

Serotype: O Report date: 31/01/2007  
WRL Ref No: MAY/9/2005  
Sender Ref: MVKPJ 3941/06  
Date collected: 30/12/2005  
Date received by WRLFMD: 30/11/2006 Topotype: Middle East-South Asia (ME-SA)  
Date received for sequencing: 04/12/2006 Genotype/strain: PanAsia  
Species: Buffalo Sequence filename: MAY05-09.SEQ  
Material used: BTy1 Date sequence last updated: 29/01/2007  
Region sequenced: VP1 Total no. of comparisons: 1474  
RT-PCR primers: O-1C244F/EUR-2B52R; Min. no. of nt for comparison: 300  
O-1C272F/EUR-2B52R Total turn-around time: 62 days  
No. of Nt determined: 639 Sequencing time: 58 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/MAY/3/2005	MAY05-03	639	636	0	99.53	0.47
2	O/MAY/3/2006	MAY06-03	639	636	0	99.53	0.47
3	O/MAY/4/2005	MAY05-04	639	636	0	99.53	0.47
4	O/MAY/6/2005	MAY05-06	639	636	0	99.53	0.47
5	O/MAY/7/2005	MAY05-07	639	636	0	99.53	0.47
6	O/MAY/1/2006	MAY06-01	639	635	0	99.37	0.63
7	O/MAY/2/2006	MAY06-02	639	635	0	99.37	0.63
8	O/MAY/2/2004	MAY04-02	608	596	0	98.03	1.97
9	O/MAY/3/2004	MAY04-03	606	593	0	97.85	2.15
10	O/NEP/2/2003	NEP03-02	638	622	1	97.49	2.51

### 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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	577	0	90.3	9.7
3	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	562	0	87.95	12.05
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	557	0	87.17	12.83
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	554	0	86.7	13.3
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O Report date: 31/01/2007  
WRL Ref No: MAY/1/2006  
Sender Ref: MVKPJ 3942/06  
Date collected: 20/01/2006  
Date received by WRLFMD: 30/11/2006 Topotype: Middle East-South Asia (ME-SA)  
Date received for sequencing: 04/12/2006 Genotype/strain: PanAsia  
Species: Cattle Sequence filename: MAY06-01.SEQ  
Material used: BTy1 Date sequence last updated: 29/01/2007  
Region sequenced: VP1 Total no. of comparisons: 1474  
RT-PCR primers: O-1C244F/EUR-2B52R; Min. no. of nt for comparison: 300  
O-1C272F/EUR-2B52R Total turn-around time: 62 days  
No. of Nt determined: 639 Sequencing time: 58 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/MAY/3/2005	MAY05-03	639	638	0	99.84	0.16
2	O/MAY/3/2006	MAY06-03	639	638	0	99.84	0.16
3	O/MAY/4/2005	MAY05-04	639	638	0	99.84	0.16
4	O/MAY/6/2005	MAY05-06	639	638	0	99.84	0.16
5	O/MAY/7/2005	MAY05-07	639	638	0	99.84	0.16
6	O/MAY/2/2006	MAY06-02	639	637	0	99.69	0.31
7	O/MAY/9/2005	MAY05-09	639	635	0	99.37	0.63
8	O/MAY/2/2004	MAY04-02	608	596	0	98.03	1.97
9	O/MAY/3/2004	MAY04-03	606	593	0	97.85	2.15
10	O/NEP/2/2003	NEP03-02	638	622	1	97.49	2.51

### 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	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	573	0	89.67	10.33
3	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	564	0	88.26	11.74
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	558	0	87.32	12.68
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
7	O/MOR/1/91	MOR91-01	639	555	0	86.85	13.15
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: MAY/2/2006  
Sender Ref: MVKPJ 3943/06  
Date collected: 27/01/2006  
Date received by WRLFMD: 30/11/2006  
Date received for sequencing: 04/12/2006  
Species: Cattle  
Material used: BTy1  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 31/01/2007  
Topotype: Middle East-South Asia (ME-SA)  
Genotype/strain: PanAsia  
Sequence filename: MAY06-02.SEQ  
Date sequence last updated: 29/01/2007  
Total no. of comparisons: 1474  
Min. no. of nt for comparison: 300  
Total turn-around time: 62 days  
Sequencing time: 58 days

Comments:

