

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

## Genotyping Report

Date: 3 March 2010

FMDV type O

Country: Thailand

Period: 2009

No. of isolates: 13

BATCH: WRLFMD/2010/00004



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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: 02/03/2010
WRLFMD Ref No: TAI/12/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 35-1/09 R2 B1	
Location: Jana, Songkhla, Thailand	Topotype: SEA
Date collected: 10/08/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-12.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/13/2009	TAI09-13	639	637	0	99.69	0.31	SEA	Mya-98
2	O/TAI/15/2009	TAI09-15	639	637	0	99.69	0.31	SEA	Mya-98
3	O/TAI/16/2009	TAI09-16	639	637	0	99.69	0.31	SEA	Mya-98
4	O/TAI/17/2009	TAI09-17	639	637	0	99.69	0.31	SEA	Mya-98
5	O/MAY/20/2009	MAY09-20	639	635	0	99.37	0.63	SEA	Mya-98
6	O/MAY/21/2009	MAY09-21	639	635	0	99.37	0.63	SEA	Mya-98
7	O/TAI/19/2009	TAI09-19	639	634	0	99.22	0.78	SEA	Mya-98
8	O/TAI/23/2009	TAI09-23	639	633	0	99.06	0.94	SEA	Mya-98
9	O/LAO/1/2009	LAO09-01	639	623	0	97.50	2.50	SEA	Mya-98
10	O/MYA/2/2008	MYA08-02	639	623	0	97.50	2.50	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	562	0	87.95	12.05	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	547	0	85.60	14.40	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	543	0	84.98	15.02	ME-SA	unnamed
6	O/IND/53/79 (AF292107)	IND79A53	639	538	0	84.19	15.81	ME-SA	unnamed
7	O/IRN/8/2005	IRN05-08	639	535	0	83.72	16.28	ME-SA	PanAsia-2
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	534	0	83.57	16.43	ME-SA	PanAsia
9	O/K83/79* (AJ303511)	KEN79B83	638	532	1	83.39	16.61	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	530	0	82.94	17.06	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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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: 02/03/2010
WRLFMD Ref No: TAI/13/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 36/09 R2 B1	
Location: Muang, Kalasin, Thailand	Topotype: SEA
Date collected: 25/08/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-13.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/15/2009	TAI09-15	639	639	0	100.00	0.00	SEA	Mya-98
2	O/TAI/16/2009	TAI09-16	639	639	0	100.00	0.00	SEA	Mya-98
3	O/TAI/17/2009	TAI09-17	639	639	0	100.00	0.00	SEA	Mya-98
4	O/MAY/20/2009	MAY09-20	639	637	0	99.69	0.31	SEA	Mya-98
5	O/MAY/21/2009	MAY09-21	639	637	0	99.69	0.31	SEA	Mya-98
6	O/TAI/12/2009	TAI09-12	639	637	0	99.69	0.31	SEA	Mya-98
7	O/TAI/19/2009	TAI09-19	639	636	0	99.53	0.47	SEA	Mya-98
8	O/TAI/23/2009	TAI09-23	639	635	0	99.37	0.63	SEA	Mya-98
9	O/LAO/1/2009	LAO09-01	639	625	0	97.81	2.19	SEA	Mya-98
10	O/MYA/2/2008	MYA08-02	639	625	0	97.81	2.19	SEA	Mya-98
Most Closely Related Reference Viruses									
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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	564	0	88.26	11.74	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	548	0	85.76	14.24	ME-SA	unnamed
4	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	544	0	85.13	14.87	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	543	0	84.98	15.02	SEA	Cam-94
6	O/IND/53/79 (AF292107)	IND79A53	639	539	0	84.35	15.65	ME-SA	unnamed
7	O/IRN/8/2005	IRN05-08	639	536	0	83.88	16.12	ME-SA	PanAsia-2
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	535	0	83.72	16.28	ME-SA	PanAsia
9	O/K83/79* (AJ303511)	KEN79B83	638	533	1	83.54	16.46	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	529	0	82.79	17.21	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: TAI/15/2009 Batch No: WRLFMD/2010/00004 Sender Ref: 39/09 R1 B1 Location: Watbol, Phitsan, Thailand Date collected: 04/09/2009 Date received by WRLFMD: 05/02/2010 Date received for sequencing: 24/02/2010 Species: Cattle Material used: LK1 BHK1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 02/03/2010 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI09-15.SEQ Date sequence last updated: 02/03/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2264 Min. no. of nt for comparison: 300 Total turn-around time: 25 days Sequencing time: 6 days
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<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAI/13/2009	TAI09-13	639	639	0	100.00	0.00	SEA	Mya-98
2	O/TAI/16/2009	TAI09-16	639	639	0	100.00	0.00	SEA	Mya-98
3	O/TAI/17/2009	TAI09-17	639	639	0	100.00	0.00	SEA	Mya-98
4	O/MAY/20/2009	MAY09-20	639	637	0	99.69	0.31	SEA	Mya-98
5	O/MAY/21/2009	MAY09-21	639	637	0	99.69	0.31	SEA	Mya-98
6	O/TAI/12/2009	TAI09-12	639	637	0	99.69	0.31	SEA	Mya-98
7	O/TAI/19/2009	TAI09-19	639	636	0	99.53	0.47	SEA	Mya-98
8	O/TAI/23/2009	TAI09-23	639	635	0	99.37	0.63	SEA	Mya-98
9	O/LAO/1/2009	LAO09-01	639	625	0	97.81	2.19	SEA	Mya-98
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3	O/IND/R2/75* (AF204276)	IND75--A	639	548	0	85.76	14.24	ME-SA	unnamed
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Serotype: O	Report date: 02/03/2010
WRLFMD Ref No: TAI/16/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 40/09 R1 B1	
Location: Potharam, Ratchaburi, Thailand	Topotype: SEA
Date collected: 01/09/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-16.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
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2	O/TAI/15/2009	TAI09-15	639	639	0	100.00	0.00	SEA	Mya-98
3	O/TAI/17/2009	TAI09-17	639	639	0	100.00	0.00	SEA	Mya-98
4	O/MAY/20/2009	MAY09-20	639	637	0	99.69	0.31	SEA	Mya-98
5	O/MAY/21/2009	MAY09-21	639	637	0	99.69	0.31	SEA	Mya-98
6	O/TAI/12/2009	TAI09-12	639	637	0	99.69	0.31	SEA	Mya-98
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4	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	544	0	85.13	14.87	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	543	0	84.98	15.02	SEA	Cam-94
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8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	535	0	83.72	16.28	ME-SA	PanAsia
9	O/K83/79* (AJ303511)	KEN79B83	638	533	1	83.54	16.46	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	529	0	82.79	17.21	EA-3	unnamed

