

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

Genotyping Report

Report Date for this Batch: 8 July 2013

FMDV type A

Country: Thailand

Period: 2012-2013

No. of samples: 7

BATCH: WRLFMD/2013/00015



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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: 08/07/2013
WRLFMD Ref No: TAI/13/2012	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 33/12R2B1	
Location: Loei, Thailand	Topotype: ASIA
Date collected: 15/08/2012	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI12-13.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 19/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1651
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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/16/2012	TAI12-16	636	634	0	99.69	0.31	ASIA	Sea-97
2	A/VIT/15/2012	VIT12-15	636	634	0	99.69	0.31	ASIA	Sea-97
3	A/VIT/16/2012	VIT12-16	636	634	0	99.69	0.31	ASIA	Sea-97
4	A/VIT/17/2012	VIT12-17	636	634	0	99.69	0.31	ASIA	Sea-97
5	A/VIT/18/2012	VIT12-18	636	634	0	99.69	0.31	ASIA	Sea-97
6	A/VIT/19/2012	VIT12-19	636	634	0	99.69	0.31	ASIA	Sea-97
7	A/VIT/20/2012	VIT12-20	636	634	0	99.69	0.31	ASIA	Sea-97
8	A/THA 66-1/10* (TRRL)	TAI10-AA	636	627	0	98.58	1.42	ASIA	Sea-97
9	A/TAI/12/2011	TAI11-12	636	626	0	98.43	1.57	ASIA	Sea-97
10	A/TAI/24/2011	TAI11-24	636	626	0	98.43	1.57	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	556	0	87.42	12.58	ASIA	Thai-87
4	A/IRN/2/87 (EF208770)	IRN87-02	633	522	0	82.46	17.54	ASIA	Iran-87
5	A/IRN/78/2009	IRN09-78	636	524	0	82.39	17.61	ASIA	Iran-05 ^{FAR-09}
6	A22/IRQ/64 (AY593763)	IRQ64--A	636	524	0	82.39	17.61	ASIA	A ₂₂
7	A/BAR/6/2008	BAR08-06	636	522	0	82.08	17.92	ASIA	Iran-05 ^{BAR-08}
8	A/AFG/6/2007	AFG07-06	636	520	0	81.76	18.24	ASIA	Iran-05 ^{AFG-07}
9	A/IRN/125/2010	IRN10125	636	520	0	81.76	18.24	ASIA	Iran-05 ^{SIS-10}
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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Serotype: A	Report date: 08/07/2013
WRLFMD Ref No: TAI/15/2012	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 57-1/12R3	
Location: Nakonpathom, Thailand	Topotype: ASIA
Date collected: 03/10/2012	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI12-15.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 19/06/2013	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: 1651
	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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/GDMM-CHA-2013-S (LVRI)	CHA13-AA	636	630	0	99.06	0.94	ASIA	Sea-97
2	A/Zabaikalsky/RUS/2013 (ARRIAH)	RUS13-AA	636	630	0	99.06	0.94	ASIA	Sea-97
3	A/QHXN-CHA-2013-B (LVRI)	CHA13-AB	633	623	0	98.42	1.58	ASIA	Sea-97
4	A/TAI/1/2011	TAI11-01	636	620	0	97.48	2.52	ASIA	Sea-97
5	A/TAI/3/2011	TAI11-03	636	620	0	97.48	2.52	ASIA	Sea-97
6	A/TAI/8/2010	TAI10-08	636	619	0	97.33	2.67	ASIA	Sea-97
7	A/THA 66-1/10* (TRRL)	TAI10-AA	636	619	0	97.33	2.67	ASIA	Sea-97
8	A/THA 69-6/10* (TRRL)	TAI10-AC	636	619	0	97.33	2.67	ASIA	Sea-97
9	A/TAI/7/2010	TAI10-07	636	618	0	97.17	2.83	ASIA	Sea-97
10	A/THA 67-3/10* (TRRL)	TAI10-AB	636	618	0	97.17	2.83	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	596	0	93.71	6.29	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	576	0	90.57	9.43	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	524	0	82.39	17.61	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
7	A/IRN/78/2009	IRN09-78	636	516	0	81.13	18.87	ASIA	Iran-05 ^{FAR-09}
8	A/TUR/1/2008	TUR08-01	636	516	0	81.13	18.87	ASIA	Iran-05 ^{ARD-07}
9	A/BAR/6/2008	BAR08-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{BAR-08}
10	A/IRN/1/2005 (EF208769)	IRN05-01	636	515	0	80.97	19.03	ASIA	Iran-05

