

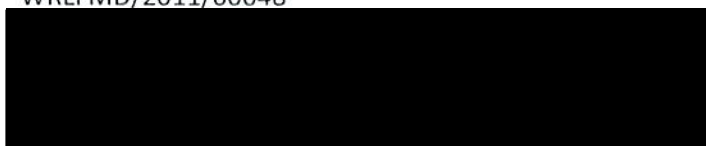


INSTITUTE FOR ANIMAL HEALTH
Director: Professor John Fazakerley BSc, MBA, PhD, FRCPath
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Ash Road,
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Surrey,
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Intn Tel: 00 44 1483 232441
Tel: 01483 232441 Fax: 01483 232621

FMD Genotyping Report

Lab Reference WRL Batch Number: WRLFMD/2011/00048

Sender Details:



Date Received: 9th December 2011

Country of Origin: Malaysia

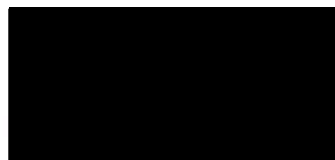
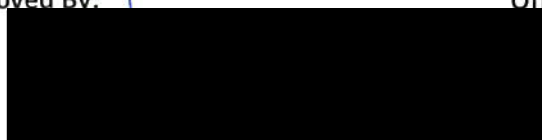
Date Reported: 5th January 2012

Dear Dr Norlida Bt Othman

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

Results Approved By: 1

Official Stamp:



Date:

5/1/12

A UKAS accredited testing laboratory No. 4025.

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: gareth.shimmon@iah.ac.uk. IAH actively seeks and appreciates feedback, if you would like to offer feedback please complete the WRLFMD survey here: <http://www.surveymonkey.com/s/WRLFMD>

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

Genotyping Report

Report Date for this Batch: 4 January 2012

FMDV type A

Country: Malaysia

Period: 2011

No. of samples: 6

BATCH: WRLFMD/2011/00048



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 04/01/2012
WRLFMD Ref No: MAY/2/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00048	Checked by: D.P. King
Sender Ref: 2447/11	
Location: Kampong Sawah, Lukut, Port Dickson, Negeri Sembilan, Malaysia	Topotype: ASIA
Date collected: 03/05/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 09/12/2011	Sequence filename: MAY11-02.SEQ
Date received for sequencing: 22/12/2011	Date sequence last updated: 04/01/2012
Species: Cattle	No. of Nt determined: 636
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1357
	Min. no. of nt for comparison: 600
	Total turn-around time: 26 days
	Sequencing time: 13 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/10/2011	TAI11-10	636	632	0	99.37	0.63	ASIA	Sea-97
2	A/TAI/9/2011	TAI11-09	636	632	0	99.37	0.63	ASIA	Sea-97
3	A/TAI/11/2011	TAI11-11	636	631	0	99.21	0.79	ASIA	Sea-97
4	A/TAI/6/2011	TAI11-06	636	631	0	99.21	0.79	ASIA	Sea-97
5	A/TAI/8/2011	TAI11-08	636	631	0	99.21	0.79	ASIA	Sea-97
6	A/TAI/13/2011	TAI11-13	636	628	0	98.74	1.26	ASIA	Sea-97
7	A/TAI/8/2010	TAI10-08	636	628	0	98.74	1.26	ASIA	Sea-97
8	A/THA 66-1/10* (TRRL)	TAI10-AA	636	628	0	98.74	1.26	ASIA	Sea-97
9	A/THA 69-6/10* (TRRL)	TAI10-AC	636	628	0	98.74	1.26	ASIA	Sea-97
10	A/TAI/1/2011	TAI11-01	636	627	0	98.58	1.42	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	598	0	94.03	5.97	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	582	0	91.51	8.49	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	557	0	87.58	12.42	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	527	0	82.86	17.14	ASIA	A22
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	521	0	81.92	18.08	ASIA	Iran-05 ^{FAR-09}
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	520	0	81.76	18.24	ASIA	Iran-05
8	A/TUR/1/2008	TUR08-01	636	520	0	81.76	18.24	ASIA	Iran-05 ^{ARD-07}
9	A/IRN/1/96 (EF208771)	IRN96-01	635	519	1	81.73	18.27	ASIA	Iran-96
10	A/BAR/6/2008	BAR08-06	636	519	0	81.60	18.40	ASIA	Iran-05 ^{BAR-08}

