: 12 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/MAY/2/2014	MAY14-02	639	637	0	99.69	0.31	SEA	Mya-98
2	O/VIT/18/2014	VIT14-18	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/VIT/13/2014	VIT14-13	639	636	0	99.53	0.47	SEA	Mya-98
7	O/MAY/9/2014	MAY14-09	639	635	0	99.37	0.63	SEA	Mya-98
8	O/TAI/13/2014	TAI14-13	639	635	0	99.37	0.63	SEA	Mya-98
9	O/TAI/7/2015	TAI15-07	639	635	0	99.37	0.63	SEA	Mya-98
10	O/TAI/11/2014	TAI14-11	639	634	0	99.22	0.78	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	556	0	87.01	12.99	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 WRLFMD Ref No: TAI/11/2014 Batch No: WRLFMD/2015/00016 Sender Ref: 69-1/14 R1B2 Location: San Don Kaeo, Mae Tha, Lampang, Thailand Date collected: 30/04/2014 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 28/08/2015 Species: Cattle Material used: BTy1 20/08/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/09/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI14-11.SEQ Date sequence last updated: 09/09/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4156 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 12 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/MAY/9/2014	MAY14-09	639	636	0	99.53	0.47	SEA	Mya-98
2	O/TAI/19/2014	TAI14-19	639	636	0	99.53	0.47	SEA	Mya-98
3	O/TAI/20/2014	TAI14-20	639	635	0	99.37	0.63	SEA	Mya-98
4	O/MAY/2/2014	MAY14-02	639	634	0	99.22	0.78	SEA	Mya-98
5	O/TAI/10/2014	TAI14-10	639	634	0	99.22	0.78	SEA	Mya-98
6	O/TAI/7/2015	TAI15-07	639	634	0	99.22	0.78	SEA	Mya-98
7	O/VIT/18/2014	VIT14-18	639	634	0	99.22	0.78	SEA	Mya-98
8	O/VIT/21/2014	VIT14-21	639	634	0	99.22	0.78	SEA	Mya-98
9	O/VIT/26/2014	VIT14-26	639	634	0	99.22	0.78	SEA	Mya-98
10	O/VIT/27/2014	VIT14-27	639	634	0	99.22	0.78	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	587	0	91.86	8.14	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	567	0	88.73	11.27	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	553	0	86.54	13.46	ME-SA	unnamed
4	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	551	0	86.23	13.77	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	550	0	86.07	13.93	SEA	Cam-94
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	545	0	85.69	14.31	ME-SA	Ind-2001c
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	546	0	85.45	14.55	ME-SA	PanAsia-2 ^{SAN-09}
8	O/IRN/31/2009	IRN09-31	639	544	0	85.13	14.87	ME-SA	PanAsia-2 ^{FAR-09}
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	544	0	85.13	14.87	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	543	0	84.98	15.02	ME-SA	Ind-2001a

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Report date: 09/09/2015
WRLFMD Ref No: TAI/13/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00016	Checked by: K. Bachanek-Bankowska
Sender Ref: 84/14 R1B3	
Location: Ban Yang, Mueang Nakhon Pathom, Nakhon Pathom, Thailand	Topotype: SEA
Date collected: 22/05/2014	Genotype/strain: Mya-98
Date received by WRLFMD: 12/08/2015	Sequence filename: TAI14-13.SEQ
Date received for sequencing: 28/08/2015	Date sequence last updated: 09/09/2015
Species: Cattle	No. of Nt determined: 639
Material used: BTy1 20/08/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Total no. of comparisons: 4156
	Min. no. of nt for comparison: 600
	Total turn-around time: 28 days
	Sequencing time: 12 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/MAY/2/2014	MAY14-02	639	635	0	99.37	0.63	SEA	Mya-98
2	O/TAI/10/2014	TAI14-10	639	635	0	99.37	0.63	SEA	Mya-98
3	O/VIT/18/2014	VIT14-18	639	635	0	99.37	0.63	SEA	Mya-98
4	O/VIT/21/2014	VIT14-21	639	635	0	99.37	0.63	SEA	Mya-98
5	O/VIT/26/2014	VIT14-26	639	635	0	99.37	0.63	SEA	Mya-98
6	O/VIT/27/2014	VIT14-27	639	635	0	99.37	0.63	SEA	Mya-98
7	O/VIT/13/2014	VIT14-13	639	634	0	99.22	0.78	SEA	Mya-98
8	O/MAY/9/2014	MAY14-09	639	633	0	99.06	0.94	SEA	Mya-98
9	O/TAI/7/2015	TAI15-07	639	633	0	99.06	0.94	SEA	Mya-98
10	O/TAI/11/2014	TAI14-11	639	632	0	98.90	1.10	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	557	0	87.17	12.83	ME-SA	unnamed
4	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	553	0	86.54	13.46	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	552	0	86.38	13.62	SEA	Cam-94
6	O/IRN/31/2009	IRN09-31	639	551	0	86.23	13.77	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	551	0	86.23	13.77	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	550	0	86.07	13.93	ME-SA	PanAsia
9	O/UAE/4/2008 (KM921876)	UAE08-04	636	547	0	86.01	13.99	ME-SA	Ind-2001c
10	O/OMN/7/2001 (DQ164941)	OMN01-07	639	549	0	85.92	14.08	ME-SA	Ind-2001b

