

Serotype: O		Report date: 12/09/2007					
WRL Ref No: TUR/1/2007							
Sender Ref: 51/2007							
Date collected: 01/01/2007							
Date received by WRLFMD: 27/07/2007		Topotype: ME-SA					
Date received for sequencing: 23/08/2007		Genotype/strain: PanAsia					
Species: Cattle		Sequence filename: TUR07-01.SEQ					
Material used: BTy1		Date sequence last updated: 05/09/2007					
Region sequenced: VP1		Total no. of comparisons: 1667					
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: 47 days					
No. of ambiguities: 0		Sequencing time: 20 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/TUR/3/2007	TUR07-03	639	638	0	99.84	0.16
2	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
3	O/TUR/4/2007	TUR07-04	639	636	0	99.53	0.47
4	O/TUR/14/2007	TUR07-14	639	635	0	99.37	0.63
5	O/TUR/15/2007	TUR07-15	639	635	0	99.37	0.63
6	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
7	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
8	O/JOR/7/2006	JOR06-07	639	634	0	99.22	0.78
9	O/TUR/16/2007	TUR07-16	639	634	0	99.22	0.78
10	O/TUR/285/2007* (FMDI-Ankara)	TUR07-AA	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	559	0	87.48	12.52
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 (J02185)	UKG67--A	639	511	0	79.97	20.03
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: TUR/3/2007
Sender Ref: 13/2007
Date collected: 02/01/2007
Date received by WRLFMD: 27/07/2007
Date received for sequencing: 23/08/2007
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: 12/09/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: TUR07-03.SEQ
Date sequence last updated: 05/09/2007
Total no. of comparisons: 1667
Min. no. of nt for comparison: 300
Total turn-around time: 47 days
Sequencing time: 20 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TUR/1/2007	TUR07-01	639	638	0	99.84	0.16
2	O/JOR/6/2006	JOR06-06	639	637	0	99.69	0.31
3	O/TUR/4/2007	TUR07-04	639	637	0	99.69	0.31
4	O/TUR/14/2007	TUR07-14	639	636	0	99.53	0.47
5	O/TUR/15/2007	TUR07-15	639	636	0	99.53	0.47
6	O/IRN/39/2006	IRN06-39	639	635	0	99.37	0.63
7	O/ISR/3/2007	ISR07-03	639	635	0	99.37	0.63
8	O/JOR/7/2006	JOR06-07	639	635	0	99.37	0.63
9	O/TUR/16/2007	TUR07-16	639	635	0	99.37	0.63
10	O/TUR/285/2007* (FMDI-Ankara)	TUR07-AA	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	559	0	87.48	12.52
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 (J02185)	UKG67--A	639	510	0	79.81	20.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/4/2007	
Sender Ref: 5/2007	
Date collected: 04/01/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-04.SEQ
Material used: BTy1	Date sequence last updated: 05/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/JOR/6/2006	JOR06-06	639	639	0	100	0
2	O/TUR/14/2007	TUR07-14	639	638	0	99.84	0.16
3	O/IRN/39/2006	IRN06-39	639	637	0	99.69	0.31
4	O/ISR/3/2007	ISR07-03	639	637	0	99.69	0.31
5	O/JOR/7/2006	JOR06-07	639	637	0	99.69	0.31
6	O/TUR/16/2007	TUR07-16	639	637	0	99.69	0.31
7	O/TUR/3/2007	TUR07-03	639	637	0	99.69	0.31
8	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
9	O/ISR/1/2007	ISR07-01	639	636	0	99.53	0.47
10	O/SAU/1/2007	SAU07-01	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	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 (J02185)	UKG67--A	639	508	0	79.5	20.5

