

Serotype: O	Report date: 22/04/2005
WRL Ref No: VIT/1/2005	
Sender Ref: VIT-1/05	
Date collected: not known	
Date received by WRLFMD: 21/03/2005	Topotype: Cathay
Date received for sequencing: 30/03/2005	Genotype/strain: Not designated
Species: Cattle	Sequence filename: VIT05-01.SEQ
Material used: RS1	Date sequence last updated: 21/04/2005
Region sequenced: VP1	Total no. of comparisons: 1672
RT-PCR primers: A-1C612F/NK61	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 32 days
No. of ambiguities: 0	Sequencing time: 23 days
Gene length: 639	

Comments: The lack of 100% relationship between the sequences of O/VIT/1/2005 (WRLFMD) with O/VIT-1/05 (TRRL) results from a frame-shift error in the latter sequence (see page 2).

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/VIT/1/05* [TRRL]	VIT05-AA	639	631	0	98.75	1.25
2	O/VIT/7/05* [TRRL]	VIT05-AG	639	631	0	98.75	1.25
3	O/VIT/2/05* [TRRL]	VIT05-AB	639	628	0	98.28	1.72
4	O/HKN/9/94	HKN94-09	360	337	0	93.61	6.39
5	O/VIT/3/97 (AJ294930)	VIT97-03	639	597	0	93.43	6.57
6	O/HKN/8/94	HKN94-08	312	290	2	92.95	7.05
7	O/HKN/12/91	HKN91-12	639	590	0	92.33	7.67
8	O/HKN/10/94	HKN94-10	339	313	9	92.33	7.67
9	O/1685/RUS/95 (AJ004680)	RUS95--C	639	587	0	91.86	8.14
10	O/Yunlin/TAW/97 (AF308157)	TAW97--B	639	586	0	91.71	8.29

#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	582	0	91.08	8.92
2	O/HKN/6/83	HKN83-06	637	557	2	87.44	12.56
3	O/TAW/2/99	TAW99-02	639	517	0	80.91	19.09
4	O/TAI/189/87* [TRRL]	TAI87-AC	639	512	0	80.13	19.87
5	O1/Manisa/TUR/69	TUR69--E	639	511	0	79.97	20.03
6	O/IND/53/79	IND79A53	639	510	0	79.81	20.19
7	O/ISR/2/88	ISR88-02	639	503	0	78.72	21.28
8	O/MOR/1/91	MOR91-01	639	502	0	78.56	21.44
9	O/IND/R2/75*	IND75--A	639	502	0	78.56	21.44
10	O1/BFS 1860/UK/67	UKG67--A	639	485	0	75.9	24.1

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 22/04/2005
WRL Ref No: VIT/3/2005	
Sender Ref: VIT-3/05	
Date collected: not known	Topotype: ME-SA
Date received by WRLFMD: 21/03/2005	Genotype/strain: PanAsia
Date received for sequencing: 30/03/2005	Sequence filename: VIT05-03.SEQ
Species: Cattle	Date sequence last updated: 21/04/2005
Material used: BTy1	Total no. of comparisons: 1672
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: A-1C612F/NK61	Total turn-around time: 32 days
No. of Nt determined: 639	Sequencing time: 23 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/VIT/3/05* [TRRL]	VIT05-AC	639	639	0	100	0
2	O/BAR/8/98	BAR98-08	639	623	0	97.5	2.5
3	O/Tibet/CHA/3/99	CHA99-03	639	622	0	97.34	2.66
4	O/IRN/20/98	IRN98-20	570	554	27	97.19	2.81
5	O/Tibet/CHA/2/99	CHA99-02	639	621	0	97.18	2.82
6	O/TAW/2/99	TAW99-02	639	620	0	97.03	2.97
7	O/Tibet/CHA/1/99	CHA99-01	639	620	0	97.03	2.97
8	O/TAW/1/99	TAW99-01	634	615	5	97	3
9	O/VIT/7/2002	VIT02-07	633	614	0	97	3
10	O/VIT/17/99	VIT99-17	464	450	1	96.98	3.02