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 04/01/2012
WRLFMD Ref No: MAY/4/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00048	Checked by: D.P. King
Sender Ref: 2814/11	
Location: Felda Lepar 2, Kuantan, Kuantan, Pahang, Malaysia	Topotype: ASIA
Date collected: 23/05/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 09/12/2011	Sequence filename: MAY11-04.SEQ
Date received for sequencing: 22/12/2011	Date sequence last updated: 04/01/2012
Species: Cattle	No. of Nt determined: 636
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1357
	Min. no. of nt for comparison: 600
	Total turn-around time: 26 days
	Sequencing time: 13 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/THA 66-1/10* (TRRL)	TAI10-AA	636	631	0	99.21	0.79	ASIA	Sea-97
2	A/TAI/7/2010	TAI10-07	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/THA 67-3/10* (TRRL)	TAI10-AB	636	630	0	99.06	0.94	ASIA	Sea-97
4	A/TAI/8/2010	TAI10-08	636	629	0	98.90	1.10	ASIA	Sea-97
5	A/THA 69-6/10* (TRRL)	TAI10-AC	636	629	0	98.90	1.10	ASIA	Sea-97
6	A/TAI/1/2011	TAI11-01	636	628	0	98.74	1.26	ASIA	Sea-97
7	A/TAI/3/2011	TAI11-03	636	628	0	98.74	1.26	ASIA	Sea-97
8	A/TAI/12/2011	TAI11-12	636	626	0	98.43	1.57	ASIA	Sea-97
9	A/MAY/20/2011	MAY11-20	636	625	0	98.27	1.73	ASIA	Sea-97
10	A/MAY/17/2011	MAY11-17	636	623	0	97.96	2.04	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	601	0	94.50	5.50	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	580	0	91.19	8.81	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	558	0	87.74	12.26	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	525	0	82.55	17.45	ASIA	A22
5	A/IRN/1/96 (EF208771)	IRN96-01	635	524	1	82.52	17.48	ASIA	Iran-96
6	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
7	A/IRN/78/2009	IRN09-78	636	522	0	82.08	17.92	ASIA	Iran-05 ^{FAR-09}
8	A/IRN/125/2010	IRN10125	636	520	0	81.76	18.24	ASIA	Iran-05 ^{SIS-10}
9	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	520	0	81.76	18.24	ASIA	A15
10	A/AFG/10/2010	AFG10-10	636	519	0	81.60	18.40	ASIA	Iran-05 ^{HER-10}

