

Serotype: O	Report date: 25/09/2006
WRL Ref No: KEN/26/2005	
Sender Ref: K31/2005	
Date collected: 27/05/2005	Topotype: EA-2
Date received by WRLFMD: 26/05/2006	Genotype/strain: none designated
Date received for sequencing: 07/06/2006	Sequence filename: KEN05-26.SEQ
Species: Cattle	Date sequence last updated: 04/07/2006
Material used: BTy1	Total no. of comparisons: 1977
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R	Total turn-around time: 122 days
No. of Nt determined: 639	Sequencing time: 110 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/KEN/6/2005	KEN05-06	639	633	0	99.06	0.94
2	O/KEN/30/2004	KEN04-30	639	632	0	98.9	1.1
3	O/KEN/4/2005	KEN05-04	639	630	0	98.59	1.41
4	O/KEN/7/2002	KEN02-07	639	624	0	97.65	2.35
5	O/KEN/18/98 (K82/98)	KEN98-18	384	363	17	94.53	5.47
6	O/KEN/5/2002	KEN02-05	639	596	0	93.27	6.73
7	O/KEN/23/2004	KEN04-23	639	593	0	92.8	7.2
8	O/ZAM/1/2000	ZAM00-01	639	591	0	92.49	7.51
9	O/ZAM/2/2000	ZAM00-02	639	591	0	92.49	7.51
10	O/KEN/29/2004	KEN04-29	639	590	0	92.33	7.67

