

Serotype: O	Report date: 14/05/2007						
WRL Ref No: IRN/1/2007							
Sender Ref: IR 69							
Date collected: 13/01/2007							
Date received by WRLFMD: 12/03/2007	Topotype: ME-SA						
Date received for sequencing: 21/03/2007	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: IRN07-01.SEQ						
Material used: BTy1	Date sequence last updated: 16/04/2007						
Region sequenced: VP1	Total no. of comparisons: 1576						
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300						
O-1C272F/EUR-2B52R	Total turn-around time: 63 days						
No. of Nt determined: 639	Sequencing time: 54 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	O/IRN/26/2006	IRN06-26	639	638	0	99.84	0.16
2	O/IRN/17/2006	IRN06-17	639	637	0	99.69	0.31
3	O/IRN/4/2007	IRN07-04	639	637	0	99.69	0.31
4	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
5	O/IRN/21/2007	IRN07-21	639	636	0	99.53	0.47
6	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
7	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
8	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
9	O/IRN/23/2007	IRN07-23	639	635	0	99.37	0.63
10	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	552	0	86.38	13.62
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/4/2007
Sender Ref: IR 64
Date collected: 01/02/2007
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 14/05/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN07-04.SEQ
Date sequence last updated: 20/04/2007
Total no. of comparisons: 1576
Min. no. of nt for comparison: 300
Total turn-around time: 63 days
Sequencing time: 54 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/26/2006	IRN06-26	639	638	0	99.84	0.16
2	O/IRN/1/2007	IRN07-01	639	637	0	99.69	0.31
3	O/IRN/17/2006	IRN06-17	639	637	0	99.69	0.31
4	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
5	O/IRN/21/2007	IRN07-21	639	636	0	99.53	0.47
6	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
7	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
8	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
9	O/IRN/23/2007	IRN07-23	639	635	0	99.37	0.63
10	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
3	O/IND/R2/75* [AF204276]	IND75--A	639	567	0	88.73	11.27
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	561	0	87.79	12.21
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	552	0	86.38	13.62
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	508	0	79.5	20.5

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O		Report date: 14/05/2007					
WRL Ref No: IRN/5/2007							
Sender Ref: IR 72							
Date collected: 01/02/2007							
Date received by WRLFMD: 12/03/2007		Topotype: ME-SA					
Date received for sequencing: 21/03/2007		Genotype/strain: PanAsia					
Species: Cattle		Sequence filename: IRN07-05.SEQ					
Material used: BTy1		Date sequence last updated: 16/04/2007					
Region sequenced: VP1		Total no. of comparisons: 1576					
RT-PCR primers: O-1C244F/EUR-2B52R;		Min. no. of nt for comparison: 300					
O-1C272F/EUR-2B52R		Total turn-around time: 63 days					
No. of Nt determined: 639		Sequencing time: 54 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	O/IRN/22/2007	IRN07-22	639	635	0	99.37	0.63
2	O/NEP/4/2003 (DQ165059)	NEP03-04	639	617	0	96.56	3.44
3	O/NEP/2/2003	NEP03-02	638	615	1	96.39	3.61
4	O/MAY/2/2004	MAY04-02	608	584	0	96.05	3.95
5	O/AFG/2004 (PIADC)	AFG04-AA	639	613	0	95.93	4.07
6	O/BHU/49/2003 (DQ164867)	BHU03-49	639	613	0	95.93	4.07
7	O/MAY/3/2004	MAY04-03	606	581	0	95.87	4.13
8	O/BHU/26/2004 (DQ165043)	BHU04-26	639	612	0	95.77	4.23
9	O/BHU/27/2004 (DQ164868)	BHU04-27	638	611	1	95.77	4.23
10	O/BHU/48/2003	BHU03-48	638	611	1	95.77	4.23
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	600	0	93.9	6.1
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	564	0	88.26	11.74
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	562	0	87.95	12.05
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	548	0	85.76	14.24
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	528	0	82.63	17.37
9	O/HKN/6/83	HKN83-06	637	516	2	81	19
10	O1/BFS 1860/UK/67	UKG67--A	639	509	0	79.66	20.34
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O	Report date: 14/05/2007
WRL Ref No: IRN/6/2007	
Sender Ref: IR 73	
Date collected: 01/02/2007	Topotype: ME-SA
Date received by WRLFMD: 12/03/2007	Genotype/strain: PanAsia
Date received for sequencing: 21/03/2007	Sequence filename: IRN07-06.SEQ
Species: Cattle	Date sequence last updated: 16/04/2007
Material used: BTy1	Total no. of comparisons: 1576
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: O-1C244F/EUR-2B52R	Total turn-around time: 63 days
No. of Nt determined: 639	Sequencing time: 54 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	O/IRN/23/2006	IRN06-23	639	637	0	99.69	0.31
2	O/IRN/24/2007	IRN07-24	639	637	0	99.69	0.31
3	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
4	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
5	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
6	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
7	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
8	O/IRN/42/2006	IRN06-42	639	635	0	99.37	0.63
9	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
10	O/IRN/9/2006	IRN06-09	639	635	0	99.37	0.63