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Serotype: O WRLFMD Ref No: TAI/17/2009 Batch No: WRLFMD/2010/00004 Sender Ref: 42/09 R2 B1 Location: Khirimat, Sukhothani, Thailand Date collected: 02/10/2009 Date received by WRLFMD: 05/02/2010 Date received for sequencing: 24/02/2010 Species: Cattle Material used: LK2 BHK1 BTy1 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 02/03/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: SEA Genotype/strain: Mya-98 Sequence filename: TAI09-17.SEQ Date sequence last updated: 02/03/2010 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 2264 Min. no. of nt for comparison: 300 Total turn-around time: 25 days Sequencing time: 6 days
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2	O/TAI/15/2009	TAI09-15	639	639	0	100.00	0.00	SEA	Mya-98
3	O/TAI/16/2009	TAI09-16	639	639	0	100.00	0.00	SEA	Mya-98
4	O/MAY/20/2009	MAY09-20	639	637	0	99.69	0.31	SEA	Mya-98
5	O/MAY/21/2009	MAY09-21	639	637	0	99.69	0.31	SEA	Mya-98
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7	O/TAI/19/2009	TAI09-19	639	636	0	99.53	0.47	SEA	Mya-98
8	O/TAI/23/2009	TAI09-23	639	635	0	99.37	0.63	SEA	Mya-98
9	O/LAO/1/2009	LAO09-01	639	625	0	97.81	2.19	SEA	Mya-98
10	O/MYA/2/2008	MYA08-02	639	625	0	97.81	2.19	SEA	Mya-98
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nt, nucleotides

