

Serotype: ASIA1	Report date: 12/10/2005
WRL Ref No: PAK/19/2005	
Sender Ref: 6	
Date collected: 25/01/2005	
Date received by WRLFMD: 25/08/2005	Topotype: none defined
Date received for sequencing: 02/09/2005	Genotype/strain: none designated
Species: Cattle	Sequence filename: PAK05-19.SEQ
Material used: BTy1	Date sequence last updated: 12/10/2005
Region sequenced: VP1	Total no. of comparisons: 374
RT-PCR primers: As1-1C530F/EUR-2B52R;	Min. no. of nt for comparison: 300
As1-1C616F/EUR-2B52R	Total turn-around time: 48 days
No. of Nt determined: 633	Sequencing time: 40 days
No. of ambiguities: 0	
Gene length: 633	

Comments: FMDV type O was also present in this sample.

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/PAK/22/2005	PAK05-22	633	633	0	100	0
2	As1/PAK/20/2003 [DQ121126]	PAK03-20	631	629	2	99.68	0.32
3	As1/PAK/3/98	PAK98-03	607	600	6	98.85	1.15
4	As1/TUR/10/99 [DQ121131]	TUR99-10	633	621	0	98.1	1.9
5	As1/TUR/8/99 [DQ121130]	TUR99-08	633	621	0	98.1	1.9
6	As1/IRN/58/99 [DQ121122]	IRN99-58	633	621	0	98.1	1.9
7	As1/ARM/2000 [ARRIAH]	ARM00-AA	611	599	1	98.04	1.96
8	As1/GRG/2000 [ARRIAH]	GRG00-AA	622	609	11	97.91	2.09
9	As1/GRE/2/2000 [DQ121113]	GRE00-02	633	619	0	97.79	2.21
10	As1/TUR/6/2000	TUR00-06	633	619	0	97.79	2.21

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	589	0	93.05	6.95
2	As1/IND/8/79	IND79-08	633	583	0	92.1	7.9
3	As1/Shamir/ISR/89	ISR89--A	633	567	0	89.57	10.43
4	As1/TAI/85	TAI85-AA	590	504	1	85.42	14.58
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	633	539	0	85.15	14.85
6	As1/IND/63/72 [Y09949]	IND72B63	630	534	0	84.76	15.24
7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	533	0	84.2	15.8
8	As1/CAM/9/80	CAM80-09	633	529	0	83.57	16.43
9	As1/PAK/1/54	PAK54-01	630	511	0	81.11	18.89

nt, nucleotides

*, not a WRLFMD reference number

Serotype: ASIA1	Report date: 12/10/2005
WRL Ref No: PAK/22/2005	
Sender Ref: 11	
Date collected: 07/02/2005	
Date received by WRLFMD: 25/08/2005	Topotype: none defined
Date received for sequencing: 02/09/2005	Genotype/strain: none designated
Species: Cattle	Sequence filename: PAK05-22.SEQ
Material used: BTy1	Date sequence last updated: 12/10/2005
Region sequenced: VP1	Total no. of comparisons: 374
RT-PCR primers: As1-1C530F/EUR-2B52R; As1-1C616F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 633	Total turn-around time: 48 days
No. of ambiguities: 0	Sequencing time: 40 days
Gene length: 633	

Comments: FMDV type O was also present in this sample.

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5	As1/TUR/8/99 [DQ121130]	TUR99-08	633	621	0	98.1	1.9
6	As1/IRN/58/99 [DQ121122]	IRN99-58	633	621	0	98.1	1.9
7	As1/ARM/2000 [ARRIAH]	ARM00-AA	611	599	1	98.04	1.96
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10	As1/TUR/6/2000	TUR00-06	633	619	0	97.79	2.21

