

Serotype: O	Report date: 07/08/2006						
WRL Ref No: VIT/7/2004							
Sender Ref: 842 O-04							
Date collected: 16/10/2004							
Date received by WRLFMD: 05/04/2006	Topotype: ME-SA						
Date received for sequencing: 13/04/2006	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: VIT04-07.SEQ						
Material used: BTy1	Date sequence last updated: 10/05/2006						
Region sequenced: VP1	Total no. of comparisons: 1918						
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 124 days						
No. of ambiguities: 0	Sequencing time: 116 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/8/05* [TRRL]	VIT05-AH	639	636	0	99.53	0.47
2	O/VIT/7/2005	VIT05-07	639	635	0	99.37	0.63
3	O/VIT/8/2004	VIT04-08	639	635	0	99.37	0.63
4	O/VIT/5/05* [TRRL]	VIT05-AE	639	633	0	99.06	0.94
5	O/VIT/2/2003	VIT03-02	639	626	0	97.97	2.03
6	O/VIT/12/2002	VIT02-12	639	625	0	97.81	2.19
7	O/VIT/16/2002	VIT02-16	639	625	0	97.81	2.19
8	O/VIT/19/2002	VIT02-19	639	623	0	97.5	2.5
9	O/Tibet/CHA/3/99	CHA99-03	639	614	0	96.09	3.91
10	O/LEB/6/98	LEB98-06	560	538	0	96.07	3.93
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	612	0	95.77	4.23
2	O/IND/53/79 [AF292107]	IND79A53	639	573	0	89.67	10.33
3	O1/Manisa/TUR/69	TUR69--E	639	572	0	89.51	10.49
4	O/IND/R2/75* [AF204276]	IND75--A	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	564	0	88.26	11.74
6	O/MOR/1/91	MOR91-01	639	558	0	87.32	12.68
7	O/ISR/2/88	ISR88-02	639	558	0	87.32	12.68
8	O1/BFS 1860/UK/67	UKG67--A	639	520	0	81.38	18.62
9	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
10	O/HKN/6/83	HKN83-06	637	517	2	81.16	18.84
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 07/08/2006  
WRL Ref No: VIT/8/2004  
Sender Ref: 842 A-04  
Date collected: 16/10/2004  
Date received by WRLFMD: 05/04/2006 Topotype: ME-SA  
Date received for sequencing: 13/04/2006 Genotype/strain: PanAsia  
Species: Cattle Sequence filename: VIT04-08.SEQ  
Material used: BTy1 Date sequence last updated: 10/05/2006  
Region sequenced: VP1 Total no. of comparisons: 1918  
RT-PCR primers: O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 639 Total turn-around time: 124 days  
No. of ambiguities: 0 Sequencing time: 116 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	O/VIT/7/2005	VIT05-07	639	639	0	100	0
2	O/VIT/7/2004	VIT04-07	639	635	0	99.37	0.63
3	O/VIT/8/05* [TRRL]	VIT05-AH	639	634	0	99.22	0.78
4	O/VIT/5/05* [TRRL]	VIT05-AE	639	631	0	98.75	1.25
5	O/VIT/2/2003	VIT03-02	639	624	0	97.65	2.35
6	O/VIT/12/2002	VIT02-12	639	623	0	97.5	2.5
7	O/VIT/16/2002	VIT02-16	639	623	0	97.5	2.5
8	O/VIT/19/2002	VIT02-19	639	621	0	97.18	2.82
9	O/BAR/1/99	BAR99-01	323	310	0	95.98	4.02
10	O/Tibet/CHA/3/99	CHA99-03	639	612	0	95.77	4.23

#### 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	610	0	95.46	4.54
2	O/IND/53/79 [AF292107]	IND79A53	639	575	0	89.98	10.02
3	O1/Manisa/TUR/69	TUR69--E	639	572	0	89.51	10.49
4	O/IND/R2/75* [AF204276]	IND75--A	639	567	0	88.73	11.27
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	564	0	88.26	11.74
6	O/MOR/1/91	MOR91-01	639	560	0	87.64	12.36
7	O/ISR/2/88	ISR88-02	639	560	0	87.64	12.36
8	O/HKN/6/83	HKN83-06	637	519	2	81.48	18.52
9	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
10	O1/BFS 1860/UK/67	UKG67--A	639	518	0	81.06	18.94

