

Serotype: A
WRL Ref No: IRN/7/2005
Sender Ref: 84-6
Date collected: 15/05/2005
Date received by WRLFMD: 07/07/2005
Date received for sequencing: 14/07/2005
Species: Sheep
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: A-1C612F/EUR-2B52R;
A-1C562F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/10/2005
Topotype: Asia
Genotype/strain: not designated
Sequence filename: IRN05-07.SEQ
Date sequence last updated: 29/09/2005
Total no. of comparisons: 805
Min. no. of nt for comparison: 300
Total turn-around time: 94 days
Sequencing time: 87 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/5/2005	IRN05-05	639	636	0	99.53	0.47
2	A/IRN/13/2005	IRN05-13	639	634	0	99.22	0.78
3	A/IRN/2/2005	IRN05-02	639	634	0	99.22	0.78
4	A/IRN/1/2005	IRN05-01	639	634	0	99.22	0.78
5	A/IRN/10/2005	IRN05-10	639	634	0	99.22	0.78
6	A/IRN/16/2005	IRN05-16	639	634	0	99.22	0.78
7	A/IRN/4/2005	IRN05-04	639	632	0	98.9	1.1
8	A/IRN/14/2005	IRN05-14	639	632	0	98.9	1.1
9	A/IRN/18/2005	IRN05-18	639	632	0	98.9	1.1
10	A/IRN/7/2004	IRN04-07	639	619	0	96.87	3.13

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	544	0	85.53	14.47
2	A/IND/7/82 (1980)	IND82-07	639	545	0	85.29	14.71
3	A/IRN/87	IRN87--M	634	534	2	84.23	15.77
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	531	0	83.1	16.9
7	A/IRN/1/96	IRN96-01	638	528	1	82.76	17.24
8	A/TAI/2/97	TAI97-02	636	526	0	82.7	17.3
9	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	527	0	82.47	17.53
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	508	0	79.5	20.5

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A		Report date: 09/10/2005					
WRL Ref No: IRN/10/2005							
Sender Ref: 84-9							
Date collected: 28/05/2005		Topotype: Asia					
Date received by WRLFMD: 07/07/2005		Genotype/strain: not designated					
Date received for sequencing: 14/07/2005		Sequence filename: IRN05-10.SEQ					
Species: Cattle		Date sequence last updated: 29/09/2005					
Material used: BTy1		Total no. of comparisons: 805					
Region sequenced: VP1		Min. no. of nt for comparison: 300					
RT-PCR primers: A-1C612F/EUR-2B52R; A-1C562F/EUR-2B52R		Total turn-around time: 94 days					
No. of Nt determined: 639		Sequencing time: 87 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/13/2005	IRN05-13	639	639	0	100	0
2	A/IRN/16/2005	IRN05-16	639	639	0	100	0
3	A/IRN/14/2005	IRN05-14	639	637	0	99.69	0.31
4	A/IRN/5/2005	IRN05-05	639	637	0	99.69	0.31
5	A/IRN/18/2005	IRN05-18	639	637	0	99.69	0.31
6	A/IRN/7/2005	IRN05-07	639	634	0	99.22	0.78
7	A/IRN/2/2005	IRN05-02	639	633	0	99.06	0.94
8	A/IRN/1/2005	IRN05-01	639	633	0	99.06	0.94
9	A/IRN/4/2005	IRN05-04	639	631	0	98.75	1.25
10	A/IRN/7/2004	IRN04-07	639	620	0	97.03	2.97
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	542	0	84.82	15.18
3	A/IRN/22/99	IRN99-22	636	535	0	84.12	15.88
4	A/IRN/87	IRN87--M	634	533	2	84.07	15.93
5	A/TAI/118/87*	TAI87-AD	636	532	0	83.65	16.35
6	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	528	0	82.63	17.37
7	A/SAU/23/86	SAU86-23	639	528	0	82.63	17.37
8	A/IRN/1/96	IRN96-01	638	527	1	82.6	17.4
9	A/TAI/2/97	TAI97-02	636	525	0	82.55	17.45
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	509	0	79.66	20.34
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: A Report date: 09/10/2005
WRL Ref No: IRN/13/2005
Sender Ref: 84-8
Date collected: 30/05/2005
Date received by WRLFMD: 07/07/2005 Topotype: Asia
Date received for sequencing: 14/07/2005 Genotype/strain: not designated
Species: Cattle Sequence filename: IRN05-13.SEQ
Material used: BTy1 Date sequence last updated: 29/09/2005
Region sequenced: VP1 Total no. of comparisons: 805
RT-PCR primers: A-1C612F/EUR-2B52R;
A-1C562F/EUR-2B52R Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 94 days
No. of ambiguities: 0 Sequencing time: 87 days
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/10/2005	IRN05-10	639	639	0	100	0
2	A/IRN/16/2005	IRN05-16	639	639	0	100	0
3	A/IRN/14/2005	IRN05-14	639	637	0	99.69	0.31
4	A/IRN/5/2005	IRN05-05	639	637	0	99.69	0.31
5	A/IRN/18/2005	IRN05-18	639	637	0	99.69	0.31
6	A/IRN/7/2005	IRN05-07	639	634	0	99.22	0.78
7	A/IRN/2/2005	IRN05-02	639	633	0	99.06	0.94
8	A/IRN/1/2005	IRN05-01	639	633	0	99.06	0.94
9	A/IRN/4/2005	IRN05-04	639	631	0	98.75	1.25
10	A/IRN/7/2004	IRN04-07	639	620	0	97.03	2.97

