

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

Genotyping Report

Date: 3 March 2010

FMDV type A

Country: Thailand

Period: 2009

No. of isolates: 7

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: A WRLFMD Ref No: TAI/5/2009 Batch No: WRLFMD/2010/00004 Sender Ref: 2/09 R2 B1 Location: Thung Song, Nakornsrihammarat, Thailand Date collected: 08/01/2009 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: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 03/03/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Unnamed Sequence filename: TAI09-05.SEQ Date sequence last updated: 02/03/2010 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 1254 Min. no. of nt for comparison: 300 Total turn-around time: 26 days Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TAI/17/2008	TAI08-17	636	635	0	99.84	0.16	ASIA	unnamed
2	A/TAI 68/08* (TRRL)	TAI08-AH	636	634	0	99.69	0.31	ASIA	unnamed
3	A/TAI/10/2009	TAI09-10	636	633	0	99.53	0.47	ASIA	unnamed
4	A/VIT/3/2008	VIT08-03	636	632	0	99.37	0.63	ASIA	unnamed
5	A/VIT/8/2008	VIT08-08	636	632	0	99.37	0.63	ASIA	unnamed
6	A/VN/02/2009* (GQ406248)	VIT09-AA	636	632	0	99.37	0.63	ASIA	unnamed
7	A/VN/03/2009* (GQ406249)	VIT09-AB	636	632	0	99.37	0.63	ASIA	unnamed
8	A/TAI/10/2008	TAI08-10	636	631	0	99.21	0.79	ASIA	unnamed
9	A/TAI/15/2008	TAI08-15	636	631	0	99.21	0.79	ASIA	unnamed
10	A/TAI/18/2008	TAI08-18	636	631	0	99.21	0.79	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	567	0	89.15	10.85	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	525	0	82.94	17.06	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	522	0	82.08	17.92	ASIA	A22
4	A/TUR/33/2008	TUR08-33	636	519	0	81.60	18.40	ASIA	Iran-05 ^{EZM-07}
5	A/IRN/1/96 (EF208771)	IRN96-01	635	518	1	81.57	18.43	ASIA	Iran-96
6	A/BAR/6/2008	BAR08-06	636	517	0	81.29	18.71	ASIA	Iran-05 ^{BAR-08}
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	517	0	81.29	18.71	ASIA	Iran-05
8	A/SUD/3/77 (GU566064)	SUD77-03	636	516	0	81.13	18.87	AFRICA (G-IV)	unnamed
9	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	516	0	81.13	18.87	ASIA	A15
10	A/IRN/22/99 (EF208772)	IRN99-22	633	513	0	81.04	18.96	ASIA	Iran-99

