

Serotype: O
WRL Ref No: ETH/46/2006
Sender Ref: ETH 70
Date collected: 28/12/2006
Date received by WRLFMD: 16/03/2007
Date received for sequencing: 02/04/2007
Species: Not known
Material used: BHK BTy1
Region sequenced: VP1
RT-PCR primers: O-1C283F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 02/05/2007
Topotype: EA-3
Genotype/strain: none designated
Sequence filename: ETH06-46.SEQ
Date sequence last updated: 26/04/2007
Total no. of comparisons: 1590
Min. no. of nt for comparison: 300
Total turn-around time: 47 days
Sequencing time: 30 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/48/2006	ETH06-48	639	639	0	100	0
2	O/ETH/5/95 (OVI)	ETH95A05	495	464	0	93.74	6.26
3	O/ETH/1/2005	ETH05-01	639	595	0	93.11	6.89
4	O/ETH/3/90 (OVI)	ETH90A03	495	459	0	92.73	7.27
5	O/ETH/12/90 (OVI)	ETH90A12	495	458	0	92.53	7.47
6	O/ETH/8/90 (OVI)	ETH90A08	495	457	0	92.32	7.68
7	O/ETH/54/2005	ETH05-54	639	589	0	92.18	7.82
8	O/ETH/57/2005	ETH05-57	639	589	0	92.18	7.82
9	O/ETH/66/2005	ETH05-66	639	589	0	92.18	7.82
10	O/ETH/67/2005	ETH05-67	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	UKG67--A	639	504	0	78.87	21.13

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 02/05/2007						
WRL Ref No: ETH/48/2006							
Sender Ref: ETH 72							
Date collected: 28/12/2006							
Date received by WRLFMD: 16/03/2007	Topotype: EA-3						
Date received for sequencing: 02/04/2007	Genotype/strain: none designated						
Species: Not known	Sequence filename: ETH06-48.SEQ						
Material used: BHK BTy1	Date sequence last updated: 26/04/2007						
Region sequenced: VP1	Total no. of comparisons: 1590						
RT-PCR primers: O-1C283F/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: 30 days						
Gene length: 639							
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nt, nucleotides							
*, not a WRLFMD reference number							

Report on FMDV O in Ethiopia in 2006

Software: MEGA 3.1

No. of Taxa : 126

Data File : n:\levd\meg\db\fmvd\o\ETH2006B.meg

Data Title : ETH 2006

Data Type : Nucleotide (Coding)

Analysis : Phylogeny reconstruction

Tree Inference : =====

Method : Neighbor-Joining

Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)

Include Sites : =====

Gaps/Missing Data : Pairwise Deletion

Codon Positions : 1st+2nd+3rd+Noncoding

Substitution Model : =====

Model : Nucleotide: p-distance

Substitutions to Include : d: Transitions + Transversions

Pattern among Lineages : Same (Homogeneous)

Rates among sites : Uniform rates

No. of Sites : 642

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% or more are shown

* Not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 11 May 2007