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TAI/19/2014 Batch No: WRLFMD/2015/00016 Sender Ref: 123-1/14 R2B3 Location: Khik Khain, Mueang Narathiwat, Narathiwat, Thailand Date collected: 04/08/2014 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 28/08/2015 Species: Cattle Material used: BTy1 20/08/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/09/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI14-19.SEQ Date sequence last updated: 09/09/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4156 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 12 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/TAI/11/2014	TAI14-11	639	636	0	99.53	0.47	SEA	Mya-98
2	O/MAY/9/2014	MAY14-09	639	635	0	99.37	0.63	SEA	Mya-98
3	O/TAI/20/2014	TAI14-20	639	634	0	99.22	0.78	SEA	Mya-98
4	O/MAY/2/2014	MAY14-02	639	633	0	99.06	0.94	SEA	Mya-98
5	O/TAI/10/2014	TAI14-10	639	633	0	99.06	0.94	SEA	Mya-98
6	O/VIT/18/2014	VIT14-18	639	633	0	99.06	0.94	SEA	Mya-98
7	O/VIT/21/2014	VIT14-21	639	633	0	99.06	0.94	SEA	Mya-98
8	O/VIT/26/2014	VIT14-26	639	633	0	99.06	0.94	SEA	Mya-98
9	O/VIT/27/2014	VIT14-27	639	633	0	99.06	0.94	SEA	Mya-98
10	O/VIT/13/2014	VIT14-13	639	632	0	98.90	1.10	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	586	0	91.71	8.29	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	566	0	88.58	11.42	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	554	0	86.70	13.30	ME-SA	unnamed
4	O/UAE/4/2008 (KM921876)	UAE08-04	636	548	0	86.16	13.84	ME-SA	Ind-2001c
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	550	0	86.07	13.93	ME-SA	unnamed
6	O/CAM/3/98 (AJ294910)	CAM98-03	639	549	0	85.92	14.08	SEA	Cam-94
7	O/OMN/7/2001 (DQ164941)	OMN01-07	639	547	0	85.60	14.40	ME-SA	Ind-2001b
8	O/TUR/264/2009* (FMDI)	TUR09-AK	639	547	0	85.60	14.40	ME-SA	PanAsia-2 ^{SAN-09}
9	O/KUW/3/97 (DQ164904)	KUW97-03	639	546	0	85.45	14.55	ME-SA	Ind-2001a
10	O/IRN/31/2009	IRN09-31	639	545	0	85.29	14.71	ME-SA	PanAsia-2 ^{FAR-09}

