

Serotype: A Report date: 20/09/2006  
WRL Ref No: KEN/29/2005  
Sender Ref: K52/2005  
Date collected: 24/08/2005  
Date received by WRLFMD: 26/05/2006 Topotype: Africa  
Date received for sequencing: 07/06/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: KEN05-29.SEQ  
Material used: RS1 Date sequence last updated: 04/07/2006  
Region sequenced: VP1 Total no. of comparisons: 943  
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300  
A-1C612F/EUR-2B52R Total turn-around time: 117 days  
No. of Nt determined: 639 Sequencing time: 105 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	A/EGY/4/2006	EGY06-04	636	618	3	97.17	2.83
2	A/EGY/1/2006	EGY06-01	639	620	0	97.03	2.97
3	A/EGY/3/2006	EGY06-03	634	615	5	97	3
4	A/EGY/2/2006	EGY06-02	638	618	1	96.87	3.13
5	A/EGY/5/2006	EGY06-05	638	617	1	96.71	3.29
6	A/KEN/15/98 (K62/98)	KEN98-15	639	596	0	93.27	6.73
7	A/KEN/16/98A (K67/98)	KEN98A16	639	595	0	93.11	6.89
8	A/ETH/23/94	ETH94-23	639	581	0	90.92	9.08
9	A/ETH/1/94	ETH94-01	639	581	0	90.92	9.08
10	A/ETH/7/92	ETH92-07	639	579	0	90.61	9.39

#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/SAU/41/91	SAU91-41	636	509	0	80.03	19.97
2	A/IND/7/82 (1980)	IND82-07	639	510	0	79.81	20.19
3	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	510	0	79.81	20.19
4	A/TAI/2/97	TAI97-02	636	507	0	79.72	20.28
5	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	509	0	79.66	20.34
6	A/TAI/118/87*	TAI87-AD	636	506	0	79.56	20.44
7	A/IRN/87	IRN87--M	634	504	2	79.5	20.5
8	A/IRN/1/96	IRN96-01	638	500	1	78.37	21.63
9	A/SAU/23/86	SAU86-23	639	496	0	77.62	22.38
10	A/IRN/22/99	IRN99-22	636	486	0	76.42	23.58

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: A  
WRL Ref No: KEN/3/2006  
Sender Ref: K6/2006  
Date collected: 24/01/2006  
Date received by WRLFMD: 26/05/2006  
Date received for sequencing: 07/06/2006  
Species: Cattle  
Material used: BTy1  
Region sequenced: VP1  
RT-PCR primers: A-1C562F/EUR-2B52R;  
A-1C612F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 20/09/2006  
Topotype: Africa  
Genotype/strain:  
Sequence filename: KEN06-03.SEQ  
Date sequence last updated: 04/07/2006  
Total no. of comparisons: 943  
Min. no. of nt for comparison: 300  
Total turn-around time: 117 days  
Sequencing time: 105 days

Comments:

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/KEN/12/2005 (K44/2005)	KEN05-12	639	606	0	94.84	5.16
2	A/MAL/5/81	MAL81-05	639	557	0	87.17	12.83
3	A/K49/84*	KEN84-AC	639	552	0	86.38	13.62
4	A/BUN/2/80	BUN80-02	639	547	0	85.6	14.4
5	A/BUN/4/90	BUN90-04	639	541	0	84.66	15.34
6	A/K16/74*	KEN74-AA	639	539	0	84.35	15.65
7	UG 1/02/2 (OVI)	UGA02-AA	378	318	0	84.13	15.87
8	A/TAN/4/80	TAN80-04	639	537	0	84.04	15.96
9	A/KEN/42/66 (K18/66)	KEN66-42	639	536	0	83.88	16.12
10	A/K179/71* (KEN/1/76) (OVI)	KEN71-AA	378	317	0	83.86	16.14