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O		Report date: 07/08/2006					
WRL Ref No: VIT/6/2005							
Sender Ref: 146B-06							
Date collected: 18/03/2005							
Date received by WRLFMD: 05/04/2006		Topotype: SEA					
Date received for sequencing: 13/04/2006		Genotype/strain: Mya98					
Species: Cattle		Sequence filename: VIT05-06.SEQ					
Material used: BHK3 BTy1		Date sequence last updated: 23/05/2006					
Region sequenced: VP1		Total no. of comparisons: 1918					
RT-PCR primers: O-1C272F_EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 639		Total turn-around time: 124 days					
No. of ambiguities: 0		Sequencing time: 116 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/TAI/3/2003	TAI03-03	639	619	0	96.87	3.13
2	O/MYA/7/2002	MYA02-07	639	610	0	95.46	4.54
3	O/MYA/4/2004	MYA04-04	639	609	0	95.31	4.69
4	O/MYA/5/04* [TRRL]	MYA04-AE	639	609	0	95.31	4.69
5	O/LAO/7/2003	LAO03-07	598	568	4	94.98	5.02
6	O/LAO/4/2001	LAO01-04	639	606	0	94.84	5.16
7	O/LAO/2/2001	LAO01-02	630	597	9	94.76	5.24
8	O/VIT/7/2006	VIT06-07	639	605	0	94.68	5.32
9	O/MAY/5/2001	MAY01-05	639	604	0	94.52	5.48
10	O/MAY/6/2001	MAY01-06	639	604	0	94.52	5.48
<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	578	0	90.45	9.55
2	O/IND/R2/75* [AF204276]	IND75--A	639	547	0	85.6	14.4
3	O/TAW/2/99	TAW99-02	639	544	0	85.13	14.87
4	O/IND/53/79 [AF292107]	IND79A53	639	540	0	84.51	15.49
5	O1/Manisa/TUR/69	TUR69--E	639	538	0	84.19	15.81
6	O/ISR/2/88	ISR88-02	639	533	0	83.41	16.59
7	O/MOR/1/91	MOR91-01	639	532	0	83.26	16.74
8	O1/BFS 1860/UK/67	UKG67--A	639	515	0	80.59	19.41
9	O/PHI/5/95	PHI95-05	639	505	0	79.03	20.97
10	O/HKN/6/83	HKN83-06	637	501	2	78.65	21.35
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 07/08/2006  
WRL Ref No: VIT/7/2005  
Sender Ref: 183-05  
Date collected: 18/03/2005  
Date received by WRLFMD: 05/04/2006 Topotype: ME-SA  
Date received for sequencing: 13/04/2006 Genotype/strain: PanAsia  
Species: Cattle Sequence filename: VIT05-07.SEQ  
Material used: BTy1 Date sequence last updated: 21/06/2006  
Region sequenced: VP1 Total no. of comparisons: 1918  
RT-PCR primers: O-1C272F/EUR-2B52R; Min. no. of nt for comparison: 300  
O-1C244F/EUR-2B52R Total turn-around time: 124 days  
No. of Nt determined: 639 Sequencing time: 116 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/8/2004	VIT04-08	639	639	0	100	0
2	O/VIT/7/2004	VIT04-07	639	635	0	99.37	0.63
3	O/VIT/8/05* [TRRL]	VIT05-AH	639	634	0	99.22	0.78
4	O/VIT/5/05* [TRRL]	VIT05-AE	639	631	0	98.75	1.25
5	O/VIT/2/2003	VIT03-02	639	624	0	97.65	2.35
6	O/VIT/16/2002	VIT02-16	639	623	0	97.5	2.5
7	O/VIT/12/2002	VIT02-12	639	623	0	97.5	2.5
8	O/VIT/19/2002	VIT02-19	639	621	0	97.18	2.82
9	O/BAR/1/99	BAR99-01	323	310	0	95.98	4.02
10	O/Tibet/CHA/3/99	CHA99-03	639	612	0	95.77	4.23

#### 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	610	0	95.46	4.54
2	O/IND/53/79 [AF292107]	IND79A53	639	575	0	89.98	10.02
3	O1/Manisa/TUR/69	TUR69--E	639	572	0	89.51	10.49
4	O/IND/R2/75* [AF204276]	IND75--A	639	567	0	88.73	11.27
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	564	0	88.26	11.74
6	O/MOR/1/91	MOR91-01	639	560	0	87.64	12.36
7	O/ISR/2/88	ISR88-02	639	560	0	87.64	12.36
8	O/HKN/6/83	HKN83-06	637	519	2	81.48	18.52
9	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
10	O1/BFS 1860/UK/67	UKG67--A	639	518	0	81.06	18.94

