

Serotype: A	Report date: 06/01/2009
WRL Ref No: ETH/7/2008	Reported by: N.J. Knowles
Sender Ref: 18	Checked by: D.P. King
Date collected: 08/01/2008	
Date received by WRLFMD: 25/11/2008	Topotype: AFRICA
Date received for sequencing: 10/12/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: ETH08-07.SEQ
Material used: BTy1	Date sequence last updated: 05/01/2009
Region sequenced: VP1	Total no. of comparisons: 978
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: 42 days
No. of ambiguities: 0	Sequencing time: 27 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/ETH/8/2008	ETH08-08	639	638	0	99.84	0.16
2	A/ETH/4/2007	ETH07-04	639	633	0	99.06	0.94
3	A/EGY/1/2006 (EF208757)	EGY06-01	639	607	0	94.99	5.01
4	A/EGY/4/2006 (EF208760)	EGY06-04	639	607	0	94.99	5.01
5	A/ETH/9/2008	ETH08-09	639	607	0	94.99	5.01
6	A/EGY/2/2006 (EF208758)	EGY06-02	639	606	0	94.84	5.16
7	A/EGY/6/2006	EGY06-06	639	606	0	94.84	5.16
8	A/EGY/7/2006	EGY06-07	639	606	0	94.84	5.16
9	A/EGY/9/2006	EGY06-09	639	606	0	94.84	5.16
10	A/EGY/3/2006 (EF208759)	EGY06-03	639	605	0	94.68	5.32

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	518	0	81.06	18.94
2	A/SAU/41/91	SAU91-41	636	515	0	80.97	19.03
3	A/IRN/2/87 (EF208770)	IRN87-02	636	509	0	80.03	19.97
4	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	508	0	79.5	20.5
5	A/TAI/118/87* (EF208777)	TAI87-AD	636	505	0	79.4	20.6
6	A/TAI/2/97 (EF208778)	TAI97-02	636	504	0	79.25	20.75
7	A/IRN/1/96 (EF208771)	IRN96-01	638	500	1	78.37	21.63
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	500	0	78.25	21.75
9	A/SAU/23/86 (EU414536)	SAU86-23	639	497	0	77.78	22.22
10	A/IRN/22/99 (EF208772)	IRN99-22	636	491	0	77.2	22.8

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A	Report date: 06/01/2009
WRL Ref No: ETH/8/2008	Reported by: N.J. Knowles
Sender Ref: 19	Checked by: D.P. King
Date collected: 08/01/2008	
Date received by WRLFMD: 25/11/2008	Topotype: AFRICA
Date received for sequencing: 10/12/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: ETH08-08.SEQ
Material used: BTy1	Date sequence last updated: 05/01/2009
Region sequenced: VP1	Total no. of comparisons: 978
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: 42 days
No. of ambiguities: 0	Sequencing time: 27 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/ETH/7/2008	ETH08-07	639	638	0	99.84	0.16
2	A/ETH/4/2007	ETH07-04	639	632	0	98.9	1.1
3	A/EGY/1/2006 (EF208757)	EGY06-01	639	606	0	94.84	5.16
4	A/EGY/4/2006 (EF208760)	EGY06-04	639	606	0	94.84	5.16
5	A/ETH/9/2008	ETH08-09	639	606	0	94.84	5.16
6	A/EGY/2/2006 (EF208758)	EGY06-02	639	605	0	94.68	5.32
7	A/EGY/6/2006	EGY06-06	639	605	0	94.68	5.32
8	A/EGY/7/2006	EGY06-07	639	605	0	94.68	5.32
9	A/EGY/9/2006	EGY06-09	639	605	0	94.68	5.32
10	A/EGY/3/2006 (EF208759)	EGY06-03	639	604	0	94.52	5.48

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	517	0	80.91	19.09
2	A/SAU/41/91	SAU91-41	636	514	0	80.82	19.18
3	A/IRN/2/87 (EF208770)	IRN87-02	636	508	0	79.87	20.13
4	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	507	0	79.34	20.66
5	A/TAI/118/87* (EF208777)	TAI87-AD	636	504	0	79.25	20.75
6	A/TAI/2/97 (EF208778)	TAI97-02	636	503	0	79.09	20.91
7	A/IRN/1/96 (EF208771)	IRN96-01	638	499	1	78.21	21.79
8	A/IRN/1/2005 (EF208769)	IRN05-01	639	499	0	78.09	21.91
9	A/SAU/23/86 (EU414536)	SAU86-23	639	496	0	77.62	22.38
10	A/IRN/22/99 (EF208772)	IRN99-22	636	490	0	77.04	22.96