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	604	0	94.52	5.48
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	554	0	86.7	13.3
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	508	0	79.5	20.5

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 14/05/2007						
WRL Ref No: IRN/7/2007							
Sender Ref: IR 75							
Date collected: 03/02/2007	Topotype: ME-SA						
Date received by WRLFMD: 12/03/2007	Genotype/strain: PanAsia						
Date received for sequencing: 21/03/2007	Sequence filename: IRN07-07.SEQ						
Species: Cattle	Date sequence last updated: 18/04/2007						
Material used: BTy2	Total no. of comparisons: 1576						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/EUR-2B52R	Total turn-around time: 63 days						
No. of Nt determined: 639	Sequencing time: 54 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	O/IRN/15/2006	IRN06-15	639	636	0	99.53	0.47
2	O/IRN/35/2006	IRN06-35	639	636	0	99.53	0.47
3	O/IRN/55/2006	IRN06-55	639	636	0	99.53	0.47
4	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
5	O/IRN/37/2006	IRN06-37	639	635	0	99.37	0.63
6	O/IRN/48/2006	IRN06-48	639	635	0	99.37	0.63
7	O/IRN/49/2006	IRN06-49	639	635	0	99.37	0.63
8	O/IRN/56/2006	IRN06-56	639	635	0	99.37	0.63
9	O/PAK/10/2006	PAK06-10	639	635	0	99.37	0.63
10	O/PAK/16/2006	PAK06-16	639	635	0	99.37	0.63
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	570	0	89.2	10.8
3	O/IND/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/8/2007
Sender Ref: IR 65
Date collected: 07/02/2007
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 14/05/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN07-08.SEQ
Date sequence last updated: 18/04/2007
Total no. of comparisons: 1576
Min. no. of nt for comparison: 300
Total turn-around time: 63 days
Sequencing time: 54 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/64/2006	IRN06-64	639	637	0	99.69	0.31
2	O/IRN/59/2006	IRN06-59	639	636	0	99.53	0.47
3	O/IRN/60/2006	IRN06-60	639	636	0	99.53	0.47
4	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
5	O/IRN/24/2006	IRN06-24	639	634	0	99.22	0.78
6	O/IRN/56/2006	IRN06-56	639	634	0	99.22	0.78
7	O/PAK/10/2006	PAK06-10	639	634	0	99.22	0.78
8	O/PAK/16/2006	PAK06-16	639	634	0	99.22	0.78
9	O/PAK/4/2006	PAK06-04	639	634	0	99.22	0.78
10	O/PAK/6/2006	PAK06-06	639	634	0	99.22	0.78

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	604	0	94.52	5.48
2	O/IND/53/79 [AF292107]	IND79A53	639	573	0	89.67	10.33
3	O/IND/R2/75* [AF204276]	IND75--A	639	567	0	88.73	11.27
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	514	0	80.44	19.56

