

Serotype: O
WRL Ref No: IRN/29/2006
Sender Ref: 1072
Date collected: 00/09/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-29.SEQ
Date sequence last updated: 05/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/43/2006	IRN06-43	639	639	0	100	0
2	O/IRN/11/2006	IRN06-11	639	637	0	99.69	0.31
3	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
4	O/IRN/50/2006	IRN06-50	639	636	0	99.53	0.47
5	O/IRN/56/2006	IRN06-56	639	636	0	99.53	0.47
6	O/PAK/10/2006	PAK06-10	639	636	0	99.53	0.47
7	O/PAK/16/2006	PAK06-16	639	636	0	99.53	0.47
8	O/PAK/4/2006	PAK06-04	639	636	0	99.53	0.47
9	O/PAK/6/2006	PAK06-06	639	636	0	99.53	0.47
10	O/PAK/8/2006	PAK06-08	639	636	0	99.53	0.47

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	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	555	0	86.85	13.15
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	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
WRL Ref No: IRN/30/2006
Sender Ref: A-36
Date collected: 02/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-30.SEQ
Date sequence last updated: 05/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/12/2006	IRN06-12	639	636	0	99.53	0.47
2	O/IRN/24/2006	IRN06-24	639	636	0	99.53	0.47
3	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
4	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
5	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
6	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
7	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
8	O/IRN/9/2006	IRN06-09	639	635	0	99.37	0.63
9	O/IRN/14/2006	IRN06-14	639	634	0	99.22	0.78
10	O/IRN/26/2006	IRN06-26	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	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	565	0	88.42	11.58
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	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: 05/03/2007						
WRL Ref No: IRN/31/2006							
Sender Ref: IR-38							
Date collected: 04/11/2006	Topotype: ME-SA						
Date received by WRLFMD: 15/12/2006	Genotype/strain: PanAsia						
Date received for sequencing: 02/01/2007	Sequence filename: IRN06-31.SEQ						
Species: CATTLE	Date sequence last updated: 16/02/2007						
Material used: BTy1	Total no. of comparisons: 1530						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Total turn-around time: 80 days						
No. of Nt determined: 639	Sequencing time: 62 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/17/2006	IRN06-17	639	636	0	99.53	0.47
2	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
3	O/IRN/24/2006	IRN06-24	639	635	0	99.37	0.63
4	O/IRN/26/2006	IRN06-26	639	635	0	99.37	0.63
5	O/IRN/59/2006	IRN06-59	639	635	0	99.37	0.63
6	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
7	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
8	O/IRN/20/2006	IRN06-20	639	634	0	99.22	0.78
9	O/IRN/64/2006	IRN06-64	639	634	0	99.22	0.78
10	O/IRN/8/2006	IRN06-08	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	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	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	564	0	88.26	11.74
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	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	514	2	80.69	19.31
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/32/2006
Sender Ref: A-48
Date collected: 07/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-32.SEQ
Date sequence last updated: 05/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/12/2006	IRN06-12	639	633	0	99.06	0.94
2	O/IRN/10/2006	IRN06-10	639	632	0	98.9	1.1
3	O/IRN/15/2006	IRN06-15	639	632	0	98.9	1.1
4	O/IRN/17/2006	IRN06-17	639	632	0	98.9	1.1
5	O/IRN/19/2006	IRN06-19	639	632	0	98.9	1.1
6	O/IRN/20/2006	IRN06-20	639	632	0	98.9	1.1
7	O/IRN/35/2006	IRN06-35	639	632	0	98.9	1.1
8	O/IRN/55/2006	IRN06-55	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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	570	0	89.2	10.8
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	558	0	87.32	12.68
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	555	0	86.85	13.15
