

Serotype: O		Report date: 29/08/2006					
WRL Ref No: ISR/7/2004							
Sender Ref: 421660							
Date collected: 17/01/2004							
Date received by WRLFMD: 13/01/2006		Topotype: ME-SA					
Date received for sequencing: 20/01/2006		Genotype/strain: PanAsia					
Species: Cattle		Sequence filename: ISR04-07.SEQ					
Material used: BTy1		Date sequence last updated: 07/06/2006					
Region sequenced: VP1		Total no. of comparisons: 1918					
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: 228 days					
No. of ambiguities: 0		Sequencing time: 221 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/ISR/2/2004	ISR04-02	639	638	0	99.84	0.16
2	O/ISR/3/2004	ISR04-03	639	638	0	99.84	0.16
3	O/ISR/4/2004	ISR04-04	639	638	0	99.84	0.16
4	O/ISR/9/2004	ISR04-09	639	636	0	99.53	0.47
5	O/ISR/8/2004	ISR04-08	639	636	0	99.53	0.47
6	O/ISR/10/2004	ISR04-10	639	635	0	99.37	0.63
7	O/ISR/11/2004	ISR04-11	632	628	7	99.37	0.63
8	O/IRN/6/2004	IRN04-06	639	633	0	99.06	0.94
9	O/LEB/1/2003	LEB03-01	639	630	0	98.59	1.41
10	O/TUR/152/03/03* (Lindholm)	TUR03-AE	639	627	0	98.12	1.88
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	608	0	95.15	4.85
2	O1/Manisa/TUR/69	TUR69--E	639	569	0	89.05	10.95
3	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
4	O/IND/R2/75* [AF204276]	IND75--A	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
6	O/MOR/1/91	MOR91-01	639	549	0	85.92	14.08
7	O/ISR/2/88	ISR88-02	639	549	0	85.92	14.08
8	O/PHI/5/95	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	518	2	81.32	18.68
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: ISR/8/2004
Sender Ref: 422438
Date collected: 26/01/2004
Date received by WRLFMD: 13/01/2006
Date received for sequencing: 20/01/2006
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: 29/08/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: ISR04-08.SEQ
Date sequence last updated: 02/08/2006
Total no. of comparisons: 1918
Min. no. of nt for comparison: 300
Total turn-around time: 228 days
Sequencing time: 221 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ISR/9/2004	ISR04-09	639	639	0	100	0
2	O/ISR/3/2004	ISR04-03	639	637	0	99.69	0.31
3	O/ISR/4/2004	ISR04-04	639	637	0	99.69	0.31
4	O/ISR/2/2004	ISR04-02	639	637	0	99.69	0.31
5	O/ISR/7/2004	ISR04-07	639	636	0	99.53	0.47
6	O/ISR/10/2004	ISR04-10	639	634	0	99.22	0.78
7	O/ISR/11/2004	ISR04-11	632	627	7	99.21	0.79
8	O/IRN/6/2004	IRN04-06	639	632	0	98.9	1.1
9	O/LEB/1/2003	LEB03-01	639	629	0	98.44	1.56
10	O/TUR/152/03/03* (Lindholm)	TUR03-AE	639	626	0	97.97	2.03

