

Serotype: O	Report date: 29/07/2008
WRL Ref No: SAU/11/2008	Reported by: N.J. Knowles
Sender Ref: AL HAMRA	Checked by: D.P. King
Date collected: 25/06/2008	
Date received by WRLFMD: 11/07/2008	Topotype: ME-SA
Date received for sequencing: 16/07/2008	Genotype/strain: PanAsia-2
Species: Cattle	Sequence filename: SAU08-11.SEQ
Material used: BTy1	Date sequence last updated: 29/07/2008
Region sequenced: VP1	Total no. of comparisons: 1761
RT-PCR primers: O-1C244F/EUR-2B52R;	Min. no. of nt for comparison: 300
O-1C272F/EUR-2B52R	Total turn-around time: 18 days
No. of Nt determined: 639	Sequencing time: 13 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/SAU/1/2008	SAU08-01	639	635	0	99.37	0.63
2	O/SAU/2/2008	SAU08-02	639	635	0	99.37	0.63
3	O/SAU/5/2008	SAU08-05	639	635	0	99.37	0.63
4	O/BAR/1/2008	BAR08-01	639	634	0	99.22	0.78
5	O/BAR/2/2008	BAR08-02	639	634	0	99.22	0.78
6	O/BAR/3/2008	BAR08-03	639	634	0	99.22	0.78
7	O/SAU/3/2008	SAU08-03	639	634	0	99.22	0.78
8	O/SAU/4/2008	SAU08-04	639	634	0	99.22	0.78
9	O/KUW/1/2008	KUW08-01	639	631	0	98.75	1.25
10	O/KUW/10/2008	KUW08-10	639	631	0	98.75	1.25

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 (AJ294927)	TAW99-02	639	595	0	93.11	6.89
2	O/IND/53/79 [AF292107]	IND79A53	639	565	0	88.42	11.58
3	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
4	O/IND/R2/75* [AF204276]	IND75--A	639	559	0	87.48	12.52
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	550	0	86.07	13.93
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	548	0	85.76	14.24
7	O/MOR/1/91	MOR91-01	639	546	0	85.45	14.55
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83 (AJ294919)	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	507	0	79.34	20.66

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Saudi Arabia in 2008

(only the O-PanAsia-2 lineage is shown)

Software: MEGA 4.0
 No. of Taxa : 207
 Data File : n:\evd\megadb\fmdv\o\SAU2008c.meg
 Data Title : O Saudi Arabia 2008
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=61398)
 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 : 639
 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, 29 July 2008

Inert below shows details of the sub-lineage on which O/SAU/11/2008 falls