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	517	0	80.91	19.09
9	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25
10	O1/BFS 1860/UK/67	UKG67--A	639	506	0	79.19	20.81

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/03/2007						
WRL Ref No: IRN/33/2006							
Sender Ref: IR-43							
Date collected: 08/11/2006							
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA						
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia						
Species: SHEEP	Sequence filename: IRN06-33.SEQ						
Material used: BTy1	Date sequence last updated: 05/02/2007						
Region sequenced: VP1	Total no. of comparisons: 1530						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 80 days						
No. of ambiguities: 0	Sequencing time: 62 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/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/1423/TUR/2006* (FMDI-Ankara)	TUR06-AA	601	596	1	99.17	0.83
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	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	567	0	88.73	11.27
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
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	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
WRL Ref No: IRN/34/2006
Sender Ref: A-49-1
Date collected: 11/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-34.SEQ
Date sequence last updated: 05/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/20/2006	IRN06-20	639	636	0	99.53	0.47
2	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
3	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
4	O/IRN/17/2006	IRN06-17	639	634	0	99.22	0.78
5	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
6	O/IRN/23/2006	IRN06-23	639	634	0	99.22	0.78
7	O/IRN/8/2006	IRN06-08	639	634	0	99.22	0.78
8	O/IRN/9/2006	IRN06-09	639	634	0	99.22	0.78
9	O/IRN/14/2006	IRN06-14	639	633	0	99.06	0.94
10	O/IRN/24/2006	IRN06-24	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	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	564	0	88.26	11.74
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	553	0	86.54	13.46
6	O/TAI/189/87* [TRRL]	TAI87-AC	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	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
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: 05/03/2007						
WRL Ref No: IRN/35/2006							
Sender Ref: A-49-2							
Date collected: 11/11/2006							
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA						
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia						
Species: CATTLE	Sequence filename: IRN06-35.SEQ						
Material used: BTy1	Date sequence last updated: 05/02/2007						
Region sequenced: VP1	Total no. of comparisons: 1530						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 80 days						
No. of ambiguities: 0	Sequencing time: 62 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/56/2006	IRN06-56	639	636	0	99.53	0.47
3	O/PAK/10/2006	PAK06-10	639	636	0	99.53	0.47
4	O/PAK/16/2006	PAK06-16	639	636	0	99.53	0.47
5	O/PAK/4/2006	PAK06-04	639	636	0	99.53	0.47
6	O/PAK/6/2006	PAK06-06	639	636	0	99.53	0.47
7	O/PAK/8/2006	PAK06-08	639	636	0	99.53	0.47
8	O/PAK/9/2006	PAK06-09	639	636	0	99.53	0.47
9	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
10	O/IRN/11/2006	IRN06-11	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	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/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
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	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 Report date: 05/03/2007
WRL Ref No: IRN/37/2006
Sender Ref: IR-32
Date collected: 19/11/2006 Topotype: ME-SA
Date received by WRLFMD: 15/12/2006 Genotype/strain: PanAsia
Date received for sequencing: 02/01/2007 Sequence filename: IRN06-37.SEQ
Species: CATTLE Date sequence last updated: 05/02/2007
Material used: BTy1 Total no. of comparisons: 1530
Region sequenced: VP1 Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R; Total turn-around time: 80 days
O-1C244F/EUR-2B52R Sequencing time: 62 days
No. of Nt determined: 639
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/55/2006	IRN06-55	639	636	0	99.53	0.47