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 14/05/2007						
WRL Ref No: IRN/9/2007							
Sender Ref: IR 62							
Date collected: 08/02/2007							
Date received by WRLFMD: 12/03/2007	Topotype: ME-SA						
Date received for sequencing: 21/03/2007	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: IRN07-09.SEQ						
Material used: BTy1	Date sequence last updated: 16/04/2007						
Region sequenced: VP1	Total no. of comparisons: 1576						
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 63 days						
No. of ambiguities: 0	Sequencing time: 54 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	O/IRN/20/2007	IRN07-20	639	636	0	99.53	0.47
2	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
3	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
4	O/IRN/10/2006	IRN06-10	639	633	0	99.06	0.94
5	O/IRN/17/2006	IRN06-17	639	633	0	99.06	0.94
6	O/IRN/19/2006	IRN06-19	639	633	0	99.06	0.94
7	O/IRN/8/2006	IRN06-08	639	633	0	99.06	0.94
8	O/IRN/9/2006	IRN06-09	639	633	0	99.06	0.94
9	O/IRN/13/2007	IRN07-13	639	632	0	98.9	1.1
10	O/IRN/14/2006	IRN06-14	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	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	559	0	87.48	12.52
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	517	0	80.91	19.09
9	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87
10	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/10/2007
Sender Ref: IR 67
Date collected: 10/02/2007
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007
Species: Goats
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 14/05/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN07-10.SEQ
Date sequence last updated: 16/04/2007
Total no. of comparisons: 1576
Min. no. of nt for comparison: 300
Total turn-around time: 63 days
Sequencing time: 54 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/11/2006	IRN06-11	639	637	0	99.69	0.31
2	O/IRN/29/2006	IRN06-29	639	635	0	99.37	0.63
3	O/IRN/43/2006	IRN06-43	639	635	0	99.37	0.63
4	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
5	O/IRN/50/2006	IRN06-50	639	634	0	99.22	0.78
6	O/IRN/56/2006	IRN06-56	639	634	0	99.22	0.78
7	O/PAK/10/2006	PAK06-10	639	634	0	99.22	0.78
8	O/PAK/16/2006	PAK06-16	639	634	0	99.22	0.78
9	O/PAK/4/2006	PAK06-04	639	634	0	99.22	0.78
10	O/PAK/6/2006	PAK06-06	639	634	0	99.22	0.78

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	571	0	89.36	10.64
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	556	0	87.01	12.99
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	552	0	86.38	13.62
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	515	2	80.85	19.15
10	O1/BFS 1860/UK/67	UKG67--A	639	514	0	80.44	19.56

