

Serotype: A Report date: 05/02/2007
WRL Ref No: IRN/54/2006
Sender Ref: 916/A05
Date collected: Nov 2006
Date received by WRLFMD: 15/12/2006 Topotype: Asia
Date received for sequencing: 02/01/2007 Genotype/strain: Irn-05
Species: Cattle Sequence filename: IRN06-54.SEQ
Material used: BTy1 Date sequence last updated: 05/02/2007
Region sequenced: VP1 Total no. of comparisons: 781
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300
A-1C612F/EUR-2B52R Total turn-around time: 52 days
No. of Nt determined: 639 Sequencing time: 34 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/22/2005	IRN05-22	639	626	0	97.97	2.03
2	A/IRN/27/2005	IRN05-27	639	626	0	97.97	2.03
3	A/IRN/7/2005	IRN05-07	639	626	0	97.97	2.03
4	A/IRN/24/2005	IRN05-24	639	625	0	97.81	2.19
5	A/IRN/25/2005	IRN05-25	639	625	0	97.81	2.19
6	A/IRN/5/2005	IRN05-05	639	625	0	97.81	2.19
7	A/SAU/15/2005	SAU05-15	639	625	0	97.81	2.19
8	A/SAU/16/2005	SAU05-16	639	625	0	97.81	2.19
9	A/IRN/5/2006	IRN06-05	639	624	0	97.65	2.35
10	A/IRN/1/2005 (EF208769)	IRN05-01	639	623	0	97.5	2.5

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	545	0	85.29	14.71
3	A/IRN/87	IRN87--M	634	536	2	84.54	15.46
4	A/IRN/22/99 (EF208772)	IRN99-22	636	536	0	84.28	15.72
5	A/SAU/23/86	SAU86-23	639	534	0	83.57	16.43
6	A/TAI/118/87* (EF208777)	TAI87-AD	636	531	0	83.49	16.51
7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	532	0	83.26	16.74
8	A/IRN/1/96 (EF208771)	IRN96-01	638	528	1	82.76	17.24
9	A/TAI/2/97 (EF208778)	TAI97-02	636	522	0	82.08	17.92
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	503	0	78.72	21.28

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A Report date: 05/02/2007
WRL Ref No: IRN/57/2006
Sender Ref: 267/A05
Date collected: Nov 2006
Date received by WRLFMD: 15/12/2006 Topotype: Asia
Date received for sequencing: 02/01/2007 Genotype/strain: Irn05
Species: Cattle Sequence filename: IRN06-57.SEQ
Material used: BTy1 Date sequence last updated: 05/02/2007
Region sequenced: VP1 Total no. of comparisons: 781
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300
A-1C612F/EUR-2B52R Total turn-around time: 52 days
No. of Nt determined: 639 Sequencing time: 34 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/44/2005	IRN05-44	639	635	0	99.37	0.63
2	A/TUR/8/2005	TUR05-08	639	635	0	99.37	0.63
3	A/IRN/5/2005	IRN05-05	639	632	0	98.9	1.1
4	A/IRN/7/2005	IRN05-07	639	631	0	98.75	1.25
5	A/IRN/1/2005 (EF208769)	IRN05-01	639	630	0	98.59	1.41
6	A/IRN/10/2005	IRN05-10	639	630	0	98.59	1.41
7	A/IRN/13/2005	IRN05-13	639	630	0	98.59	1.41
8	A/IRN/16/2005	IRN05-16	639	630	0	98.59	1.41
9	A/IRN/2/2005	IRN05-02	639	630	0	98.59	1.41
10	A/IRN/22/2005	IRN05-22	639	630	0	98.59	1.41