3	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
4	O/IRN/48/2006	IRN06-48	639	635	0	99.37	0.63
5	O/IRN/49/2006	IRN06-49	639	635	0	99.37	0.63
6	O/IRN/56/2006	IRN06-56	639	635	0	99.37	0.63
7	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
8	O/IRN/17/2006	IRN06-17	639	634	0	99.22	0.78
9	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
10	O/IRN/20/2006	IRN06-20	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	601	0	94.05	5.95
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	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	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/03/2007
WRL Ref No: IRN/38/2006	
Sender Ref: A-34	
Date collected: 19/11/2006	
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia
Species: CATTLE	Sequence filename: IRN06-38.SEQ
Material used: BTy1	Date sequence last updated: 05/02/2007
Region sequenced: VP1	Total no. of comparisons: 1530
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 80 days
No. of ambiguities: 0	Sequencing time: 62 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	635	0	99.37	0.63
2	O/IRN/39/2006	IRN06-39	639	635	0	99.37	0.63
3	O/JOR/6/2006	JOR06-06	639	635	0	99.37	0.63
4	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
5	O/IRN/17/2006	IRN06-17	639	634	0	99.22	0.78
6	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
7	O/IRN/20/2006	IRN06-20	639	634	0	99.22	0.78
8	O/IRN/8/2006	IRN06-08	639	634	0	99.22	0.78
9	O/IRN/9/2006	IRN06-09	639	634	0	99.22	0.78
10	O/ISR/1/2007	ISR07-01	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	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	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	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	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	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: IRN/39/2006
Sender Ref: A-35
Date collected: 20/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-39.SEQ
Date sequence last updated: 05/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/JOR/6/2006	JOR06-06	639	637	0	99.69	0.31
2	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
3	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
4	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
5	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
6	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
7	O/IRN/38/2006	IRN06-38	639	635	0	99.37	0.63
8	O/IRN/51/2006	IRN06-51	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	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	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	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	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: 05/03/2007						
WRL Ref No: IRN/42/2006							
Sender Ref: IR-46							
Date collected: 20/11/2006	Topotype: ME-SA						
Date received by WRLFMD: 15/12/2006	Genotype/strain: PanAsia						
Date received for sequencing: 02/01/2007	Sequence filename: IRN06-42.SEQ						
Species: CATTLE	Date sequence last updated: 05/02/2007						
Material used: BTy1	Total no. of comparisons: 1530						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Total turn-around time: 80 days						
No. of Nt determined: 639	Sequencing time: 62 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	636	0	99.53	0.47
2	O/IRN/28/2006	IRN06-28	639	636	0	99.53	0.47
3	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
4	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
5	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
6	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
7	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
8	O/IRN/9/2006	IRN06-09	639	635	0	99.37	0.63
9	O/IRN/14/2006	IRN06-14	639	634	0	99.22	0.78
10	O/IRN/24/2006	IRN06-24	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	606	0	94.84	5.16
2	O/IND/53/79 [AF292107]	IND79A53	639	573	0	89.67	10.33
3	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
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	556	0	87.01	12.99
7	O/MOR/1/91	MOR91-01	639	552	0	86.38	13.62