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 07/08/2006						
WRL Ref No: VIT/9/2005							
Sender Ref: 146H-06							
Date collected: 30/05/2005							
Date received by WRLFMD: 05/04/2006	Topotype: Cathay						
Date received for sequencing: 13/04/2006	Genotype/strain: none						
Species: Pig	Sequence filename: VIT05-09.SEQ						
Material used: BHK2 RS1	Date sequence last updated: 21/06/2006						
Region sequenced: VP1	Total no. of comparisons: 1918						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 124 days						
No. of ambiguities: 0	Sequencing time: 116 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/1/2006	VIT06-01	639	612	0	95.77	4.23
2	O/VIT/2/2006	VIT06-02	639	612	0	95.77	4.23
3	O/VIT/3/2006	VIT06-03	639	610	0	95.46	4.54
4	O/VIT/2/05* [TRRL]	VIT05-AB	639	610	0	95.46	4.54
5	O/VIT/1/2005	VIT05-01	639	599	0	93.74	6.26
6	O/VIT/7/05* [TRRL]	VIT05-AG	639	595	0	93.11	6.89
7	O/VIT/1/05* [TRRL]	VIT05-AA	639	591	0	92.49	7.51
8	O/HKN/9/94	HKN94-09	360	323	0	89.72	10.28
9	O/VIT/3/97	VIT97-03	639	573	0	89.67	10.33
10	O/XJ1/CHA/?? [AY373583]	CHAXX-AA	639	568	0	88.89	11.11
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	564	0	88.26	11.74
2	O/HKN/6/83	HKN83-06	637	542	2	85.09	14.91
3	O/TAW/2/99	TAW99-02	639	506	0	79.19	20.81
4	O1/Manisa/TUR/69	TUR69--E	639	498	0	77.93	22.07
5	O/IND/53/79 [AF292107]	IND79A53	639	498	0	77.93	22.07
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	495	0	77.46	22.54
7	O/MOR/1/91	MOR91-01	639	494	0	77.31	22.69
8	O/ISR/2/88	ISR88-02	639	494	0	77.31	22.69
9	O/IND/R2/75* [AF204276]	IND75--A	639	493	0	77.15	22.85
10	O1/BFS 1860/UK/67	UKG67--A	639	474	0	74.18	25.82
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O  
WRL Ref No: VIT/11/2005  
Sender Ref: 421-05  
Date collected: 18/06/2005  
Date received by WRLFMD: 05/04/2006  
Date received for sequencing: 13/04/2006  
Species: Pig  
Material used: BHK2 RS1  
Region sequenced: VP1  
RT-PCR primers: O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 07/08/2006  
Topotype: Cathay  
Genotype/strain: none  
Sequence filename: VIT05-11.SEQ  
Date sequence last updated: 21/06/2006  
Total no. of comparisons: 1918  
Min. no. of nt for comparison: 300  
Total turn-around time: 124 days  
Sequencing time: 116 days

Comments:

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/VIT/12/2005	VIT05-12	550	540	89	98.18	1.82
2	O/VIT/3/2004	VIT04-03	639	624	0	97.65	2.35
3	O/VIT/2/2004	VIT04-02	639	610	0	95.46	4.54
4	O/TAI/35/05B2* (TRRL)	TAI05-AD	639	602	0	94.21	5.79
5	O/TAI/64-2/05* (TRRL)	TAI05-AI	639	601	0	94.05	5.95
6	O/TAI/54-1/05B1* (TRRL)	TAI05-AF	639	600	0	93.9	6.1
7	O/TAI/64-1/05* (TRRL)	TAI05-AH	639	595	0	93.11	6.89
8	O/VIT/6/99	VIT99-06	503	468	1	93.04	6.96
9	O/TAI/54-2/05B1* (TRRL)	TAI05-AG	639	594	0	92.96	7.04
10	O/HKN/10/98	HKN98-10	614	568	3	92.51	7.49

#### 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	571	0	89.36	10.64
2	O/HKN/6/83	HKN83-06	637	538	2	84.46	15.54
3	O/IND/53/79 [AF292107]	IND79A53	639	511	0	79.97	20.03
4	O/TAW/2/99	TAW99-02	639	506	0	79.19	20.81
5	O/MOR/1/91	MOR91-01	639	502	0	78.56	21.44
6	O/ISR/2/88	ISR88-02	639	502	0	78.56	21.44
7	O1/Manisa/TUR/69	TUR69--E	639	499	0	78.09	21.91
8	O/TAI/189/87* [TRRL]	TAI87-AC	639	497	0	77.78	22.22
9	O/IND/R2/75* [AF204276]	IND75--A	639	495	0	77.46	22.54
10	O1/BFS 1860/UK/67	UKG67--A	639	481	0	75.27	24.73

