

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

Genotyping Report

Report Date for this Batch: 24 February 2016

FMDV type A

Country: Thailand

Period: 2015

No. of samples: 6

BATCH: WRLFMD/2015/00032



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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/12/2015 Batch No: WRLFMD/2015/00032 Sender Ref: 40-2/15R3B3 Location: Suankouy, Banpong, Ratchaburi, Thailand Date collected: 07/04/2015 Date received by WRLFMD: 26/11/2015 Date received for sequencing: 11/02/2016 Species: Pig Material used: RS1 30/01/2016 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 24/02/2016 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Sea-97 Sequence filename: TAI15-12.SEQ Date sequence last updated: 13/02/2016 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 2119 Min. no. of nt for comparison: 600 Total turn-around time: 90 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/17/2014	TAI14-17	636	636	0	100.00	0.00	ASIA	Sea-97
2	A/TAI/24/2015	TAI15-24	636	636	0	100.00	0.00	ASIA	Sea-97
3	A/LAO/1/2015	LAO15-01	636	635	0	99.84	0.16	ASIA	Sea-97
4	A/MYA/2/2015	MYA15-02	636	635	0	99.84	0.16	ASIA	Sea-97
5	A/MYA/3/2015	MYA15-03	636	635	0	99.84	0.16	ASIA	Sea-97
6	A/MYA/4/2015	MYA15-04	636	635	0	99.84	0.16	ASIA	Sea-97
7	A/TAI/13/2015	TAI15-13	636	635	0	99.84	0.16	ASIA	Sea-97
8	A/TAI/21/2014	TAI14-21	636	635	0	99.84	0.16	ASIA	Sea-97
9	A/TAI/21/2015	TAI15-21	636	635	0	99.84	0.16	ASIA	Sea-97
10	A/TAI/23/2015	TAI15-23	636	635	0	99.84	0.16	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	575	0	90.41	9.59	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	525	0	82.55	17.45	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
7	A/GHA/16/73 (KF561698)	GHA73-16	633	514	0	81.20	18.80	AFRICA	G-VI
8	A/IRN/1/2011	IRN11-01	636	516	0	81.13	18.87	ASIA	Iran-05 ^{FAR-11}
9	A/IRN/78/2009	IRN09-78	636	516	0	81.13	18.87	ASIA	Iran-05 ^{FAR-09}
10	A/IND/40/2000* (1999;AF390646)	IND00-40	636	515	0	80.97	19.03	ASIA	G-VII

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 24/02/2016
WRLFMD Ref No: TAI/13/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00032	Checked by: K. Bachanek-Bankowska
Sender Ref: 46-1/15R1B2	
Location: Houyyap, Banthi, Lumphon, Thailand	Topotype: ASIA
Date collected: 30/04/2015	Genotype/strain: Sea-97
Date received by WRLFMD: 26/11/2015	Sequence filename: TAI15-13.SEQ
Date received for sequencing: 19/02/2016	Date sequence last updated: 24/02/2016
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 09/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2119
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 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/12/2015	TAI15-12	636	635	0	99.84	0.16	ASIA	Sea-97
2	A/TAI/17/2014	TAI14-17	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/TAI/24/2015	TAI15-24	636	635	0	99.84	0.16	ASIA	Sea-97
4	A/LAO/1/2015	LAO15-01	636	634	0	99.69	0.31	ASIA	Sea-97
5	A/MYA/2/2015	MYA15-02	636	634	0	99.69	0.31	ASIA	Sea-97
6	A/MYA/3/2015	MYA15-03	636	634	0	99.69	0.31	ASIA	Sea-97
7	A/MYA/4/2015	MYA15-04	636	634	0	99.69	0.31	ASIA	Sea-97
8	A/TAI/21/2014	TAI14-21	636	634	0	99.69	0.31	ASIA	Sea-97
9	A/TAI/21/2015	TAI15-21	636	634	0	99.69	0.31	ASIA	Sea-97
10	A/TAI/23/2015	TAI15-23	636	634	0	99.69	0.31	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	574	0	90.25	9.75	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	519	0	81.99	18.01	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	516	0	81.13	18.87	ASIA	A15
7	A/GHA/16/73 (KF561698)	GHA73-16	633	513	0	81.04	18.96	AFRICA	G-VI
8	A/IRN/1/2011	IRN11-01	636	515	0	80.97	19.03	ASIA	Iran-05 ^{FAR-11}
9	A/IRN/78/2009	IRN09-78	636	515	0	80.97	19.03	ASIA	Iran-05 ^{FAR-09}
10	A/IND/40/2000* (1999;AF390646)	IND00-40	636	514	0	80.82	19.18	ASIA	G-VII

