

Serotype: O	Report date: 22/04/2005						
WRL Ref No: SUD/1/2005							
Sender Ref: Sud-1							
Date collected: 03/01/2005	Topotype: EA-3						
Date received by WRLFMD: 11/04/2005	Genotype/strain: none designated						
Date received for sequencing: 13/04/2005	Sequence filename: SUD05-01.SEQ						
Species: Cattle	Date sequence last updated: 20/04/2005						
Material used: BTy1	Total no. of comparisons: 1672						
Region sequenced: VP1	Min. no. of nt for comparison: 300						
RT-PCR primers: O-1C272F/NK61;A-1C612F/NK61	Total turn-around time: 11 days						
No. of Nt determined: 639	Sequencing time: 9 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/SUD/2/2005	SUD05-02	639	639	0	100	0
2	O/SUD/3/2005	SUD05-03	639	634	0	99.22	0.78
3	O/SUD/15/2004	SUD04-15	639	622	0	97.34	2.66
4	O/SUD/4/2004	SUD04-04	639	622	0	97.34	2.66
5	O/SUD/14/2004	SUD04-14	639	622	0	97.34	2.66
6	O/SUD/3/2004	SUD04-03	639	621	0	97.18	2.82
7	O/SUD/30/2004	SUD04-30	639	621	0	97.18	2.82
8	O/SUD/9/2004	SUD04-09	639	621	0	97.18	2.82
9	O/SUD/16/2004	SUD04-16	639	621	0	97.18	2.82
10	O/SUD/26/2004	SUD04-26	639	621	0	97.18	2.82
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	546	0	85.45	14.55
2	O/TAW/2/99	TAW99-02	639	546	0	85.45	14.55
3	O/IND/R2/75*	IND75--A	639	541	0	84.66	15.34
4	O/MOR/1/91	MOR91-01	639	540	0	84.51	15.49
5	O/ISR/2/88	ISR88-02	639	538	0	84.19	15.81
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	535	0	83.72	16.28
7	O1/Manisa/TUR/69	TUR69--E	639	534	0	83.57	16.43
8	O/HKN/6/83	HKN83-06	637	507	2	79.59	20.41
9	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66
10	O1/BFS 1860/UK/67	UKG67--A	639	506	0	79.19	20.81
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O
WRL Ref No: SUD/2/2005
Sender Ref: Sud-2
Date collected: 03/01/2005
Date received by WRLFMD: 11/04/2005
Date received for sequencing: 13/04/2005
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61;A-1C612F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 22/04/2005
Topotype: EA-3
Genotype/strain: None designated
Sequence filename: SUD05-02.SEQ
Date sequence last updated: 20/04/2005
Total no. of comparisons: 1672
Min. no. of nt for comparison: 300
Total turn-around time: 11 days
Sequencing time: 9 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SUD/1/2005	SUD05-01	639	639	0	100	0
2	O/SUD/3/2005	SUD05-03	639	634	0	99.22	0.78
3	O/SUD/15/2004	SUD04-15	639	622	0	97.34	2.66
4	O/SUD/4/2004	SUD04-04	639	622	0	97.34	2.66
5	O/SUD/14/2004	SUD04-14	639	622	0	97.34	2.66
6	O/SUD/3/2004	SUD04-03	639	621	0	97.18	2.82
7	O/SUD/30/2004	SUD04-30	639	621	0	97.18	2.82
8	O/SUD/9/2004	SUD04-09	639	621	0	97.18	2.82
9	O/SUD/16/2004	SUD04-16	639	621	0	97.18	2.82
10	O/SUD/26/2004	SUD04-26	639	621	0	97.18	2.82