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Serotype: O	Report date: 02/03/2010
WRLFMD Ref No: TAI/18/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 43/09 R3 B1	
Location: Potharam, Ratchaburi, Thailand	Topotype: SEA
Date collected: 13/10/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-18.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK3 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
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Most Closely Related Viruses									
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2	O/MYA/2/2008	MYA08-02	639	628	0	98.28	1.72	SEA	Mya-98
3	O/TAI/2/2008	TAI08-02	639	628	0	98.28	1.72	SEA	Mya-98
4	O/TAI/3/2008	TAI08-03	639	628	0	98.28	1.72	SEA	Mya-98
5	O/TAI/7/2008	TAI08-07	639	628	0	98.28	1.72	SEA	Mya-98
6	O/TAI/9/2007	TAI07-09	639	628	0	98.28	1.72	SEA	Mya-98
7	O/MAY/4/2007	MAY07-04	639	627	0	98.12	1.88	SEA	Mya-98
8	O/MAY/7/2007	MAY07-07	639	627	0	98.12	1.88	SEA	Mya-98
9	O/TAI/5/2008	TAI08-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/TAI/7/2007	TAI07-07	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
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2	O/TAI/189/87* (TRRL)	TAI87-AC	639	571	0	89.36	10.64	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	547	0	85.60	14.40	ME-SA	unnamed
4	O/CAM/3/98 (AJ294910)	CAM98-03	639	545	0	85.29	14.71	SEA	Cam-94
5	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	543	0	84.98	15.02	ME-SA	unnamed
6	O/IND/53/79 (AF292107)	IND79A53	639	541	0	84.66	15.34	ME-SA	unnamed
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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: 02/03/2010
WRLFMD Ref No: TAI/19/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 51/09 R2 B1	
Location: Watbol, Phitsanulok, Thailand	Topotype: SEA
Date collected: 01/10/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-19.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/20/2009	MAY09-20	639	636	0	99.53	0.47	SEA	Mya-98
2	O/MAY/21/2009	MAY09-21	639	636	0	99.53	0.47	SEA	Mya-98
3	O/TAI/13/2009	TAI09-13	639	636	0	99.53	0.47	SEA	Mya-98
4	O/TAI/15/2009	TAI09-15	639	636	0	99.53	0.47	SEA	Mya-98
5	O/TAI/16/2009	TAI09-16	639	636	0	99.53	0.47	SEA	Mya-98
6	O/TAI/17/2009	TAI09-17	639	636	0	99.53	0.47	SEA	Mya-98
7	O/TAI/12/2009	TAI09-12	639	634	0	99.22	0.78	SEA	Mya-98
8	O/TAI/23/2009	TAI09-23	639	634	0	99.22	0.78	SEA	Mya-98
9	O/LAO/1/2009	LAO09-01	639	622	0	97.34	2.66	SEA	Mya-98
10	O/MYA/2/2008	MYA08-02	639	622	0	97.34	2.66	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	585	0	91.55	8.45	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	563	0	88.11	11.89	SEA	unnamed
3	O/IND/R2/75* (AF204276)	IND75--A	639	545	0	85.29	14.71	ME-SA	unnamed
4	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	543	0	84.98	15.02	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	540	0	84.51	15.49	SEA	Cam-94
6	O/IND/53/79 (AF292107)	IND79A53	639	539	0	84.35	15.65	ME-SA	unnamed
7	O/IRN/8/2005	IRN05-08	639	536	0	83.88	16.12	ME-SA	PanAsia-2
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	535	0	83.72	16.28	ME-SA	PanAsia
9	O/K83/79* (AJ303511)	KEN79B83	638	532	1	83.39	16.61	EA-1	unnamed
10	O/SUD/2/86 (DQ165075)	SUD86-02	639	531	0	83.10	16.90	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 02/03/2010
WRLFMD Ref No: TAI/20/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 53-2/09 R2 B1	
Location: Muang, Nakhonsawan, Thailand	Topotype: SEA
Date collected: 21/11/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-20.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/25/2009	TAI09-25	639	638	0	99.84	0.16	SEA	Mya-98
2	O/TAI/21/2009	TAI09-21	639	637	0	99.69	0.31	SEA	Mya-98
3	O/TAI/24/2009	TAI09-24	639	636	0	99.53	0.47	SEA	Mya-98
4	O/TAI/7/2007	TAI07-07	639	629	0	98.44	1.56	SEA	Mya-98
5	O/MAY/6/2007	MAY07-06	639	628	0	98.28	1.72	SEA	Mya-98
6	O/TAI/9/2007	TAI07-09	639	628	0	98.28	1.72	SEA	Mya-98