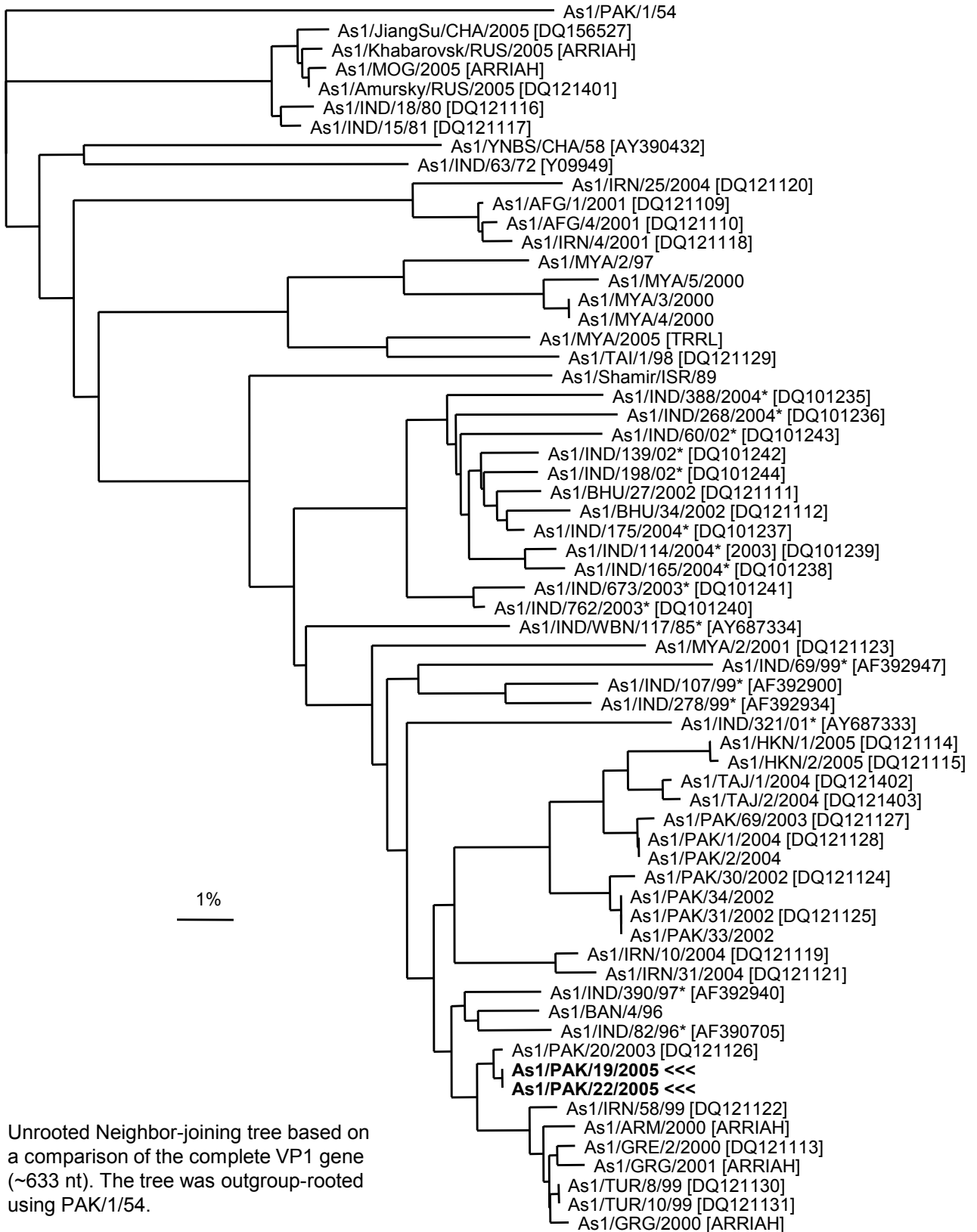
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7	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	533	0	84.2	15.8
8	As1/CAM/9/80	CAM80-09	633	529	0	83.57	16.43
9	As1/PAK/1/54	PAK54-01	630	511	0	81.11	18.89

nt, nucleotides

*, not a WRLFMD reference number

Report on Asia 1 Pakistan 2005



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene (~633 nt). The tree was outgroup-rooted using PAK/1/54.

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