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/MAY/3/2005	MAY05-03	639	638	0	99.84	0.16
2	O/MAY/3/2006	MAY06-03	639	638	0	99.84	0.16
3	O/MAY/4/2005	MAY05-04	639	638	0	99.84	0.16
4	O/MAY/6/2005	MAY05-06	639	638	0	99.84	0.16
5	O/MAY/7/2005	MAY05-07	639	638	0	99.84	0.16
6	O/MAY/1/2006	MAY06-01	639	637	0	99.69	0.31
7	O/MAY/9/2005	MAY05-09	639	635	0	99.37	0.63
8	O/MAY/2/2004	MAY04-02	608	596	0	98.03	1.97
9	O/MAY/3/2004	MAY04-03	606	593	0	97.85	2.15
10	O/NEP/2/2003	NEP03-02	638	622	1	97.49	2.51

#### 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	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	573	0	89.67	10.33
3	O/IND/R2/75* [AF204276]	IND75--A	639	571	0	89.36	10.64
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	564	0	88.26	11.74
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	558	0	87.32	12.68
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	557	0	87.17	12.83
7	O/MOR/1/91	MOR91-01	639	555	0	86.85	13.15
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: MAY/3/2006  
Sender Ref: MVKPJ 3944/06  
Date collected: 27/01/2006  
Date received by WRLFMD: 30/11/2006  
Date received for sequencing: 04/12/2006  
Species: Cattle  
Material used: BTy1  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 31/01/2007  
Topotype: Middle East-South Asia (ME-SA)  
Genotype/strain: PanAsia  
Sequence filename: MAY06-03.SEQ  
Date sequence last updated: 29/01/2007  
Total no. of comparisons: 1474  
Min. no. of nt for comparison: 300  
Total turn-around time: 62 days  
Sequencing time: 58 days

Comments:

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/MAY/3/2005	MAY05-03	639	639	0	100	0
2	O/MAY/4/2005	MAY05-04	639	639	0	100	0
3	O/MAY/6/2005	MAY05-06	639	639	0	100	0
4	O/MAY/7/2005	MAY05-07	639	639	0	100	0
5	O/MAY/1/2006	MAY06-01	639	638	0	99.84	0.16
6	O/MAY/2/2006	MAY06-02	639	638	0	99.84	0.16
7	O/MAY/9/2005	MAY05-09	639	636	0	99.53	0.47
8	O/MAY/2/2004	MAY04-02	608	597	0	98.19	1.81
9	O/MAY/3/2004	MAY04-03	606	594	0	98.02	1.98
10	O/NEP/2/2003	NEP03-02	638	623	1	97.65	2.35