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	542	0	84.82	15.18
3	A/IRN/22/99	IRN99-22	636	535	0	84.12	15.88
4	A/IRN/87	IRN87--M	634	533	2	84.07	15.93
5	A/TAI/118/87*	TAI87-AD	636	532	0	83.65	16.35
6	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	528	0	82.63	17.37
7	A/SAU/23/86	SAU86-23	639	528	0	82.63	17.37
8	A/IRN/1/96	IRN96-01	638	527	1	82.6	17.4
9	A/TAI/2/97	TAI97-02	636	525	0	82.55	17.45
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A		Report date: 09/10/2005					
WRL Ref No: IRN/14/2005							
Sender Ref: 84-17							
Date collected: 01/06/2005							
Date received by WRLFMD: 07/07/2005				Topotype: Asia			
Date received for sequencing: 14/07/2005				Genotype/strain: not designated			
Species: Cattle				Sequence filename: IRN05-14.SEQ			
Material used: BTy1				Date sequence last updated: 29/09/2005			
Region sequenced: VP1				Total no. of comparisons: 805			
RT-PCR primers: A-1C612F/EUR-2B52R; A-1C562F/EUR-2B52R				Min. no. of nt for comparison: 300			
No. of Nt determined: 639				Total turn-around time: 94 days			
No. of ambiguities: 0				Sequencing time: 87 days			
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/10/2005	IRN05-10	639	637	0	99.69	0.31
2	A/IRN/13/2005	IRN05-13	639	637	0	99.69	0.31
3	A/IRN/16/2005	IRN05-16	639	637	0	99.69	0.31
4	A/IRN/5/2005	IRN05-05	639	635	0	99.37	0.63
5	A/IRN/18/2005	IRN05-18	639	635	0	99.37	0.63
6	A/IRN/7/2005	IRN05-07	639	632	0	98.9	1.1
7	A/IRN/2/2005	IRN05-02	639	631	0	98.75	1.25
8	A/IRN/1/2005	IRN05-01	639	631	0	98.75	1.25
9	A/IRN/4/2005	IRN05-04	639	629	0	98.44	1.56
10	A/IRN/7/2004	IRN04-07	639	618	0	96.71	3.29
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	541	0	85.06	14.94
2	A/IND/7/82 (1980)	IND82-07	639	541	0	84.66	15.34
3	A/IRN/22/99	IRN99-22	636	535	0	84.12	15.88
4	A/IRN/87	IRN87--M	634	532	2	83.91	16.09
5	A/TAI/118/87*	TAI87-AD	636	531	0	83.49	16.51
6	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	527	0	82.47	17.53
7	A/SAU/23/86	SAU86-23	639	527	0	82.47	17.53
8	A/IRN/1/96	IRN96-01	638	526	1	82.45	17.55
9	A/TAI/2/97	TAI97-02	636	524	0	82.39	17.61
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	508	0	79.5	20.5
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: A
WRL Ref No: IRN/16/2005
Sender Ref: 84-13
Date collected: 07/06/2005
Date received by WRLFMD: 07/07/2005
Date received for sequencing: 14/07/2005
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: A-1C612F/EUR-2B52R;
A-1C562F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/10/2005
Topotype: Asia
Genotype/strain: not designated
Sequence filename: IRN05-16.SEQ
Date sequence last updated: 29/09/2005
Total no. of comparisons: 805
Min. no. of nt for comparison: 300
Total turn-around time: 94 days
Sequencing time: 87 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/10/2005	IRN05-10	639	639	0	100	0
2	A/IRN/13/2005	IRN05-13	639	639	0	100	0
3	A/IRN/14/2005	IRN05-14	639	637	0	99.69	0.31
4	A/IRN/5/2005	IRN05-05	639	637	0	99.69	0.31
5	A/IRN/18/2005	IRN05-18	639	637	0	99.69	0.31
6	A/IRN/7/2005	IRN05-07	639	634	0	99.22	0.78
7	A/IRN/2/2005	IRN05-02	639	633	0	99.06	0.94
8	A/IRN/1/2005	IRN05-01	639	633	0	99.06	0.94
9	A/IRN/4/2005	IRN05-04	639	631	0	98.75	1.25
10	A/IRN/7/2004	IRN04-07	639	620	0	97.03	2.97