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 07/08/2006						
WRL Ref No: VIT/17/2005							
Sender Ref: 104-06							
Date collected: 10/11/2005							
Date received by WRLFMD: 05/04/2006	Topotype: ME-SA						
Date received for sequencing: 13/04/2006	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: VIT05-17.SEQ						
Material used: BHK2 BTy1	Date sequence last updated: 21/06/2006						
Region sequenced: VP1	Total no. of comparisons: 1918						
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 124 days						
No. of ambiguities: 0	Sequencing time: 116 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/14/2002	VIT02-14	639	624	0	97.65	2.35
2	O/VIT/1/2003	VIT03-01	639	624	0	97.65	2.35
3	O/VIT/2/2002	VIT02-02	488	472	4	96.72	3.28
4	O/NEP/4/98	NEP98-04	639	618	0	96.71	3.29
5	O/TAW/2/99	TAW99-02	639	618	0	96.71	3.29
6	O/IND/146/98* [IVRI]	IND98-AW	639	618	0	96.71	3.29
7	O/TAW/1/99	TAW99-01	634	613	5	96.69	3.31
8	O/SKR/2000 (AF428246)	SKR00-AC	639	617	0	96.56	3.44
9	O/IND/5/00* [1999;IVRI]	IND99-AR	639	617	0	96.56	3.44
10	O/SKR/2000 [AJ539139]	SKR00-AA	639	617	0	96.56	3.44
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	618	0	96.71	3.29
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
4	O1/Manisa/TUR/69	TUR69--E	639	568	0	88.89	11.11
5	O/ISR/2/88	ISR88-02	639	564	0	88.26	11.74
6	O/MOR/1/91	MOR91-01	639	562	0	87.95	12.05
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	560	0	87.64	12.36
8	O/PHI/5/95	PHI95-05	639	532	0	83.26	16.74
9	O/HKN/6/83	HKN83-06	637	529	2	83.05	16.95
10	O1/BFS 1860/UK/67	UKG67--A	639	519	0	81.22	18.78
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 07/08/2006  
WRL Ref No: VIT/1/2006  
Sender Ref: 24-06  
Date collected: 01/01/2006  
Date received by WRLFMD: 05/04/2006 Topotype: Cathay  
Date received for sequencing: 13/04/2006 Genotype/strain: none  
Species: Pig Sequence filename: VIT06-01.SEQ  
Material used: BHK2 RS1 Date sequence last updated: 07/07/2006  
Region sequenced: VP1 Total no. of comparisons: 1918  
RT-PCR primers: O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 639 Total turn-around time: 124 days  
No. of ambiguities: 0 Sequencing time: 116 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	O/VIT/2/2006	VIT06-02	639	639	0	100	0
2	O/VIT/3/2006	VIT06-03	639	637	0	99.69	0.31
3	O/VIT/2/05* [TRRL]	VIT05-AB	639	618	0	96.71	3.29
4	O/VIT/9/2005	VIT05-09	639	612	0	95.77	4.23
5	O/VIT/1/2005	VIT05-01	639	607	0	94.99	5.01
6	O/VIT/7/05* [TRRL]	VIT05-AG	639	603	0	94.37	5.63
7	O/VIT/1/05* [TRRL]	VIT05-AA	639	600	0	93.9	6.1
8	O/HKN/9/94	HKN94-09	360	327	0	90.83	9.17
9	O/VIT/3/97	VIT97-03	639	579	0	90.61	9.39
10	O/HKN/8/94	HKN94-08	312	281	2	90.06	9.94