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O
WRL Ref No: TUR/6/2007
Sender Ref: 128/2007
Date collected: 23/01/2007
Date received by WRLFMD: 27/07/2007
Date received for sequencing: 23/08/2007
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: 12/09/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: TUR07-06.SEQ
Date sequence last updated: 05/09/2007
Total no. of comparisons: 1667
Min. no. of nt for comparison: 300
Total turn-around time: 47 days
Sequencing time: 20 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TUR/27/2007	TUR07-27	639	638	0	99.84	0.16
2	O/TUR/13/2007	TUR07-13	639	636	0	99.53	0.47
3	O/IRN/14/2007	IRN07-14	639	634	0	99.22	0.78
4	O/IRN/15/2006	IRN06-15	639	634	0	99.22	0.78
5	O/IRN/33/2006	IRN06-33	639	634	0	99.22	0.78
6	O/IRN/55/2006	IRN06-55	639	634	0	99.22	0.78
7	O/TUR/11/2007	TUR07-11	639	634	0	99.22	0.78
8	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94
9	O/IRN/37/2006	IRN06-37	639	633	0	99.06	0.94
10	O/IRN/48/2006	IRN06-48	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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	566	0	88.58	11.42
3	O/IND/R2/75* [AF204276]	IND75--A	639	564	0	88.26	11.74
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
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	516	0	80.75	19.25
9	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/9/2007	
Sender Ref: 238/2007	
Date collected: 04/02/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-09.SEQ
Material used: BTy1	Date sequence last updated: 05/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/TUR/13/2007	TUR07-13	639	636	0	99.53	0.47
2	O/IRN/15/2006	IRN06-15	639	634	0	99.22	0.78
3	O/IRN/33/2006	IRN06-33	639	634	0	99.22	0.78
4	O/IRN/55/2006	IRN06-55	639	634	0	99.22	0.78
5	O/TUR/11/2007	TUR07-11	639	634	0	99.22	0.78
6	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94
7	O/IRN/37/2006	IRN06-37	639	633	0	99.06	0.94
8	O/IRN/48/2006	IRN06-48	639	633	0	99.06	0.94
9	O/IRN/49/2006	IRN06-49	639	633	0	99.06	0.94
10	O/IRN/7/2007	IRN07-07	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	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	564	0	88.26	11.74
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	516	0	80.75	19.25
9	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides
 *, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/11/2007	
Sender Ref: 284/2007	
Date collected: 13/02/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-11.SEQ
Material used: BTy1	Date sequence last updated: 05/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/TUR/13/2007	TUR07-13	639	637	0	99.69	0.31
2	O/IRN/15/2006	IRN06-15	639	635	0	99.37	0.63
3	O/IRN/33/2006	IRN06-33	639	635	0	99.37	0.63
4	O/IRN/55/2006	IRN06-55	639	635	0	99.37	0.63
5	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
6	O/IRN/37/2006	IRN06-37	639	634	0	99.22	0.78
7	O/IRN/48/2006	IRN06-48	639	634	0	99.22	0.78
8	O/IRN/49/2006	IRN06-49	639	634	0	99.22	0.78
9	O/IRN/7/2007	IRN07-07	639	634	0	99.22	0.78
10	O/TUR/1423/2006* (FMDI-Ankara)	TUR06-AA	638	633	1	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	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	561	0	87.79	12.21
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	554	0	86.7	13.3
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	508	2	79.75	20.25
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/13/2007	
Sender Ref: 357/2007	
Date collected: 25/02/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-13.SEQ
Material used: BTy1	Date sequence last updated: 05/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 47 days
No. of Nt determined: 639	Sequencing time: 20 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/33/2006	IRN06-33	639	637	0	99.69	0.31
3	O/IRN/55/2006	IRN06-55	639	637	0	99.69	0.31
4	O/TUR/11/2007	TUR07-11	639	637	0	99.69	0.31
5	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
6	O/IRN/37/2006	IRN06-37	639	636	0	99.53	0.47
7	O/IRN/48/2006	IRN06-48	639	636	0	99.53	0.47
8	O/IRN/49/2006	IRN06-49	639	636	0	99.53	0.47
9	O/IRN/7/2007	IRN07-07	639	636	0	99.53	0.47
10	O/TUR/1423/2006* (FMDI-Ankara)	TUR06-AA	638	635	1	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	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	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	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 (J02185)	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides
 *, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/14/2007	
Sender Ref: 382/2007	
Date collected: 26/02/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-14.SEQ
Material used: BTy1	Date sequence last updated: 05/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/39/2006	IRN06-39	639	638	0	99.84	0.16
2	O/JOR/6/2006	JOR06-06	639	638	0	99.84	0.16
3	O/TUR/4/2007	TUR07-04	639	638	0	99.84	0.16
4	O/IRN/12/2006	IRN06-12	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/38/2006	IRN06-38	639	636	0	99.53	0.47
10	O/IRN/51/2006	IRN06-51	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	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	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 (J02185)	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: TUR/15/2007
Sender Ref: 379/2007
Date collected: 01/03/2007
Date received by WRLFMD: 27/07/2007
Date received for sequencing: 23/08/2007
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: 12/09/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: TUR07-15.SEQ
Date sequence last updated: 05/09/2007
Total no. of comparisons: 1667
Min. no. of nt for comparison: 300
Total turn-around time: 47 days
Sequencing time: 20 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TUR/23/2007	TUR07-23	639	637	0	99.69	0.31
2	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
3	O/TUR/16/2007	TUR07-16	639	636	0	99.53	0.47
4	O/TUR/3/2007	TUR07-03	639	636	0	99.53	0.47
5	O/TUR/4/2007	TUR07-04	639	636	0	99.53	0.47
6	O/TUR/1/2007	TUR07-01	639	635	0	99.37	0.63
7	O/TUR/14/2007	TUR07-14	639	635	0	99.37	0.63
8	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
9	O/IRN/38/2006	IRN06-38	639	634	0	99.22	0.78
10	O/IRN/39/2006	IRN06-39	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	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	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	559	0	87.48	12.52
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	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 (J02185)	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/18/2007	
Sender Ref: 446/2007	
Date collected: 15/03/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-18.SEQ
Material used: BTy1	Date sequence last updated: 04/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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	638	0	99.84	0.16
2	O/IRN/20/2006	IRN06-20	639	637	0	99.69	0.31
3	O/TUR/30/2007	TUR07-30	639	637	0	99.69	0.31
4	O/IRN/12/2006	IRN06-12	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/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/9/2007	IRN07-09	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	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	553	0	86.54	13.46
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	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 (J02185)	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/20/2007	
Sender Ref: 529/2007	
Date collected: 23/03/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Goat	Sequence filename: TUR07-20.SEQ
Material used: BTy1	Date sequence last updated: 10/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/TUR/13/2007	TUR07-13	639	636	0	99.53	0.47
2	O/IRN/15/2006	IRN06-15	639	634	0	99.22	0.78
3	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
4	O/IRN/33/2006	IRN06-33	639	634	0	99.22	0.78
5	O/IRN/55/2006	IRN06-55	639	634	0	99.22	0.78
6	O/TUR/11/2007	TUR07-11	639	634	0	99.22	0.78
7	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94
8	O/IRN/37/2006	IRN06-37	639	633	0	99.06	0.94
9	O/IRN/48/2006	IRN06-48	639	633	0	99.06	0.94
10	O/IRN/49/2006	IRN06-49	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	599	0	93.74	6.26
2	O/IND/53/79 [AF292107]	IND79A53	639	566	0	88.58	11.42
3	O/IND/R2/75* [AF204276]	IND75--A	639	564	0	88.26	11.74
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	552	0	86.38	13.62
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	549	0	85.92	14.08
7	O/MOR/1/91	MOR91-01	639	545	0	85.29	14.71
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	514	0	80.44	19.56
9	O/HKN/6/83	HKN83-06	637	507	2	79.59	20.41
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	507	0	79.34	20.66

