

Serotype: O	Report date: 12/06/2008
WRL Ref No: ETH/26/2007	
Sender Ref: ETH/22/07	
Date collected: 01/12/2007	
Date received by WRLFMD: 28/03/2008	Topotype: EA-3
Date received for sequencing: 16/04/2008	Genotype/strain: none designated
Species: Not known	Sequence filename: ETH07-26.SEQ
Material used: BTy1	Date sequence last updated: 13/05/08
Region sequenced: VP1	Total no. of comparisons: 1753
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: 76 days
No. of ambiguities: 0	Sequencing time: 57 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/ETH/27/2007	ETH07-27	639	639	0	100	0
2	O/ETH/28/2007	ETH07-28	639	639	0	100	0
3	O/ETH/1/2007	ETH07-01	639	632	0	98.9	1.1
4	O/ETH/5/95 (AY283388)	ETH95A05	495	464	0	93.74	6.26
5	O/ETH/1/2005	ETH05-01	639	595	0	93.11	6.89
6	O/ETH/38/2005 (2003/4)	ETH05-38	639	591	0	92.49	7.51
7	O/ETH/54/2006	ETH06-54	639	591	0	92.49	7.51
8	O/ETH/49/2005	ETH05-49	639	589	0	92.18	7.82
9	O/ETH/51/2005	ETH05-51	639	589	0	92.18	7.82
10	O/ETH/52/2005	ETH05-52	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	560	0	87.64	12.36
2	O/TAW/2/99 (AJ294927)	TAW99-02	639	553	0	86.54	13.46
3	O/IND/R2/75* [AF204276]	IND75--A	639	552	0	86.38	13.62
4	O/ISR/2/88 (DQ164899)	ISR88-02	639	545	0	85.29	14.71
5	O/MOR/1/91	MOR91-01	639	543	0	84.98	15.02
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	542	0	84.82	15.18
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	538	0	84.19	15.81
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	513	0	80.28	19.72
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	505	2	79.28	20.72
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	501	0	78.4	21.6

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/06/2008
WRL Ref No: ETH/27/2007	
Sender Ref: ETH/23/07	
Date collected: 01/12/2007	
Date received by WRLFMD: 28/03/2008	Topotype: EA-3
Date received for sequencing: 16/04/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: ETH07-27.SEQ
Material used: BTy1	Date sequence last updated: 13/05/08
Region sequenced: VP1	Total no. of comparisons: 1753
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 76 days
No. of Nt determined: 639	Sequencing time: 57 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

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2	O/ETH/28/2007	ETH07-28	639	639	0	100	0
3	O/ETH/1/2007	ETH07-01	639	632	0	98.9	1.1
4	O/ETH/5/95 (AY283388)	ETH95A05	495	464	0	93.74	6.26
5	O/ETH/1/2005	ETH05-01	639	595	0	93.11	6.89
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7	O/ETH/54/2006	ETH06-54	639	591	0	92.49	7.51
8	O/ETH/49/2005	ETH05-49	639	589	0	92.18	7.82
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7	O/TAI/189/87* [TRRL]	TAI87-AC	639	538	0	84.19	15.81
8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	513	0	80.28	19.72
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	505	2	79.28	20.72
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	501	0	78.4	21.6

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 12/06/2008
WRL Ref No: ETH/28/2007	
Sender Ref: ETH/24/07	
Date collected: 01/12/2007	
Date received by WRLFMD: 28/03/2008	Topotype: EA-3
Date received for sequencing: 16/04/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: ETH07-28.SEQ
Material used: BTy1	Date sequence last updated: 13/05/08
Region sequenced: VP1	Total no. of comparisons: 1753
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 76 days
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7	O/ETH/54/2006	ETH06-54	639	591	0	92.49	7.51
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3	O/IND/R2/75* [AF204276]	IND75--A	639	552	0	86.38	13.62
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5	O/MOR/1/91	MOR91-01	639	543	0	84.98	15.02
6	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	542	0	84.82	15.18
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8	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	513	0	80.28	19.72
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	505	2	79.28	20.72
10	O/PHI/5/95 (DQ164946)	PHI95-05	639	501	0	78.4	21.6