7	O/LAO/1/2007	LAO07-01	639	627	0	98.12	1.88	SEA	Mya-98
8	O/MAY/4/2007	MAY07-04	639	627	0	98.12	1.88	SEA	Mya-98
9	O/MAY/5/2007	MAY07-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/MAY/7/2007	MAY07-07	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	595	0	93.11	6.89	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	566	0	88.58	11.42	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	541	0	84.66	15.34	SEA	Cam-94
4	O/IND/53/79 (AF292107)	IND79A53	639	541	0	84.66	15.34	ME-SA	unnamed
5	O/IND/R2/75* (AF204276)	IND75--A	639	541	0	84.66	15.34	ME-SA	unnamed
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	541	0	84.66	15.34	ME-SA	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	538	0	84.19	15.81	ME-SA	PanAsia
8	O/IRN/8/2005	IRN05-08	639	536	0	83.88	16.12	ME-SA	PanAsia-2
9	O/K83/79* (AJ303511)	KEN79B83	638	534	1	83.70	16.30	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	533	0	83.41	16.59	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 02/03/2010
WRLFMD Ref No: TAI/21/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 54/09 R1 B1	
Location: Muang, Phetchaburi, Thailand	Topotype: SEA
Date collected: 17/11/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-21.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK1 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/25/2009	TAI09-25	639	638	0	99.84	0.16	SEA	Mya-98
2	O/TAI/20/2009	TAI09-20	639	637	0	99.69	0.31	SEA	Mya-98
3	O/TAI/24/2009	TAI09-24	639	636	0	99.53	0.47	SEA	Mya-98
4	O/TAI/7/2007	TAI07-07	639	629	0	98.44	1.56	SEA	Mya-98
5	O/MAY/6/2007	MAY07-06	639	628	0	98.28	1.72	SEA	Mya-98
6	O/TAI/9/2007	TAI07-09	639	628	0	98.28	1.72	SEA	Mya-98
7	O/LAO/1/2007	LAO07-01	639	627	0	98.12	1.88	SEA	Mya-98
8	O/MAY/4/2007	MAY07-04	639	627	0	98.12	1.88	SEA	Mya-98
9	O/MAY/5/2007	MAY07-05	639	627	0	98.12	1.88	SEA	Mya-98
10	O/MAY/7/2007	MAY07-07	639	627	0	98.12	1.88	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	597	0	93.43	6.57	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	568	0	88.89	11.11	SEA	unnamed
3	O/IND/53/79 (AF292107)	IND79A53	639	543	0	84.98	15.02	ME-SA	unnamed
4	O/IND/R2/75* (AF204276)	IND75--A	639	543	0	84.98	15.02	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	541	0	84.66	15.34	SEA	Cam-94
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	541	0	84.66	15.34	ME-SA	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	540	0	84.51	15.49	ME-SA	PanAsia
8	O/IRN/8/2005	IRN05-08	639	538	0	84.19	15.81	ME-SA	PanAsia-2
9	O/ETH/1/2007 (FJ798137)	ETH07-01	639	535	0	83.72	16.28	EA-3	unnamed
10	O/K83/79* (AJ303511)	KEN79B83	638	534	1	83.70	16.30	EA-1	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 02/03/2010
WRLFMD Ref No: TAI/22/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 55-3/09 R1 B1	
Location: Banthi, Lumphun, Thailand	Topotype: SEA
Date collected: 18/11/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-22.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Pig	No. of Nt determined: 639
Material used: LK1 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/MYA/5/2009	MYA09-05	639	629	0	98.44	1.56	SEA	Mya-98
2	O/MYA/6/2009	MYA09-06	639	629	0	98.44	1.56	SEA	Mya-98
3	O/MYA/1/04* (TRRL)	MYA04-AA	639	609	0	95.31	4.69	SEA	Mya-98
4	O/MYA/2/04* (TRRL)	MYA04-AB	639	609	0	95.31	4.69	SEA	Mya-98
5	O/MYA/11/2009	MYA09-11	639	608	0	95.15	4.85	SEA	Mya-98
6	O/TAI/36/04* (TRRL)	TAI04-AB	639	605	0	94.68	5.32	SEA	Mya-98
7	O/VIT/6/05* (TRRL)	VIT05-AF	639	605	0	94.68	5.32	SEA	Mya-98
8	O/MYA/10/2009	MYA09-10	639	604	0	94.52	5.48	SEA	Mya-98
9	O/MOG/2004 (ARRIAH)	MOG04--A	637	602	2	94.51	5.49	SEA	Mya-98
10	O/HLJOC12/03 (China) (DQ119643)	CHA03-AA	633	597	0	94.31	5.69	SEA	Mya-98
<b>Most Closely Related Reference Viruses</b>									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	598	0	93.58	6.42	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	578	0	90.45	9.55	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	548	0	85.76	14.24	SEA	Cam-94