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TAI/6/2009 Batch No: WRLFMD/2010/00004 Sender Ref: 20-3/09 R1 B1 Location: Mae oon, Chiangmai, Thailand Date collected: 08/01/2009 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: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 03/03/2010 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Unnamed Sequence filename: TAI09-06.SEQ Date sequence last updated: 02/03/2010 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 1254 Min. no. of nt for comparison: 300 Total turn-around time: 26 days Sequencing time: 7 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	A/TAI/15/2008	TAI08-15	636	634	0	99.69	0.31	ASIA	unnamed
2	A/TAI/16/2008	TAI08-16	636	633	0	99.53	0.47	ASIA	unnamed
3	A/TAI/19/2008	TAI08-19	636	633	0	99.53	0.47	ASIA	unnamed
4	A/VIT/3/2008	VIT08-03	636	633	0	99.53	0.47	ASIA	unnamed
5	A/VIT/8/2008	VIT08-08	636	633	0	99.53	0.47	ASIA	unnamed
6	A/VN/02/2009* (GQ406248)	VIT09-AA	636	633	0	99.53	0.47	ASIA	unnamed
7	A/VN/03/2009* (GQ406249)	VIT09-AB	636	633	0	99.53	0.47	ASIA	unnamed
8	A/TAI/10/2008	TAI08-10	636	632	0	99.37	0.63	ASIA	unnamed
9	A/TAI/4/2008	TAI08-04	636	632	0	99.37	0.63	ASIA	unnamed
10	A/TAI/9/2008	TAI08-09	636	632	0	99.37	0.63	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	565	0	88.84	11.16	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	525	0	82.94	17.06	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	524	0	82.39	17.61	ASIA	A22
4	A/TUR/33/2008	TUR08-33	636	518	0	81.45	18.55	ASIA	Iran-05 ^{EZM-07}
5	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	518	0	81.45	18.55	ASIA	A15
6	A/IRN/1/96 (EF208771)	IRN96-01	635	516	1	81.26	18.74	ASIA	Iran-96
7	A/IRN/22/99 (EF208772)	IRN99-22	633	514	0	81.20	18.80	ASIA	Iran-99
8	A/IRN/1/2005 (EF208769)	IRN05-01	636	516	0	81.13	18.87	ASIA	Iran-05
9	A/SUD/3/77 (GU566064)	SUD77-03	636	516	0	81.13	18.87	AFRICA (G-IV)	unnamed
10	A/GHA/16/73	GHA73-16	633	513	0	81.04	18.96	AFRICA (G-VI)	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/03/2010
WRLFMD Ref No: TAI/7/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 19/09 R1 B1	
Location: Muang, Kalasin, Thailand	Topotype: ASIA
Date collected: 04/02/2009	Genotype/strain: Unnamed
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-07.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 636
Material used: LK1 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1254
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 26 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TAI/9/2009	TAI09-09	636	634	0	99.69	0.31	ASIA	unnamed
2	A/TAI/8/2009	TAI09-08	636	633	0	99.53	0.47	ASIA	unnamed
3	A/TAI/10/2008	TAI08-10	636	630	0	99.06	0.94	ASIA	unnamed
4	A/TAI/4/2008	TAI08-04	636	630	0	99.06	0.94	ASIA	unnamed
5	A/TAI/9/2008	TAI08-09	636	630	0	99.06	0.94	ASIA	unnamed
6	A/TAI/11/2008	TAI08-11	636	629	0	98.90	1.10	ASIA	unnamed
7	A/TAI/14/2008	TAI08-14	636	629	0	98.90	1.10	ASIA	unnamed
8	A/VIT/3/2008	VIT08-03	636	629	0	98.90	1.10	ASIA	unnamed
9	A/VIT/8/2008	VIT08-08	636	629	0	98.90	1.10	ASIA	unnamed
10	A/VN/02/2009* (GQ406248)	VIT09-AA	636	629	0	98.90	1.10	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	558	0	87.74	12.26	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	521	0	81.92	18.08	ASIA	A22
4	A/TUR/33/2008	TUR08-33	636	516	0	81.13	18.87	ASIA	Iran-05 ^{EZM-07}
5	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	516	0	81.13	18.87	ASIA	A15
6	A/IRN/1/96 (EF208771)	IRN96-01	635	514	1	80.94	19.06	ASIA	Iran-96
7	A/GHA/16/73	GHA73-16	633	512	0	80.88	19.12	AFRICA (G-VI)	unnamed
8	A/IRN/22/99 (EF208772)	IRN99-22	633	512	0	80.88	19.12	ASIA	Iran-99
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	514	0	80.82	19.18	ASIA	Iran-05
10	A/AFG/6/2007	AFG07-06	636	513	0	80.66	19.34	ASIA	Iran-05 ^{AFG-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/03/2010
WRLFMD Ref No: TAI/8/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 22/09 R1 B1	
Location: Lablae, Uttaradit, Thailand	Topotype: ASIA
Date collected: 12/02/2009	Genotype/strain: Unnamed
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-08.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1254
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 26 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TAI/9/2009	TAI09-09	636	635	0	99.84	0.16	ASIA	unnamed
2	A/TAI/7/2009	TAI09-07	636	633	0	99.53	0.47	ASIA	unnamed
3	A/TAI/10/2008	TAI08-10	636	631	0	99.21	0.79	ASIA	unnamed
4	A/TAI/4/2008	TAI08-04	636	631	0	99.21	0.79	ASIA	unnamed
5	A/TAI/9/2008	TAI08-09	636	631	0	99.21	0.79	ASIA	unnamed
6	A/TAI/11/2008	TAI08-11	636	630	0	99.06	0.94	ASIA	unnamed
7	A/TAI/14/2008	TAI08-14	636	630	0	99.06	0.94	ASIA	unnamed
8	A/VIT/3/2008	VIT08-03	636	630	0	99.06	0.94	ASIA	unnamed
9	A/VIT/8/2008	VIT08-08	636	630	0	99.06	0.94	ASIA	unnamed
10	A/VN/02/2009* (GQ406248)	VIT09-AA	636	630	0	99.06	0.94	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	559	0	87.89	12.11	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	523	0	82.62	17.38	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	523	0	82.23	17.77	ASIA	A22
4	A/TUR/33/2008	TUR08-33	636	517	0	81.29	18.71	ASIA	Iran-05 ^{EZM-07}
5	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
6	A/IRN/22/99 (EF208772)	IRN99-22	633	513	0	81.04	18.96	ASIA	Iran-99
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	515	0	80.97	19.03	ASIA	Iran-05
8	A/AFG/6/2007	AFG07-06	636	514	0	80.82	19.18	ASIA	Iran-05 ^{AFG-07}
9	A/BAR/6/2008	BAR08-06	636	514	0	80.82	19.18	ASIA	Iran-05 ^{BAR-08}
10	A/IRN/1/96 (EF208771)	IRN96-01	635	513	1	80.79	19.21	ASIA	Iran-96