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O in Ethiopia in 2007

Software: MEGA 4.0

No. of Taxa : 137

Data File : n:\levd\meg\db\fmv\o\ETH2007b.meg

Data Title : Ethiopia 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

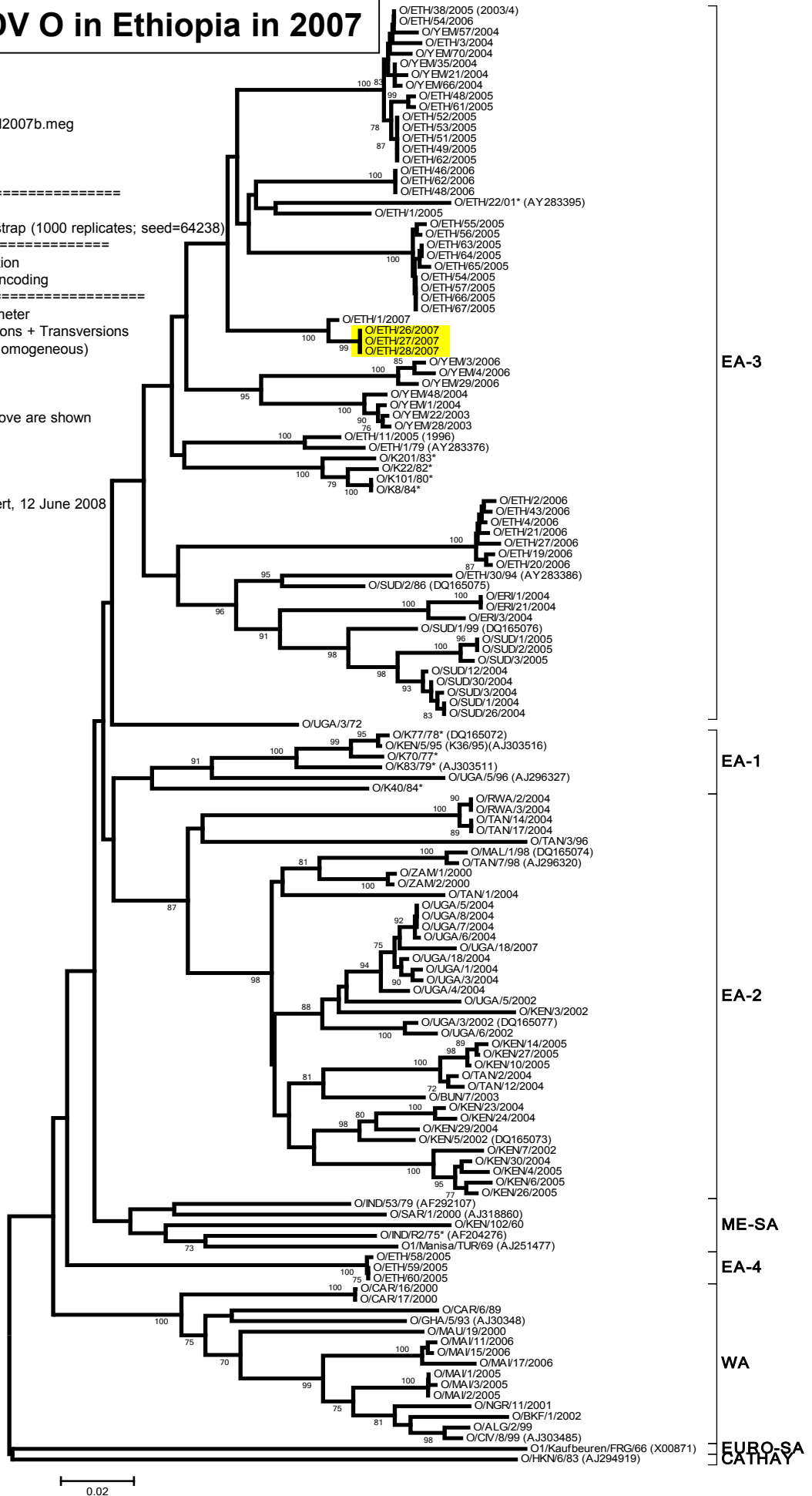
No. of Sites : 681

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

* , not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Ebert, 12 June 2008



EA-3

EA-1

EA-2

ME-SA

EA-4

WA

EURO-SA
CATHAY