4	O/IND/R2/75* (AF204276)	IND75--A	639	546	0	85.45	14.55	ME-SA	unnamed
5	O/IRN/8/2005	IRN05-08	639	544	0	85.13	14.87	ME-SA	PanAsia-2
6	O/UKG/35/2001 (AJ539141)	UKG01-35	639	541	0	84.66	15.34	ME-SA	PanAsia
7	O/ETH/3/2004 (FJ798109)	ETH04-03	639	539	0	84.35	15.65	EA-3	unnamed
8	O/ETH/1/2007 (FJ798137)	ETH07-01	639	535	0	83.72	16.28	EA-3	unnamed
9	O/IND/53/79 (AF292107)	IND79A53	639	534	0	83.57	16.43	ME-SA	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	534	0	83.57	16.43	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	Report date: 02/03/2010
WRLFMD Ref No: TAI/23/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 56/09 R1 B1	
Location: Banthi, Lumphun, Thailand	Topotype: SEA
Date collected: 18/11/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-23.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK1 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/20/2009	MAY09-20	639	635	0	99.37	0.63	SEA	Mya-98
2	O/MAY/21/2009	MAY09-21	639	635	0	99.37	0.63	SEA	Mya-98
3	O/TAI/13/2009	TAI09-13	639	635	0	99.37	0.63	SEA	Mya-98
4	O/TAI/15/2009	TAI09-15	639	635	0	99.37	0.63	SEA	Mya-98
5	O/TAI/16/2009	TAI09-16	639	635	0	99.37	0.63	SEA	Mya-98
6	O/TAI/17/2009	TAI09-17	639	635	0	99.37	0.63	SEA	Mya-98
7	O/TAI/19/2009	TAI09-19	639	634	0	99.22	0.78	SEA	Mya-98
8	O/TAI/12/2009	TAI09-12	639	633	0	99.06	0.94	SEA	Mya-98
9	O/LAO/1/2009	LAO09-01	639	621	0	97.18	2.82	SEA	Mya-98
10	O/MYA/2/2008	MYA08-02	639	621	0	97.18	2.82	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	582	0	91.08	8.92	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	549	0	85.92	14.08	ME-SA	unnamed
4	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	544	0	85.13	14.87	ME-SA	unnamed
5	O/CAM/3/98 (AJ294910)	CAM98-03	639	543	0	84.98	15.02	SEA	Cam-94
6	O/IND/53/79 (AF292107)	IND79A53	639	537	0	84.04	15.96	ME-SA	unnamed
7	O/IRN/8/2005	IRN05-08	639	536	0	83.88	16.12	ME-SA	PanAsia-2
8	O/UKG/35/2001 (AJ539141)	UKG01-35	639	535	0	83.72	16.28	ME-SA	PanAsia
9	O/K83/79* (AJ303511)	KEN79B83	638	532	1	83.39	16.61	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	530	0	82.94	17.06	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 02/03/2010
WRLFMD Ref No: TAI/24/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 61/09 R1 B1	
Location: Bungsamphan, Phetchabun, Thailand	Topotype: SEA
Date collected: 19/11/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-24.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK1 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAI/25/2009	TAI09-25	639	637	0	99.69	0.31	SEA	Mya-98
2	O/TAI/20/2009	TAI09-20	639	636	0	99.53	0.47	SEA	Mya-98
3	O/TAI/21/2009	TAI09-21	639	636	0	99.53	0.47	SEA	Mya-98
4	O/TAI/7/2007	TAI07-07	639	628	0	98.28	1.72	SEA	Mya-98
5	O/MAY/6/2007	MAY07-06	639	627	0	98.12	1.88	SEA	Mya-98
6	O/TAI/9/2007	TAI07-09	639	627	0	98.12	1.88	SEA	Mya-98
7	O/LAO/1/2007	LAO07-01	639	626	0	97.97	2.03	SEA	Mya-98
8	O/MAY/4/2007	MAY07-04	639	626	0	97.97	2.03	SEA	Mya-98
9	O/MAY/5/2007	MAY07-05	639	626	0	97.97	2.03	SEA	Mya-98
10	O/MAY/7/2007	MAY07-07	639	626	0	97.97	2.03	SEA	Mya-98
<b>Most Closely Related Reference Viruses</b>									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	594	0	92.96	7.04	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	565	0	88.42	11.58	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	540	0	84.51	15.49	SEA	Cam-94
4	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
5	O/IND/R2/75* (AF204276)	IND75--A	639	540	0	84.51	15.49	ME-SA	unnamed
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	540	0	84.51	15.49	ME-SA	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	537	0	84.04	15.96	ME-SA	PanAsia
8	O/IRN/8/2005	IRN05-08	639	535	0	83.72	16.28	ME-SA	PanAsia-2
9	O/K83/79* (AJ303511)	KEN79B83	638	533	1	83.54	16.46	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	532	0	83.26	16.74	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v3.0

