

Serotype: O	Report date: 11/11/2004
WRL Ref No: RWA/2/2004	
Date collected: not known	
Date received: 06/07/2004	Topotype: EA-2
Species: not known	Genotype/strain: none
Material used: PK1 RS2 BTy1	Sequence filename: RWA04-02.SEQ
Region sequenced: VP1	Date sequence last updated: 10/11/2004
RT-PCR primers: O-1C272F/NK61	Total no. of comparisons: 1531
No. of Nt determined: 639	Min. no. of nt for comparison: 300
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/RWA/3/2004	RWA04-03	639	639	0	100	0
2	O/RWA/2/98	RWA98-02	637	606	2	95.13	4.87
3	O/BUN/3/99	BUN99-03	639	601	0	94.05	5.95
4	O/TAN/1/85	TAN85-01	639	570	0	89.2	10.8
5	O/TAN/9/98	TAN98-09	639	569	0	89.05	10.95
6	O/MAL/1/98	MAL98-01	639	568	0	88.89	11.11
7	O/TAN/7/98	TAN98-07	627	557	9	88.84	11.16
8	O/ZAM/1/2000	ZAM00-01	639	567	0	88.73	11.27
9	O/ZAM/2/2000	ZAM00-02	639	567	0	88.73	11.27
10	O/UGA/18/2004	UGA04-18	639	565	0	88.42	11.58

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/MOR/1/91	MOR91-01	207	178	3	85.99	14.01
2	O/ISR/2/88	ISR88-02	639	546	0	85.45	14.55
3	O/IND/53/79	IND79A53	639	542	0	84.82	15.18
4	O1/Manisa/TUR/69	TUR69--E	639	541	0	84.66	15.34
5	O/IND/R2/75*	IND75--A	639	540	0	84.51	15.49
6	O/TAW/2/99	TAW99-02	639	540	0	84.51	15.49
7	O/TAI/189/87*	TAI87-AC	639	526	0	82.32	17.68
8	O/PHI/5/95	PHI95-05	639	512	0	80.13	19.87
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67	UKG67--A	639	503	0	78.72	21.28

nt, nucleotides

*, not a WRLFMD reference number

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Region sequenced: VP1	Date sequence last updated: 10/11/2004
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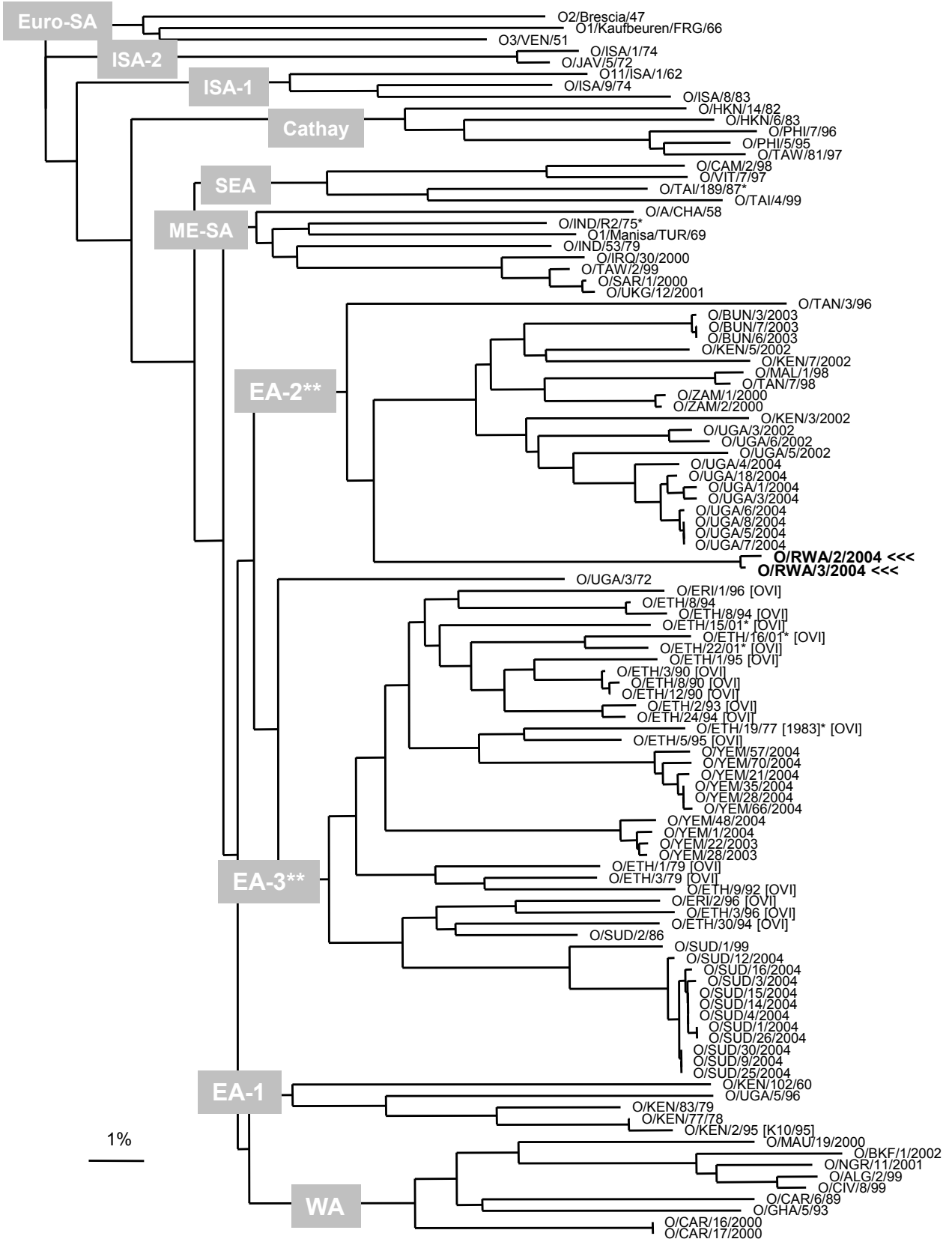
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nt, nucleotides

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Report on FMDV O from Rwanda 2004



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).

* Not a WRLFMD Ref. No.
 ** proposed new topotypes