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O	Report date: 14/05/2007						
WRL Ref No: IRN/11/2007							
Sender Ref: IR 68							
Date collected: 10/02/2007							
Date received by WRLFMD: 12/03/2007	Topotype: ME-SA						
Date received for sequencing: 21/03/2007	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: IRN07-11.SEQ						
Material used: BTy1	Date sequence last updated: 18/04/2007						
Region sequenced: VP1	Total no. of comparisons: 1576						
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 63 days						
No. of ambiguities: 0	Sequencing time: 54 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	O/IRN/13/2007	IRN07-13	639	635	0	99.37	0.63
2	O/IRN/30/2006	IRN06-30	639	634	0	99.22	0.78
3	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94
4	O/IRN/24/2006	IRN06-24	639	633	0	99.06	0.94
5	O/IRN/10/2006	IRN06-10	639	632	0	98.9	1.1
6	O/IRN/17/2006	IRN06-17	639	632	0	98.9	1.1
7	O/IRN/19/2006	IRN06-19	639	632	0	98.9	1.1
8	O/IRN/20/2006	IRN06-20	639	632	0	98.9	1.1
9	O/IRN/8/2006	IRN06-08	639	632	0	98.9	1.1
10	O/IRN/9/2006	IRN06-09	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	O/TAW/2/99	TAW99-02	639	600	0	93.9	6.1
2	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	555	0	86.85	13.15
6	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	550	0	86.07	13.93
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O/HKN/6/83	HKN83-06	637	510	2	80.06	19.94
10	O1/BFS 1860/UK/67	UKG67--A	639	507	0	79.34	20.66
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 14/05/2007
WRL Ref No: IRN/13/2007
Sender Ref: IR 63
Date collected: 12/02/2007
Date received by WRLFMD: 12/03/2007 Topotype: ME-SA
Date received for sequencing: 21/03/2007 Genotype/strain: PanAsia
Species: Cattle/Sheep/Goats Sequence filename: IRN07-13.SEQ
Material used: BTy2 Date sequence last updated: 16/04/2007
Region sequenced: VP1 Total no. of comparisons: 1576
RT-PCR primers: O-1C244F/EUR-2B52R; Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R Total turn-around time: 63 days
No. of Nt determined: 639 Sequencing time: 54 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	O/IRN/12/2006	IRN06-12	639	637	0	99.69	0.31
2	O/IRN/10/2006	IRN06-10	639	636	0	99.53	0.47
3	O/IRN/17/2006	IRN06-17	639	636	0	99.53	0.47
4	O/IRN/19/2006	IRN06-19	639	636	0	99.53	0.47
5	O/IRN/20/2006	IRN06-20	639	636	0	99.53	0.47
6	O/IRN/8/2006	IRN06-08	639	636	0	99.53	0.47
7	O/IRN/9/2006	IRN06-09	639	636	0	99.53	0.47
8	O/IRN/11/2007	IRN07-11	639	635	0	99.37	0.63
9	O/IRN/14/2006	IRN06-14	639	635	0	99.37	0.63
10	O/IRN/20/2007	IRN07-20	639	635	0	99.37	0.63

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	570	0	89.2	10.8
3	O/IND/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	549	0	85.92	14.08
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 14/05/2007						
WRL Ref No: IRN/14/2007							
Sender Ref: IR 74							
Date collected: 12/02/2007	Topotype: ME-SA						
Date received by WRLFMD: 12/03/2007	Genotype/strain: PanAsia						
Date received for sequencing: 21/03/2007	Sequence filename: IRN07-14.SEQ						
Species: Cattle	Date sequence last updated: 16/04/2007						
Material used: BTy1	Total no. of comparisons: 1576						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Total turn-around time: 63 days						
No. of Nt determined: 639	Sequencing time: 54 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	O/IRN/15/2006	IRN06-15	639	635	0	99.37	0.63
2	O/IRN/55/2006	IRN06-55	639	635	0	99.37	0.63
3	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
4	O/IRN/37/2006	IRN06-37	639	634	0	99.22	0.78
5	O/IRN/48/2006	IRN06-48	639	634	0	99.22	0.78
6	O/IRN/49/2006	IRN06-49	639	634	0	99.22	0.78
7	O/IRN/7/2007	IRN07-07	639	634	0	99.22	0.78
8	O/IRN/10/2006	IRN06-10	639	633	0	99.06	0.94
9	O/IRN/17/2006	IRN06-17	639	633	0	99.06	0.94
10	O/IRN/19/2006	IRN06-19	639	633	0	99.06	0.94
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
3	O/IND/R2/75* [AF204276]	IND75--A	639	565	0	88.42	11.58
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	552	0	86.38	13.62
7	O/MOR/1/91	MOR91-01	639	548	0	85.76	14.24
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	517	0	80.91	19.09
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	508	0	79.5	20.5
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 14/05/2007
WRL Ref No: IRN/16/2007
Sender Ref: IR 76
Date collected: 20/02/2007
Date received by WRLFMD: 12/03/2007 Topotype: ME-SA
Date received for sequencing: 21/03/2007 Genotype/strain: PanAsia
Species: Cattle Sequence filename: IRN07-16.SEQ
Material used: BTy1 Date sequence last updated: 16/04/2007
Region sequenced: VP1 Total no. of comparisons: 1576
RT-PCR primers: O-1C244F/EUR-2B52R; Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R Total turn-around time: 63 days
No. of Nt determined: 639 Sequencing time: 54 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	O/IRN/12/2006	IRN06-12	639	632	0	98.9	1.1
2	O/IRN/24/2006	IRN06-24	639	632	0	98.9	1.1
3	O/IRN/10/2006	IRN06-10	639	631	0	98.75	1.25
4	O/IRN/17/2006	IRN06-17	639	631	0	98.75	1.25
5	O/IRN/19/2006	IRN06-19	639	631	0	98.75	1.25
6	O/IRN/20/2006	IRN06-20	639	631	0	98.75	1.25
7	O/IRN/29/2006	IRN06-29	639	631	0	98.75	1.25
8	O/IRN/30/2006	IRN06-30	639	631	0	98.75	1.25
9	O/IRN/43/2006	IRN06-43	639	631	0	98.75	1.25
10	O/IRN/8/2006	IRN06-08	639	631	0	98.75	1.25

