

Serotype: O
WRL Ref No: ZAM/1/2000
Date collected: 25/02/2000
Date received: 17/05/2004
Species: Bovine
Material used: IRPI2 BTY1
Region sequenced: VP1
RT-PCR primers: O-1C244F/NK61; O-1C283F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 01/11/2004
Topotype: EA-2
Genotype/strain: none
Sequence filename: ZAM00-01.SEQ
Date sequence last updated: 31/08/2004
Total no. of comparisons: 1517

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ZAM/2/2000	ZAM00-02	639	637	0	99.69	0.31
2	O/TAN/9/98	TAN98-09	639	604	0	94.52	5.48
3	O/TAN/7/98	TAN98-07	627	592	9	94.42	5.58
4	O/MAL/1/98	MAL98-01	639	603	0	94.37	5.63
5	O/UGA/8/2004	UGA04-08	639	600	0	93.9	6.1
6	O/UGA/7/2004	UGA04-07	639	600	0	93.9	6.1
7	O/UGA/5/2004	UGA04-05	639	600	0	93.9	6.1
8	O/UGA/6/2004	UGA04-06	639	599	0	93.74	6.26
9	O/UGA/18/2004	UGA04-18	639	598	0	93.58	6.42
10	O/UGA/5/2002	UGA02-05	587	548	4	93.36	6.64

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	IND79A53	639	554	0	86.7	13.3
2	O/MOR/1/91	MOR91-01	207	179	3	86.47	13.53
3	O/IND/R2/75*	IND75--A	639	551	0	86.23	13.77
4	O/ISR/2/88	ISR88-02	639	549	0	85.92	14.08
5	O/TAW/2/99	TAW99-02	639	549	0	85.92	14.08
6	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
7	O/TAI/189/87*	TAI87-AC	639	527	0	82.47	17.53
8	O1/BFS 1860/UK/67	UKG67--A	639	518	0	81.06	18.94
9	O/PHI/5/95	PHI95-05	639	515	0	80.59	19.41
10	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09

nt, nucleotides

*, not a WRLFMD reference number

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 RT-PCR primers: O-1C244F/NK61; O-1C283F/NK61
 No. of Nt determined: 639
 No. of ambiguities: 0
 Gene length: 639

Report date: 01/11/2004
 Topotype: EA-2
 Genotype/strain: none
 Sequence filename: ZAM00-02.SEQ
 Date sequence last updated: 31/08/2004
 Total no. of comparisons: 1517

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
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5	O/UGA/8/2004	UGA04-08	639	600	0	93.9	6.1
6	O/UGA/7/2004	UGA04-07	639	600	0	93.9	6.1
7	O/UGA/5/2004	UGA04-05	639	600	0	93.9	6.1
8	O/UGA/6/2004	UGA04-06	639	599	0	93.74	6.26
9	O/UGA/18/2004	UGA04-18	639	598	0	93.58	6.42
10	O/UGA/5/2002	UGA02-05	587	548	4	93.36	6.64

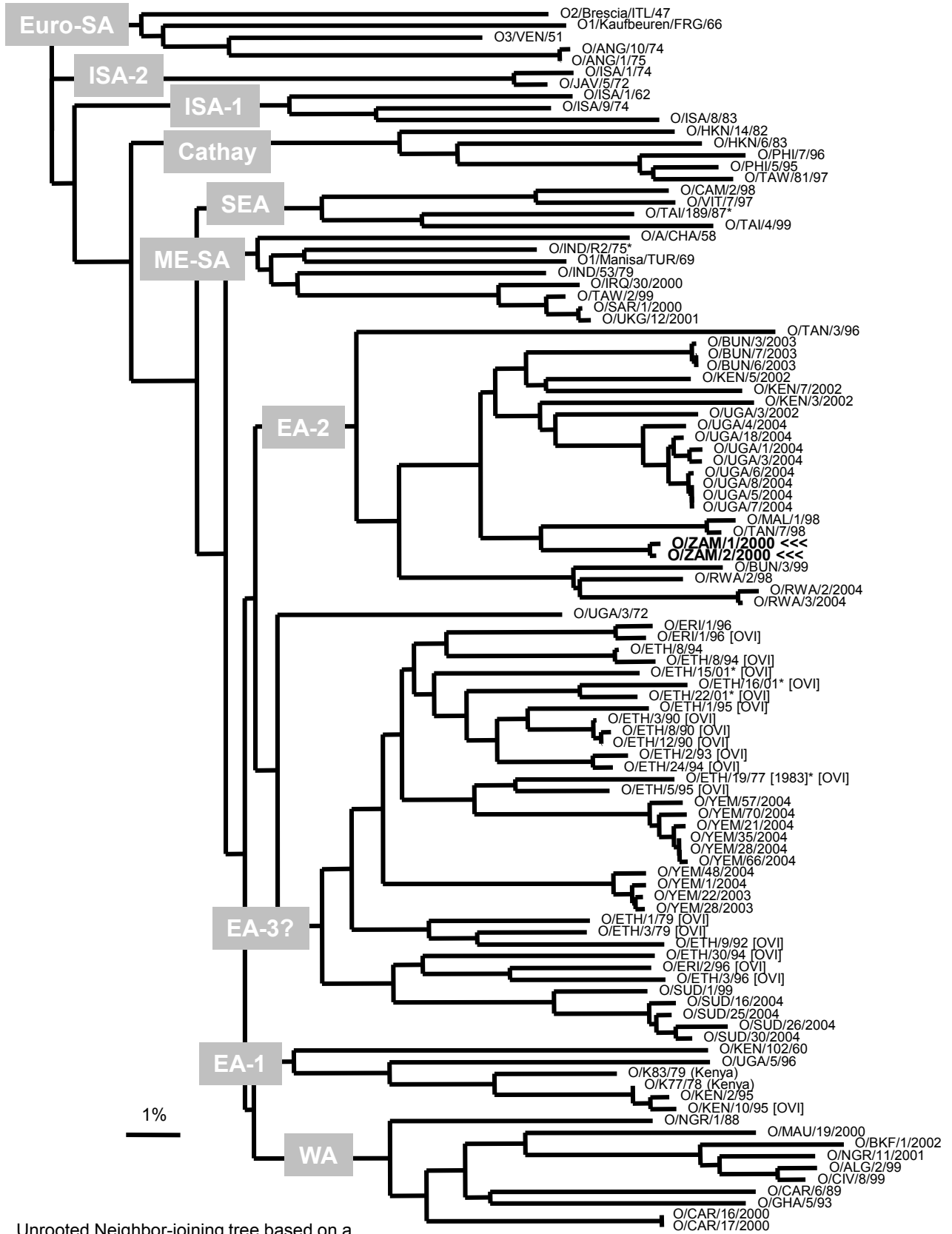
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	556	0	87.01	12.99
2	O/MOR/1/91	MOR91-01	207	180	3	86.96	13.04
3	O/IND/R2/75*	IND75--A	639	551	0	86.23	13.77
4	O/ISR/2/88	ISR88-02	639	549	0	85.92	14.08
5	O/TAW/2/99	TAW99-02	639	549	0	85.92	14.08
6	O1/Manisa/TUR/69	TUR69--E	639	546	0	85.45	14.55
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9	O/PHI/5/95	PHI95-05	639	517	0	80.91	19.09
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nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Zambia 2000



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene (~639 nt). The tree was outgroup-rooted using the Euro-SA topotype sequences. Sequences from the Onderstepoort Veterinary Institute (OVI), South Africa were shorter (495 nt).

N.J. Knowles, P.R. Davies, R. J. Midgley & J.-F. Valarcher, 27 October 2004