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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: 02/03/2010
WRLFMD Ref No: TAI/25/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 67/09 R1	
Location: Khao Kho, Phetchabun, Thailand	Topotype: SEA
Date collected: 27/11/2009	Genotype/strain: Mya-98
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-25.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 639
Material used: LK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 2264
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 25 days
	Sequencing time: 6 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/20/2009	TAI09-20	639	638	0	99.84	0.16	SEA	Mya-98
2	O/TAI/21/2009	TAI09-21	639	638	0	99.84	0.16	SEA	Mya-98
3	O/TAI/24/2009	TAI09-24	639	637	0	99.69	0.31	SEA	Mya-98
4	O/TAI/7/2007	TAI07-07	639	630	0	98.59	1.41	SEA	Mya-98
5	O/MAY/6/2007	MAY07-06	639	629	0	98.44	1.56	SEA	Mya-98
6	O/TAI/9/2007	TAI07-09	639	629	0	98.44	1.56	SEA	Mya-98
7	O/LAO/1/2007	LAO07-01	639	628	0	98.28	1.72	SEA	Mya-98
8	O/MAY/4/2007	MAY07-04	639	628	0	98.28	1.72	SEA	Mya-98
9	O/MAY/5/2007	MAY07-05	639	628	0	98.28	1.72	SEA	Mya-98
10	O/MAY/7/2007	MAY07-07	639	628	0	98.28	1.72	SEA	Mya-98
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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	596	0	93.27	6.73	SEA	Mya-98
2	O/TAI/189/87* (TRRL)	TAI87-AC	639	567	0	88.73	11.27	SEA	unnamed
3	O/CAM/3/98 (AJ294910)	CAM98-03	639	542	0	84.82	15.18	SEA	Cam-94
4	O/IND/53/79 (AF292107)	IND79A53	639	542	0	84.82	15.18	ME-SA	unnamed
5	O/IND/R2/75* (AF204276)	IND75--A	639	542	0	84.82	15.18	ME-SA	unnamed
6	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	542	0	84.82	15.18	ME-SA	unnamed
7	O/UKG/35/2001 (AJ539141)	UKG01-35	639	539	0	84.35	15.65	ME-SA	PanAsia
8	O/IRN/8/2005	IRN05-08	639	537	0	84.04	15.96	ME-SA	PanAsia-2
9	O/K83/79* (AJ303511)	KEN79B83	638	535	1	83.86	16.14	EA-1	unnamed
10	O/ETH/1/2007 (FJ798137)	ETH07-01	639	534	0	83.57	16.43	EA-3	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v3.0