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	567	0	88.73	11.27
3	O/IND/R2/75* [AF204276]	IND75--A	639	563	0	88.11	11.89
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	559	0	87.48	12.52
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	552	0	86.38	13.62
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	550	0	86.07	13.93
7	O/MOR/1/91	MOR91-01	639	546	0	85.45	14.55
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	518	0	81.06	18.94
9	O/HKN/6/83	HKN83-06	637	510	2	80.06	19.94
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 14/05/2007						
WRL Ref No: IRN/17/2007							
Sender Ref: IR 77							
Date collected: 25/02/2007							
Date received by WRLFMD: 12/03/2007	Topotype: ME-SA						
Date received for sequencing: 21/03/2007	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: IRN07-17.SEQ						
Material used: BTy1	Date sequence last updated: 16/04/2007						
Region sequenced: VP1	Total no. of comparisons: 1576						
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 63 days						
No. of ambiguities: 0	Sequencing time: 54 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	O/IRN/42/2006	IRN06-42	639	634	0	99.22	0.78
2	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94
3	O/IRN/20/2007	IRN07-20	639	633	0	99.06	0.94
4	O/IRN/24/2006	IRN06-24	639	633	0	99.06	0.94
5	O/IRN/28/2006	IRN06-28	639	633	0	99.06	0.94
6	O/IRN/44/2006	IRN06-44	639	633	0	99.06	0.94
7	O/IRN/59/2006	IRN06-59	639	633	0	99.06	0.94
8	O/IRN/10/2006	IRN06-10	639	632	0	98.9	1.1
9	O/IRN/15/2006	IRN06-15	639	632	0	98.9	1.1
10	O/IRN/17/2006	IRN06-17	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	O/TAW/2/99	TAW99-02	639	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	566	0	88.58	11.42
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	557	0	87.17	12.83
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
7	O/MOR/1/91	MOR91-01	639	553	0	86.54	13.46
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	514	2	80.69	19.31
10	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/18/2007
Sender Ref: IR 78
Date collected: 25/02/2007
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 14/05/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN07-18.SEQ
Date sequence last updated: 16/04/2007
Total no. of comparisons: 1576
Min. no. of nt for comparison: 300
Total turn-around time: 63 days
Sequencing time: 54 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/11/2006	IRN06-11	639	635	0	99.37	0.63
2	O/IRN/29/2006	IRN06-29	639	635	0	99.37	0.63
3	O/IRN/43/2006	IRN06-43	639	635	0	99.37	0.63
4	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
5	O/IRN/50/2006	IRN06-50	639	634	0	99.22	0.78
6	O/IRN/56/2006	IRN06-56	639	634	0	99.22	0.78
7	O/PAK/10/2006	PAK06-10	639	634	0	99.22	0.78
8	O/PAK/16/2006	PAK06-16	639	634	0	99.22	0.78
9	O/PAK/4/2006	PAK06-04	639	634	0	99.22	0.78
10	O/PAK/6/2006	PAK06-06	639	634	0	99.22	0.78

