

Serotype: A Report date: 07/06/2006  
WRL Ref No: IRN/5/2006  
Sender Ref: Iran-3  
Date collected: 18/04/2006  
Date received by WRLFMD: 22/05/2006 Topotype: Asia  
Date received for sequencing: 26/05/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: IRN06-05.SEQ  
Material used: BTy1 Date sequence last updated: 06/06/2006  
Region sequenced: VP1 Total no. of comparisons: 905  
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300  
A-1C612F/EUR-2B52R Total turn-around time: 16 days  
No. of Nt determined: 639 Sequencing time: 12 days  
No. of ambiguities: 0  
Gene length: 639

Comments:

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/27/2005	IRN05-27	639	637	0	99.69	0.31
2	A/IRN/22/2005	IRN05-22	639	637	0	99.69	0.31
3	A/IRN/50/2005	IRN05-50	639	634	0	99.22	0.78
4	A/IRN/5/2005	IRN05-05	639	633	0	99.06	0.94
5	A/IRN/30/2005	IRN05-30	639	633	0	99.06	0.94
6	A/IRN/36/2005	IRN05-36	639	632	0	98.9	1.1
7	A/IRN/25/2005	IRN05-25	639	632	0	98.9	1.1
8	A/IRN/7/2005	IRN05-07	639	632	0	98.9	1.1
9	A/IRN/40/2005	IRN05-40	639	632	0	98.9	1.1
10	A/IRN/24/2005	IRN05-24	639	632	0	98.9	1.1

#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/SAU/41/91	SAU91-41	636	543	0	85.38	14.62
2	A/IND/7/82 (1980)	IND82-07	639	544	0	85.13	14.87
3	A/IRN/87	IRN87--M	634	535	2	84.38	15.62
4	A/TAI/118/87*	TAI87-AD	636	533	0	83.81	16.19
5	A/IRN/22/99	IRN99-22	636	532	0	83.65	16.35
6	A/SAU/23/86	SAU86-23	639	533	0	83.41	16.59
7	A/TAI/2/97	TAI97-02	636	524	0	82.39	17.61
8	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	526	0	82.32	17.68
9	A/IRN/1/96	IRN96-01	638	525	1	82.29	17.71
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	506	0	79.19	20.81

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: A  
WRL Ref No: IRN/7/2006  
Sender Ref: Iran-8  
Date collected: 23/04/2006  
Date received by WRLFMD: 22/05/2006  
Date received for sequencing: 26/05/2006  
Species: Cattle  
Material used: BTy1  
Region sequenced: VP1  
RT-PCR primers: A-1C562F/EUR-2B52R;  
A-1C612F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 07/06/2006  
Topotype: Asia  
Genotype/strain: none designated  
Sequence filename: IRN06-07.SEQ  
Date sequence last updated: 06/06/2006  
Total no. of comparisons: 905  
Min. no. of nt for comparison: 300  
Total turn-around time: 16 days  
Sequencing time: 12 days

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/42/2005	IRN05-42	639	638	0	99.84	0.16
2	A/TUR/3/2006	TUR06-03	639	638	0	99.84	0.16
3	A/TUR/1/2006	TUR06-01	638	637	1	99.84	0.16
4	A/IRN/13/2005	IRN05-13	639	637	0	99.69	0.31
5	A/TUR/2/2006	TUR06-02	639	637	0	99.69	0.31
6	A/IRN/16/2005	IRN05-16	639	637	0	99.69	0.31
7	A/TUR/12/2005	TUR05-12	639	637	0	99.69	0.31
8	A/IRN/10/2005	IRN05-10	639	637	0	99.69	0.31
9	A/IRN/31/2005	IRN05-31	639	637	0	99.69	0.31
10	A/TUR/10/2005	TUR05-10	628	626	3	99.68	0.32