nt, nucleotides

*, not a WRLFMD reference number

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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 04/01/2012
WRLFMD Ref No: MAY/15/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00048	Checked by: D.P. King
Sender Ref: 4013/11	
Location: Felda Palong 15, Jempol, Rompin, Negeri Sembiklan, Malaysia	Topotype: ASIA
Date collected: 27/07/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 09/12/2011	Sequence filename: MAY11-15.SEQ
Date received for sequencing: 22/12/2011	Date sequence last updated: 04/01/2012
Species: Cattle	No. of Nt determined: 636
Material used: BTy2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1357
	Min. no. of nt for comparison: 600
	Total turn-around time: 26 days
	Sequencing time: 13 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/38/06R1* (TRRL)	TAI06-AG	636	611	0	96.07	3.93	ASIA	Sea-97
2	A/TAI/11/2006 (HQ116333)	TAI06-11	636	610	0	95.91	4.09	ASIA	Sea-97
3	A/TAI/24-2/06* (TRRL)	TAI06-AC	636	610	0	95.91	4.09	ASIA	Sea-97
4	A/TAI/2/2006 (HQ116325)	TAI06-02	636	609	0	95.75	4.25	ASIA	Sea-97
5	A/TAI/22-2/06* (TRRL)	TAI06-AB	636	609	0	95.75	4.25	ASIA	Sea-97
6	A/TAI/29-2/06* (TRRL)	TAI06-AE	636	609	0	95.75	4.25	ASIA	Sea-97
7	A/TAI/32-2/06* (TRRL)	TAI06-AF	636	609	0	95.75	4.25	ASIA	Sea-97
8	A/TAI/4/2006 (HQ116327)	TAI06-04	636	609	0	95.75	4.25	ASIA	Sea-97
9	A/TAI/3/2006 (HQ116326)	TAI06-03	636	608	0	95.60	4.40	ASIA	Sea-97
10	A/TAI/6/2006 (HQ116328)	TAI06-06	636	608	0	95.60	4.40	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	602	0	94.65	5.35	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	578	0	90.88	9.12	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	562	0	88.36	11.64	ASIA	Thai-87
4	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
5	A22/IRQ/64 (AY593763)	IRQ64--A	636	518	0	81.45	18.55	ASIA	A22
6	A/AFG/10/2010	AFG10-10	636	514	0	80.82	19.18	ASIA	Iran-05 ^{HER-10}
7	A/TUR/33/2008	TUR08-33	636	514	0	80.82	19.18	ASIA	Iran-05 ^{EZM-07}
8	A/IRN/1/2005 (EF208769)	IRN05-01	636	513	0	80.66	19.34	ASIA	Iran-05
9	A/BAR/6/2008	BAR08-06	636	512	0	80.50	19.50	ASIA	Iran-05 ^{BAR-08}
10	A/IRN/78/2009	IRN09-78	636	512	0	80.50	19.50	ASIA	Iran-05 ^{FAR-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 04/01/2012
WRLFMD Ref No: MAY/17/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00048	Checked by: D.P. King
Sender Ref: 4181/11	
Location: Seppang, Selqangor, Malaysia	Topotype: ASIA
Date collected: 09/08/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 09/12/2011	Sequence filename: MAY11-17.SEQ
Date received for sequencing: 22/12/2011	Date sequence last updated: 04/01/2012
Species: Cattle	No. of Nt determined: 636
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1357
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 26 days
	Sequencing time: 13 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/1/2011	TAI11-01	636	626	0	98.43	1.57	ASIA	Sea-97
2	A/THA 66-1/10* (TRRL)	TAI10-AA	636	626	0	98.43	1.57	ASIA	Sea-97
3	A/TAI/7/2010	TAI10-07	636	625	0	98.27	1.73	ASIA	Sea-97
4	A/TAI/8/2010	TAI10-08	636	625	0	98.27	1.73	ASIA	Sea-97
5	A/THA 67-3/10* (TRRL)	TAI10-AB	636	625	0	98.27	1.73	ASIA	Sea-97
6	A/THA 69-6/10* (TRRL)	TAI10-AC	636	625	0	98.27	1.73	ASIA	Sea-97
7	A/TAI/3/2011	TAI11-03	636	624	0	98.11	1.89	ASIA	Sea-97
8	A/MAY/4/2011	MAY11-04	636	623	0	97.96	2.04	ASIA	Sea-97
9	A/MAY/2/2011	MAY11-02	636	621	0	97.64	2.36	ASIA	Sea-97
10	A/MAY/20/2011	MAY11-20	636	621	0	97.64	2.36	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	597	0	93.87	6.13	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	578	0	90.88	9.12	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	554	0	87.11	12.89	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	524	0	82.39	17.61	ASIA	A22
5	A/IRN/2/87 (EF208770)	IRN87-02	633	519	0	81.99	18.01	ASIA	Iran-87
6	A/IRN/78/2009	IRN09-78	636	518	0	81.45	18.55	ASIA	Iran-05 ^{FAR-09}
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
8	A/IRN/1/96 (EF208771)	IRN96-01	635	516	1	81.26	18.74	ASIA	Iran-96
9	A/IRN/22/99 (EF208772)	IRN99-22	633	513	0	81.04	18.96	ASIA	Iran-99
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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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: A	Report date: 04/01/2012
WRLFMD Ref No: MAY/19/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00048	Checked by: D.P. King
Sender Ref: 5000/11	
Location: Mukim Sg Laka, Kubang Pasu, Kubang Pasu, Kebah, Malaysia	Topotype: ASIA
Date collected: 26/10/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 09/12/2011	Sequence filename: MAY11-19.SEQ
Date received for sequencing: 22/12/2011	Date sequence last updated: 04/01/2012
Species: Cattle	No. of Nt determined: 636
Material used: RS2	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1357
	Min. no. of nt for comparison: 600
	Total turn-around time: 26 days
	Sequencing time: 13 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/8/2010	TAI10-08	636	626	0	98.43	1.57	ASIA	Sea-97
2	A/THA 66-1/10* (TRRL)	TAI10-AA	636	626	0	98.43	1.57	ASIA	Sea-97
3	A/THA 69-6/10* (TRRL)	TAI10-AC	636	626	0	98.43	1.57	ASIA	Sea-97
4	A/TAI/1/2011	TAI11-01	636	625	0	98.27	1.73	ASIA	Sea-97
5	A/TAI/12/2011	TAI11-12	636	625	0	98.27	1.73	ASIA	Sea-97
6	A/TAI/3/2011	TAI11-03	636	625	0	98.27	1.73	ASIA	Sea-97
7	A/TAI/7/2010	TAI10-07	636	625	0	98.27	1.73	ASIA	Sea-97
8	A/THA 67-3/10* (TRRL)	TAI10-AB	636	625	0	98.27	1.73	ASIA	Sea-97
9	A/MAY/2/2011	MAY11-02	636	623	0	97.96	2.04	ASIA	Sea-97
10	A/TAI/9/2011	TAI11-09	636	623	0	97.96	2.04	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	602	0	94.65	5.35	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	582	0	91.51	8.49	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	554	0	87.11	12.89	ASIA	Thai-87
4	A/IRN/78/2009	IRN09-78	636	526	0	82.70	17.30	ASIA	Iran-05 ^{FAR-09}
5	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
6	A22/IRQ/64 (AY593763)	IRQ64--A	636	523	0	82.23	17.77	ASIA	A22
7	A/AFG/6/2007	AFG07-06	636	522	0	82.08	17.92	ASIA	Iran-05 ^{AFG-07}
8	A/TUR/1/2008	TUR08-01	636	521	0	81.92	18.08	ASIA	Iran-05 ^{ARD-07}
9	A/TUR/33/2008	TUR08-33	636	521	0	81.92	18.08	ASIA	Iran-05 ^{EZM-07}
10	A/BAR/6/2008	BAR08-06	636	520	0	81.76	18.24	ASIA	Iran-05 ^{BAR-08}