nt, nucleotides

*. not a WRLFMD reference number

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Serotype: A	Report date: 08/07/2013
WRLFMD Ref No: TAI/16/2012	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 41-3/12R1B1	
Location: Suphanburi, Thailand	Topotype: ASIA
Date collected: 12/10/2012	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI12-16.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 19/06/2013	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1651
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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/13/2012	TAI12-13	636	634	0	99.69	0.31	ASIA	Sea-97
2	A/VIT/15/2012	VIT12-15	636	632	0	99.37	0.63	ASIA	Sea-97
3	A/VIT/16/2012	VIT12-16	636	632	0	99.37	0.63	ASIA	Sea-97
4	A/VIT/17/2012	VIT12-17	636	632	0	99.37	0.63	ASIA	Sea-97
5	A/VIT/18/2012	VIT12-18	636	632	0	99.37	0.63	ASIA	Sea-97
6	A/VIT/19/2012	VIT12-19	636	632	0	99.37	0.63	ASIA	Sea-97
7	A/VIT/20/2012	VIT12-20	636	632	0	99.37	0.63	ASIA	Sea-97
8	A/TAI/17/2011	TAI11-17	636	625	0	98.27	1.73	ASIA	Sea-97
9	A/THA 66-1/10* (TRRL)	TAI10-AA	636	625	0	98.27	1.73	ASIA	Sea-97
10	A/TAI/12/2011	TAI11-12	636	624	0	98.11	1.89	ASIA	Sea-97
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/find_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	580	0	91.19	8.81	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	556	0	87.42	12.58	ASIA	Thai-87
4	A/IRN/78/2009	IRN09-78	636	524	0	82.39	17.61	ASIA	Iran-05 ^{FAR-09}
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A/BAR/6/2008	BAR08-06	636	522	0	82.08	17.92	ASIA	Iran-05 ^{BAR-08}
7	A22/IRQ/64 (AY593763)	IRQ64--A	636	522	0	82.08	17.92	ASIA	A ₂₂
8	A/AFG/10/2010	AFG10-10	636	521	0	81.92	18.08	ASIA	Iran-05 ^{HER-10}
9	A/AFG/6/2007	AFG07-06	636	520	0	81.76	18.24	ASIA	Iran-05 ^{AFG-07}
10	A/IRN/125/2010	IRN10125	636	520	0	81.76	18.24	ASIA	Iran-05 ^{SIS-10}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 08/07/2013
WRLFMD Ref No: TAI/2/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 6/13R3	
Location: Chaiphum, Thailand	Topotype: ASIA
Date collected: 07/02/2013	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI13-02.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 22/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Total no. of comparisons: 1651
	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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/3/2013	TAI13-03	636	635	0	99.84	0.16	ASIA	Sea-97
2	A/TAI/4/2013	TAI13-04	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/VIT/3/2013	VIT13-03	633	629	0	99.37	0.63	ASIA	Sea-97
4	A/VIT/1/2013	VIT13-01	633	628	0	99.21	0.79	ASIA	Sea-97
5	A/VIT/4/2013	VIT13-04	633	628	0	99.21	0.79	ASIA	Sea-97
6	A/VIT/5/2013	VIT13-05	633	628	0	99.21	0.79	ASIA	Sea-97
7	A/VIT/6/2013	VIT13-06	633	628	0	99.21	0.79	ASIA	Sea-97
8	A/TAI/8/2010	TAI10-08	636	621	0	97.64	2.36	ASIA	Sea-97
9	A/THA 66-1/10* (TRRL)	TAI10-AA	636	621	0	97.64	2.36	ASIA	Sea-97
10	A/THA 69-6/10* (TRRL)	TAI10-AC	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	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	530	0	83.33	16.67	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A/BAR/6/2008	BAR08-06	636	518	0	81.45	18.55	ASIA	Iran-05 ^{BAR-08}
7	A/IRN/78/2009	IRN09-78	636	518	0	81.45	18.55	ASIA	Iran-05 ^{FAR-09}
8	A/IRN/1/96 (EF208771)	IRN96-01	635	517	1	81.42	18.58	ASIA	Iran-96
9	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
10	A/AFG/6/2007	AFG07-06	636	514	0	80.82	19.18	ASIA	Iran-05 ^{AFG-07}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 08/07/2013
WRLFMD Ref No: TAI/3/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 7/13R2B1	
Location: Chaiphum, Thailand	Topotype: ASIA
Date collected: 13/02/2013	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI13-03.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 21/06/2003	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1651
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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/4/2013	TAI13-04	636	636	0	100.00	0.00	ASIA	Sea-97
2	A/TAI/2/2013	TAI13-02	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/VIT/3/2013	VIT13-03	633	628	0	99.21	0.79	ASIA	Sea-97
4	A/VIT/1/2013	VIT13-01	633	627	0	99.05	0.95	ASIA	Sea-97
5	A/VIT/4/2013	VIT13-04	633	627	0	99.05	0.95	ASIA	Sea-97
6	A/VIT/5/2013	VIT13-05	633	627	0	99.05	0.95	ASIA	Sea-97
7	A/VIT/6/2013	VIT13-06	633	627	0	99.05	0.95	ASIA	Sea-97
8	A/TAI/8/2010	TAI10-08	636	620	0	97.48	2.52	ASIA	Sea-97
9	A/THA 66-1/10* (TRRL)	TAI10-AA	636	620	0	97.48	2.52	ASIA	Sea-97
10	A/THA 69-6/10* (TRRL)	TAI10-AC	636	620	0	97.48	2.52	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	579	0	91.04	8.96	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	531	0	83.49	16.51	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
6	A/BAR/6/2008	BAR08-06	636	519	0	81.60	18.40	ASIA	Iran-05 ^{BAR-08}
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	518	0	81.45	18.55	ASIA	A15
8	A/IRN/78/2009	IRN09-78	636	517	0	81.29	18.71	ASIA	Iran-05 ^{FAR-09}
9	A/IRN/1/96 (EF208771)	IRN96-01	635	516	1	81.26	18.74	ASIA	Iran-96
10	A/AFG/6/2007	AFG07-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{AFG-07}

