

Serotype: ASIA1	Report date: 13/07/2005
WRL Ref No: Georgia/2000	
Date collected: 2000	
Date received by WRLFMD: 08/07/2005 (seq only)	Topotype: none defined
Species: Cattle	Genotype/strain: none designated
Material used: not known	Sequence filename: GRG00-AA.SEQ
Region sequenced: VP1	Date sequence last updated: 08/07/2005
RT-PCR primers: not known	Total no. of comparisons: 364
No. of Nt determined: 622	Min. no. of nt for comparison: 300
No. of ambiguities: 11	Total turn-around time: 5 days
Gene length: 633	

Comments: VP1 sequence sent from Dr. V.M. Zakharov & Dr. A.V. Scherbakov, ARRIAH.

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TUR/10/99 [DQ121131]	TUR99-10	622	619	11	99.52	0.48
2	As1/TUR/8/99 [DQ121130]	TUR99-08	622	619	11	99.52	0.48
3	As1/TUR/6/2000	TUR00-06	622	618	11	99.36	0.64
4	As1/GRE/2/2000 [DQ121113]	GRE00-02	622	617	11	99.2	0.8
5	As1/GRG/2001 [ARRIAH]	GRG01-AA	622	616	11	99.04	0.96
6	As1/ARM/2000 [ARRIAH]	ARM00-AA	609	603	3	99.01	0.99
7	As1/TUR/3/2000	TUR00-03	622	615	11	98.87	1.13
8	As1/IRN/58/99 [DQ121122]	IRN99-58	622	615	11	98.87	1.13
9	As1/PAK/20/2003 [DQ121126]	PAK03-20	620	607	13	97.9	2.1
10	As1/PAK/3/98	PAK98-03	597	579	16	96.98	3.02

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	622	567	11	91.16	8.84
2	As1/IND/8/79	IND79-08	622	563	11	90.51	9.49
3	As1/Shamir/ISR/89	ISR89--A	622	552	11	88.75	11.25
4	As1/TAI/85 vs	TAI85-AA	587	498	4	84.84	15.16
5	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	622	524	11	84.24	15.76
6	As1/CAM/9/80	CAM80-09	622	523	11	84.08	15.92
7	As1/IND/63/72 [Y09949]	IND72B63	619	520	11	84.01	15.99
8	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	622	516	11	82.96	17.04
9	As1/PAK/1/54	PAK54-01	619	491	11	79.32	20.68

nt, nucleotides

*, not a WRLFMD reference number

Serotype: ASIA1	Report date: 13/07/2005
WRL Ref No: Georgia/2001	
Date collected: 2001	
Date received by WRLFMD: 08/07/2005 (seq only)	
Species: Cattle	Topotype: none defined
Material used: not known	Genotype/strain: none designated
Region sequenced: VP1	Sequence filename: GRG01-AA.SEQ
RT-PCR primers: not known	Date sequence last updated: 08/07/2005
No. of Nt determined: 625	Total no. of comparisons: 364
No. of ambiguities: 8	Min. no. of nt for comparison: 300
Gene length: 633	Total turn-around time: 5 days

Comments: VP1 sequence sent from Dr. V.M. Zakharov & Dr. A.V. Scherbakov, ARRIAH.

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/TUR/6/2000	TUR00-06	625	621	8	99.36	0.64
2	As1/TUR/10/99 [DQ121131]	TUR99-10	625	620	8	99.2	0.8
3	As1/GRE/2/2000 [DQ121113]	GRE00-02	625	620	8	99.2	0.8
4	As1/TUR/8/99 [DQ121130]	TUR99-08	625	620	8	99.2	0.8
5	As1/GRG/2000 [ARRIAH]	GRG00-AA	622	616	11	99.04	0.96
6	As1/ARM/2000 [ARRIAH]	ARM00-AA	611	603	1	98.69	1.31
7	As1/TUR/3/2000	TUR00-03	625	616	8	98.56	1.44
8	As1/IRN/58/99 [DQ121122]	IRN99-58	625	616	8	98.56	1.44
9	As1/PAK/20/2003 [DQ121126]	PAK03-20	623	608	10	97.59	2.41
10	As1/PAK/3/98	PAK98-03	599	580	14	96.83	3.17