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: A	Report date: 04/01/2012
WRLFMD Ref No: MAY/20/2011	Reported by: N.J. Knowles
Batch No: WRLFMD/2011/00048	Checked by: D.P. King
Sender Ref: 5490/11	
Location: Kg Tengah, Lenggeng, Seremban, Negeri Sembilan, Malaysia	Topotype: ASIA
Date collected: 05/10/2011	Genotype/strain: Sea-97
Date received by WRLFMD: 09/12/2011	Sequence filename: MAY11-20.SEQ
Date received for sequencing: 22/12/2011	Date sequence last updated: 04/01/2012
Species: Cattle	No. of Nt determined: 636
Material used: BTy1	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1357
	Min. no. of nt for comparison: 600
	Total turn-around time: 26 days
	Sequencing time: 13 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/3/2011	TAI11-03	636	627	0	98.58	1.42	ASIA	Sea-97
2	A/TAI/8/2010	TAI10-08	636	626	0	98.43	1.57	ASIA	Sea-97
3	A/THA 66-1/10* (TRRL)	TAI10-AA	636	626	0	98.43	1.57	ASIA	Sea-97
4	A/THA 69-6/10* (TRRL)	TAI10-AC	636	626	0	98.43	1.57	ASIA	Sea-97
5	A/MAY/4/2011	MAY11-04	636	625	0	98.27	1.73	ASIA	Sea-97
6	A/TAI/1/2011	TAI11-01	636	625	0	98.27	1.73	ASIA	Sea-97
7	A/TAI/7/2010	TAI10-07	636	625	0	98.27	1.73	ASIA	Sea-97
8	A/THA 67-3/10* (TRRL)	TAI10-AB	636	625	0	98.27	1.73	ASIA	Sea-97
9	A/MAY/2/2011	MAY11-02	636	622	0	97.80	2.20	ASIA	Sea-97
10	A/TAI/13/2011	TAI11-13	636	622	0	97.80	2.20	ASIA	Sea-97
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/7/2003 (HQ116312)	TAI03-07	636	600	0	94.34	5.66	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	580	0	91.19	8.81	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	560	0	88.05	11.95	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	528	0	83.02	16.98	ASIA	A22
5	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	524	0	82.39	17.61	ASIA	A15
6	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
7	A/IRN/1/2005 (EF208769)	IRN05-01	636	520	0	81.76	18.24	ASIA	Iran-05
8	A/IRN/78/2009	IRN09-78	636	520	0	81.76	18.24	ASIA	Iran-05 ^{FAR-09}
9	A/TUR/1/2008	TUR08-01	636	520	0	81.76	18.24	ASIA	Iran-05 ^{ARD-07}
10	A/TUR/33/2008	TUR08-33	636	520	0	81.76	18.24	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.1

