

Serotype: A Report date: 17/01/2007  
WRL Ref No: MAU/1/2006  
Sender Ref: 06/2018-1 (epithelium)  
Date collected: 17/11/2006  
Date received by WRLFMD: 04/12/2006 Topotype: Africa  
Date received for sequencing: 08/12/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: MAU06-01.SEQ  
Material used: BTy1 Date sequence last updated: 15/01/2007  
Region sequenced: VP1 Total no. of comparisons: 780  
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300  
A-1C612F/EUR-2B52R Total turn-around time: 44 days  
No. of Nt determined: 636 Sequencing time: 40 days  
No. of ambiguities: 0  
Gene length: 636

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/3/2006	MAU06-03	636	636	0	100	0
2	A/MAU/4/2006	MAU06-04	636	636	0	100	0
3	A/MAU/5/2006	MAU06-05	636	636	0	100	0
4	A/MAU/6/2006	MAU06-06	636	636	0	100	0
5	A/MAU/7/2006	MAU06-07	636	636	0	100	0
6	A/MAU/8/2006	MAU06-08	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: A Report date: 17/01/2007  
WRL Ref No: MAU/3/2006  
Sender Ref: 06/2018-2 (epithelium)  
Date collected: 17/11/2006  
Date received by WRLFMD: 04/12/2006 Topotype: Africa  
Date received for sequencing: 08/12/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: MAU06-03.SEQ  
Material used: BTy1 Date sequence last updated: 15/01/2007  
Region sequenced: VP1 Total no. of comparisons: 780  
RT-PCR primers: A-1C562F/EUR-2B52R;  
A-1C612F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 636 Total turn-around time: 44 days  
No. of ambiguities: 0 Sequencing time: 40 days  
Gene length: 636

Comments:

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/1/2006	MAU06-01	636	636	0	100	0
2	A/MAU/4/2006	MAU06-04	636	636	0	100	0
3	A/MAU/5/2006	MAU06-05	636	636	0	100	0
4	A/MAU/6/2006	MAU06-06	636	636	0	100	0
5	A/MAU/7/2006	MAU06-07	636	636	0	100	0
6	A/MAU/8/2006	MAU06-08	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

**Relationships to Reference Virus Strains**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides  
\*, not a WRLFMD reference number

Serotype: A Report date: 17/01/2007  
WRL Ref No: MAU/4/2006  
Sender Ref: 06/2018-2 (blood)  
Date collected: 17/11/2006  
Date received by WRLFMD: 04/12/2006 Topotype: Africa  
Date received for sequencing: 08/12/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: MAU06-04.SEQ  
Material used: BTy1 Date sequence last updated: 17/01/2007  
Region sequenced: VP1 Total no. of comparisons: 780  
RT-PCR primers: A-1C562F/EUR-2B52R;  
A-1C612F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 636 Total turn-around time: 44 days  
No. of ambiguities: 0 Sequencing time: 40 days  
Gene length: 636

Comments:

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/1/2006	MAU06-01	636	636	0	100	0
2	A/MAU/3/2006	MAU06-03	636	636	0	100	0
3	A/MAU/5/2006	MAU06-05	636	636	0	100	0
4	A/MAU/6/2006	MAU06-06	636	636	0	100	0
5	A/MAU/7/2006	MAU06-07	636	636	0	100	0
6	A/MAU/8/2006	MAU06-08	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

**Relationships to Reference Virus Strains**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides  
\*, not a WRLFMD reference number

Serotype: A	Report date: 17/01/2007
WRL Ref No: MAU/5/2006	
Sender Ref: 06/2018-3 (epithelium)	
Date collected: 17/11/2006	
Date received by WRLFMD: 04/12/2006	Topotype: Africa
Date received for sequencing: 08/12/2006	Genotype/strain: none designated
Species: Cattle	Sequence filename: MAU06-05.SEQ
Material used: BTy1	Date sequence last updated: 17/01/2007
Region sequenced: VP1	Total no. of comparisons: 780
RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 636	Total turn-around time: 44 days
No. of ambiguities: 0	Sequencing time: 40 days
Gene length: 636	

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/1/2006	MAU06-01	636	636	0	100	0
2	A/MAU/3/2006	MAU06-03	636	636	0	100	0
3	A/MAU/4/2006	MAU06-04	636	636	0	100	0
4	A/MAU/6/2006	MAU06-06	636	636	0	100	0
5	A/MAU/7/2006	MAU06-07	636	636	0	100	0
6	A/MAU/8/2006	MAU06-08	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides  
\*, not a WRLFMD reference number