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	512	0	80.13	19.87
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/43/2006
Sender Ref: IR-29
Date collected: 21/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: SHEEP
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-43.SEQ
Date sequence last updated: 16/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/29/2006	IRN06-29	639	639	0	100	0
2	O/IRN/11/2006	IRN06-11	639	637	0	99.69	0.31
3	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
4	O/IRN/50/2006	IRN06-50	639	636	0	99.53	0.47
5	O/IRN/56/2006	IRN06-56	639	636	0	99.53	0.47
6	O/PAK/10/2006	PAK06-10	639	636	0	99.53	0.47
7	O/PAK/16/2006	PAK06-16	639	636	0	99.53	0.47
8	O/PAK/4/2006	PAK06-04	639	636	0	99.53	0.47
9	O/PAK/6/2006	PAK06-06	639	636	0	99.53	0.47
10	O/PAK/8/2006	PAK06-08	639	636	0	99.53	0.47

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	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	555	0	86.85	13.15
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	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: 05/03/2007						
WRL Ref No: IRN/44/2006							
Sender Ref: A-39							
Date collected: 21/11/2006							
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA						
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia						
Species: CATTLE	Sequence filename: IRN06-44.SEQ						
Material used: BTy1	Date sequence last updated: 05/02/2007						
Region sequenced: VP1	Total no. of comparisons: 1530						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 80 days						
No. of ambiguities: 0	Sequencing time: 62 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/24/2006	IRN06-24	639	633	0	99.06	0.94
4	O/IRN/28/2006	IRN06-28	639	633	0	99.06	0.94
5	O/IRN/59/2006	IRN06-59	639	633	0	99.06	0.94
6	O/IRN/10/2006	IRN06-10	639	632	0	98.9	1.1
7	O/IRN/17/2006	IRN06-17	639	632	0	98.9	1.1
8	O/IRN/19/2006	IRN06-19	639	632	0	98.9	1.1
9	O/IRN/20/2006	IRN06-20	639	632	0	98.9	1.1
10	O/IRN/64/2006	IRN06-64	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	576	0	90.14	9.86
3	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	566	0	88.58	11.42
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	559	0	87.48	12.52
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	557	0	87.17	12.83
7	O/MOR/1/91	MOR91-01	639	553	0	86.54	13.46
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	523	0	81.85	18.15
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
WRL Ref No: IRN/45/2006
Sender Ref: IR-51
Date collected: 21/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-45.SEQ
Date sequence last updated: 05/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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	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	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	555	0	86.85	13.15
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	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/03/2007						
WRL Ref No: IRN/46/2006							
Sender Ref: IR-37							
Date collected: 23/11/2006							
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA						
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia						
Species: CATTLE	Sequence filename: IRN06-46.SEQ						
Material used: BTy1	Date sequence last updated: 05/02/2007						
Region sequenced: VP1	Total no. of comparisons: 1530						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 80 days						
No. of ambiguities: 0	Sequencing time: 62 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/55/2006	IRN06-55	639	635	0	99.37	0.63
7	O/IRN/8/2006	IRN06-08	639	635	0	99.37	0.63
8	O/IRN/9/2006	IRN06-09	639	635	0	99.37	0.63
9	O/IRN/14/2006	IRN06-14	639	634	0	99.22	0.78
10	O/IRN/24/2006	IRN06-24	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	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	548	0	85.76	14.24
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	519	0	81.22	18.78
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
WRL Ref No: IRN/47/2006
Sender Ref: IR-30
Date collected: 25/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-47.SEQ