Relationships to Reference Virus Strains

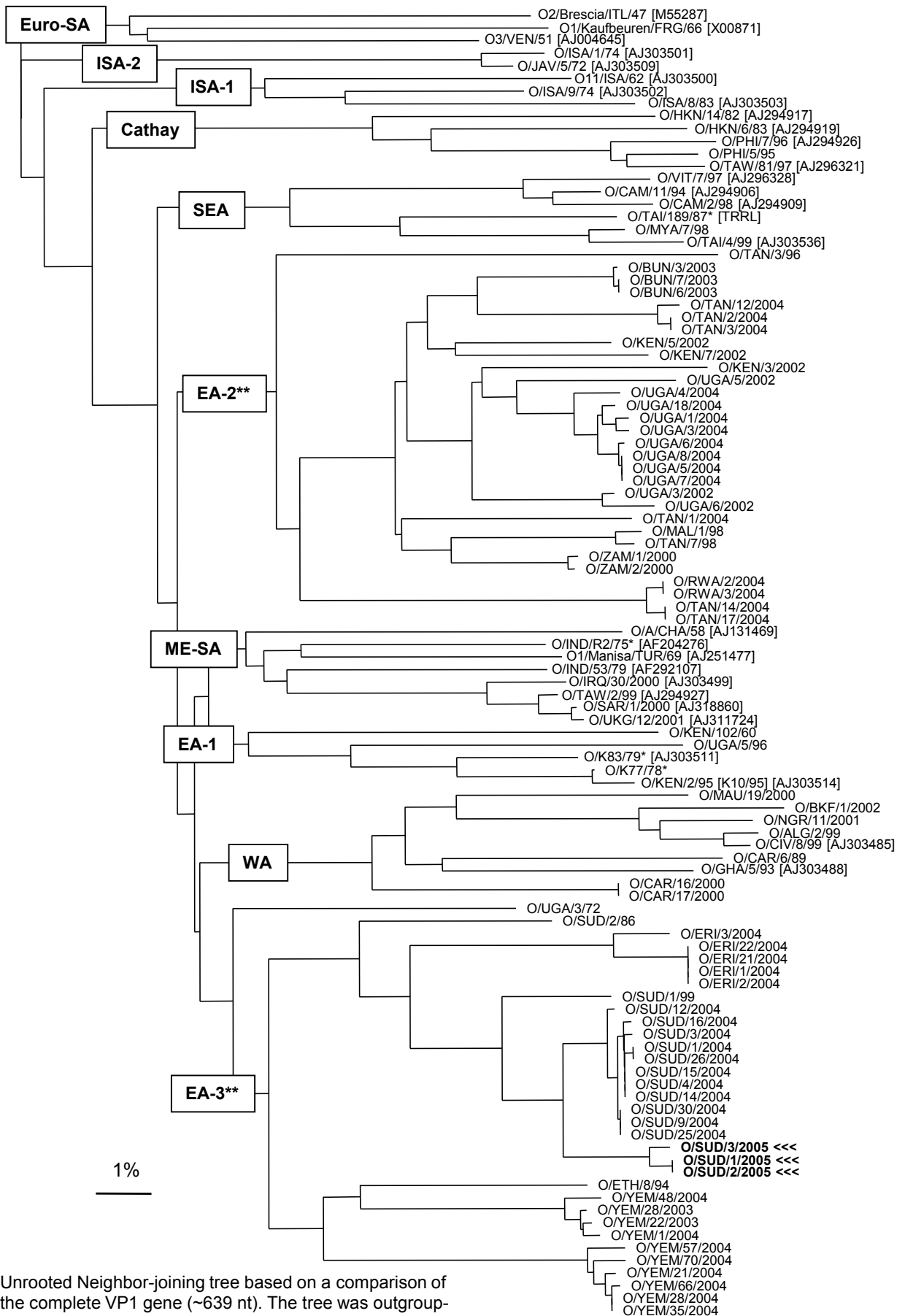
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/53/79	IND79A53	639	546	0	85.45	14.55
2	O/TAW/2/99	TAW99-02	639	546	0	85.45	14.55
3	O/IND/R2/75*	IND75--A	639	541	0	84.66	15.34
4	O/MOR/1/91	MOR91-01	639	540	0	84.51	15.49
5	O/ISR/2/88	ISR88-02	639	538	0	84.19	15.81
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	535	0	83.72	16.28
7	O1/Manisa/TUR/69	TUR69--E	639	534	0	83.57	16.43
8	O/HKN/6/83	HKN83-06	637	507	2	79.59	20.41
9	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66
10	O1/BFS 1860/UK/67	UKG67--A	639	506	0	79.19	20.81

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O		Report date: 22/04/2005					
WRL Ref No: SUD/3/2005							
Sender Ref: Sud-3							
Date collected: 09/01/2005		Topotype: EA-3					
Date received by WRLFMD: 11/04/2005		Genotype/strain: None designated					
Date received for sequencing: 13/04/2005		Sequence filename: SUD05-03.SEQ					
Species: Cattle		Date sequence last updated: 20/04/2005					
Material used: BTy1		Total no. of comparisons: 1672					
Region sequenced: VP1		Min. no. of nt for comparison: 300					
RT-PCR primers: O-1C272F/NK61;A-1C612F/NK61		Total turn-around time: 11 days					
No. of Nt determined: 639		Sequencing time: 9 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/SUD/2/2005	SUD05-02	639	634	0	99.22	0.78
2	O/SUD/1/2005	SUD05-01	639	634	0	99.22	0.78
3	O/SUD/15/2004	SUD04-15	639	621	0	97.18	2.82
4	O/SUD/4/2004	SUD04-04	639	621	0	97.18	2.82
5	O/SUD/14/2004	SUD04-14	639	621	0	97.18	2.82
6	O/SUD/3/2004	SUD04-03	639	620	0	97.03	2.97
7	O/SUD/30/2004	SUD04-30	639	620	0	97.03	2.97
8	O/SUD/9/2004	SUD04-09	639	620	0	97.03	2.97
9	O/SUD/16/2004	SUD04-16	639	620	0	97.03	2.97
10	O/SUD/26/2004	SUD04-26	639	620	0	97.03	2.97
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	549	0	85.92	14.08
2	O/IND/53/79	IND79A53	639	547	0	85.6	14.4
3	O/MOR/1/91	MOR91-01	639	542	0	84.82	15.18
4	O/IND/R2/75*	IND75--A	639	542	0	84.82	15.18
5	O/ISR/2/88	ISR88-02	639	540	0	84.51	15.49
6	O1/Manisa/TUR/69	TUR69--E	639	537	0	84.04	15.96
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	535	0	83.72	16.28
8	O/HKN/6/83	HKN83-06	637	507	2	79.59	20.41
9	O/PHI/5/95	PHI95-05	639	507	0	79.34	20.66
10	O1/BFS 1860/UK/67	UKG67--A	639	504	0	78.87	21.13
nt, nucleotides							
*, not a WRLFMD reference number							

Report on FMDV O from Sudan in 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 sequences.

* Not a WRLFMD Ref. No.

** proposed new topotypes