

Serotype: ASIA1				Report date: 14/02/2005			
WRL Ref No: IRN/25/2004				Reported by: N.J. Knowles			
Date collected: 08/11/2004				Checked by: J.-F. Valarcher			
Date received by WRLFMD: 27/01/2005							
Date received for sequencing: 04/02/2005				Topotype: none designated			
Species: Cattle				Genotype/strain: none designated			
Material used: BTy1				Sequence filename: IRN04-25.SEQ			
Region sequenced: VP1				Date sequence last updated: 14/02/2005			
RT-PCR primers: As1-1C530F/NK61				Total no. of comparisons: 320			
No. of Nt determined: 633				Min. no. of nt for comparison: 300			
No. of ambiguities: 0				Total turn-around time: 18 days			
Gene length: 633				Sequencing time: 10 days			
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IRN/25/2001	IRN01-25	633	609	0	96.21	3.79
2	As1/IRN/11/2001	IRN01-11	633	609	0	96.21	3.79
3	As1/AFG/3/2001	AFG01-03	633	608	0	96.05	3.95
4	As1/AFG/4/2001	AFG01-04	633	608	0	96.05	3.95
5	As1/AFG/1/2001	AFG01-01	633	608	0	96.05	3.95
6	As1/AFG/2/2001	AFG01-02	633	607	0	95.89	4.11
7	As1/IRN/4/2001	IRN01-04	633	605	0	95.58	4.42
8	As1/IRN/63/2001	IRN01-63	633	604	0	95.42	4.58
9	As1/AFG/4/71	AFG71-04	337	291	3	86.35	13.65
10	As1/TAI/1/87	TAI87-01	455	390	7	85.71	14.29
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	IND79-08	166	144	2	86.75	13.25
2	As1/TAI/85 vs	TAI85-AA	590	498	1	84.41	15.59
3	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	532	0	84.04	15.96
4	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	530	0	83.73	16.27
5	As1/CAM/9/80	CAM80-09	583	485	5	83.19	16.81
6	As1/Shamir/ISR/89	ISR89--A	633	526	0	83.1	16.9
7	As1/IND/63/72 [Y09949]	IND72B63	630	523	0	83.02	16.98
8	As1/PAK/1/54	PAK54-01	630	520	0	82.54	17.46
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: ASIA1	Report date: 14/02/2005
WRL Ref No: IRN/30/2004	Reported by: N.J. Knowles
Date collected: not known	Checked by: J.-F. Valarcher
Date received by WRLFMD: 27/01/2005	
Date received for sequencing: 04/02/2005	Topotype: none designated
Species: not known	Genotype/strain: none designated
Material used: BTy1	Sequence filename: IRN04-30.SEQ
Region sequenced: VP1	Date sequence last updated: 14/02/2005
RT-PCR primers: As1-1C530F/NK61	Total no. of comparisons: 320
No. of Nt determined: 633	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 18 days
Gene length: 633	Sequencing time: 10 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IRN/10/2004	IRN04-10	633	628	0	99.21	0.79
2	As1/IRN/31/2004	IRN04-31	633	625	0	98.74	1.26
3	As1/PAK/20/2003	PAK03-20	631	607	2	96.2	3.8
4	As1/PAK/3/98	PAK98-03	607	580	6	95.55	4.45
5	As1/IND/316/94* [AF390688]	IND94-AA	570	544	63	95.44	4.56
6	As1/PAK/34/2002	PAK02-34	633	603	0	95.26	4.74
7	As1/PAK/33/2002	PAK02-33	633	603	0	95.26	4.74
8	As1/IRN/58/99	IRN99-58	633	603	0	95.26	4.74
9	As1/PAK/31/2002	PAK02-31	633	603	0	95.26	4.74
10	As1/PAK/32/2002	PAK02-32	603	574	0	95.19	4.81

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	IND79-08	166	155	2	93.37	6.63
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	583	0	92.1	7.9
3	As1/Shamir/ISR/89	ISR89--A	633	564	0	89.1	10.9
4	As1/TAI/85 vs	TAI85-AA	590	506	1	85.76	14.24
5	As1/IND/63/72 [Y09949]	IND72B63	630	537	0	85.24	14.76
6	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	537	0	84.83	15.17
7	As1/CAM/9/80	CAM80-09	583	490	5	84.05	15.95
8	As1/PAK/1/54	PAK54-01	630	508	0	80.63	19.37

nt, nucleotides

*, not a WRLFMD reference number

Serotype: ASIA1	Report date: 14/02/2005
WRL Ref No: IRN/31/2004	Reported by: N.J. Knowles
Date collected: not known	Checked by: J.-F. Valarcher
Date received by WRLFMD: 27/01/2005	
Date received for sequencing: 04/02/2005	Topotype: none designated
Species: not known	Genotype/strain: none designated
Material used: BTy1	Sequence filename: IRN04-31.SEQ
Region sequenced: VP1	Date sequence last updated: 14/02/2005
RT-PCR primers: As1-1C530F/NK61	Total no. of comparisons: 320
No. of Nt determined: 633	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 18 days
Gene length: 633	Sequencing time: 10 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IRN/10/2004	IRN04-10	633	626	0	98.89	1.11
2	As1/IRN/30/2004	IRN04-30	633	625	0	98.74	1.26
3	As1/PAK/20/2003	PAK03-20	631	605	2	95.88	4.12
4	As1/IRN/58/99	IRN99-58	633	603	0	95.26	4.74
5	As1/PAK/3/98	PAK98-03	607	578	6	95.22	4.78
6	As1/GRE/2/2000	GRE00-02	633	601	0	94.94	5.06
7	As1/IND/316/94* [AF390688]	IND94-AA	570	541	63	94.91	5.09
8	As1/BAN/4/96	BAN96-04	633	600	0	94.79	5.21
9	As1/TUR/6/2000	TUR00-06	517	490	23	94.78	5.22
10	As1/PAK/32/2002	PAK02-32	603	571	0	94.69	5.31