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 24/02/2016
WRLFMD Ref No: TAI/15/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00032	Checked by: K. Bachanek-Bankowska
Sender Ref: 51-1/15R3B2	
Location: Arauwnoy, Maung, Prajubkirikun, Thailand	Topotype: ASIA
Date collected: 11/05/2015	Genotype/strain: Sea-97
Date received by WRLFMD: 26/11/2015	Sequence filename: TAI15-15.SEQ
Date received for sequencing: 19/02/2016	Date sequence last updated: 24/02/2016
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 09/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2119
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 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/6/2014	TAI14-06	636	620	0	97.48	2.52	ASIA	Sea-97
2	A/VIT/58/2013	VIT13-58	636	620	0	97.48	2.52	ASIA	Sea-97
3	A/VIT/62/2013	VIT13-62	636	620	0	97.48	2.52	ASIA	Sea-97
4	A/VIT/63/2013	VIT13-63	636	620	0	97.48	2.52	ASIA	Sea-97
5	A/TAI/9/2014	TAI14-09	636	618	0	97.17	2.83	ASIA	Sea-97
6	A/TAI/3/2014	TAI14-03	633	615	0	97.16	2.84	ASIA	Sea-97
7	A/MAY/17/2013	MAY13-17	636	617	0	97.01	2.99	ASIA	Sea-97
8	A/TAI/5/2014	TAI14-05	636	617	0	97.01	2.99	ASIA	Sea-97
9	A/TAI/8/2014	TAI14-08	636	617	0	97.01	2.99	ASIA	Sea-97
10	A/VIT/1/2014	VIT14-01	636	617	0	97.01	2.99	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	589	0	92.61	7.39	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	560	0	88.05	11.95	ASIA	Thai-87
4	A/IRN/1/2011	IRN11-01	636	523	0	82.23	17.77	ASIA	Iran-05 ^{FAR-11}
5	A22/IRQ/64 (AY593763)	IRQ64--A	636	523	0	82.23	17.77	ASIA	A ₂₂
6	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
7	A/IRN/15/2012	IRN12-15	636	517	0	81.29	18.71	ASIA	Iran-05 ^{SIS-12}
8	A/IRN/78/2009	IRN09-78	636	517	0	81.29	18.71	ASIA	Iran-05 ^{FAR-09}
9	A/TUR/3/2010	TUR10-03	636	516	0	81.13	18.87	ASIA	Iran-05 ^{KSS-09}
10	A12/UK/119/32 (M10975)	UKG32119	636	516	0	81.13	18.87	EURO-SA	A ₁₂

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A WRLFMD Ref No: TAI/21/2015 Batch No: WRLFMD/2015/00032 Sender Ref: 83/15R3B3 Location: Suanpan, Maung, Nakhonpratom, Thailand Date collected: 04/09/2015 Date received by WRLFMD: 26/11/2015 Date received for sequencing: 19/02/2016 Species: Cattle Material used: BTy1 12/02/2016 Region sequenced: VP1 RT-PCR primers: A-1C562F/EUR-2B52R A-1C612F/EUR-2B52R	Report date: 24/02/2016 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ASIA Genotype/strain: Sea-97 Sequence filename: TAI15-21.SEQ Date sequence last updated: 24/02/2016 No. of Nt determined: 636 No. of ambiguities: 0 Gene length: 636 Total no. of comparisons: 2119 Min. no. of nt for comparison: 600 Total turn-around time: 90 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/12/2015	TAI15-12	636	635	0	99.84	0.16	ASIA	Sea-97
2	A/TAI/17/2014	TAI14-17	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/TAI/24/2015	TAI15-24	636	635	0	99.84	0.16	ASIA	Sea-97
4	A/LAO/1/2015	LAO15-01	636	634	0	99.69	0.31	ASIA	Sea-97
5	A/MYA/2/2015	MYA15-02	636	634	0	99.69	0.31	ASIA	Sea-97
6	A/MYA/3/2015	MYA15-03	636	634	0	99.69	0.31	ASIA	Sea-97
7	A/MYA/4/2015	MYA15-04	636	634	0	99.69	0.31	ASIA	Sea-97
8	A/TAI/13/2015	TAI15-13	636	634	0	99.69	0.31	ASIA	Sea-97
9	A/TAI/21/2014	TAI14-21	636	634	0	99.69	0.31	ASIA	Sea-97
10	A/TAI/23/2015	TAI15-23	636	634	0	99.69	0.31	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	558	0	87.74	12.26	ASIA	Thai-87
4	A22/IRQ/64 (AY593763)	IRQ64--A	636	526	0	82.70	17.30	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	518	0	81.45	18.55	ASIA	A15
7	A/IRN/1/2011	IRN11-01	636	517	0	81.29	18.71	ASIA	Iran-05 ^{FAR-11}
8	A/IRN/78/2009	IRN09-78	636	517	0	81.29	18.71	ASIA	Iran-05 ^{FAR-09}
9	A/TUR/1/2008 (FJ755133)	TUR08-01	636	516	0	81.13	18.87	ASIA	Iran-05 ^{ARD-07}
10	A/GHA/16/73 (KF561698)	GHA73-16	633	513	0	81.04	18.96	AFRICA	G-VI

