

Serotype: O
WRL Ref No: ETH/3/2004
Sender Ref: ETH-80 11
Date collected: 2004
Date received by WRLFMD: 23/10/2007
Date received for sequencing: 05/11/2007
Species: Cattle
Material used: BHK1 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: 23/11/2007
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: ETH04-03.SEQ
Date sequence last updated: 20/11/2007
Total no. of comparisons: 1695
Min. no. of nt for comparison: 300
Total turn-around time: 31 days
Sequencing time: 18 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ETH/38/2005 (2003/4)	ETH05-38	639	634	0	99.22	0.78
2	O/ETH/54/2006	ETH06-54	639	634	0	99.22	0.78
3	O/YEM/28/2004	YEM04-28	639	632	0	98.9	1.1
4	O/YEM/35/2004	YEM04-35	639	632	0	98.9	1.1
5	O/YEM/66/2004	YEM04-66	639	631	0	98.75	1.25
6	O/YEM/70/2004	YEM04-70	639	631	0	98.75	1.25
7	O/ETH/49/2005	ETH05-49	639	630	0	98.59	1.41
8	O/ETH/51/2005	ETH05-51	639	630	0	98.59	1.41
9	O/ETH/52/2005	ETH05-52	639	630	0	98.59	1.41
10	O/ETH/53/2005	ETH05-53	639	630	0	98.59	1.41

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	551	0	86.23	13.77
2	O/TAW/2/99	TAW99-02	639	551	0	86.23	13.77
3	O/IND/R2/75* [AF204276]	IND75--A	639	548	0	85.76	14.24
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	545	0	85.29	14.71
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	544	0	85.13	14.87
6	O/MOR/1/91	MOR91-01	639	543	0	84.98	15.02
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	541	0	84.66	15.34
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	507	0	79.34	20.66
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	506	0	79.19	20.81
10	O/HKN/6/83	HKN83-06	637	502	2	78.81	21.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O

Report date: 23/11/2007

WRL Ref No: ETH/54/2006

Sender Ref: ETH-86 20

Date collected: 2006

Date received by WRLFMD: 23/10/2007

Topotype: EA-3

Date received for sequencing: 05/11/2007

Genotype/strain: none designated

Species: Cattle

Sequence filename: ETH06-54.SEQ

Material used: BHK1 BTy1

Date sequence last updated: 15/11/2007

Region sequenced: VP1

Total no. of comparisons: 1695

RT-PCR primers: O-1C244F/EUR-2B52R;
O-1C272F/EUR-2B52R

Min. no. of nt for comparison: 300

Total turn-around time: 31 days

No. of Nt determined: 639

Sequencing time: 18 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/ETH/38/2005 (2003/4)	ETH05-38	639	639	0	100	0
2	O/YEM/28/2004	YEM04-28	639	637	0	99.69	0.31
3	O/YEM/35/2004	YEM04-35	639	637	0	99.69	0.31
4	O/YEM/66/2004	YEM04-66	639	636	0	99.53	0.47
5	O/ETH/49/2005	ETH05-49	639	635	0	99.37	0.63
6	O/ETH/51/2005	ETH05-51	639	635	0	99.37	0.63
7	O/ETH/52/2005	ETH05-52	639	635	0	99.37	0.63
8	O/ETH/53/2005	ETH05-53	639	635	0	99.37	0.63
9	O/ETH/62/2005	ETH05-62	639	635	0	99.37	0.63
10	O/YEM/21/2004	YEM04-21	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	552	0	86.38	13.62
2	O/IND/53/79 [AF292107]	IND79A53	639	550	0	86.07	13.93
3	O/IND/R2/75* [AF204276]	IND75--A	639	547	0	85.6	14.4
4	O/ISR/2/88 (DQ164899)	ISR88-02	639	545	0	85.29	14.71
5	O/MOR/1/91	MOR91-01	639	544	0	85.13	14.87
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	544	0	85.13	14.87
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	540	0	84.51	15.49
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	508	0	79.5	20.5
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	506	0	79.19	20.81
10	O/HKN/6/83	HKN83-06	637	502	2	78.81	21.19

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 23/11/2007
WRL Ref No: ETH/62/2006	
Sender Ref: ETH-70 70	
Date collected: 2006	
Date received by WRLFMD: 23/10/2007	
Date received for sequencing: 05/11/2007	Topotype: EA-3
Species: Cattle	Genotype/strain: none designated
Material used: BHK1 BTy1	Sequence filename: ETH06-62.SEQ
Region sequenced: VP1	Date sequence last updated: 15/11/2007
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Total no. of comparisons: 1695
No. of Nt determined: 639	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 31 days
Gene length: 639	Sequencing time: 18 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ETH/46/2006	ETH06-46	639	639	0	100	0
2	O/ETH/48/2006	ETH06-48	639	639	0	100	0
3	O/ETH/5/95 (OVI)	ETH95A05	495	464	0	93.74	6.26
4	O/ETH/1/2005	ETH05-01	639	595	0	93.11	6.89
5	O/ETH/3/90 (OVI)	ETH90A03	495	459	0	92.73	7.27
6	O/ETH/12/90 (OVI)	ETH90A12	495	458	0	92.53	7.47
7	O/ETH/8/90 (OVI)	ETH90A08	495	457	0	92.32	7.68
8	O/ETH/54/2005	ETH05-54	639	589	0	92.18	7.82
9	O/ETH/57/2005	ETH05-57	639	589	0	92.18	7.82
10	O/ETH/66/2005	ETH05-66	639	589	0	92.18	7.82

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79 [AF292107]	IND79A53	639	559	0	87.48	12.52
2	O/MOR/1/91	MOR91-01	639	555	0	86.85	13.15
3	O/TAW/2/99	TAW99-02	639	555	0	86.85	13.15
4	O/IND/R2/75* [AF204276]	IND75--A	639	554	0	86.7	13.3
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	554	0	86.7	13.3
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	548	0	85.76	14.24
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	540	0	84.51	15.49
8	O/HKN/6/83	HKN83-06	637	514	2	80.69	19.31
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	514	0	80.44	19.56
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	504	0	78.87	21.13

nt, nucleotides
*, not a WRLFMD reference number

Report on FMDV O/Ethiopia/2004-2006

No. of Taxa : 133
 Data File : n:\levd\meg\db\fmdv\o\ETH2006c.meg
 Data Title : Ethiopia 2004 & 2006
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 Method : Neighbor-Joining
 Phylogeny Test and options : Bootstrap (1000 replicates; seed=90035)
 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 : 642
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 26 November 2007