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	O1/Manisa/TUR/69	TUR69--E	639	568	0	88.89	11.11
3	O/IND/53/79 [AF292107]	IND79A53	639	565	0	88.42	11.58
4	O/IND/R2/75* [AF204276]	IND75--A	639	561	0	87.79	12.21
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
6	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
7	O/ISR/2/88	ISR88-02	639	547	0	85.6	14.4
8	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	515	2	80.85	19.15
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: 29/08/2006						
WRL Ref No: ISR/9/2004							
Sender Ref: 423762							
Date collected: 08/02/2004							
Date received by WRLFMD: 13/01/2006	Topotype: ME-SA						
Date received for sequencing: 20/01/2006	Genotype/strain: PanAsia						
Species: not known	Sequence filename: ISR04-09.SEQ						
Material used: BTy1	Date sequence last updated: 08/06/2006						
Region sequenced: VP1	Total no. of comparisons: 1918						
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: 228 days						
No. of ambiguities: 0	Sequencing time: 221 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/ISR/8/2004	ISR04-08	639	639	0	100	0
2	O/ISR/3/2004	ISR04-03	639	637	0	99.69	0.31
3	O/ISR/4/2004	ISR04-04	639	637	0	99.69	0.31
4	O/ISR/2/2004	ISR04-02	639	637	0	99.69	0.31
5	O/ISR/7/2004	ISR04-07	639	636	0	99.53	0.47
6	O/ISR/10/2004	ISR04-10	639	634	0	99.22	0.78
7	O/ISR/11/2004	ISR04-11	632	627	7	99.21	0.79
8	O/IRN/6/2004	IRN04-06	639	632	0	98.9	1.1
9	O/LEB/1/2003	LEB03-01	639	629	0	98.44	1.56
10	O/TUR/152/03/03* (Lindholm)	TUR03-AE	639	626	0	97.97	2.03
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	O1/Manisa/TUR/69	TUR69--E	639	568	0	88.89	11.11
3	O/IND/53/79 [AF292107]	IND79A53	639	565	0	88.42	11.58
4	O/IND/R2/75* [AF204276]	IND75--A	639	561	0	87.79	12.21
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
6	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
7	O/ISR/2/88	ISR88-02	639	547	0	85.6	14.4
8	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	515	2	80.85	19.15
10	O1/BFS 1860/UK/67	UKG67--A	639	507	0	79.34	20.66
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: ISR/10/2004
Sender Ref: 424052
Date collected: 11/02/2004
Date received by WRLFMD: 13/01/2006
Date received for sequencing: 20/01/2006
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: 29/08/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: ISR04-10.SEQ
Date sequence last updated: 08/06/2006
Total no. of comparisons: 1918
Min. no. of nt for comparison: 300
Total turn-around time: 228 days
Sequencing time: 221 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ISR/3/2004	ISR04-03	639	636	0	99.53	0.47
2	O/ISR/4/2004	ISR04-04	639	636	0	99.53	0.47
3	O/ISR/2/2004	ISR04-02	639	636	0	99.53	0.47
4	O/ISR/7/2004	ISR04-07	639	635	0	99.37	0.63
5	O/ISR/8/2004	ISR04-08	639	634	0	99.22	0.78
6	O/ISR/9/2004	ISR04-09	639	634	0	99.22	0.78
7	O/ISR/11/2004	ISR04-11	632	627	7	99.21	0.79
8	O/IRN/6/2004	IRN04-06	639	631	0	98.75	1.25
9	O/LEB/1/2003	LEB03-01	639	628	0	98.28	1.72
10	O/TUR/152/03/03* (Lindholm)	TUR03-AE	639	627	0	98.12	1.88