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 24/02/2016
WRLFMD Ref No: TAI/23/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00032	Checked by: K. Bachanek-Bankowska
Sender Ref: 87-1/15R3B2	
Location: Sribuaban, Maung, Lumphon, Thailand	Topotype: ASIA
Date collected: 10/09/2015	Genotype/strain: Sea-97
Date received by WRLFMD: 26/11/2015	Sequence filename: TAI15-23.SEQ
Date received for sequencing: 19/02/2016	Date sequence last updated: 24/02/2016
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 12/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2119
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 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/12/2015	TAI15-12	636	635	0	99.84	0.16	ASIA	Sea-97
2	A/TAI/17/2014	TAI14-17	636	635	0	99.84	0.16	ASIA	Sea-97
3	A/TAI/24/2015	TAI15-24	636	635	0	99.84	0.16	ASIA	Sea-97
4	A/LAO/1/2015	LAO15-01	636	634	0	99.69	0.31	ASIA	Sea-97
5	A/MYA/2/2015	MYA15-02	636	634	0	99.69	0.31	ASIA	Sea-97
6	A/MYA/3/2015	MYA15-03	636	634	0	99.69	0.31	ASIA	Sea-97
7	A/MYA/4/2015	MYA15-04	636	634	0	99.69	0.31	ASIA	Sea-97
8	A/TAI/13/2015	TAI15-13	636	634	0	99.69	0.31	ASIA	Sea-97
9	A/TAI/21/2014	TAI14-21	636	634	0	99.69	0.31	ASIA	Sea-97
10	A/TAI/21/2015	TAI15-21	636	634	0	99.69	0.31	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	574	0	90.25	9.75	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	519	0	81.99	18.01	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	516	0	81.13	18.87	ASIA	A15
7	A/GHA/16/73 (KF561698)	GHA73-16	633	513	0	81.04	18.96	AFRICA	G-VI
8	A/IND/40/2000* (1999;AF390646)	IND00-40	636	515	0	80.97	19.03	ASIA	G-VII
9	A/IRN/1/2011	IRN11-01	636	515	0	80.97	19.03	ASIA	Iran-05 ^{FAR-11}
10	A/IRN/78/2009	IRN09-78	636	515	0	80.97	19.03	ASIA	Iran-05 ^{FAR-09}

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: A	Report date: 24/02/2016
WRLFMD Ref No: TAI/24/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00032	Checked by: K. Bachanek-Bankowska
Sender Ref: 89-1/15R2B3	
Location: Maytha, Mayorn, Chiangmai, Thailand	Topotype: ASIA
Date collected: 23/09/2015	Genotype/strain: Sea-97
Date received by WRLFMD: 26/11/2015	Sequence filename: TAI15-24.SEQ
Date received for sequencing: 19/02/2016	Date sequence last updated: 24/02/2016
Species: Cattle	No. of Nt determined: 636
Material used: BTy1 12/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 636
RT-PCR primers: A-1C562F/EUR-2B52R	Total no. of comparisons: 2119
A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 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/12/2015	TAI15-12	636	636	0	100.00	0.00	ASIA	Sea-97
2	A/TAI/17/2014	TAI14-17	636	636	0	100.00	0.00	ASIA	Sea-97
3	A/LAO/1/2015	LAO15-01	636	635	0	99.84	0.16	ASIA	Sea-97
4	A/MYA/2/2015	MYA15-02	636	635	0	99.84	0.16	ASIA	Sea-97
5	A/MYA/3/2015	MYA15-03	636	635	0	99.84	0.16	ASIA	Sea-97
6	A/MYA/4/2015	MYA15-04	636	635	0	99.84	0.16	ASIA	Sea-97
7	A/TAI/13/2015	TAI15-13	636	635	0	99.84	0.16	ASIA	Sea-97
8	A/TAI/21/2014	TAI14-21	636	635	0	99.84	0.16	ASIA	Sea-97
9	A/TAI/21/2015	TAI15-21	636	635	0	99.84	0.16	ASIA	Sea-97
10	A/TAI/23/2015	TAI15-23	636	635	0	99.84	0.16	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	575	0	90.41	9.59	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	525	0	82.55	17.45	ASIA	A ₂₂
5	A/IRN/2/87 (EF208770)	IRN87-02	633	520	0	82.15	17.85	ASIA	Iran-87
6	A15/Bangkok/TAI/60 (AY593755)	TAI60--D	636	517	0	81.29	18.71	ASIA	A15
7	A/GHA/16/73 (KF561698)	GHA73-16	633	514	0	81.20	18.80	AFRICA	G-VI
8	A/IRN/1/2011	IRN11-01	636	516	0	81.13	18.87	ASIA	Iran-05 ^{FAR-11}
9	A/IRN/78/2009	IRN09-78	636	516	0	81.13	18.87	ASIA	Iran-05 ^{FAR-09}
10	A/IND/40/2000* (1999;AF390646)	IND00-40	636	515	0	80.97	19.03	ASIA	G-VII

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.3

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Report on FMDV A in Thailand in 2015

Batch: WRLFMD/2015/00032

◆ indicates viruses in this batch

Software: MEGA 6.06

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

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N.J. Knowles, J. Wadsworth &
K. Bachanek-Bankowska,
24 February 2016

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