Serotype: A Report date: 17/01/2007  
WRL Ref No: MAU/6/2006  
Sender Ref: 06/2018-3 (blood)  
Date collected: 17/11/2006  
Date received by WRLFMD: 04/12/2006 Topotype: Africa  
Date received for sequencing: 08/12/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: MAU06-06.SEQ  
Material used: BTy2 Date sequence last updated: 15/01/2007  
Region sequenced: VP1 Total no. of comparisons: 780  
RT-PCR primers: A-1C562F/EUR-2B52R;  
A-1C612F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 636 Total turn-around time: 44 days  
No. of ambiguities: 0 Sequencing time: 40 days  
Gene length: 636

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/1/2006	MAU06-01	636	636	0	100	0
2	A/MAU/3/2006	MAU06-03	636	636	0	100	0
3	A/MAU/4/2006	MAU06-04	636	636	0	100	0
4	A/MAU/5/2006	MAU06-05	636	636	0	100	0
5	A/MAU/7/2006	MAU06-07	636	636	0	100	0
6	A/MAU/8/2006	MAU06-08	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: A Report date: 17/01/2007  
WRL Ref No: MAU/7/2006  
Sender Ref: 06/2018-4 (epithelium)  
Date collected: 17/11/2006  
Date received by WRLFMD: 04/12/2006 Topotype: Africa  
Date received for sequencing: 08/12/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: MAU06-07.SEQ  
Material used: BTy1 Date sequence last updated: 15/01/2007  
Region sequenced: VP1 Total no. of comparisons: 780  
RT-PCR primers: A-1C562F/EUR-2B52R; Min. no. of nt for comparison: 300  
A-1C612F/EUR-2B52R Total turn-around time: 44 days  
No. of Nt determined: 636 Sequencing time: 40 days  
No. of ambiguities: 0  
Gene length: 636

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/1/2006	MAU06-01	636	636	0	100	0
2	A/MAU/3/2006	MAU06-03	636	636	0	100	0
3	A/MAU/4/2006	MAU06-04	636	636	0	100	0
4	A/MAU/5/2006	MAU06-05	636	636	0	100	0
5	A/MAU/6/2006	MAU06-06	636	636	0	100	0
6	A/MAU/8/2006	MAU06-08	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: A Report date: 17/01/2007  
WRL Ref No: MAU/8/2006  
Sender Ref: 06/2018-4 (blood)  
Date collected: 17/11/2006  
Date received by WRLFMD: 04/12/2006 Topotype: Africa  
Date received for sequencing: 08/12/2006 Genotype/strain: none designated  
Species: Cattle Sequence filename: MAU06-08.SEQ  
Material used: BTy1 Date sequence last updated: 15/01/2007  
Region sequenced: VP1 Total no. of comparisons: 780  
RT-PCR primers: A-1C562F/EUR-2B52R;  
A-1C612F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 636 Total turn-around time: 44 days  
No. of ambiguities: 0 Sequencing time: 40 days  
Gene length: 636

Comments:

**Ten Most Closely Related Viruses**

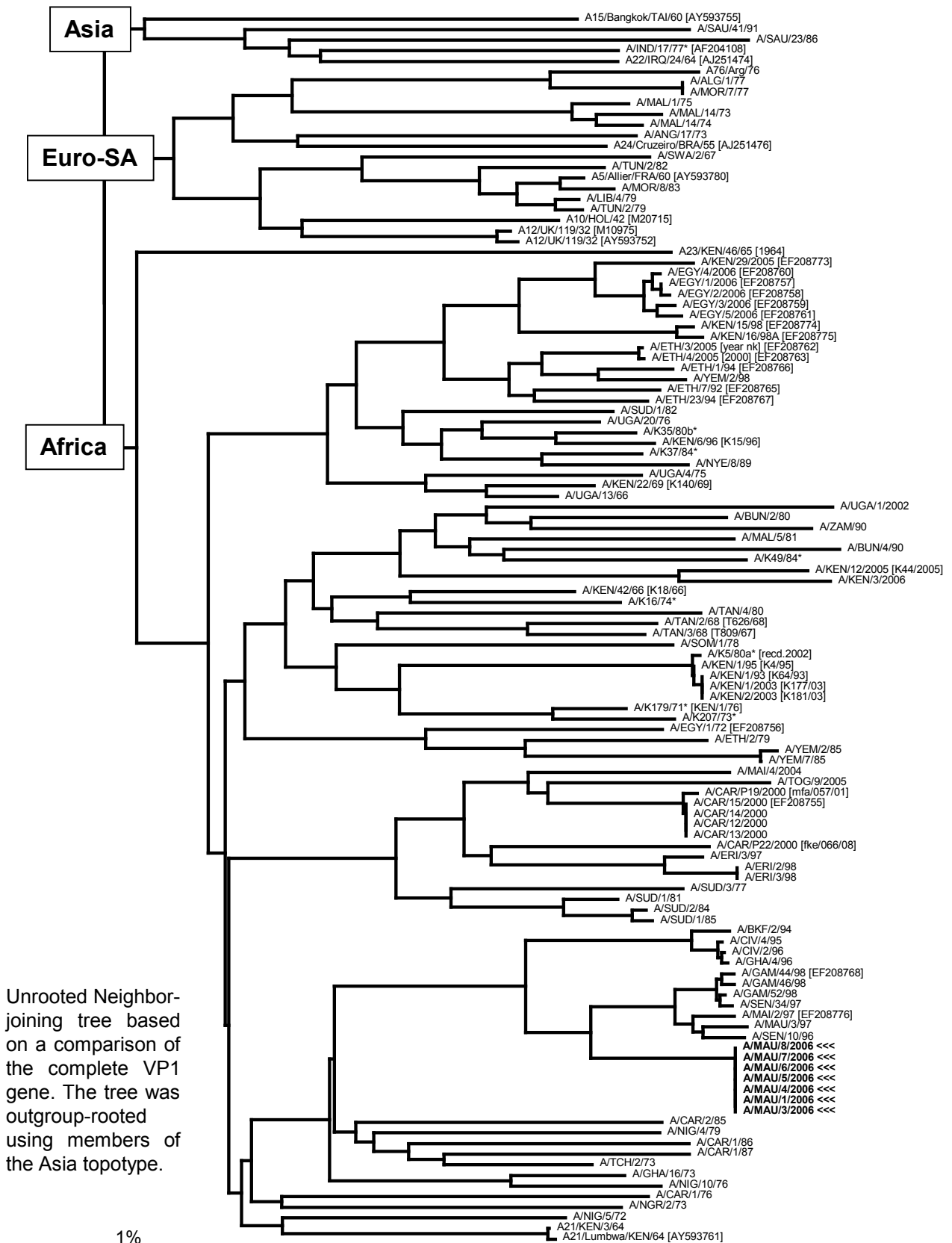
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/MAU/1/2006	MAU06-01	636	636	0	100	0
2	A/MAU/3/2006	MAU06-03	636	636	0	100	0
3	A/MAU/4/2006	MAU06-04	636	636	0	100	0
4	A/MAU/5/2006	MAU06-05	636	636	0	100	0
5	A/MAU/6/2006	MAU06-06	636	636	0	100	0
6	A/MAU/7/2006	MAU06-07	636	636	0	100	0
7	A/GAM/52/98	GAM98-52	636	605	0	95.13	4.87
8	A/SEN/34/97	SEN97-34	636	605	0	95.13	4.87
9	A/GAM/44/98 (EF208768)	GAM98-44	636	604	0	94.97	5.03
10	A/GAM/46/98	GAM98-46	636	603	0	94.81	5.19

**Relationships to Reference Virus Strains**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	631	518	2	82.09	17.91
2	A/SAU/23/86	SAU86-23	636	519	0	81.6	18.4
3	A22/IRQ/24/64 (AJ251474)	IRQ64-24	636	519	0	81.6	18.4
4	A/TAI/2/97 (EF208778)	TAI97-02	633	516	0	81.52	18.48
5	A/IND/7/82 (1980)	IND82-07	636	518	0	81.45	18.55
6	A/SAU/41/91	SAU91-41	633	512	0	80.88	19.12
7	A/TAI/118/87* (EF208777)	TAI87-AD	633	511	0	80.73	19.27
8	A/IRN/1/96 (EF208771)	IRN96-01	635	510	1	80.31	19.69
9	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	636	509	0	80.03	19.97
10	A/IRN/22/99 (EF208772)	IRN99-22	633	502	0	79.3	20.7

nt, nucleotides  
\*, not a WRLFMD reference number

# Report on FMDV type A from Mauritania in 2006



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