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Report on FMDV A in Malaysia in 2011

Batch: WRLFMD/2011/00048

◆ indicates viruses in this batch

Software: MEGA 5.0

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 : 639

No Of Bootstrap Reps = 1000

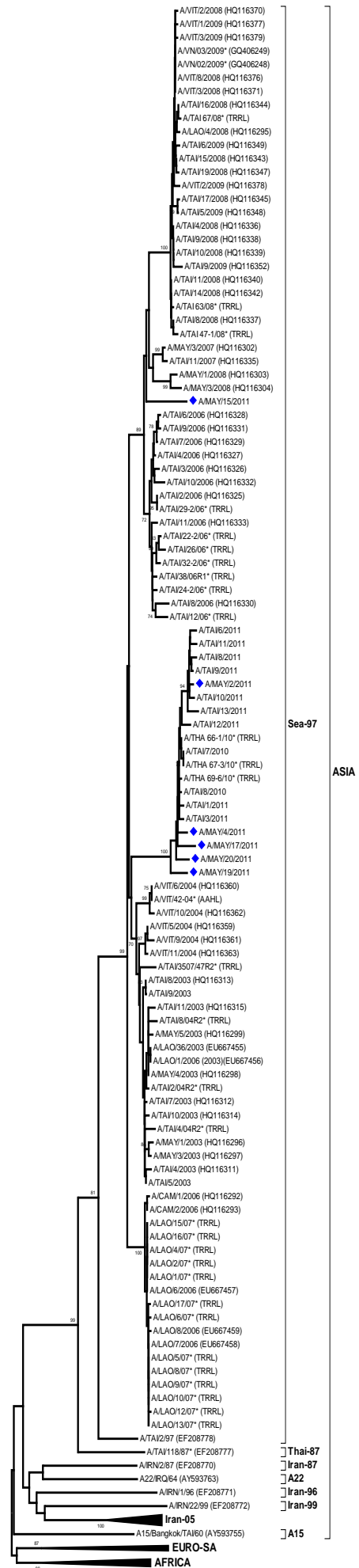
Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 04 January 2012

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Sea-97

ASIA

Iran-87
Iran-87
A22
Iran-96
Iran-99

A15

EURO-SA
AFRICA

0.02