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/23/2007	
Sender Ref: 504/2007	
Date collected: 27/03/2007	Topotype: ME-SA
Date received by WRLFMD: 27/07/2007	Genotype/strain: PanAsia
Date received for sequencing: 23/08/2007	Sequence filename: TUR07-23.SEQ
Species: Sheep	Date sequence last updated: 10/09/2007
Material used: BTy2	Total no. of comparisons: 1667
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: 47 days
No. of Nt determined: 639	Sequencing time: 20 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/TUR/15/2007	TUR07-15	639	637	0	99.69	0.31
2	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
3	O/TUR/16/2007	TUR07-16	639	636	0	99.53	0.47
4	O/TUR/4/2007	TUR07-04	639	636	0	99.53	0.47
5	O/TUR/14/2007	TUR07-14	639	635	0	99.37	0.63
6	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
7	O/IRN/38/2006	IRN06-38	639	634	0	99.22	0.78
8	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
9	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
10	O/JOR/7/2006	JOR06-07	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	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	568	0	88.89	11.11
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	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	515	0	80.59	19.41
9	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	509	0	79.66	20.34
10	O/HKN/6/83	HKN83-06	637	507	2	79.59	20.41

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/27/2007	
Sender Ref: 596/2007	
Date collected: 19/04/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-27.SEQ
Material used: BTy1	Date sequence last updated: 10/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/TUR/6/2007	TUR07-06	639	638	0	99.84	0.16
2	O/TUR/13/2007	TUR07-13	639	635	0	99.37	0.63
3	O/IRN/14/2007	IRN07-14	639	633	0	99.06	0.94
4	O/IRN/15/2006	IRN06-15	639	633	0	99.06	0.94
5	O/IRN/33/2006	IRN06-33	639	633	0	99.06	0.94
6	O/IRN/55/2006	IRN06-55	639	633	0	99.06	0.94
7	O/TUR/11/2007	TUR07-11	639	633	0	99.06	0.94
8	O/IRN/12/2006	IRN06-12	639	632	0	98.9	1.1
9	O/IRN/24/2006	IRN06-24	639	632	0	98.9	1.1
10	O/IRN/37/2006	IRN06-37	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	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	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 (J02185)	UKG67--A	639	508	0	79.5	20.5