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/03/2010
WRLFMD Ref No: TAI/9/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 24/09 R1 B1	
Location: Piboonruk, Udonthani, Thailand	Topotype: ASIA
Date collected: 16/02/2009	Genotype/strain: Unnamed
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-09.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1254
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 26 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/TAI/8/2009	TAI09-08	636	635	0	99.84	0.16	ASIA	unnamed
2	A/TAI/7/2009	TAI09-07	636	634	0	99.69	0.31	ASIA	unnamed
3	A/TAI/10/2008	TAI08-10	636	632	0	99.37	0.63	ASIA	unnamed
4	A/TAI/4/2008	TAI08-04	636	632	0	99.37	0.63	ASIA	unnamed
5	A/TAI/9/2008	TAI08-09	636	632	0	99.37	0.63	ASIA	unnamed
6	A/TAI/11/2008	TAI08-11	636	631	0	99.21	0.79	ASIA	unnamed
7	A/TAI/14/2008	TAI08-14	636	631	0	99.21	0.79	ASIA	unnamed
8	A/VIT/3/2008	VIT08-03	636	631	0	99.21	0.79	ASIA	unnamed
9	A/VIT/8/2008	VIT08-08	636	631	0	99.21	0.79	ASIA	unnamed
10	A/VN/02/2009* (GQ406248)	VIT09-AA	636	631	0	99.21	0.79	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	560	0	88.05	11.95	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	522	0	82.08	17.92	ASIA	A22
4	A/TUR/33/2008	TUR08-33	636	518	0	81.45	18.55	ASIA	Iran-05 ^{EZM-07}
5	A/IRN/1/2005 (EF208769)	IRN05-01	636	516	0	81.13	18.87	ASIA	Iran-05
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	516	0	81.13	18.87	ASIA	A15
7	A/AFG/6/2007	AFG07-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{AFG-07}
8	A/BAR/6/2008	BAR08-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{BAR-08}
9	A/IRN/1/96 (EF208771)	IRN96-01	635	514	1	80.94	19.06	ASIA	Iran-96
10	A/GHA/16/73	GHA73-16	633	512	0	80.88	19.12	AFRICA (G-VI)	unnamed