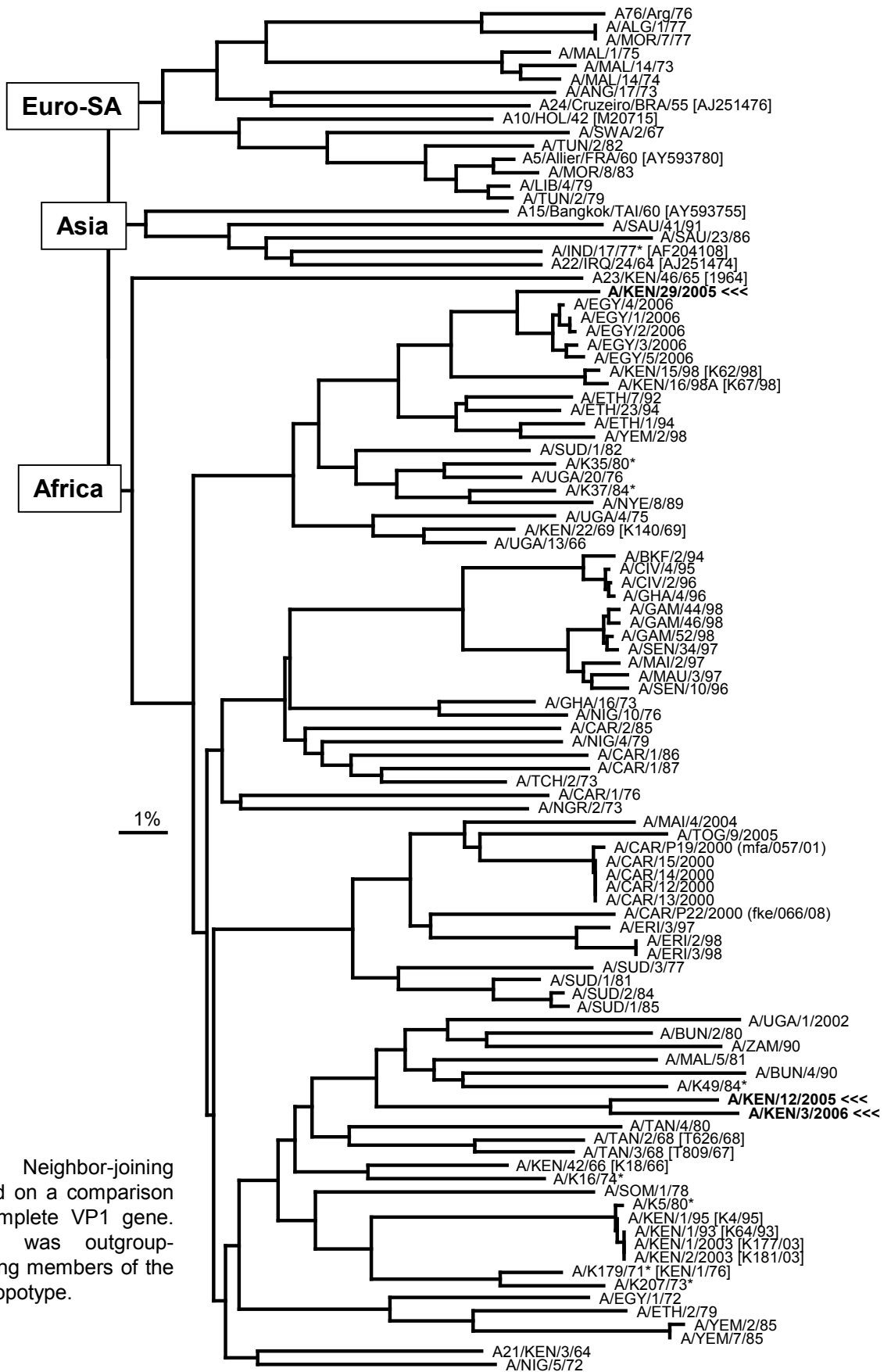
#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	511	0	79.97	20.03
2	A/IRN/87	IRN87--M	634	505	2	79.65	20.35
3	A/IRN/22/99	IRN99-22	636	503	0	79.09	20.91
4	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	499	0	78.09	21.91
5	A/IRN/1/96	IRN96-01	638	498	1	78.06	21.94
6	A/SAU/41/91	SAU91-41	636	495	0	77.83	22.17
7	A/TAI/2/97	TAI97-02	636	490	0	77.04	22.96
8	A/IND/7/82 (1980)	IND82-07	639	492	0	77	23
9	A/SAU/23/86	SAU86-23	639	490	0	76.68	23.32
10	A/TAI/118/87*	TAI87-AD	636	484	0	76.1	23.9

nt, nucleotides

\*, not a WRLFMD reference number

# Report on FMDV type A in Kenya 2005-2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using members of the Euro-SA toptotype.