#### Relationships to Reference Virus Strains

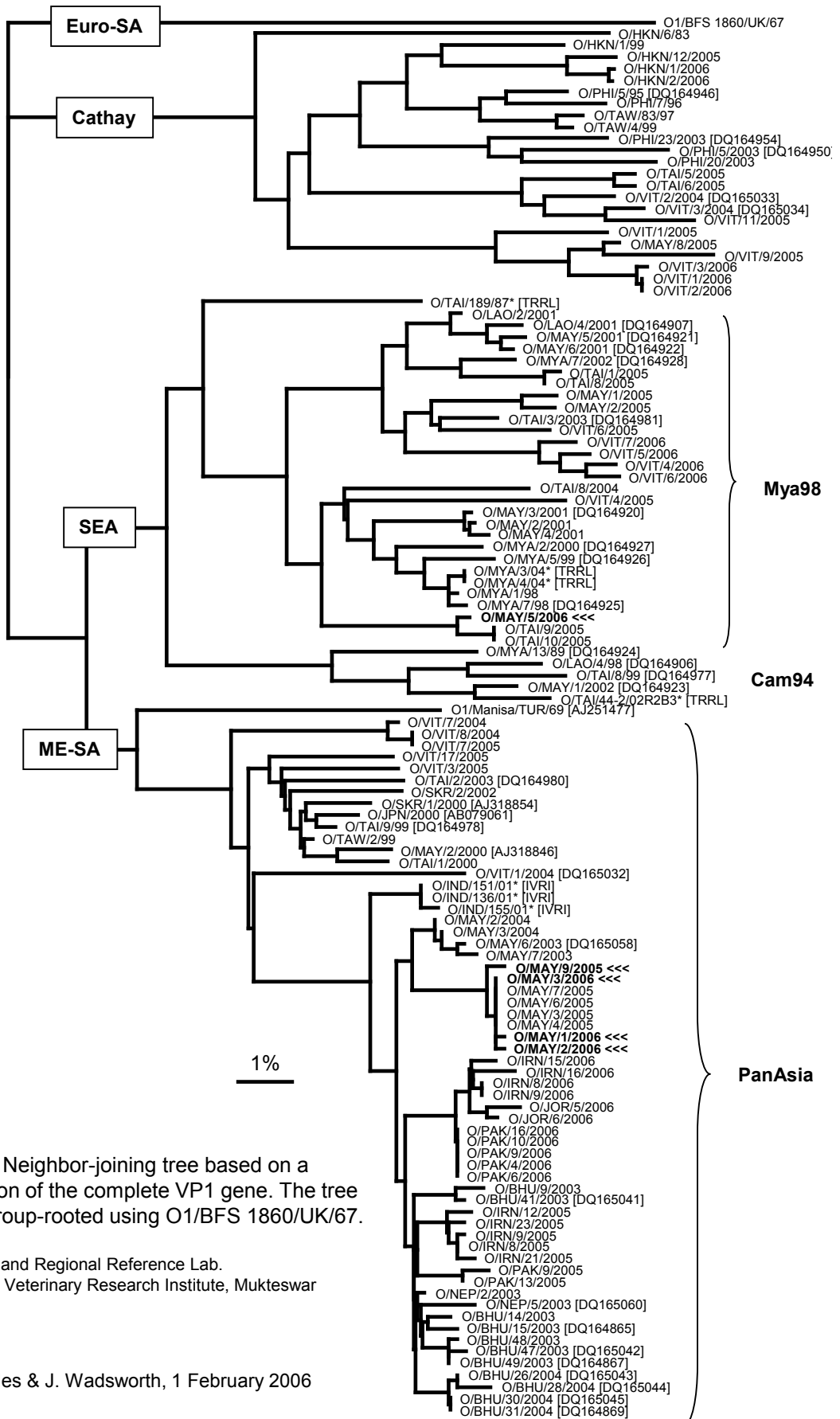
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	604	0	94.52	5.48
2	O/IND/53/79 [AF292107]	IND79A53	639	574	0	89.83	10.17
3	O/IND/R2/75* [AF204276]	IND75--A	639	572	0	89.51	10.49
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	565	0	88.42	11.58
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	559	0	87.48	12.52
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	558	0	87.32	12.68
7	O/MOR/1/91	MOR91-01	639	556	0	87.01	12.99
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	522	0	81.69	18.31
9	O/HKN/6/83	HKN83-06	637	514	2	80.69	19.31
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 31/01/2007						
WRL Ref No: MAY/5/2006							
Sender Ref: MVKPJ 3946/06							
Date collected: 27/02/2006							
Date received by WRLFMD: 30/11/2006	Topotype: Southeast Asia (SEA)						
Date received for sequencing: 04/12/2006	Genotype/strain: Mya98						
Species: Cattle	Sequence filename: MAY06-05.SEQ						
Material used: BTy1	Date sequence last updated: 29/01/2007						
Region sequenced: VP1	Total no. of comparisons: 1474						
RT-PCR primers: O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 300						
No. of Nt determined: 639	Total turn-around time: 62 days						
No. of ambiguities: 0	Sequencing time: 58 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/10/2005	TAI05-10	639	633	0	99.06	0.94
2	O/TAI/9/2005	TAI05-09	639	633	0	99.06	0.94
3	O/MYA/4/98	MYA98-04	351	337	8	96.01	3.99
4	O/MYA/1/98	MYA98-01	630	602	9	95.56	4.44
5	O/MYA/3/04* [TRRL]	MYA04-AC	639	610	0	95.46	4.54
6	O/MYA/4/04* [TRRL]	MYA04-AD	639	610	0	95.46	4.54
7	O/MYA/7/98 (DQ164925)	MYA98-07	639	608	0	95.15	4.85
8	O/MYA/3/98	MYA98-03	323	306	15	94.74	5.26
9	O/MAY/8/99	MAY99-08	403	381	5	94.54	5.46
10	O/TAI/4/99 (DQ164976)	TAI99-04	638	601	1	94.2	5.8
<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	574	0	89.83	10.17
2	O/TAW/2/99	TAW99-02	639	553	0	86.54	13.46
3	O/IND/R2/75* [AF204276]	IND75--A	639	551	0	86.23	13.77
4	O/IND/53/79 [AF292107]	IND79A53	639	550	0	86.07	13.93
5	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	544	0	85.13	14.87
6	O/MOR/1/91	MOR91-01	639	537	0	84.04	15.96
7	O/ISR/2/88 (DQ164899)	ISR88-02	639	536	0	83.88	16.12
8	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	506	0	79.19	20.81
10	O/HKN/6/83	HKN83-06	637	502	2	78.81	21.19
nt, nucleotides							
*, not a WRLFMD reference number							

# Report on FMDV O Malaysia 2005-2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67.

TRRL, Thailand Regional Reference Lab.  
IVRI, Indian Veterinary Research Institute, Mukteswar