nt, nucleotides

*. not a WRLFMD reference number

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Serotype: A	Report date: 08/07/2013
WRLFMD Ref No: TAI/4/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 8-2/13R3B1	
Location: Saraburi, Thailand	Topotype: ASIA
Date collected: 15/02/2013	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI13-04.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 21/06/2003	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1651
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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/3/2013	TAI13-03	636	636	0	100.00	0.00	ASIA	Sea-97
2	A/TAI/2/2013	TAI13-02	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/VIT/3/2013	VIT13-03	633	628	0	99.21	0.79	ASIA	Sea-97
4	A/VIT/1/2013	VIT13-01	633	627	0	99.05	0.95	ASIA	Sea-97
5	A/VIT/4/2013	VIT13-04	633	627	0	99.05	0.95	ASIA	Sea-97
6	A/VIT/5/2013	VIT13-05	633	627	0	99.05	0.95	ASIA	Sea-97
7	A/VIT/6/2013	VIT13-06	633	627	0	99.05	0.95	ASIA	Sea-97
8	A/TAI/8/2010	TAI10-08	636	620	0	97.48	2.52	ASIA	Sea-97
9	A/THA 66-1/10* (TRRL)	TAI10-AA	636	620	0	97.48	2.52	ASIA	Sea-97
10	A/THA 69-6/10* (TRRL)	TAI10-AC	636	620	0	97.48	2.52	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	579	0	91.04	8.96	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	531	0	83.49	16.51	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
6	A/BAR/6/2008	BAR08-06	636	519	0	81.60	18.40	ASIA	Iran-05 ^{BAR-08}
7	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	518	0	81.45	18.55	ASIA	A15
8	A/IRN/78/2009	IRN09-78	636	517	0	81.29	18.71	ASIA	Iran-05 ^{FAR-09}
9	A/IRN/1/96 (EF208771)	IRN96-01	635	516	1	81.26	18.74	ASIA	Iran-96
10	A/AFG/6/2007	AFG07-06	636	515	0	80.97	19.03	ASIA	Iran-05 ^{AFG-07}