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# Report on FMDV O in Thailand in 2009

Batch: WRLFMD/2010/00004

Software: MEGA 4.0

No. of Taxa : 222

Data File : n:\levd\meg\db\fmdv\o\SEA2010a.meg

Data Title : Southeast Asia 2008-2009

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference : =====

->Method : Neighbor-Joining

->Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)

Include Sites : =====

->Gaps/Missing Data : Pairwise Deletion

->Codon Positions : 1st+2nd+3rd+Noncoding

Substitution Model : =====

->Model : Nucleotide: Kimura 2-parameter

->Substitutions to Include : d: Transitions + Transversions

->Pattern among Lineages : Same (Homogeneous)

->Rates among sites : Uniform rates

No. of Sites : 639

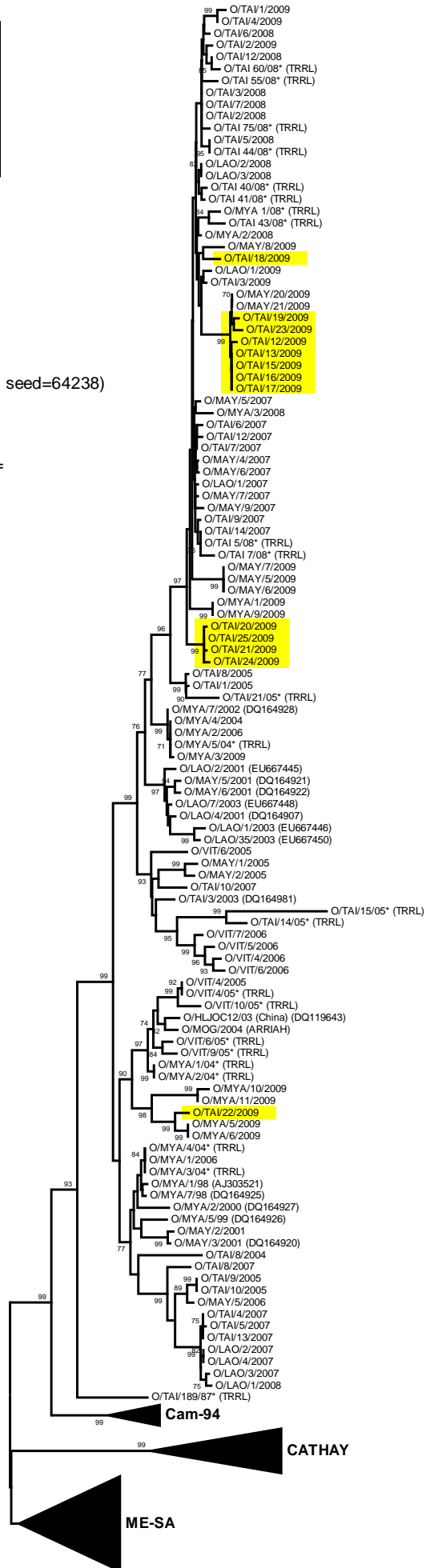
No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles, F. Hamid, J. Wadsworth, 03 March 2010

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Mya-98

SEA

Cam-94

CATHAY

ME-SA

0.02