Date sequence last updated: 06/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/59/2006	IRN06-59	639	635	0	99.37	0.63
2	O/IRN/64/2006	IRN06-64	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/58/2006	IRN06-58	639	633	0	99.06	0.94
6	O/IRN/60/2006	IRN06-60	639	633	0	99.06	0.94
7	O/IRN/10/2006	IRN06-10	639	632	0	98.9	1.1
8	O/IRN/17/2006	IRN06-17	639	632	0	98.9	1.1
9	O/IRN/19/2006	IRN06-19	639	632	0	98.9	1.1
10	O/IRN/20/2006	IRN06-20	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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	571	0	89.36	10.64
3	O/IND/R2/75* [AF204276]	IND75--A	639	565	0	88.42	11.58
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
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	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	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/03/2007						
WRL Ref No: IRN/48/2006							
Sender Ref: IR-40							
Date collected: 25/11/2006	Topotype: ME-SA						
Date received by WRLFMD: 15/12/2006	Genotype/strain: PanAsia						
Date received for sequencing: 02/01/2007	Sequence filename: IRN06-48.SEQ						
Species: CATTLE	Date sequence last updated: 21/02/2007						
Material used: BTy1	Total no. of comparisons: 1530						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Total turn-around time: 80 days						
No. of Nt determined: 639	Sequencing time: 62 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/49/2006	IRN06-49	639	637	0	99.69	0.31
2	O/IRN/15/2006	IRN06-15	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/10/2006	IRN06-10	639	634	0	99.22	0.78
7	O/IRN/17/2006	IRN06-17	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/33/2006	IRN06-33	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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
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	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	516	0	80.75	19.25
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
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/49/2006
Sender Ref: IR-41
Date collected: 25/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-49.SEQ
Date sequence last updated: 21/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/48/2006	IRN06-48	639	637	0	99.69	0.31
2	O/IRN/15/2006	IRN06-15	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/10/2006	IRN06-10	639	634	0	99.22	0.78
7	O/IRN/17/2006	IRN06-17	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/33/2006	IRN06-33	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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
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	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	516	0	80.75	19.25
9	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87
10	O/HKN/6/83	HKN83-06	637	510	2	80.06	19.94

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O		Report date: 05/03/2007					
WRL Ref No: IRN/50/2006							
Sender Ref: IR-47							
Date collected: 25/11/2006		Topotype: ME-SA					
Date received by WRLFMD: 15/12/2006		Genotype/strain: PanAsia					
Date received for sequencing: 02/01/2007		Sequence filename: IRN06-50.SEQ					
Species: CATTLE		Date sequence last updated: 06/02/2007					
Material used: BTy1		Total no. of comparisons: 1530					
Region sequenced: VP1		Min. no. of nt for comparison: 300					
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R		Total turn-around time: 80 days					
No. of Nt determined: 639		Sequencing time: 62 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/11/2006	IRN06-11	639	636	0	99.53	0.47
2	O/IRN/29/2006	IRN06-29	639	636	0	99.53	0.47
3	O/IRN/43/2006	IRN06-43	639	636	0	99.53	0.47
4	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
5	O/IRN/56/2006	IRN06-56	639	635	0	99.37	0.63
6	O/PAK/10/2006	PAK06-10	639	635	0	99.37	0.63
7	O/PAK/16/2006	PAK06-16	639	635	0	99.37	0.63
8	O/PAK/4/2006	PAK06-04	639	635	0	99.37	0.63
9	O/PAK/6/2006	PAK06-06	639	635	0	99.37	0.63
10	O/PAK/8/2006	PAK06-08	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	603	0	94.37	5.63