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: 08/07/2013
WRLFMD Ref No: TAI/5/2013	Reported by: N.J. Knowles
Batch No: WRLFMD/2013/00015	Checked by: D.P. King
Sender Ref: 10-2/13R2B1	
Location: Saraburi, Thailand	Topotype: ASIA
Date collected: 27/02/2013	Genotype/strain: Sea-97
Date received by WRLFMD: 17/06/2013	Sequence filename: TAI13-05.SEQ
Date received for sequencing: 03/07/2013	Date sequence last updated: 05/07/2013
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 22/06/2013	No. of ambiguities: 0
Region sequenced: VPI	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 1651
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 21 days
	Sequencing time: 5 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 (HQ116352)	TAI09-09	636	623	0	97.96	2.04	ASIA	Sea-97
2	A/TAI/8/2009 (HQ116351)	TAI09-08	636	622	0	97.80	2.20	ASIA	Sea-97
3	A/TAI/10/2008 (HQ116339)	TAI08-10	636	621	0	97.64	2.36	ASIA	Sea-97
4	A/TAI/4/2008 (HQ116336)	TAI08-04	636	621	0	97.64	2.36	ASIA	Sea-97
5	A/TAI/7/2009 (HQ116350)	TAI09-07	636	621	0	97.64	2.36	ASIA	Sea-97
6	A/TAI/9/2008 (HQ116338)	TAI08-09	636	621	0	97.64	2.36	ASIA	Sea-97
7	A/LAO/4/2008 (HQ116295)	LAO08-04	636	620	0	97.48	2.52	ASIA	Sea-97
8	A/TAI/11/2008 (HQ116340)	TAI08-11	636	620	0	97.48	2.52	ASIA	Sea-97
9	A/TAI/14/2008 (HQ116342)	TAI08-14	636	620	0	97.48	2.52	ASIA	Sea-97
10	A/TAI/16/2008 (HQ116344)	TAI08-16	636	620	0	97.48	2.52	ASIA	Sea-97

Most Closely Related Reference Viruses

(see http://www.wrlfmd.org/find_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	596	0	93.71	6.29	ASIA	Sea-97
2	A/TAI/2/97 (EF208778)	TAI97-02	636	573	0	90.09	9.91	ASIA	Sea-97
3	A/TAI/118/87* (EF208777)	TAI87-AD	636	559	0	87.89	12.11	ASIA	Thai-87
4	A/IRN/2/87 (EF208770)	IRN87-02	633	521	0	82.31	17.69	ASIA	Iran-87
5	A/AFG/10/2010	AFG10-10	636	522	0	82.08	17.92	ASIA	Iran-05 ^{HER-10}
6	A22/IRQ/64 (AY593763)	IRQ64--A	636	522	0	82.08	17.92	ASIA	A ₂₂
7	A/IRN/78/2009	IRN09-78	636	519	0	81.60	18.40	ASIA	Iran-05 ^{FAR-09}
8	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
9	A/AFG/6/2007	AFG07-06	636	516	0	81.13	18.87	ASIA	Iran-05 ^{AFG-07}
10	A/TUR/33/2008	TUR08-33	636	516	0	81.13	18.87	ASIA	Iran-05 ^{EZM-07}

nt, nucleotides

*, not a WRLFMD reference number

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