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	542	0	84.82	15.18
3	A/IRN/22/99	IRN99-22	636	535	0	84.12	15.88
4	A/IRN/87	IRN87--M	634	533	2	84.07	15.93
5	A/TAI/118/87*	TAI87-AD	636	532	0	83.65	16.35
6	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	528	0	82.63	17.37
7	A/SAU/23/86	SAU86-23	639	528	0	82.63	17.37
8	A/IRN/1/96	IRN96-01	638	527	1	82.6	17.4
9	A/TAI/2/97	TAI97-02	636	525	0	82.55	17.45
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A	Report date: 09/10/2005
WRL Ref No: IRN/17/2005	
Sender Ref: 84-15	
Date collected: 12/06/2005	
Date received by WRLFMD: 07/07/2005	Topotype: Asia
Date received for sequencing: 14/07/2005	Genotype/strain: Iran-96
Species: Cattle	Sequence filename: IRN05-17.SEQ
Material used: BTy1	Date sequence last updated: 06/10/2005
Region sequenced: VP1	Total no. of comparisons: 805
RT-PCR primers: A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 636	Total turn-around time: 94 days
No. of ambiguities: 0	Sequencing time: 87 days
Gene length: 636	

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/32/2004	IRN04-32	636	625	0	98.27	1.73
2	A/IRN/9/2003	IRN03-09	636	614	0	96.54	3.46
3	A/IRN/5/2003	IRN03-05	636	614	0	96.54	3.46
4	A/IRN/1/2003	IRN03-01	487	470	3	96.51	3.49
5	A/IRQ/24/2002	IRQ02-24	633	608	3	96.05	3.95
6	A/IRQ/33/2002	IRQ02-33	636	610	0	95.91	4.09
7	A/IRQ/59/2002	IRQ02-59	636	609	0	95.75	4.25
8	A/IRQ/5/2002	IRQ02-05	620	592	16	95.48	4.52
9	A/IRQ/60/2002	IRQ02-60	636	607	0	95.44	4.56
10	A/IRQ/2/2002	IRQ02-02	636	607	0	95.44	4.56

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/1/96	IRN96-01	635	588	1	92.6	7.4
2	A/SAU/23/86	SAU86-23	636	529	0	83.18	16.82
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	528	0	83.02	16.98
4	A/TAI/118/87*	TAI87-AD	633	521	0	82.31	17.69
5	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
6	A/IRN/22/99	IRN99-22	636	522	0	82.08	17.92
7	A/IND/7/82 (1980)	IND82-07	636	520	0	81.76	18.24
8	A/SAU/41/91	SAU91-41	636	515	0	80.97	19.03
9	A/TAI/2/97	TAI97-02	633	507	0	80.09	19.91
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	506	0	79.56	20.44

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A
WRL Ref No: IRN/18/2005
Sender Ref: 84-18
Date collected: 12/06/2005
Date received by WRLFMD: 07/07/2005
Date received for sequencing: 14/07/2005
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: A-1C612F/EUR-2B52R;
A-1C562F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/10/2005
Topotype: Asia
Genotype/strain: not designated
Sequence filename: IRN05-18.SEQ
Date sequence last updated: 29/09/2005
Total no. of comparisons: 805
Min. no. of nt for comparison: 300
Total turn-around time: 94 days
Sequencing time: 87 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/10/2005	IRN05-10	639	637	0	99.69	0.31
2	A/IRN/13/2005	IRN05-13	639	637	0	99.69	0.31
3	A/IRN/16/2005	IRN05-16	639	637	0	99.69	0.31
4	A/IRN/14/2005	IRN05-14	639	635	0	99.37	0.63
5	A/IRN/5/2005	IRN05-05	639	635	0	99.37	0.63
6	A/IRN/7/2005	IRN05-07	639	632	0	98.9	1.1
7	A/IRN/1/2005	IRN05-01	639	631	0	98.75	1.25
8	A/IRN/2/2005	IRN05-02	639	631	0	98.75	1.25
9	A/IRN/4/2005	IRN05-04	639	629	0	98.44	1.56
10	A/IRN/7/2004	IRN04-07	639	618	0	96.71	3.29

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	541	0	85.06	14.94
2	A/IND/7/82 (1980)	IND82-07	639	540	0	84.51	15.49
3	A/IRN/22/99	IRN99-22	636	534	0	83.96	16.04
4	A/TAI/118/87*	TAI87-AD	636	533	0	83.81	16.19
5	A/IRN/87	IRN87--M	634	531	2	83.75	16.25
6	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	527	0	82.47	17.53
7	A/IRN/1/96	IRN96-01	638	526	1	82.45	17.55
8	A/TAI/2/97	TAI97-02	636	524	0	82.39	17.61
9	A/SAU/23/86	SAU86-23	639	526	0	82.32	17.68
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV A from Iran in 2005



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.