#### 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	570	0	89.2	10.8
2	O/HKN/6/83	HKN83-06	637	547	2	85.87	14.13
3	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
4	O1/Manisa/TUR/69	TUR69--E	639	508	0	79.5	20.5
5	O/IND/53/79 [AF292107]	IND79A53	639	508	0	79.5	20.5
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	507	0	79.34	20.66
7	O/IND/R2/75* [AF204276]	IND75--A	639	505	0	79.03	20.97
8	O/ISR/2/88	ISR88-02	639	503	0	78.72	21.28
9	O/MOR/1/91	MOR91-01	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: 07/08/2006					
WRL Ref No: VIT/2/2006							
Sender Ref: 43-06							
Date collected: 11/01/2006							
Date received by WRLFMD: 05/04/2006		Topotype: Cathay					
Date received for sequencing: 13/04/2006		Genotype/strain: none					
Species: Pig		Sequence filename: VIT06-02.SEQ					
Material used: RS1		Date sequence last updated: 07/07/2006					
Region sequenced: VP1		Total no. of comparisons: 1918					
RT-PCR primers: O-1C272F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 639		Total turn-around time: 124 days					
No. of ambiguities: 0		Sequencing time: 116 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/1/2006	VIT06-01	639	639	0	100	0
2	O/VIT/3/2006	VIT06-03	639	637	0	99.69	0.31
3	O/VIT/2/05* [TRRL]	VIT05-AB	639	618	0	96.71	3.29
4	O/VIT/9/2005	VIT05-09	639	612	0	95.77	4.23
5	O/VIT/1/2005	VIT05-01	639	607	0	94.99	5.01
6	O/VIT/7/05* [TRRL]	VIT05-AG	639	603	0	94.37	5.63
7	O/VIT/1/05* [TRRL]	VIT05-AA	639	600	0	93.9	6.1
8	O/HKN/9/94	HKN94-09	360	327	0	90.83	9.17
9	O/VIT/3/97	VIT97-03	639	579	0	90.61	9.39
10	O/HKN/8/94	HKN94-08	312	281	2	90.06	9.94
<b>Relationships to Reference Virus Strains</b>							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	570	0	89.2	10.8
2	O/HKN/6/83	HKN83-06	637	547	2	85.87	14.13
3	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
4	O1/Manisa/TUR/69	TUR69--E	639	508	0	79.5	20.5
5	O/IND/53/79 [AF292107]	IND79A53	639	508	0	79.5	20.5
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	507	0	79.34	20.66
7	O/IND/R2/75* [AF204276]	IND75--A	639	505	0	79.03	20.97
8	O/ISR/2/88	ISR88-02	639	503	0	78.72	21.28
9	O/MOR/1/91	MOR91-01	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: 07/08/2006  
WRL Ref No: VIT/3/2006  
Sender Ref: 51-06  
Date collected: 12/01/2006  
Date received by WRLFMD: 05/04/2006 Topotype: Cathay  
Date received for sequencing: 13/04/2006 Genotype/strain: none  
Species: Pig Sequence filename: VIT06-03.SEQ  
Material used: BHK2 RS1 Date sequence last updated: 07/07/2006  
Region sequenced: VP1 Total no. of comparisons: 1918  
RT-PCR primers: O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 639 Total turn-around time: 124 days  
No. of ambiguities: 0 Sequencing time: 116 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	O/VIT/1/2006	VIT06-01	639	637	0	99.69	0.31
2	O/VIT/2/2006	VIT06-02	639	637	0	99.69	0.31
3	O/VIT/2/05* [TRRL]	VIT05-AB	639	618	0	96.71	3.29
4	O/VIT/9/2005	VIT05-09	639	610	0	95.46	4.54
5	O/VIT/1/2005	VIT05-01	639	607	0	94.99	5.01
6	O/VIT/7/05* [TRRL]	VIT05-AG	639	603	0	94.37	5.63
7	O/VIT/1/05* [TRRL]	VIT05-AA	639	600	0	93.9	6.1
8	O/HKN/9/94	HKN94-09	360	327	0	90.83	9.17
9	O/VIT/3/97	VIT97-03	639	579	0	90.61	9.39
10	O/HKN/8/94	HKN94-08	312	281	2	90.06	9.94

#### 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	570	0	89.2	10.8
2	O/HKN/6/83	HKN83-06	637	545	2	85.56	14.44
3	O/TAW/2/99	TAW99-02	639	515	0	80.59	19.41
4	O/IND/53/79 [AF292107]	IND79A53	639	508	0	79.5	20.5
5	O1/Manisa/TUR/69	TUR69--E	639	506	0	79.19	20.81
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	505	0	79.03	20.97
7	O/IND/R2/75* [AF204276]	IND75--A	639	504	0	78.87	21.13
8	O/ISR/2/88	ISR88-02	639	501	0	78.4	21.6
9	O/MOR/1/91	MOR91-01	639	500	0	78.25	21.75
10	O1/BFS 1860/UK/67	UKG67--A	639	486	0	76.06	23.94