nt, nucleotides

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Serotype: O WRLFMD Ref No: TAI/20/2014 Batch No: WRLFMD/2015/00016 Sender Ref: 125/14 R3B3 Location: Ao Noi, Mueang Prachuap Khiri Khan, Prachuap Khiri Khan, Thailand Date collected: 14/08/2014 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 28/08/2015 Species: Cattle Material used: BTy1 20/08/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/09/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI14-20.SEQ Date sequence last updated: 09/09/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4156 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 12 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/MAY/9/2014	MAY14-09	639	636	0	99.53	0.47	SEA	Mya-98
2	O/TAI/11/2014	TAI14-11	639	635	0	99.37	0.63	SEA	Mya-98
3	O/MAY/2/2014	MAY14-02	639	634	0	99.22	0.78	SEA	Mya-98
4	O/TAI/10/2014	TAI14-10	639	634	0	99.22	0.78	SEA	Mya-98
5	O/TAI/19/2014	TAI14-19	639	634	0	99.22	0.78	SEA	Mya-98
6	O/VIT/18/2014	VIT14-18	639	634	0	99.22	0.78	SEA	Mya-98
7	O/VIT/21/2014	VIT14-21	639	634	0	99.22	0.78	SEA	Mya-98
8	O/VIT/26/2014	VIT14-26	639	634	0	99.22	0.78	SEA	Mya-98
9	O/VIT/27/2014	VIT14-27	639	634	0	99.22	0.78	SEA	Mya-98
10	O/VIT/13/2014	VIT14-13	639	633	0	99.06	0.94	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	587	0	91.86	8.14	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	567	0	88.73	11.27	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	553	0	86.54	13.46	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	550	0	86.07	13.93	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/TUR/264/2009* (FMDI)	TUR09-AK	639	546	0	85.45	14.55	ME-SA	PanAsia-2 ^{SAN-09}
8	O/IRN/31/2009	IRN09-31	639	544	0	85.13	14.87	ME-SA	PanAsia-2 ^{FAR-09}
9	O/OMN/7/2001 (DQ164941)	OMN01-07	639	544	0	85.13	14.87	ME-SA	Ind-2001b
10	O/KUW/3/97 (DQ164904)	KUW97-03	639	543	0	84.98	15.02	ME-SA	Ind-2001a