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	562	0	87.95	12.05
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	557	0	87.17	12.83
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/51/2006
Sender Ref: IR-50
Date collected: 25/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: BUFFALO
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-51.SEQ
Date sequence last updated: 21/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/39/2006	IRN06-39	639	635	0	99.37	0.63
2	O/JOR/6/2006	JOR06-06	639	635	0	99.37	0.63
3	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
4	O/IRN/56/2006	IRN06-56	639	634	0	99.22	0.78
5	O/PAK/10/2006	PAK06-10	639	634	0	99.22	0.78
6	O/PAK/16/2006	PAK06-16	639	634	0	99.22	0.78
7	O/PAK/4/2006	PAK06-04	639	634	0	99.22	0.78
8	O/PAK/6/2006	PAK06-06	639	634	0	99.22	0.78
9	O/PAK/8/2006	PAK06-08	639	634	0	99.22	0.78
10	O/PAK/9/2006	PAK06-09	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	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	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: 05/03/2007						
WRL Ref No: IRN/52/2006							
Sender Ref: IR-31							
Date collected: 27/11/2006							
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA						
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia						
Species: CATTLE	Sequence filename: IRN06-52.SEQ						
Material used: BTy1	Date sequence last updated: 21/02/2007						
Region sequenced: VP1	Total no. of comparisons: 1530						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 80 days						
No. of ambiguities: 0	Sequencing time: 62 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	635	0	99.37	0.63
2	O/IRN/56/2006	IRN06-56	639	635	0	99.37	0.63
3	O/PAK/10/2006	PAK06-10	639	635	0	99.37	0.63
4	O/PAK/16/2006	PAK06-16	639	635	0	99.37	0.63
5	O/PAK/4/2006	PAK06-04	639	635	0	99.37	0.63
6	O/PAK/6/2006	PAK06-06	639	635	0	99.37	0.63
7	O/PAK/8/2006	PAK06-08	639	635	0	99.37	0.63
8	O/PAK/9/2006	PAK06-09	639	635	0	99.37	0.63
9	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
10	O/IRN/11/2006	IRN06-11	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	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	564	0	88.26	11.74
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	555	0	86.85	13.15
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/53/2006
Sender Ref: A-33
Date collected: 27/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-53.SEQ
Date sequence last updated: 06/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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	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	561	0	87.79	12.21
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	522	0	81.69	18.31
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: 05/03/2007						
WRL Ref No: IRN/55/2006							
Sender Ref: 1183/A87							
Date collected: 00/11/2006	Topotype: ME-SA						
Date received by WRLFMD: 15/12/2006	Genotype/strain: PanAsia						
Date received for sequencing: 02/01/2007	Sequence filename: IRN06-55.SEQ						
Species: CATTLE	Date sequence last updated: 06/02/2007						
Material used: BTy1	Total no. of comparisons: 1530						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Total turn-around time: 80 days						
No. of Nt determined: 639	Sequencing time: 62 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	637	0	99.69	0.31
2	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
3	O/IRN/37/2006	IRN06-37	639	636	0	99.53	0.47
4	O/IRN/48/2006	IRN06-48	639	636	0	99.53	0.47
5	O/IRN/49/2006	IRN06-49	639	636	0	99.53	0.47
6	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
7	O/IRN/17/2006	IRN06-17	639	635	0	99.37	0.63
8	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
9	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
10	O/IRN/33/2006	IRN06-33	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	548	0	85.76	14.24
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	509	0	79.66	20.34
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: IRN/56/2006
Sender Ref: 967/O
Date collected: 00/11/2006
Date received by WRLFMD: 15/12/2006