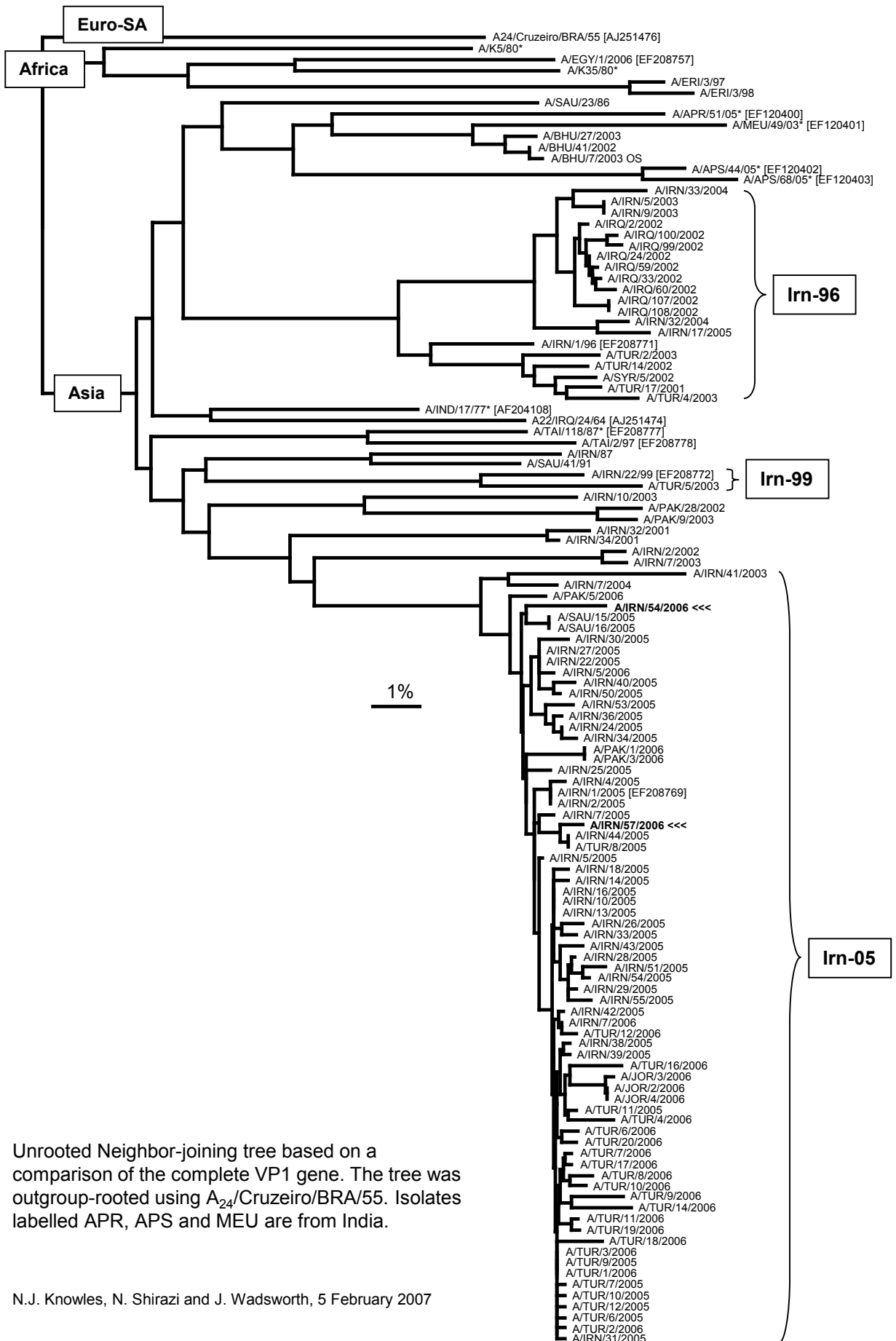
Relationships to Reference Virus Strains

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	534	2	84.23	15.77
4	A/IRN/22/99 (EF208772)	IRN99-22	636	533	0	83.81	16.19
5	A/SAU/23/86	SAU86-23	639	533	0	83.41	16.59
6	A/TAI/118/87* (EF208777)	TAI87-AD	636	530	0	83.33	16.67
7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	531	0	83.1	16.9
8	A/TAI/2/97 (EF208778)	TAI97-02	636	527	0	82.86	17.14
9	A/IRN/1/96 (EF208771)	IRN96-01	638	528	1	82.76	17.24
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	508	0	79.5	20.5

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV A sequences from Iran in 2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using A₂₄/Cruzeiro/BRA/55. Isolates labelled APR, APS and MEU are from India.