

Serotype: A	Report date: 05/08/2008
WRL Ref No: KEN/7/2008	Reported by: N.J. Knowles
Sender Ref: K10/08	Checked by: D.P. King
Date collected: 09/02/2008	
Date received by WRLFMD: 22/05/2008	Topotype: AFRICA
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-07.SEQ
Material used: BTy1	Date sequence last updated: 21/07/2008
Region sequenced: VP1	Total no. of comparisons: 939
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 75 days
No. of ambiguities: 0	Sequencing time: 50 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	A/KEN/8/2008	KEN08-08	639	637	0	99.69	0.31
2	A/KEN/3/2006	KEN06-03	639	604	0	94.52	5.48
3	A/KEN/12/2005 (K44/2005)	KEN05-12	639	597	0	93.43	6.57
4	A/MAL/5/81	MAL81-05	639	548	0	85.76	14.24
5	A/K49/84*	KEN84-AC	639	546	0	85.45	14.55
6	A/BUN/2/80	BUN80-02	639	541	0	84.66	15.34
7	A/TAN/2/68 (T626/68)	TAN68-02	639	538	0	84.19	15.81
8	A/TAN/3/68 (T809/67)	TAN68-03	639	537	0	84.04	15.96
9	A/BUN/4/90	BUN90-04	639	536	0	83.88	16.12
10	A/K16/74*	KEN74-AA	639	536	0	83.88	16.12

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/2/87 (EF208770)	IRN87-02	636	507	0	79.72	20.28
2	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	508	0	79.5	20.5
3	A/IRN/22/99 (EF208772)	IRN99-22	636	505	0	79.4	20.6
4	A/SAU/41/91	SAU91-41	636	502	0	78.93	21.07
5	A/IRN/1/96 (EF208771)	IRN96-01	638	501	1	78.53	21.47
6	A/IRN/1/2005 (EF208769)	IRN05-01	639	500	0	78.25	21.75
7	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	499	0	78.09	21.91
8	A/TAI/2/97 (EF208778)	TAI97-02	636	487	0	76.57	23.43
9	A/SAU/23/86 (EU414536)	SAU86-23	639	487	0	76.21	23.79
10	A/TAI/118/87* (EF208777)	TAI87-AD	636	484	0	76.1	23.9

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A	Report date: 05/08/2008
WRL Ref No: KEN/8/2008	Reported by: N.J. Knowles
Sender Ref: K13/08	Checked by: D.P. King
Date collected: 19/02/2008	
Date received by WRLFMD: 22/05/2008	Topotype: AFRICA
Date received for sequencing: 16/06/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: KEN08-08.SEQ
Material used: BTy1	Date sequence last updated: 21/07/2008
Region sequenced: VP1	Total no. of comparisons: 939
RT-PCR primers: A-1C562F/EUR-2B52R;	Min. no. of nt for comparison: 300
A-1C612F/EUR-2B52R	Total turn-around time: 75 days
No. of Nt determined: 639	Sequencing time: 50 days
No. of ambiguities: 0	
Gene length: 639	

Comments:

Ten Most Closely Related Viruses

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1	A/KEN/7/2008	KEN08-07	639	637	0	99.69	0.31
2	A/KEN/3/2006	KEN06-03	639	604	0	94.52	5.48
3	A/KEN/12/2005 (K44/2005)	KEN05-12	639	597	0	93.43	6.57
4	A/K49/84*	KEN84-AC	639	548	0	85.76	14.24
5	A/MAL/5/81	MAL81-05	639	548	0	85.76	14.24
6	A/BUN/2/80	BUN80-02	639	541	0	84.66	15.34
7	A/TAN/2/68 (T626/68)	TAN68-02	639	538	0	84.19	15.81
8	A/KEN/42/66 (K18/66)	KEN66-42	639	537	0	84.04	15.96
9	A/TAN/3/68 (T809/67)	TAN68-03	639	537	0	84.04	15.96
10	A/BUN/4/90	BUN90-04	639	536	0	83.88	16.12