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O		Report date: 07/08/2006					
WRL Ref No: VIT/4/2006							
Sender Ref: 116-06							
Date collected: 08/02/2006							
Date received by WRLFMD: 05/04/2006		Topotype: SEA					
Date received for sequencing: 13/04/2006		Genotype/strain: Mya98					
Species: Pig		Sequence filename: VIT06-04.SEQ					
Material used: BHK2 RS1		Date sequence last updated: 05/07/2006					
Region sequenced: VP1		Total no. of comparisons: 1918					
RT-PCR primers: O-1C272F/EUR-2B52R		Min. no. of nt for comparison: 300					
No. of Nt determined: 637		Total turn-around time: 124 days					
No. of ambiguities: 2		Sequencing time: 116 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/7/2006	VIT06-07	637	627	2	98.43	1.57
2	O/VIT/5/2006	VIT06-05	636	626	3	98.43	1.57
3	O/VIT/6/2006	VIT06-06	636	623	3	97.96	2.04
4	O/TAI/3/2003	TAI03-03	637	603	2	94.66	5.34
5	O/LAO/7/2003	LAO03-07	597	565	5	94.64	5.36
6	O/LAO/2/2001	LAO01-02	628	590	11	93.95	6.05
7	O/MYA/7/2002	MYA02-07	637	597	2	93.72	6.28
8	O/LAO/4/2001	LAO01-04	637	597	2	93.72	6.28
9	O/MYA/4/2004	MYA04-04	637	596	2	93.56	6.44
10	O/MYA/5/04* [TRRL]	MYA04-AE	637	596	2	93.56	6.44
<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	637	565	2	88.7	11.3
2	O/TAW/2/99	TAW99-02	637	536	2	84.14	15.86
3	O/IND/R2/75* [AF204276]	IND75--A	637	533	2	83.67	16.33
4	O1/Manisa/TUR/69	TUR69--E	637	530	2	83.2	16.8
5	O/IND/53/79 [AF292107]	IND79A53	637	526	2	82.57	17.43
6	O/MOR/1/91	MOR91-01	637	520	2	81.63	18.37
7	O/ISR/2/88	ISR88-02	637	519	2	81.48	18.52
8	O1/BFS 1860/UK/67	UKG67--A	637	498	2	78.18	21.82
9	O/PHI/5/95	PHI95-05	637	496	2	77.86	22.14
10	O/HKN/6/83	HKN83-06	635	490	4	77.17	22.83
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 07/08/2006  
WRL Ref No: VIT/5/2006  
Sender Ref: 125-06  
Date collected: 17/02/2006  
Date received by WRLFMD: 05/04/2006 Topotype: SEA  
Date received for sequencing: 13/04/2006 Genotype/strain: Mya98  
Species: Cattle Sequence filename: VIT06-05.SEQ  
Material used: BHK2 BTy1 Date sequence last updated: 07/07/2006  
Region sequenced: VP1 Total no. of comparisons: 1918  
RT-PCR primers: O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 638 Total turn-around time: 124 days  
No. of ambiguities: 1 Sequencing time: 116 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	O/VIT/4/2006	VIT06-04	636	626	3	98.43	1.57
2	O/VIT/6/2006	VIT06-06	638	625	1	97.96	2.04
3	O/VIT/7/2006	VIT06-07	638	624	1	97.81	2.19
4	O/TAI/3/2003	TAI03-03	638	603	1	94.51	5.49
5	O/LAO/7/2003	LAO03-07	597	562	5	94.14	5.86
6	O/LAO/2/2001	LAO01-02	629	589	10	93.64	6.36
7	O/LAO/4/2001	LAO01-04	638	596	1	93.42	6.58
8	O/VIT/6/2005	VIT05-06	638	595	1	93.26	6.74
9	O/MYA/7/2002	MYA02-07	638	595	1	93.26	6.74
10	O/TAI/14/05* (TRRL)	TAI05-AB	638	595	1	93.26	6.74

#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAI/189/87* [TRRL]	TAI87-AC	638	565	1	88.56	11.44
2	O/TAW/2/99	TAW99-02	638	536	1	84.01	15.99
3	O/IND/R2/75* [AF204276]	IND75--A	638	533	1	83.54	16.46
4	O1/Manisa/TUR/69	TUR69--E	638	530	1	83.07	16.93
5	O/IND/53/79 [AF292107]	IND79A53	638	528	1	82.76	17.24
6	O/MOR/1/91	MOR91-01	638	519	1	81.35	18.65
7	O/ISR/2/88	ISR88-02	638	518	1	81.19	18.81
8	O1/BFS 1860/UK/67	UKG67--A	638	498	1	78.06	21.94
9	O/PHI/5/95	PHI95-05	638	498	1	78.06	21.94
10	O/HKN/6/83	HKN83-06	636	492	3	77.36	22.64