nt, nucleotides

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Serotype: A	Report date: 03/03/2010
WRLFMD Ref No: TAI/10/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 29-2/09 R1 B!	
Location: Kuankanun, Pattalung, Thailand	Topotype: ASIA
Date collected: 13/03/2009	Genotype/strain: Unnamed
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-10.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1254
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 26 days
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Most Closely Related Viruses									
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2	A/TAI/5/2009	TAI09-05	636	633	0	99.53	0.47	ASIA	unnamed
3	A/TAI 68/08* (TRRL)	TAI08-AH	636	633	0	99.53	0.47	ASIA	unnamed
4	A/VIT/3/2008	VIT08-03	636	631	0	99.21	0.79	ASIA	unnamed
5	A/VIT/8/2008	VIT08-08	636	631	0	99.21	0.79	ASIA	unnamed
6	A/VN/02/2009* (GQ406248)	VIT09-AA	636	631	0	99.21	0.79	ASIA	unnamed
7	A/VN/03/2009* (GQ406249)	VIT09-AB	636	631	0	99.21	0.79	ASIA	unnamed
8	A/TAI/10/2008	TAI08-10	636	630	0	99.06	0.94	ASIA	unnamed
9	A/TAI/15/2008	TAI08-15	636	630	0	99.06	0.94	ASIA	unnamed
10	A/TAI/18/2008	TAI08-18	636	630	0	99.06	0.94	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	564	0	88.68	11.32	ASIA	unnamed
2	A/IRN/2/87 (EF208770)	IRN87-02	633	523	0	82.62	17.38	ASIA	Iran-87
3	A22/IRQ/64 (AY593763)	IRQ64--A	636	521	0	81.92	18.08	ASIA	A22
4	A/IRN/1/96 (EF208771)	IRN96-01	635	517	1	81.42	18.58	ASIA	Iran-96
5	A/BAR/6/2008	BAR08-06	636	517	0	81.29	18.71	ASIA	Iran-05 ^{BAR-08}
6	A/TUR/33/2008	TUR08-33	636	516	0	81.13	18.87	ASIA	Iran-05 ^{EZM-07}
7	A/IRN/22/99 (EF208772)	IRN99-22	633	513	0	81.04	18.96	ASIA	Iran-99
8	A/AFG/6/2007	AFG07-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{AFG-07}
9	A/GHA/16/73	GHA73-16	633	512	0	80.88	19.12	AFRICA (G-VI)	unnamed
10	A/IRN/1/2005 (EF208769)	IRN05-01	636	514	0	80.82	19.18	ASIA	Iran-05