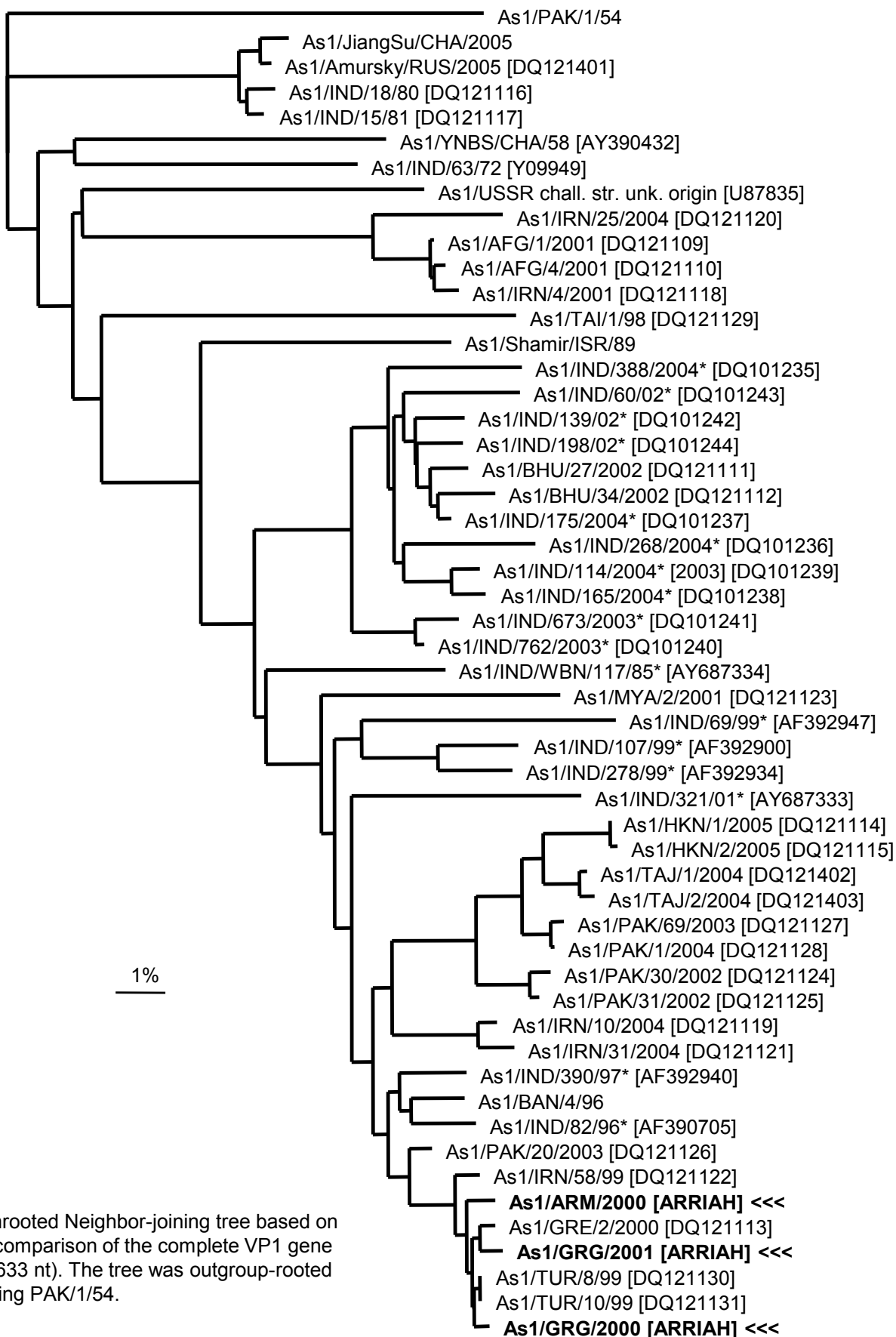
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/WBN/117/85* [AY687334]	IND85-AA	625	572	8	91.52	8.48
2	As1/IND/8/79	IND79-08	625	566	8	90.56	9.44
3	As1/Shamir/ISR/89	ISR89--A	625	555	8	88.8	11.2
4	As1/TAI/85 vs	TAI85-AA	590	500	1	84.75	15.25
5	As1/IND/63/72 [Y09949]	IND72B63	622	525	8	84.41	15.59
6	As1/Kimron/ISR/57 [AY593797]	ISR57KIM	625	525	8	84	16
7	As1/CAM/9/80	CAM80-09	625	524	8	83.84	16.16
8	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	625	518	8	82.88	17.12
9	As1/PAK/1/54	PAK54-01	622	495	8	79.58	20.42

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV Asia 1 – Armenia 2000 & Georgia 2000-01



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