nt, nucleotides
 *, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/28/2007	
Sender Ref: 639/2007	
Date collected: 24/04/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-28.SEQ
Material used: BTy1	Date sequence last updated: 04/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/JOR/6/2006	JOR06-06	639	634	0	99.22	0.78
2	O/TUR/285/2007* (FMDI-Ankara)	TUR07-AA	639	634	0	99.22	0.78
3	O/TUR/3/2007	TUR07-03	639	634	0	99.22	0.78
4	O/TUR/4/2007	TUR07-04	639	634	0	99.22	0.78
5	O/TUR/1/2007	TUR07-01	639	633	0	99.06	0.94
6	O/TUR/14/2007	TUR07-14	639	633	0	99.06	0.94
7	O/IRN/39/2006	IRN06-39	639	632	0	98.9	1.1
8	O/ISR/3/2007	ISR07-03	639	632	0	98.9	1.1
9	O/JOR/7/2006	JOR06-07	639	632	0	98.9	1.1
10	O/TUR/16/2007	TUR07-16	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	599	0	93.74	6.26
2	O/IND/53/79 [AF292107]	IND79A53	639	566	0	88.58	11.42
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/TAI/189/87* [TRRL]	TAI87-AC	639	552	0	86.38	13.62
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	516	0	80.75	19.25
9	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	508	0	79.5	20.5
10	O/HKN/6/83	HKN83-06	637	506	2	79.43	20.57

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: TUR/29/2007
Sender Ref: 630/2007
Date collected: 26/04/2007
Date received by WRLFMD: 27/07/2007
Date received for sequencing: 23/08/2007
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: 12/09/2007
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: TUR07-29.SEQ
Date sequence last updated: 04/09/2007
Total no. of comparisons: 1667
Min. no. of nt for comparison: 300
Total turn-around time: 47 days
Sequencing time: 20 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TUR/285/2007* (FMDI-Ankara)	TUR07-AA	639	631	0	98.75	1.25
2	O/TUR/3/2007	TUR07-03	639	631	0	98.75	1.25
3	O/TUR/1/2007	TUR07-01	639	630	0	98.59	1.41
4	O/TUR/28/2007	TUR07-28	639	630	0	98.59	1.41
5	O/JOR/6/2006	JOR06-06	639	629	0	98.44	1.56
6	O/TUR/4/2007	TUR07-04	639	629	0	98.44	1.56
7	O/TUR/14/2007	TUR07-14	639	628	0	98.28	1.72
8	O/TUR/15/2007	TUR07-15	639	628	0	98.28	1.72
9	O/IRN/39/2006	IRN06-39	639	627	0	98.12	1.88
10	O/ISR/3/2007	ISR07-03	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	594	0	92.96	7.04
2	O/IND/R2/75* [AF204276]	IND75--A	639	564	0	88.26	11.74
3	O/IND/53/79 [AF292107]	IND79A53	639	563	0	88.11	11.89
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	557	0	87.17	12.83
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	547	0	85.6	14.4
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	546	0	85.45	14.55
7	O/MOR/1/91	MOR91-01	639	542	0	84.82	15.18
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	515	0	80.59	19.41
9	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	510	0	79.81	20.19
10	O/HKN/6/83	HKN83-06	637	507	2	79.59	20.41

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O	Report date: 12/09/2007
WRL Ref No: TUR/30/2007	
Sender Ref: 644/2007	
Date collected: 02/05/2007	
Date received by WRLFMD: 27/07/2007	Topotype: ME-SA
Date received for sequencing: 23/08/2007	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: TUR07-30.SEQ
Material used: BTy1	Date sequence last updated: 04/09/2007
Region sequenced: VP1	Total no. of comparisons: 1667
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: 47 days
No. of ambiguities: 0	Sequencing time: 20 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/TUR/18/2007	TUR07-18	639	637	0	99.69	0.31
2	O/IRN/20/2007	IRN07-20	639	636	0	99.53	0.47
3	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
4	O/IRN/12/2006	IRN06-12	639	634	0	99.22	0.78
5	O/IRN/56/2006	IRN06-56	639	634	0	99.22	0.78
6	O/PAK/10/2006	PAK06-10	639	634	0	99.22	0.78
7	O/PAK/16/2006	PAK06-16	639	634	0	99.22	0.78
8	O/PAK/4/2006	PAK06-04	639	634	0	99.22	0.78
9	O/PAK/6/2006	PAK06-06	639	634	0	99.22	0.78
10	O/PAK/8/2006	PAK06-08	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	604	0	94.52	5.48
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	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	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 (J02185)	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

*, not a WRLFMD reference number

Report on 17 FMD type O viruses from Turkey in 2007

Software: MEGA 3.1
 No. of Taxa : 197
 Data File : n:\evd\meg\db\fmd\vo\tUR2007b.meg
 Data Title : O Turkey 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: 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 = 1000
 Only bootstrap values of 70% and above are shown
 N.J. Knowles & J. Wadsworth, 12 September 2007