Relationships to Reference Virus Strains

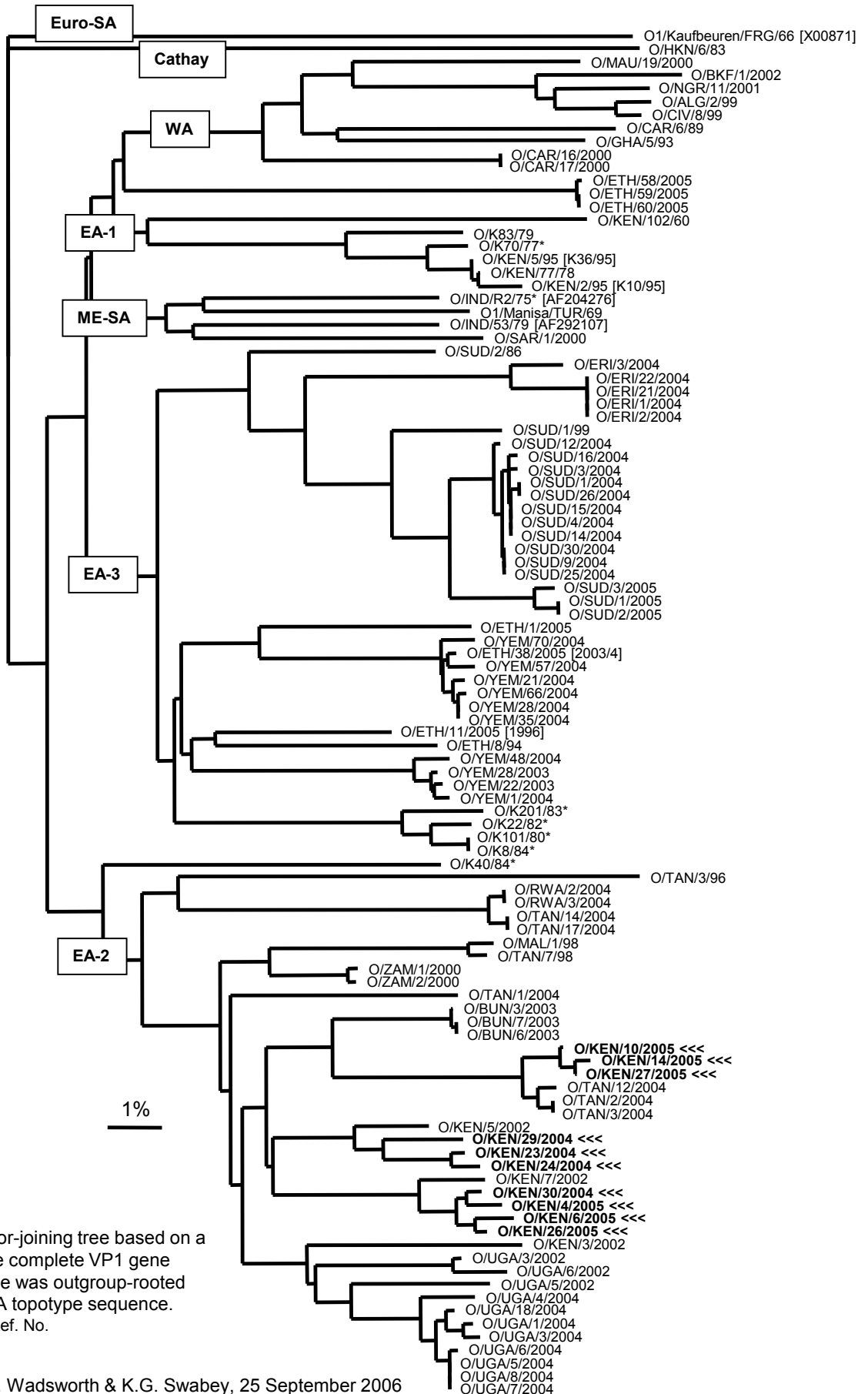
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	552	0	86.38	13.62
2	O/IND/R2/75* [AF204276]	IND75--A	639	544	0	85.13	14.87
3	O1/Manisa/TUR/69	TUR69--E	639	544	0	85.13	14.87
4	O/IND/53/79 [AF292107]	IND79A53	639	542	0	84.82	15.18
5	O/MOR/1/91	MOR91-01	639	541	0	84.66	15.34
6	O/ISR/2/88	ISR88-02	639	539	0	84.35	15.65
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	520	0	81.38	18.62
8	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
9	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72
10	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 25/09/2006						
WRL Ref No: KEN/27/2005							
Sender Ref: K46/2005							
Date collected: 15/07/2005							
Date received by WRLFMD: 26/05/2006	Topotype: EA-2						
Date received for sequencing: 07/06/2006	Genotype/strain: none designated						
Species: Cattle	Sequence filename: KEN05-27.SEQ						
Material used: BTy1	Date sequence last updated: 28/06/2006						
Region sequenced: VP1	Total no. of comparisons: 1977						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 122 days						
No. of ambiguities: 0	Sequencing time: 110 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/KEN/14/2005	KEN05-14	639	637	0	99.69	0.31
2	O/KEN/10/2005	KEN05-10	639	637	0	99.69	0.31
3	O/TAN/2/2004	TAN04-02	639	630	0	98.59	1.41
4	O/TAN/3/2004	TAN04-03	639	630	0	98.59	1.41
5	O/TAN/12/2004	TAN04-12	639	628	0	98.28	1.72
6	O/BUN/7/2003	BUN03-07	639	596	0	93.27	6.73
7	O/BUN/6/2003	BUN03A06	628	585	0	93.15	6.85
8	O/BUN/3/2003	BUN03A03	634	590	4	93.06	6.94
9	O/KEN/18/98 (K82/98)	KEN98-18	384	357	17	92.97	7.03
10	O/BUN/3/2003	BUN03-03	500	463	10	92.6	7.4
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	639	540	0	84.51	15.49
2	O/ISR/2/88	ISR88-02	639	539	0	84.35	15.65
3	O/IND/53/79 [AF292107]	IND79A53	639	537	0	84.04	15.96
4	O/IND/R2/75* [AF204276]	IND75--A	639	537	0	84.04	15.96
5	O/TAW/2/99	TAW99-02	639	535	0	83.72	16.28
6	O1/Manisa/TUR/69	TUR69--E	639	526	0	82.32	17.68
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	515	0	80.59	19.41
8	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
9	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66
10	O/HKN/6/83	HKN83-06	637	502	2	78.81	21.19
nt, nucleotides							
*, not a WRLFMD reference number							

Report on FMDV O from Kenya in 2004-2005



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 sequence.
 * Not a WRLFMD Ref. No.