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 03/03/2010
WRLFMD Ref No: TAI/14/2009	Reported by: N.J. Knowles
Batch No: WRLFMD/2010/00004	Checked by: D.P. King
Sender Ref: 37/09 R2 B1	
Location: Muang, Chiangmai, Thailand	Topotype: ASIA
Date collected: 03/09/2009	Genotype/strain: Unnamed
Date received by WRLFMD: 05/02/2010	Sequence filename: TAI09-14.SEQ
Date received for sequencing: 24/02/2010	Date sequence last updated: 02/03/2010
Species: Cattle	No. of Nt determined: 636
Material used: LK2 BHK1 BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1254
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
	Total turn-around time: 26 days
	Sequencing time: 7 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	A/VIT/3/2008	VIT08-03	636	625	0	98.27	1.73	ASIA	unnamed
2	A/VIT/8/2008	VIT08-08	636	625	0	98.27	1.73	ASIA	unnamed
3	A/VN/02/2009* (GQ406248)	VIT09-AA	636	625	0	98.27	1.73	ASIA	unnamed
4	A/VN/03/2009* (GQ406249)	VIT09-AB	636	625	0	98.27	1.73	ASIA	unnamed
5	A/TAI/10/2008	TAI08-10	636	624	0	98.11	1.89	ASIA	unnamed
6	A/TAI/15/2008	TAI08-15	636	624	0	98.11	1.89	ASIA	unnamed
7	A/TAI/4/2008	TAI08-04	636	624	0	98.11	1.89	ASIA	unnamed
8	A/TAI/9/2008	TAI08-09	636	624	0	98.11	1.89	ASIA	unnamed
9	A/VIT/1/2009	VIT09-01	636	624	0	98.11	1.89	ASIA	unnamed
10	A/VIT/2/2008	VIT08-02	636	624	0	98.11	1.89	ASIA	unnamed
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	A/TAI/118/87* (EF208777)	TAI87-AD	636	562	0	88.36	11.64	ASIA	unnamed
2	A22/IRQ/64 (AY593763)	IRQ64--A	636	527	0	82.86	17.14	ASIA	A22
3	A/IRN/2/87 (EF208770)	IRN87-02	633	523	0	82.62	17.38	ASIA	Iran-87
4	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	522	0	82.08	17.92	ASIA	A15
5	A/IRN/22/99 (EF208772)	IRN99-22	633	516	0	81.52	18.48	ASIA	Iran-99
6	A/TUR/33/2008	TUR08-33	636	516	0	81.13	18.87	ASIA	Iran-05 ^{EZM-07}
7	A/IRN/1/96 (EF208771)	IRN96-01	635	514	1	80.94	19.06	ASIA	Iran-96
8	A/GHA/16/73	GHA73-16	633	512	0	80.88	19.12	AFRICA (G-VI)	unnamed
9	A/IRN/1/2005 (EF208769)	IRN05-01	636	514	0	80.82	19.18	ASIA	Iran-05
10	A/AFG/6/2007	AFG07-06	636	513	0	80.66	19.34	ASIA	Iran-05 ^{AFG-07}

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v3.0

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Report on FMDV A in Thailand in 2009

Batch: WRLFMD/2010/00004

Software: MEGA 4.0

No. of Taxa : 173

Data File : n:\evd\meg\db\fmvd\la\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=24054)

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 : 642

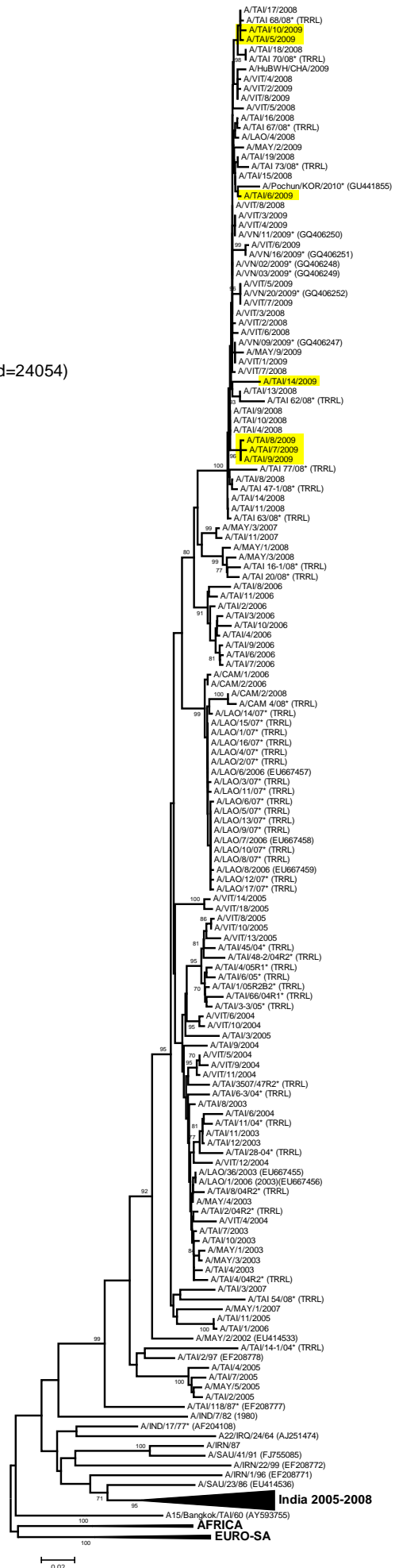
No Of Bootstrap Reps = 1000

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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ASIA