Date received for sequencing: 02/01/2007
Species: CATTLE
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/03/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: IRN06-56.SEQ
Date sequence last updated: 06/02/2007
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300
Total turn-around time: 80 days
Sequencing time: 62 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/12/2006	IRN06-12	639	637	0	99.69	0.31
2	O/PAK/10/2006	PAK06-10	639	637	0	99.69	0.31
3	O/PAK/16/2006	PAK06-16	639	637	0	99.69	0.31
4	O/PAK/4/2006	PAK06-04	639	637	0	99.69	0.31
5	O/PAK/6/2006	PAK06-06	639	637	0	99.69	0.31
6	O/PAK/8/2006	PAK06-08	639	637	0	99.69	0.31
7	O/PAK/9/2006	PAK06-09	639	637	0	99.69	0.31
8	O/IRN/10/2006	IRN06-10	639	636	0	99.53	0.47
9	O/IRN/11/2006	IRN06-11	639	636	0	99.53	0.47
10	O/IRN/17/2006	IRN06-17	639	636	0	99.53	0.47

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	574	0	89.83	10.17
3	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	566	0	88.58	11.42
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	558	0	87.32	12.68
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	557	0	87.17	12.83
7	O/MOR/1/91	MOR91-01	639	553	0	86.54	13.46
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	522	0	81.69	18.31
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	Report date: 05/03/2007						
WRL Ref No: IRN/58/2006							
Sender Ref: IR-52							
Date collected: 05/12/2006							
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA						
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia						
Species: CATTLE	Sequence filename: IRN06-58.SEQ						
Material used: BTy1	Date sequence last updated: 06/02/2007						
Region sequenced: VP1	Total no. of comparisons: 1530						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 80 days						
No. of ambiguities: 0	Sequencing time: 62 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/59/2006	IRN06-59	639	635	0	99.37	0.63
2	O/IRN/64/2006	IRN06-64	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/47/2006	IRN06-47	639	633	0	99.06	0.94
6	O/IRN/60/2006	IRN06-60	639	633	0	99.06	0.94
7	O/IRN/10/2006	IRN06-10	639	632	0	98.9	1.1
8	O/IRN/17/2006	IRN06-17	639	632	0	98.9	1.1
9	O/IRN/19/2006	IRN06-19	639	632	0	98.9	1.1
10	O/IRN/20/2006	IRN06-20	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	601	0	94.05	5.95
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	567	0	88.73	11.27
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	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	512	0	80.13	19.87
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O	Report date: 05/03/2007
WRL Ref No: IRN/59/2006	
Sender Ref: IR-55	
Date collected: 05/12/2006	
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia
Species: CATTLE	Sequence filename: IRN06-59.SEQ
Material used: BTy1	Date sequence last updated: 16/02/2007
Region sequenced: VP1	Total no. of comparisons: 1530
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 80 days
No. of ambiguities: 0	Sequencing time: 62 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/64/2006	IRN06-64	639	638	0	99.84	0.16
2	O/IRN/12/2006	IRN06-12	639	637	0	99.69	0.31
3	O/IRN/24/2006	IRN06-24	639	637	0	99.69	0.31
4	O/IRN/60/2006	IRN06-60	639	637	0	99.69	0.31
5	O/IRN/10/2006	IRN06-10	639	636	0	99.53	0.47
6	O/IRN/17/2006	IRN06-17	639	636	0	99.53	0.47
7	O/IRN/19/2006	IRN06-19	639	636	0	99.53	0.47
8	O/IRN/20/2006	IRN06-20	639	636	0	99.53	0.47
9	O/IRN/8/2006	IRN06-08	639	636	0	99.53	0.47
10	O/IRN/9/2006	IRN06-09	639	636	0	99.53	0.47

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/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	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	Report date: 05/03/2007
WRL Ref No: IRN/60/2006	
Sender Ref: IR-56	
Date collected: 05/12/2006	
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia
Species: CATTLE	Sequence filename: IRN06-60.SEQ
Material used: BTy1	Date sequence last updated: 21/02/2007
Region sequenced: VP1	Total no. of comparisons: 1530
RT-PCR primers: O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 80 days