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	O1/Manisa/TUR/69	TUR69--E	639	569	0	89.05	10.95
3	O/IND/53/79 [AF292107]	IND79A53	639	566	0	88.58	11.42
4	O/IND/R2/75* [AF204276]	IND75--A	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/MOR/1/91	MOR91-01	639	548	0	85.76	14.24
7	O/ISR/2/88	ISR88-02	639	548	0	85.76	14.24
8	O/PHI/5/95	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	516	2	81	19
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: 29/08/2006					
WRL Ref No: ISR/11/2004							
Sender Ref: 427382							
Date collected: 18/03/2004							
Date received by WRLFMD: 13/01/2006		Topotype: ME-SA					
Date received for sequencing: 20/01/2006		Genotype/strain: PanAsia					
Species: Cattle		Sequence filename: ISR04-11.SEQ					
Material used: BTy1		Date sequence last updated: 08/06/2006					
Region sequenced: VP1		Total no. of comparisons: 1918					
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 632		Total turn-around time: 228 days					
No. of ambiguities: 7		Sequencing time: 221 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/ISR/3/2004	ISR04-03	632	629	7	99.53	0.47
2	O/ISR/4/2004	ISR04-04	632	629	7	99.53	0.47
3	O/ISR/2/2004	ISR04-02	632	629	7	99.53	0.47
4	O/ISR/7/2004	ISR04-07	632	628	7	99.37	0.63
5	O/ISR/10/2004	ISR04-10	632	627	7	99.21	0.79
6	O/ISR/8/2004	ISR04-08	632	627	7	99.21	0.79
7	O/ISR/9/2004	ISR04-09	632	627	7	99.21	0.79
8	O/IRN/6/2004	IRN04-06	632	624	7	98.73	1.27
9	O/LEB/1/2003	LEB03-01	632	622	7	98.42	1.58
10	O/TUR/152/03/03* (Lindholm)	TUR03-AE	632	619	7	97.94	2.06
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	632	598	7	94.62	5.38
2	O1/Manisa/TUR/69	TUR69--E	632	563	7	89.08	10.92
3	O/IND/53/79 [AF292107]	IND79A53	632	558	7	88.29	11.71
4	O/IND/R2/75* [AF204276]	IND75--A	632	554	7	87.66	12.34
5	O/TAI/189/87* [TRRL]	TAI87-AC	632	549	7	86.87	13.13
6	O/MOR/1/91	MOR91-01	632	543	7	85.92	14.08
7	O/ISR/2/88	ISR88-02	632	543	7	85.92	14.08
8	O/PHI/5/95	PHI95-05	632	516	7	81.65	18.35
9	O/HKN/6/83	HKN83-06	630	513	9	81.43	18.57
10	O1/BFS 1860/UK/67	UKG67--A	632	502	7	79.43	20.57
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: ISR/1/2005
Sender Ref: 495739
Date collected: 19/12/2005
Date received by WRLFMD: 13/01/2006
Date received for sequencing: 20/01/2006
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: 29/08/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: ISR05-01.SEQ
Date sequence last updated: 08/06/2006
Total no. of comparisons: 1918
Min. no. of nt for comparison: 300
Total turn-around time: 228 days
Sequencing time: 221 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ISR/2/2005	ISR05-02	639	638	0	99.84	0.16
2	O/Snir/ISR/05* [DQ372716]	ISR05-AA	639	637	0	99.69	0.31
3	O/TUR/4/2005	TUR05-04	639	633	0	99.06	0.94
4	O/TUR/3/2005	TUR05-03	639	632	0	98.9	1.1
5	O/ISR/1/2006	ISR06-01	639	632	0	98.9	1.1
6	O/ISR/2/2006	ISR06-02	639	631	0	98.75	1.25
7	O/TUR/2/2005	TUR05-02	639	631	0	98.75	1.25
8	O/TUR/1/2005	TUR05-01	639	628	0	98.28	1.72
9	O/TUR/5/2005	TUR05-05	639	627	0	98.12	1.88
10	O/TUR/384/09/03* (Lindholm)	TUR03-AK	639	616	0	96.4	3.6