nt, nucleotides

*, not a WRLFMD reference number

Serotype: A	Report date: 06/01/2009
WRL Ref No: ETH/9/2008	Reported by: N.J. Knowles
Sender Ref: 20	Checked by: D.P. King
Date collected: 01/08/2008	
Date received by WRLFMD: 25/11/2008	Topotype: AFRICA
Date received for sequencing: 10/12/2008	Genotype/strain: none designated
Species: Cattle	Sequence filename: ETH08-09.SEQ
Material used: BTy1	Date sequence last updated: 05/01/2009
Region sequenced: VP1	Total no. of comparisons: 978
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: 42 days
No. of ambiguities: 0	Sequencing time: 27 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/EGY/1/2006 (EF208757)	EGY06-01	639	616	0	96.4	3.6
2	A/EGY/4/2006 (EF208760)	EGY06-04	639	616	0	96.4	3.6
3	A/KEN/29/2005 (EF208773)	KEN05-29	639	616	0	96.4	3.6
4	A/EGY/2/2006 (EF208758)	EGY06-02	639	615	0	96.24	3.76
5	A/EGY/6/2006	EGY06-06	639	615	0	96.24	3.76
6	A/EGY/7/2006	EGY06-07	639	615	0	96.24	3.76
7	A/EGY/9/2006	EGY06-09	639	615	0	96.24	3.76
8	A/EGY/3/2006 (EF208759)	EGY06-03	639	614	0	96.09	3.91
9	A/EGY/5/2006 (EF208761)	EGY06-05	639	613	0	95.93	4.07
10	A/ETH/4/2007	ETH07-04	639	609	0	95.31	4.69

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	513	0	80.28	19.72
2	A/IRN/2/87 (EF208770)	IRN87-02	636	509	0	80.03	19.97
3	A/SAU/41/91	SAU91-41	636	509	0	80.03	19.97
4	A/TAI/2/97 (EF208778)	TAI97-02	636	509	0	80.03	19.97
5	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	511	0	79.97	20.03
6	A/TAI/118/87* (EF208777)	TAI87-AD	636	505	0	79.4	20.6
7	A/IRN/1/2005 (EF208769)	IRN05-01	639	501	0	78.4	21.6
8	A/IRN/1/96 (EF208771)	IRN96-01	638	499	1	78.21	21.79
9	A/SAU/23/86 (EU414536)	SAU86-23	639	495	0	77.46	22.54
10	A/IRN/22/99 (EF208772)	IRN99-22	636	485	0	76.26	23.74

nt, nucleotides

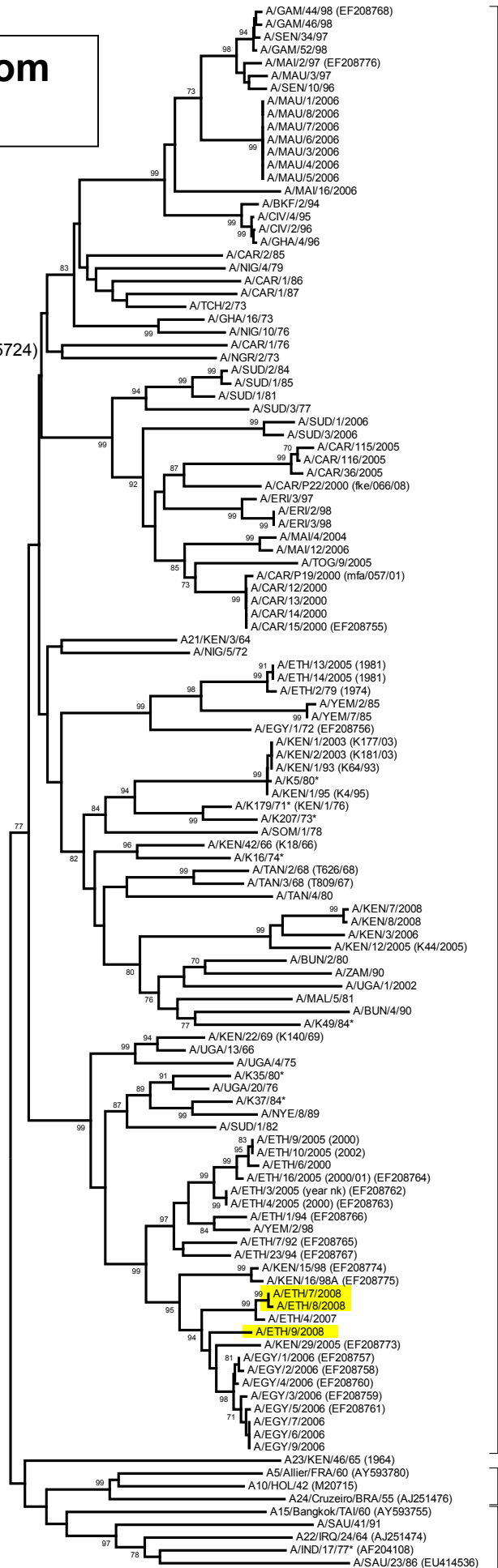
*, not a WRLFMD reference number

Report on FMD A viruses from Ethiopia in 2008

Software: MEGA 4.0
 No. of Taxa : 122
 Data File : n:\evd\meg\db\fmdv\al\ETH2008a.meg
 Data Title : Ethiopia 2008
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=85724)
 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 & J. Wadsworth, 6 January 2009



AFROSA

EURO-SA

ASIA