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 07/08/2006						
WRL Ref No: VIT/6/2006							
Sender Ref: 140H-06							
Date collected: 01/03/2006							
Date received by WRLFMD: 05/04/2006	Topotype: SEA						
Date received for sequencing: 13/04/2006	Genotype/strain: Mya98						
Species: Pig	Sequence filename: VIT06-06.SEQ						
Material used: BHK2 RS1	Date sequence last updated: 07/07/2006						
Region sequenced: VP1	Total no. of comparisons: 1918						
RT-PCR primers: O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 638	Total turn-around time: 124 days						
No. of ambiguities: 1	Sequencing time: 116 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/5/2006	VIT06-05	638	625	1	97.96	2.04
2	O/VIT/4/2006	VIT06-04	636	623	3	97.96	2.04
3	O/VIT/7/2006	VIT06-07	638	623	1	97.65	2.35
4	O/TAI/3/2003	TAI03-03	638	602	1	94.36	5.64
5	O/LAO/7/2003	LAO03-07	597	561	5	93.97	6.03
6	O/VIT/6/2005	VIT05-06	638	596	1	93.42	6.58
7	O/LAO/2/2001	LAO01-02	629	587	10	93.32	6.68
8	O/LAO/4/2001	LAO01-04	638	593	1	92.95	7.05
9	O/TAI/14/05* (TRRL)	TAI05-AB	638	593	1	92.95	7.05
10	O/MYA/7/2002	MYA02-07	638	592	1	92.79	7.21
<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	638	564	1	88.4	11.6
2	O/TAW/2/99	TAW99-02	638	535	1	83.86	16.14
3	O/IND/R2/75* [AF204276]	IND75--A	638	534	1	83.7	16.3
4	O1/Manisa/TUR/69	TUR69--E	638	531	1	83.23	16.77
5	O/IND/53/79 [AF292107]	IND79A53	638	525	1	82.29	17.71
6	O/MOR/1/91	MOR91-01	638	520	1	81.5	18.5
7	O/ISR/2/88	ISR88-02	638	519	1	81.35	18.65
8	O1/BFS 1860/UK/67	UKG67--A	638	499	1	78.21	21.79
9	O/PHI/5/95	PHI95-05	638	495	1	77.59	22.41
10	O/HKN/6/83	HKN83-06	636	487	3	76.57	23.43
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O Report date: 07/08/2006  
WRL Ref No: VIT/7/2006  
Sender Ref: 140B-06  
Date collected: 01/03/2006  
Date received by WRLFMD: 05/04/2006 Topotype: SEA  
Date received for sequencing: 13/04/2006 Genotype/strain: Mya98  
Species: Cattle Sequence filename: VIT06-07.SEQ  
Material used: BHK2 BTy1 Date sequence last updated: 06/07/2006  
Region sequenced: VP1 Total no. of comparisons: 1918  
RT-PCR primers: O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300  
No. of Nt determined: 639 Total turn-around time: 124 days  
No. of ambiguities: 0 Sequencing time: 116 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	O/VIT/4/2006	VIT06-04	637	627	2	98.43	1.57
2	O/VIT/5/2006	VIT06-05	638	624	1	97.81	2.19
3	O/VIT/6/2006	VIT06-06	638	623	1	97.65	2.35
4	O/TAI/3/2003	TAI03-03	639	613	0	95.93	4.07
5	O/LAO/7/2003	LAO03-07	598	568	4	94.98	5.02
6	O/VIT/6/2005	VIT05-06	639	605	0	94.68	5.32
7	O/LAO/4/2001	LAO01-04	639	604	0	94.52	5.48
8	O/TAI/14/05* (TRRL)	TAI05-AB	639	604	0	94.52	5.48
9	O/LAO/2/2001	LAO01-02	630	595	9	94.44	5.56
10	O/MYA/7/2002	MYA02-07	639	603	0	94.37	5.63