### Relationships to Reference Virus Strains

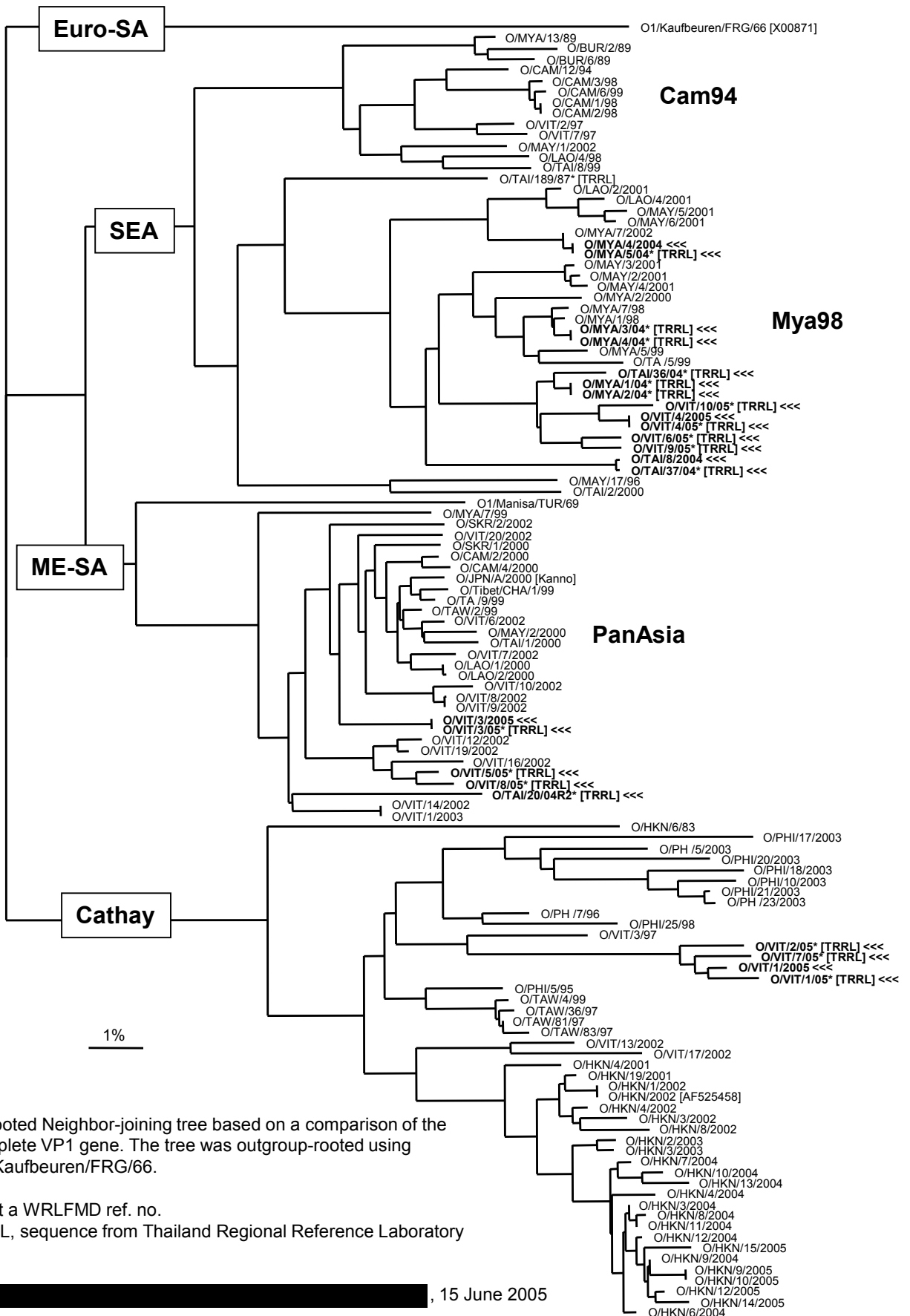
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	620	0	97.03	2.97
2	O/IND/53/79	IND79A53	639	577	0	90.3	9.7
3	O1/Manisa/TUR/69	TUR69--E	639	567	0	88.73	11.27
4	O/IND/R2/75*	IND75--A	639	566	0	88.58	11.42
5	O/MOR/1/91	MOR91-01	639	563	0	88.11	11.89
6	O/ISR/2/88	ISR88-02	639	563	0	88.11	11.89
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
8	O/PHI/5/95	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	516	2	81	19
10	O1/BFS 1860/UK/67	UKG67--A	639	514	0	80.44	19.56

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 22/04/2005						
WRL Ref No: VIT/4/2005							
Sender Ref: VIT-4/05							
Date collected: not known							
Date received by WRLFMD: 21/03/2005	Topotype: SEA						
Date received for sequencing: 30/03/2005	Genotype/strain: Not designated						
Species: Cattle	Sequence filename: VIT05-04.SEQ						
Material used: BTy1	Date sequence last updated: 21/04/2005						
Region sequenced: VP1	Total no. of comparisons: 1672						
RT-PCR primers: A-1C612F/NK61	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 32 days						
No. of ambiguities: 0	Sequencing time: 23 days						
Gene length: 639							
Comments:							
<b>Ten Most Closely Related Viruses</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/VIT/4/05* [TRRL]	VIT05-AD	639	639	0	100	0
2	O/VIT/10/05* [TRRL]	VIT05-AJ	639	629	0	98.44	1.56
3	O/MYA/2/04* [TRRL]	MYA04-AB	639	624	0	97.65	2.35
4	O/MYA/1/04* [TRRL]	MYA04-AA	639	624	0	97.65	2.35
5	O/VIT/9/05* [TRRL]	VIT05-AI	639	621	0	97.18	2.82
6	O/VIT/6/05* [TRRL]	VIT05-AF	639	620	0	97.03	2.97
7	O/TAI/36/04* [TRRL]	TAI04-AB	639	620	0	97.03	2.97
8	O/MYA/4/98	MYA98-04	351	335	8	95.44	4.56
9	O/MAY/8/99	MAY99-08	403	383	5	95.04	4.96
10	O/MAY/6/99	MAY99-06	356	338	3	94.94	5.06
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAI/189/87* [TRRL]	TAI87-AC	639	581	0	90.92	9.08
2	O/TAW/2/99	TAW99-02	639	543	0	84.98	15.02
3	O/IND/R2/75*	IND75--A	639	543	0	84.98	15.02
4	O/IND/53/79	IND79A53	639	531	0	83.1	16.9
5	O1/Manisa/TUR/69	TUR69--E	639	529	0	82.79	17.21
6	O/MOR/1/91	MOR91-01	639	526	0	82.32	17.68
7	O/ISR/2/88	ISR88-02	639	523	0	81.85	18.15
8	O1/BFS 1860/UK/67	UKG67--A	639	498	0	77.93	22.07
9	O/PHI/5/95	PHI95-05	639	497	0	77.78	22.22
10	O/HKN/6/83	HKN83-06	637	490	2	76.92	23.08
nt, nucleotides							
*, not a WRLFMD reference number							

**Report on FMDV O isolates and sequences received from the Thailand Regional Reference Laboratory in Mar-Apr 2005 (Thailand 2004 / Myanmar 2004 / Vietnam 2005)**



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using O1/Kaufbeuren/FRG/66.

\* Not a WRLFMD ref. no.  
TRRL, sequence from Thailand Regional Reference Laboratory