nt, nucleotides

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Serotype: O WRLFMD Ref No: TAI/6/2015 Batch No: WRLFMD/2015/00016 Sender Ref: 16-2/15 R3 Location: Muak Lek, Muak Lek, Saraburi, Thailand Date collected: 02/02/2015 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 28/08/2015 Species: Cattle Material used: BTy1 20/08/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/09/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI15-06.SEQ Date sequence last updated: 09/09/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4156 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 12 days
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Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MAY/2/2014	MAY14-02	639	631	0	98.75	1.25	SEA	Mya-98
2	O/TAI/10/2014	TAI14-10	639	631	0	98.75	1.25	SEA	Mya-98
3	O/VIT/18/2014	VIT14-18	639	631	0	98.75	1.25	SEA	Mya-98
4	O/VIT/21/2014	VIT14-21	639	631	0	98.75	1.25	SEA	Mya-98
5	O/VIT/26/2014	VIT14-26	639	631	0	98.75	1.25	SEA	Mya-98
6	O/VIT/27/2014	VIT14-27	639	631	0	98.75	1.25	SEA	Mya-98
7	O/VIT/13/2014	VIT14-13	639	630	0	98.59	1.41	SEA	Mya-98
8	O/MAY/9/2014	MAY14-09	639	629	0	98.44	1.56	SEA	Mya-98
9	O/TAI/13/2014	TAI14-13	639	629	0	98.44	1.56	SEA	Mya-98
10	O/TAI/7/2015	TAI15-07	639	629	0	98.44	1.56	SEA	Mya-98
Most Closely Related Reference Viruses									
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1	O/MYA/7/98 (DQ164925)	MYA98-07	639	585	0	91.55	8.45	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	567	0	88.73	11.27	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	553	0	86.54	13.46	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	550	0	86.07	13.93	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	547	0	85.60	14.40	ME-SA	unnamed
6	O/UAE/4/2008 (KM921876)	UAE08-04	636	542	0	85.22	14.78	ME-SA	Ind-2001c
7	O/IRN/31/2009	IRN09-31	639	544	0	85.13	14.87	ME-SA	PanAsia-2 ^{FAR-09}
8	O/TUR/264/2009* (FMDI)	TUR09-AK	639	544	0	85.13	14.87	ME-SA	PanAsia-2 ^{SAN-09}
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	543	0	84.98	15.02	ME-SA	PanAsia
10	O/IND/53/79 (AF292107)	IND79A53	639	541	0	84.66	15.34	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: TAI/7/2015 Batch No: WRLFMD/2015/00016 Sender Ref: 22-2/15 R2B2 Location: Tha Pla Duck, Mae Tha, Lamphun, Thailand Date collected: 17/02/2015 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 28/08/2015 Species: Cattle Material used: BTy1 20/08/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/09/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI15-07.SEQ Date sequence last updated: 09/09/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4156 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 12 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/MAY/2/2014	MAY14-02	639	635	0	99.37	0.63	SEA	Mya-98
2	O/TAI/10/2014	TAI14-10	639	635	0	99.37	0.63	SEA	Mya-98
3	O/VIT/18/2014	VIT14-18	639	635	0	99.37	0.63	SEA	Mya-98
4	O/VIT/21/2014	VIT14-21	639	635	0	99.37	0.63	SEA	Mya-98
5	O/VIT/26/2014	VIT14-26	639	635	0	99.37	0.63	SEA	Mya-98
6	O/VIT/27/2014	VIT14-27	639	635	0	99.37	0.63	SEA	Mya-98
7	O/TAI/11/2014	TAI14-11	639	634	0	99.22	0.78	SEA	Mya-98
8	O/VIT/13/2014	VIT14-13	639	634	0	99.22	0.78	SEA	Mya-98
9	O/MAY/9/2014	MAY14-09	639	633	0	99.06	0.94	SEA	Mya-98
10	O/TAI/13/2014	TAI14-13	639	633	0	99.06	0.94	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/CAM/3/98 (AJ294910)	CAM98-03	639	555	0	86.85	13.15	SEA	Cam-94
4	O/IND/R2/75* (AF204276)	IND75--A	639	554	0	86.70	13.30	ME-SA	unnamed
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	552	0	86.38	13.62	ME-SA	unnamed
6	O/IRN/31/2009	IRN09-31	639	547	0	85.60	14.40	ME-SA	PanAsia-2 ^{FAR-09}
7	O/TUR/264/2009* (FMDI)	TUR09-AK	639	547	0	85.60	14.40	ME-SA	PanAsia-2 ^{SAN-09}
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	544	0	85.53	14.47	ME-SA	Ind-2001c
9	O/UKG/35/2001 (AJ539141)	UKG01-35	639	546	0	85.45	14.55	ME-SA	PanAsia
10	O/IND/53/79 (AF292107)	IND79A53	639	545	0	85.29	14.71	ME-SA	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TAI/8/2015 Batch No: WRLFMD/2015/00016 Sender Ref: 24-2/15 R3B1 Location: Phan Chali, Wang Thong, Phitsanulok, Thailand Date collected: 24/02/2015 Date received by WRLFMD: 12/08/2015 Date received for sequencing: 28/08/2015 Species: Cattle Material used: BTy1 21/08/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/09/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI15-08.SEQ Date sequence last updated: 09/09/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4156 Min. no. of nt for comparison: 600 Total turn-around time: 28 days Sequencing time: 12 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/MAY/2/2014	MAY14-02	639	633	0	99.06	0.94	SEA	Mya-98
2	O/TAI/10/2014	TAI14-10	639	633	0	99.06	0.94	SEA	Mya-98
3	O/VIT/18/2014	VIT14-18	639	633	0	99.06	0.94	SEA	Mya-98
4	O/VIT/21/2014	VIT14-21	639	633	0	99.06	0.94	SEA	Mya-98
5	O/VIT/26/2014	VIT14-26	639	633	0	99.06	0.94	SEA	Mya-98
6	O/VIT/27/2014	VIT14-27	639	633	0	99.06	0.94	SEA	Mya-98
7	O/VIT/13/2014	VIT14-13	639	632	0	98.90	1.10	SEA	Mya-98
8	O/MAY/9/2014	MAY14-09	639	631	0	98.75	1.25	SEA	Mya-98
9	O/TAI/13/2014	TAI14-13	639	631	0	98.75	1.25	SEA	Mya-98
10	O/TAI/7/2015	TAI15-07	639	631	0	98.75	1.25	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	567	0	88.73	11.27	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	555	0	86.85	13.15	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	551	0	86.23	13.77	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/TUR/257/2008* (FMDI)	TUR08-AD	639	547	0	85.60	14.40	ME-SA	PanAsia-2 ^{TER-08}
9	O/UAE/4/2008 (KM921876)	UAE08-04	636	544	0	85.53	14.47	ME-SA	Ind-2001c
10	O/UKG/35/2001 (AJ539141)	UKG01-35	639	546	0	85.45	14.55	ME-SA	PanAsia