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	571	0	89.36	10.64
3	O/IND/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	558	0	87.32	12.68
6	O/MOR/1/91	MOR91-01	639	554	0	86.7	13.3
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	553	0	86.54	13.46
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O		Report date: 14/05/2007					
WRL Ref No: IRN/19/2007							
Sender Ref: IR 61							
Date collected: 27/02/2007							
Date received by WRLFMD: 12/03/2007		Topotype: ME-SA					
Date received for sequencing: 21/03/2007		Genotype/strain: PanAsia					
Species: Cattle		Sequence filename: IRN07-19.SEQ					
Material used: BTy1		Date sequence last updated: 16/04/2007					
Region sequenced: VP1		Total no. of comparisons: 1576					
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 639		Total turn-around time: 63 days					
No. of ambiguities: 0		Sequencing time: 54 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	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
2	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
3	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
4	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
5	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
6	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
7	O/IRN/9/2006	IRN06-09	639	635	0	99.37	0.63
8	O/IRN/13/2007	IRN07-13	639	634	0	99.22	0.78
9	O/IRN/14/2006	IRN06-14	639	634	0	99.22	0.78
10	O/IRN/20/2007	IRN07-20	639	634	0	99.22	0.78
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	549	0	85.92	14.08
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	517	0	80.91	19.09
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 14/05/2007
WRL Ref No: IRN/20/2007
Sender Ref: 575
Date collected: Not known
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007 Topotype: ME-SA
Species: Not known Genotype/strain: PanAsia
Material used: BTy1 Sequence filename: IRN07-20.SEQ
Region sequenced: VP1 Date sequence last updated: 16/04/2007
RT-PCR primers: O-1C244F/EUR-2B52R; Total no. of comparisons: 1576
O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 63 days
No. of ambiguities: 0 Sequencing time: 54 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	O/IRN/20/2006	IRN06-20	639	638	0	99.84	0.16
2	O/IRN/12/2006	IRN06-12	639	637	0	99.69	0.31
3	O/IRN/10/2006	IRN06-10	639	636	0	99.53	0.47
4	O/IRN/17/2006	IRN06-17	639	636	0	99.53	0.47
5	O/IRN/19/2006	IRN06-19	639	636	0	99.53	0.47
6	O/IRN/8/2006	IRN06-08	639	636	0	99.53	0.47
7	O/IRN/9/2006	IRN06-09	639	636	0	99.53	0.47
8	O/IRN/9/2007	IRN07-09	639	636	0	99.53	0.47
9	O/IRN/13/2007	IRN07-13	639	635	0	99.37	0.63
10	O/IRN/14/2006	IRN06-14	639	635	0	99.37	0.63