Relationships to Reference Virus Strains

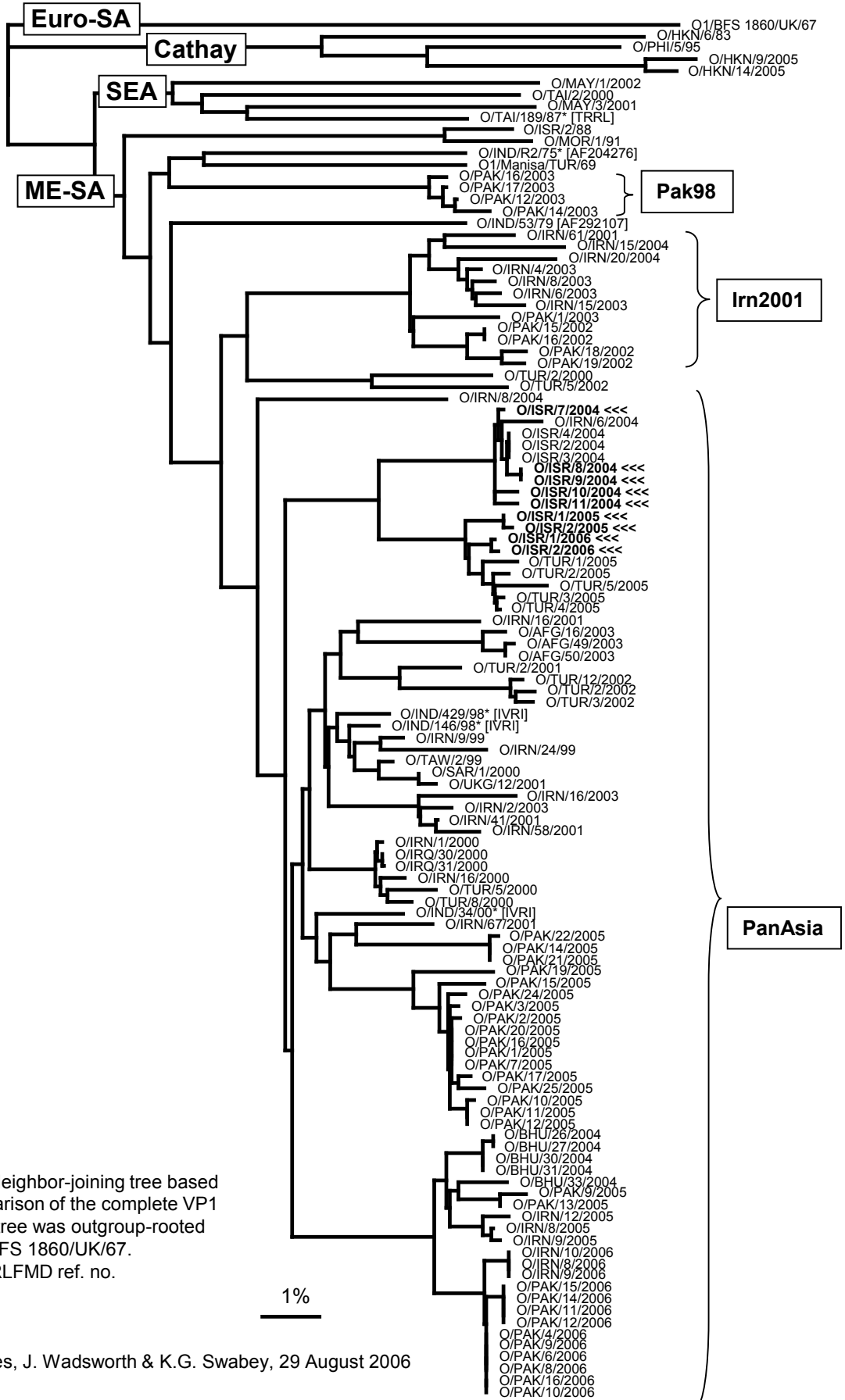
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	578	0	90.45	9.55
3	O/IND/R2/75* [AF204276]	IND75--A	639	575	0	89.98	10.02
4	O1/Manisa/TUR/69	TUR69--E	639	568	0	88.89	11.11
5	O/ISR/2/88	ISR88-02	639	561	0	87.79	12.21
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
7	O/MOR/1/91	MOR91-01	639	555	0	86.85	13.15
8	O/PHI/5/95	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	517	2	81.16	18.84
10	O1/BFS 1860/UK/67	UKG67--A	639	515	0	80.59	19.41

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O				Report date: 29/08/2006			
WRL Ref No: ISR/2/2005							
Sender Ref: 496035							
Date collected: 22/12/2005							
Date received by WRLFMD: 13/01/2006				Topotype: ME-SA			
Date received for sequencing: 20/01/2006				Genotype/strain: PanAsia			
Species: Cattle				Sequence filename: ISR05-02.SEQ			
Material used: BTy1				Date sequence last updated: 08/06/2006			
Region sequenced: VP1				Total no. of comparisons: 1918			
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: 228 days			
No. of ambiguities: 0				Sequencing time: 221 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/ISR/1/2005	ISR05-01	639	638	0	99.84	0.16
2	O/Snir/ISR/05* [DQ372716]	ISR05-AA	639	636	0	99.53	0.47
3	O/TUR/4/2005	TUR05-04	639	632	0	98.9	1.1
4	O/TUR/3/2005	TUR05-03	639	631	0	98.75	1.25
5	O/ISR/1/2006	ISR06-01	639	631	0	98.75	1.25
6	O/ISR/2/2006	ISR06-02	639	630	0	98.59	1.41
7	O/TUR/2/2005	TUR05-02	639	630	0	98.59	1.41
8	O/TUR/1/2005	TUR05-01	639	627	0	98.12	1.88
9	O/TUR/5/2005	TUR05-05	639	626	0	97.97	2.03
10	O/TUR/384/09/03* (Lindholm)	TUR03-AK	639	615	0	96.24	3.76
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	579	0	90.61	9.39
3	O/IND/R2/75* [AF204276]	IND75--A	639	574	0	89.83	10.17
4	O1/Manisa/TUR/69	TUR69--E	639	567	0	88.73	11.27
5	O/ISR/2/88	ISR88-02	639	560	0	87.64	12.36
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	554	0	86.7	13.3
8	O/PHI/5/95	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	516	2	81	19
10	O1/BFS 1860/UK/67	UKG67--A	639	516	0	80.75	19.25
nt, nucleotides							
*, not a WRLFMD reference number							

Report on FMDV-O from Israel in 2004-2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67.
 *, not a WRLFMD ref. no.

1%