No. of ambiguities: 0	Sequencing time: 62 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/64/2006	IRN06-64	639	638	0	99.84	0.16
2	O/IRN/59/2006	IRN06-59	639	637	0	99.69	0.31
3	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
4	O/IRN/24/2006	IRN06-24	639	635	0	99.37	0.63
5	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
6	O/IRN/17/2006	IRN06-17	639	634	0	99.22	0.78
7	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
8	O/IRN/20/2006	IRN06-20	639	634	0	99.22	0.78
9	O/IRN/8/2006	IRN06-08	639	634	0	99.22	0.78
10	O/IRN/9/2006	IRN06-09	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	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	565	0	88.42	11.58
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	518	0	81.06	18.94
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
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: 05/03/2007
WRL Ref No: IRN/61/2006	
Sender Ref: IR-54	
Date collected: 06/12/2006	
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia
Species: CATTLE	Sequence filename: IRN06-61.SEQ
Material used: BTy1	Date sequence last updated: 06/02/2007
Region sequenced: VP1	Total no. of comparisons: 1530
RT-PCR primers: O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 80 days
No. of ambiguities: 0	Sequencing time: 62 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	632	0	98.9	1.1
2	O/IRN/17/2006	IRN06-17	639	631	0	98.75	1.25
3	O/IRN/12/2006	IRN06-12	639	630	0	98.59	1.41
4	O/IRN/14/2006	IRN06-14	639	630	0	98.59	1.41
5	O/IRN/31/2006	IRN06-31	639	630	0	98.59	1.41
6	O/IRN/56/2006	IRN06-56	639	630	0	98.59	1.41
7	O/IRN/10/2006	IRN06-10	639	629	0	98.44	1.56
8	O/IRN/15/2006	IRN06-15	639	629	0	98.44	1.56
9	O/IRN/19/2006	IRN06-19	639	629	0	98.44	1.56
10	O/IRN/20/2006	IRN06-20	639	629	0	98.44	1.56

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/R2/75* [AF204276]	IND75--A	639	568	0	88.89	11.11
3	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	567	0	88.73	11.27
4	O/IND/53/79 [AF292107]	IND79A53	639	566	0	88.58	11.42
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	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
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: 05/03/2007
WRL Ref No: IRN/64/2006	
Sender Ref: IR-55	
Date collected: NK	
Date received by WRLFMD: 15/12/2006	Topotype: ME-SA
Date received for sequencing: 02/01/2007	Genotype/strain: PanAsia
Species: CATTLE	Sequence filename: IRN06-64.SEQ
Material used: BTy1	Date sequence last updated: 21/02/2007
Region sequenced: VP1	Total no. of comparisons: 1530
RT-PCR primers: O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 80 days
No. of ambiguities: 0	Sequencing time: 62 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/59/2006	IRN06-59	639	638	0	99.84	0.16
2	O/IRN/60/2006	IRN06-60	639	638	0	99.84	0.16
3	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
4	O/IRN/24/2006	IRN06-24	639	636	0	99.53	0.47
5	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
6	O/IRN/17/2006	IRN06-17	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/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	571	0	89.36	10.64
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	555	0	86.85	13.15
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	512	0	80.13	19.87

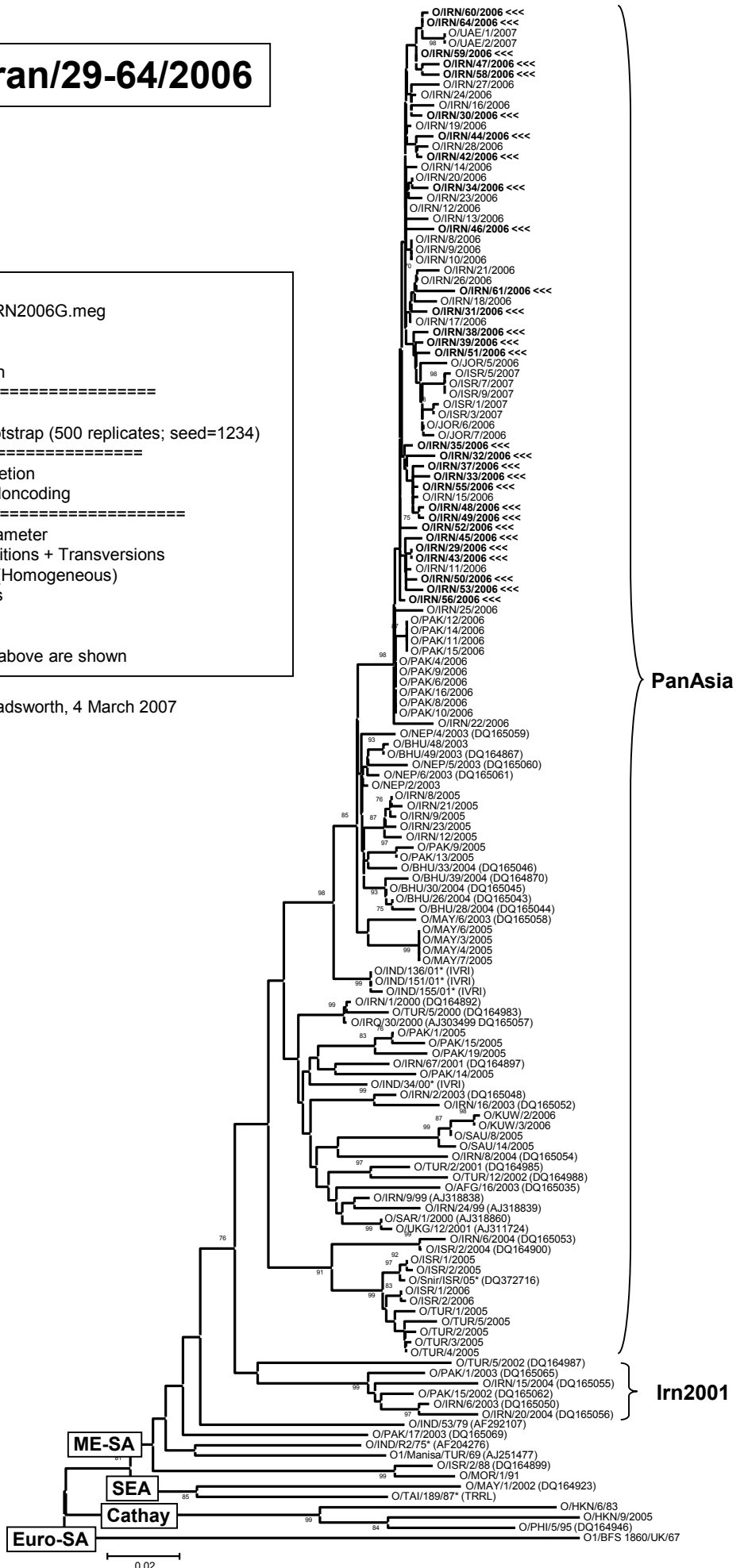
nt, nucleotides

*, not a WRLFMD reference number

Report on O/Iran/29-64/2006

No. of Taxa : 149
 Data File : n:\levd\meg\db\fmdivo\OIRN2006G.meg
 Data Title : FMDV O Iran 2006
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 Method : Neighbor-Joining
 Phylogeny Test and options : Bootstrap (500 replicates; seed=1234)
 Include Sites : =====
 Gaps/Missing Data : Pairwise Deletion
 Codon Positions : 1st+2nd+3rd+Noncoding
 Substitution Model : =====
 Model : Nucleotide: Kimura 2-parameter
 Substitutions to Include : d: Transitions + Transversions
 Pattern among Lineages : Same (Homogeneous)
 Rates among sites : Uniform rates
 No. of Sites : 639
 No Of Bootstrap Reps = 500
 Only bootstrap values of 70% and above are shown

N.J. Knowles, N. Shirazi and J. Wadsworth, 4 March 2007



0.02