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	570	0	89.2	10.8
3	O/IND/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	549	0	85.92	14.08
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O		Report date: 14/05/2007					
WRL Ref No: IRN/21/2007							
Sender Ref: 585							
Date collected: Not known							
Date received by WRLFMD: 12/03/2007		Topotype: ME-SA					
Date received for sequencing: 21/03/2007		Genotype/strain: PanAsia					
Species: Not known		Sequence filename: IRN07-21.SEQ					
Material used: BTy1		Date sequence last updated: 18/04/2007					
Region sequenced: VP1		Total no. of comparisons: 1576					
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 639		Total turn-around time: 63 days					
No. of ambiguities: 0		Sequencing time: 54 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	O/IRN/26/2006	IRN06-26	639	637	0	99.69	0.31
2	O/IRN/1/2007	IRN07-01	639	636	0	99.53	0.47
3	O/IRN/17/2006	IRN06-17	639	636	0	99.53	0.47
4	O/IRN/4/2007	IRN07-04	639	636	0	99.53	0.47
5	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
6	O/IRN/31/2006	IRN06-31	639	635	0	99.37	0.63
7	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
8	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
9	O/IRN/20/2006	IRN06-20	639	634	0	99.22	0.78
10	O/IRN/23/2007	IRN07-23	639	634	0	99.22	0.78
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	570	0	89.2	10.8
3	O/IND/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/22/2007
Sender Ref: 593
Date collected: Not known
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007
Species: Not known
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 14/05/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN07-22.SEQ
Date sequence last updated: 16/04/2007
Total no. of comparisons: 1576
Min. no. of nt for comparison: 300
Total turn-around time: 63 days
Sequencing time: 54 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/5/2007	IRN07-05	639	635	0	99.37	0.63
2	O/NEP/4/2003 (DQ165059)	NEP03-04	639	617	0	96.56	3.44
3	O/NEP/2/2003	NEP03-02	638	613	1	96.08	3.92
4	O/MAY/2/2004	MAY04-02	608	584	0	96.05	3.95
5	O/AFG/2004 (PIADC)	AFG04-AA	639	613	0	95.93	4.07
6	O/BHU/49/2003 (DQ164867)	BHU03-49	639	613	0	95.93	4.07
7	O/MAY/3/2004	MAY04-03	606	581	0	95.87	4.13
8	O/BHU/26/2004 (DQ165043)	BHU04-26	639	612	0	95.77	4.23
9	O/BHU/27/2004 (DQ164868)	BHU04-27	638	611	1	95.77	4.23
10	O/BHU/48/2003	BHU03-48	638	611	1	95.77	4.23

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	600	0	93.9	6.1
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	564	0	88.26	11.74
4	O/IND/R2/75* [AF204276]	IND75--A	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	562	0	87.95	12.05
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	549	0	85.92	14.08
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	526	0	82.32	17.68
9	O/HKN/6/83	HKN83-06	637	517	2	81.16	18.84
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O		Report date: 14/05/2007					
WRL Ref No: IRN/23/2007							
Sender Ref: 597							
Date collected: Not known							
Date received by WRLFMD: 12/03/2007		Topotype: ME-SA					
Date received for sequencing: 21/03/2007		Genotype/strain: PanAsia					
Species: Not known		Sequence filename: IRN07-23.SEQ					
Material used: BTy1		Date sequence last updated: 16/04/2007					
Region sequenced: VP1		Total no. of comparisons: 1576					
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 639		Total turn-around time: 63 days					
No. of ambiguities: 0		Sequencing time: 54 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	O/IRN/26/2006	IRN06-26	639	636	0	99.53	0.47
2	O/IRN/1/2007	IRN07-01	639	635	0	99.37	0.63
3	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
4	O/IRN/4/2007	IRN07-04	639	635	0	99.37	0.63
5	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
6	O/IRN/18/2006	IRN06-18	639	634	0	99.22	0.78
7	O/IRN/21/2007	IRN07-21	639	634	0	99.22	0.78
8	O/IRN/10/2006	IRN06-10	639	633	0	99.06	0.94
9	O/IRN/19/2006	IRN06-19	639	633	0	99.06	0.94
10	O/IRN/20/2006	IRN06-20	639	633	0	99.06	0.94
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	600	0	93.9	6.1
2	O/IND/53/79 [AF292107]	IND79A53	639	567	0	88.73	11.27
3	O/IND/R2/75* [AF204276]	IND75--A	639	565	0	88.42	11.58
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	559	0	87.48	12.52
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	554	0	86.7	13.3
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	552	0	86.38	13.62
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	517	0	80.91	19.09
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/24/2007
Sender Ref: 602
Date collected: Not known
Date received by WRLFMD: 12/03/2007
Date received for sequencing: 21/03/2007
Species: Not known
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 14/05/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN07-24.SEQ
Date sequence last updated: 16/04/2007
Total no. of comparisons: 1576
Min. no. of nt for comparison: 300
Total turn-around time: 63 days
Sequencing time: 54 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/23/2006	IRN06-23	639	637	0	99.69	0.31
2	O/IRN/6/2007	IRN07-06	639	637	0	99.69	0.31
3	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
4	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
5	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
6	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
7	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
8	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
9	O/IRN/9/2006	IRN06-09	639	635	0	99.37	0.63
10	O/IRN/13/2007	IRN07-13	639	634	0	99.22	0.78

