



# Institute for Animal Health

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To:

Fax Number:

To:

Email:

From:

Date: 11<sup>th</sup> May 2009

Subject: Sequencing Report

No. Of Pages: 4

FAX

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Thank you.

Dear [REDACTED]

**Virus isolates: ASIA 1 BAR/8/2009 and ASIA 1 BAR/9/2009**

Sequencing work has now been completed in respect of the above virus isolates received at IAH Pirbright on 1<sup>st</sup> of May 2009 and the details are as attached. Please note all of our phylogenetic trees can be accessed via the internet at:

[http://www.iah.bbsrc.ac.uk/primary\\_index/current\\_research/virus/Picomaviridae/Aphthovirus/index.html](http://www.iah.bbsrc.ac.uk/primary_index/current_research/virus/Picomaviridae/Aphthovirus/index.html)

Yours sincerely

[REDACTED]  
Head: World Reference Laboratory for FMD

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The Institute is sponsored by the Biotechnology and Biological Sciences Research Council. An Associated Institute of the University of Reading.

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# Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

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Serotype: ASIA1 WRL Ref No: BAR/8/2009 Sender Ref: 0448 Date collected: 25/04/2009 Date received by WRLFMD: 01/05/2009 Date received for sequencing: 07/05/2009 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: As1-1C530F/EUR-2B52R; As1-1C613F/EUR-2B52R No. of Nt determined: 633 No. of ambiguities: 0 Gene length: 633	Report date: 09/05/2009 Reported by: N.J. Knowles Checked by: D.P. King  Topotype: none defined Genotype/strain: none designated Sequence filename: BAR09-08.SEQ Date sequence last updated: 08/05/2009 Total no. of comparisons: 333 Min. no. of nt for comparison: 300 Total turn-around time: 8 days Sequencing time: 2 days
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Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/BAR/9/2009	BAR09-09	633	633	0	100	0
2	As1/IND/107/99* [AF392900]	IND99-AD	631	581	0	92.08	7.92
3	As1/IND/278/99* [AF392934]	IND99-AL	631	579	0	91.76	8.24
4	As1/IRN/30/2004	IRN04-30	631	577	0	91.44	8.56
5	As1/IND/102/99* [AF392897]	IND99-AA	631	576	0	91.28	8.72
6	As1/IRN/10/2004 [DQ121119]	IRN04-10	631	576	0	91.28	8.72
7	As1/BAN/4/96	BAN96-04	631	575	0	91.13	8.87
8	As1/IND/92/99* [AF392925]	IND99-AJ	631	574	0	90.97	9.03
9	As1/BAN/2/96	BAN96-02	631	573	0	90.81	9.19
10	As1/IND/390/97* [AF392940]	IND97-AF	631	573	0	90.81	9.19

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79 (EU553910)	IND79-08	631	562	0	89.06	10.94
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	631	562	0	89.06	10.94
3	As1/Shamir/ISR/89	ISR89-A	631	554	0	87.8	12.2
4	As1/Petchaburi/TAI/85 vs	TAI85-AA	631	546	0	86.53	13.47
5	As1/IND/63/72 [Y09949]	IND72B63	628	540	0	85.99	14.01
6	As1/CAM/9/80	CAM80-09	631	539	0	85.42	14.58
7	As1/Kimron/ISR/57 (AY593797)	ISR57KIM	631	538	0	85.26	14.74
8	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	631	530	0	83.99	16.01
9	As1/PAK/1/54	PAK54-01	628	527	0	83.92	16.08

nt, nucleotides

\*, not a WRLFMD reference number

# Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

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