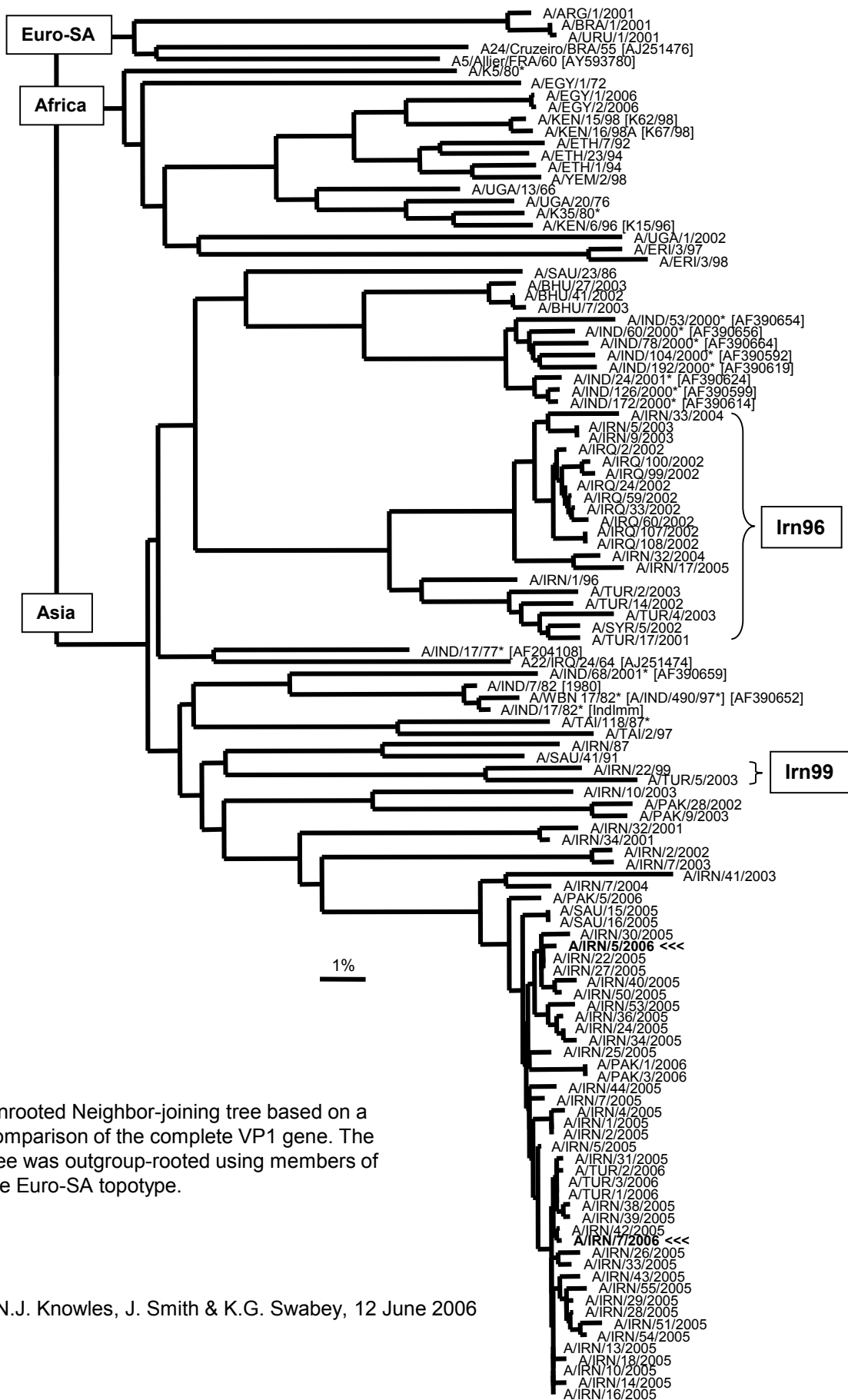
### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/SAU/41/91	SAU91-41	636	542	0	85.22	14.78
2	A/IND/7/82 (1980)	IND82-07	639	540	0	84.51	15.49
3	A/IRN/87	IRN87--M	634	533	2	84.07	15.93
4	A/IRN/22/99	IRN99-22	636	533	0	83.81	16.19
5	A/TAI/118/87*	TAI87-AD	636	532	0	83.65	16.35
6	A/SAU/23/86	SAU86-23	639	530	0	82.94	17.06
7	A/TAI/2/97	TAI97-02	636	527	0	82.86	17.14
8	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	528	0	82.63	17.37
9	A/IRN/1/96	IRN96-01	638	525	1	82.29	17.71
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	509	0	79.66	20.34

nt, nucleotides

\*, not a WRLFMD reference number

# Report on FMDV A from Iran in 2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using members of the Euro-SA topotype.