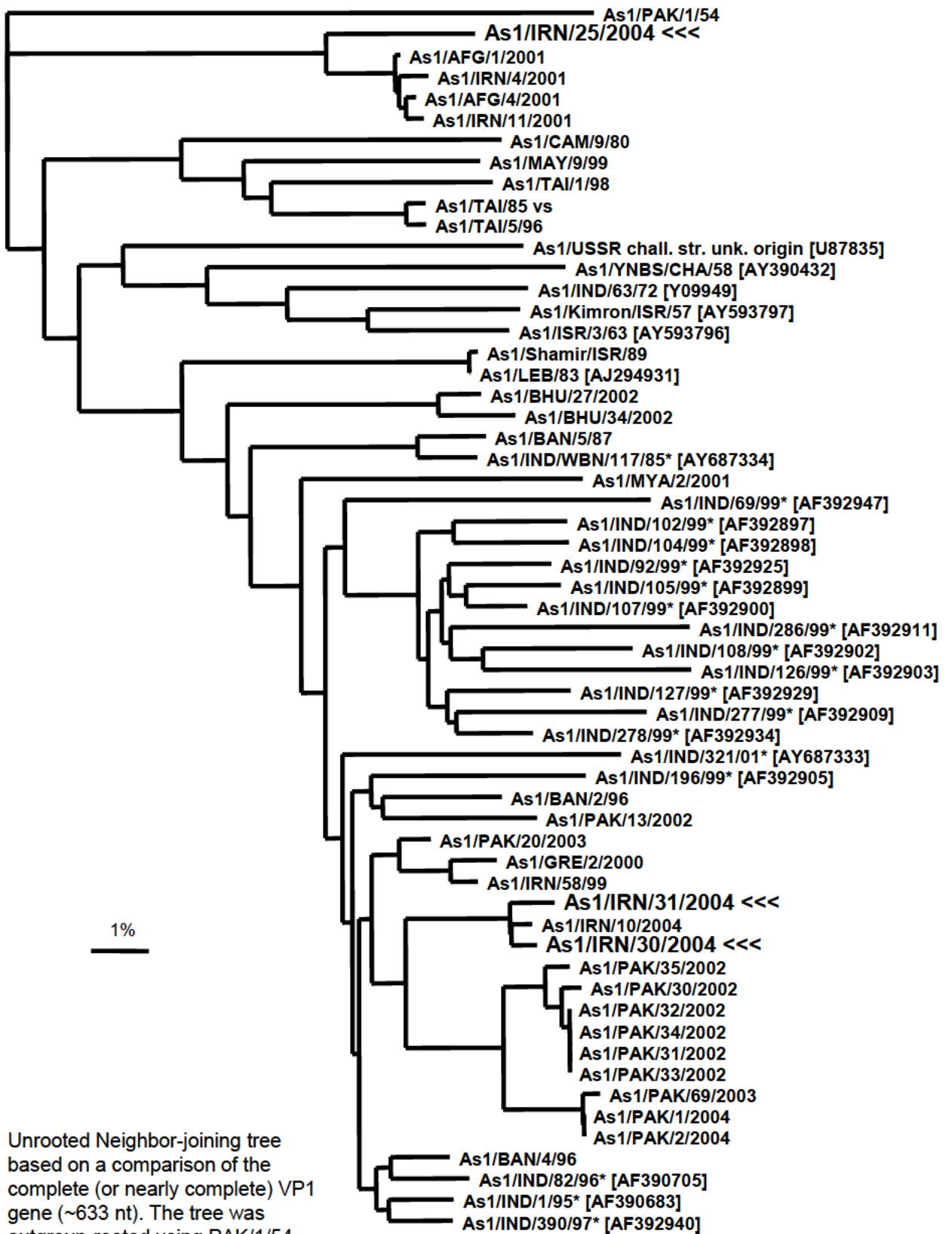
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	As1/IND/8/79	IND79-08	166	153	2	92.17	7.83
2	As1/IND/WBN/117/85* [AY687334]	IND85-AA	633	581	0	91.79	8.21
3	As1/Shamir/ISR/89	ISR89--A	633	560	0	88.47	11.53
4	As1/TAI/85 vs	TAI85-AA	590	503	1	85.25	14.75
5	As1/IND/63/72 [Y09949]	IND72B63	630	533	0	84.6	15.4
6	As1/YNBS/CHA/58 [AY390432]	CHA58-AA	633	535	0	84.52	15.48
7	As1/CAM/9/80	CAM80-09	583	487	5	83.53	16.47
8	As1/PAK/1/54	PAK54-01	630	506	0	80.32	19.68

nt, nucleotides

*, not a WRLFMD reference number

Report on: FMDV Asia 1 in Iran in 2004



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