nt, nucleotides

*, not a WRLFMD reference number

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Report on FMDV O in Thailand in 2014-2015

Batch: WRLFMD/2015/00016

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

Analysis ----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

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

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

Rates and Patterns

Rates among Sites ----- Uniform rates

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

Data Subset to Use

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

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

No. of Sites : 642

No Of Bootstrap Reps = 1000

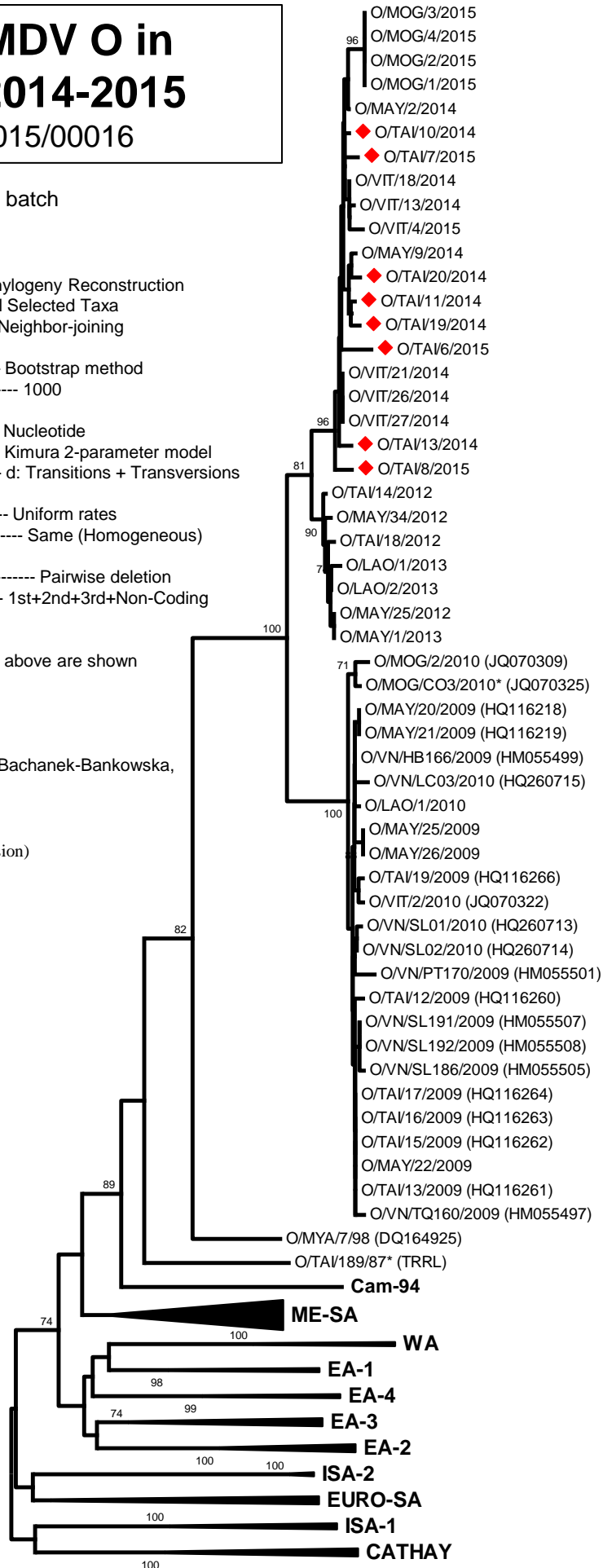
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
9 September 2015

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Mya-98

SEA