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	604	0	94.52	5.48
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	554	0	86.7	13.3
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	508	0	79.5	20.5

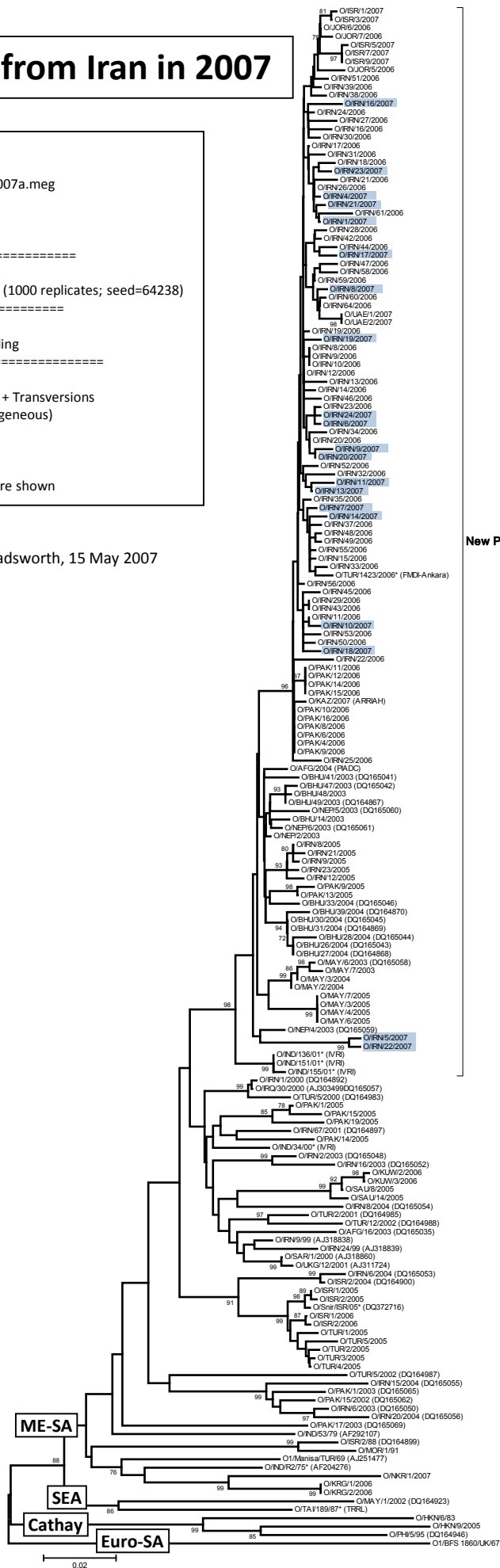
nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Iran in 2007

Software: MEGA 3.1
 No. of Taxa : 183
 Data File : n:\evd\meg\db\fmdv\o\IRN2007a.meg
 Data Title : O Iran 2007
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 Method : Neighbor-Joining
 Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)
 Include Sites : =====
 Gaps/Missing Data : Pairwise Deletion
 Codon Positions : 1st+2nd+3rd+Noncoding
 Substitution Model : =====
 Model : Nucleotide: p-distance
 Substitutions to Include : d: Transitions + Transversions
 Pattern among Lineages : Same (Homogeneous)
 Rates among sites : Uniform rates
 No. of Sites : 639
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% of above are shown

N.J. Knowles, N. Shirazi and J. Wadsworth, 15 May 2007



New PanAsia lineage

PanAsia

ME-SA

SEA

Cathay

Euro-SA

0.02