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/2/87 (EF208770)	IRN87-02	636	509	0	80.03	19.97
2	A/IRN/22/99 (EF208772)	IRN99-22	636	507	0	79.72	20.28
3	A/SAU/41/91	SAU91-41	636	504	0	79.25	20.75
4	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	506	0	79.19	20.81
5	A/IRN/1/2005 (EF208769)	IRN05-01	639	502	0	78.56	21.44
6	A/IRN/1/96 (EF208771)	IRN96-01	638	500	1	78.37	21.63
7	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	498	0	77.93	22.07
8	A/TAI/2/97 (EF208778)	TAI97-02	636	489	0	76.89	23.11
9	A/SAU/23/86 (EU414536)	SAU86-23	639	489	0	76.53	23.47
10	A/TAI/118/87* (EF208777)	TAI87-AD	636	484	0	76.1	23.9

nt, nucleotides

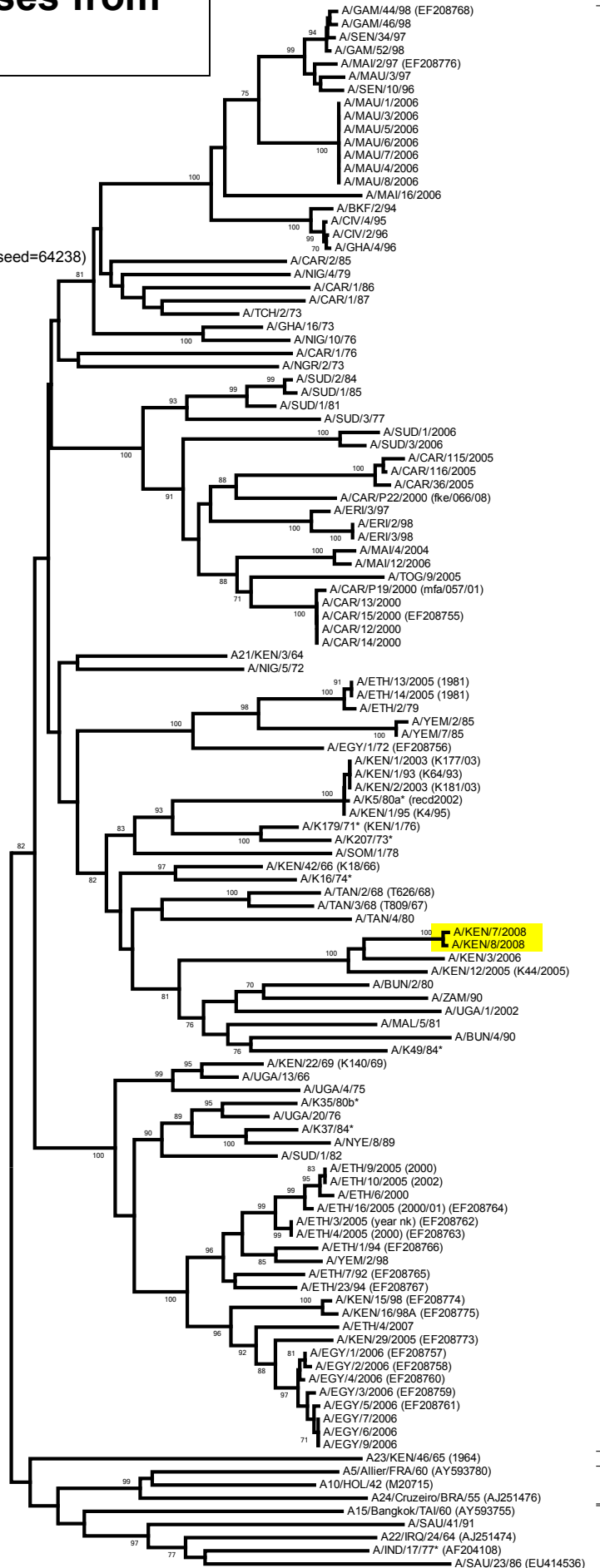
*, not a WRLFMD reference number

Report on FMD A viruses from Kenya in 2008

Software: MEGA 4.0
 No. of Taxa : 119
 Data File : n:\levd\meg\db\fmdv\KEN2008a.meg
 Data Title : Kenya 2008
 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 : 642
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

* , not a WRLFMD Ref. No.

N.J. Knowles, K. Ebert & J. Wadsworth, 28 July 2008



AFRICA

EURO-SA

ASIA

0.02