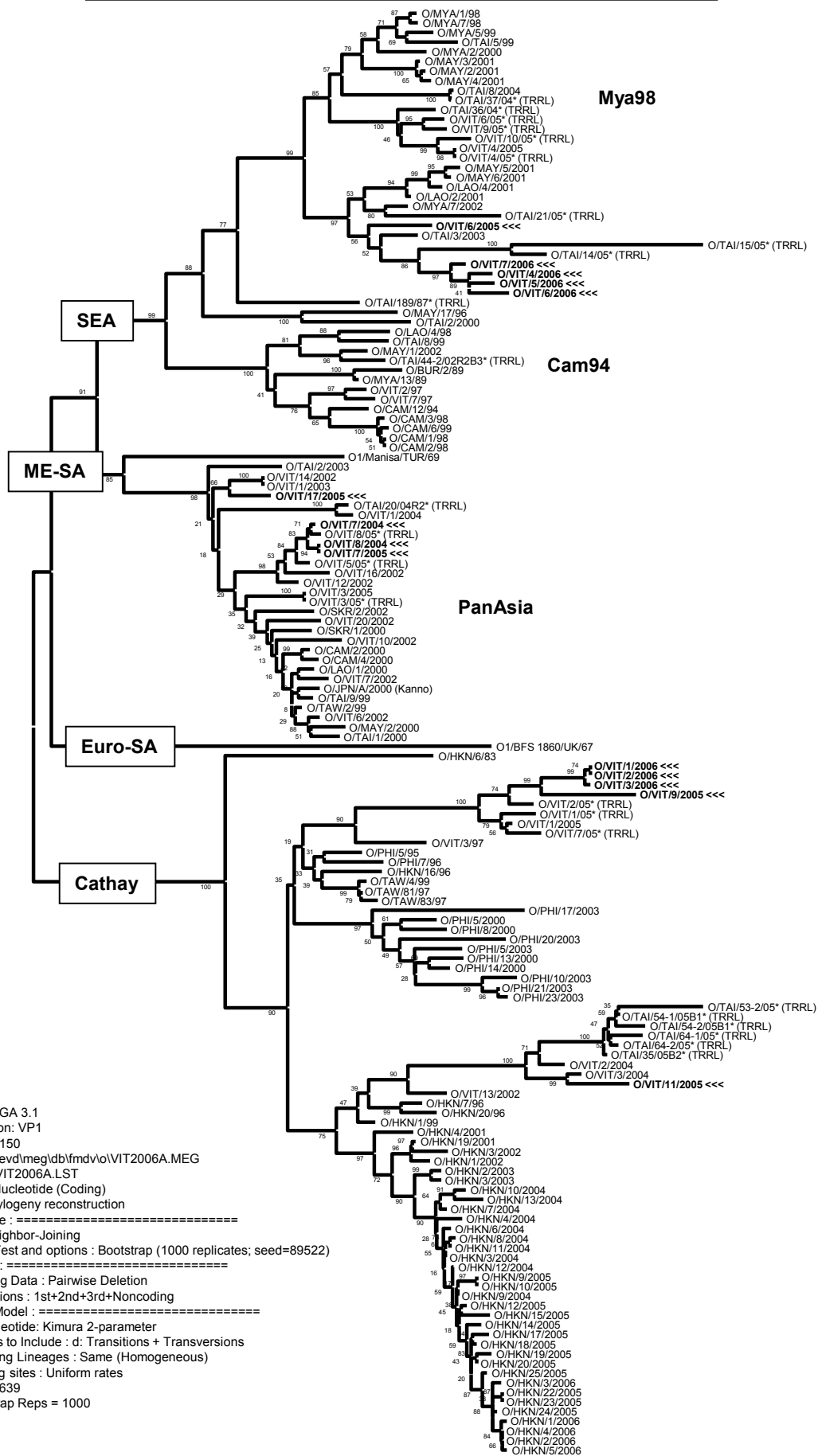
#### Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAI/189/87* [TRRL]	TAI87-AC	639	570	0	89.2	10.8
2	O/TAW/2/99	TAW99-02	639	541	0	84.66	15.34
3	O/IND/R2/75* [AF204276]	IND75--A	639	541	0	84.66	15.34
4	O1/Manisa/TUR/69	TUR69--E	639	537	0	84.04	15.96
5	O/IND/53/79 [AF292107]	IND79A53	639	532	0	83.26	16.74
6	O/MOR/1/91	MOR91-01	639	529	0	82.79	17.21
7	O/ISR/2/88	ISR88-02	639	528	0	82.63	17.37
8	O1/BFS 1860/UK/67	UKG67--A	639	505	0	79.03	20.97
9	O/PHI/5/95	PHI95-05	639	502	0	78.56	21.44
10	O/HKN/6/83	HKN83-06	637	497	2	78.02	21.98

nt, nucleotides

\*, not a WRLFMD reference number

# Report on FMDV-O Vietnam 2004-2006



Software: MEGA 3.1  
 Genome region: VP1  
 No. of Taxa : 150  
 Data File : n:\evd\megadb\fmv\o\vit2006A.MEG  
 Data Title : VIT2006A.LST  
 Data Type : Nucleotide (Coding)  
 Analysis : Phylogeny reconstruction  
 Tree Inference : =====  
 Method : Neighbor-Joining  
 Phylogeny Test and options : Bootstrap (1000 replicates; seed=89522)  
 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

