

Serotype: O	Report date: 09/11/2004
WRL Ref No: PHI/1/2004	
Date collected: 13/01/2004	
Date received: 21/10/2004	Topotype: Cathay
Species: Porcine	Genotype/strain:
Material used: 10% epith. susp.	Sequence filename: PHI04-01.SEQ
Region sequenced: VP1	Date sequence last updated: 08/11/2004
RT-PCR primers: O-1C272F/NK61	Total no. of comparisons: 1530
No. of Nt determined: 639	Min. no. of nt for comparison: 300
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/PHI/21/2003	PHI03-21	639	633	0	99.06	0.94
2	O/PHI/23/2003	PHI03-23	639	631	0	98.75	1.25
3	O/PHI/10/2003	PHI03-10	639	623	0	97.5	2.5
4	O/PHI/18/2003	PHI03-18	620	601	1	96.94	3.06
5	O/PHI/14/2000	PHI00-14	639	610	0	95.46	4.54
6	O/PHI/13/2000	PHI00-13	639	607	0	94.99	5.01
7	O/PHI/5/2003	PHI03-05	639	607	0	94.99	5.01
8	O/PHI/1/99	PHI99-01	585	555	9	94.87	5.13
9	O/PHI/5/99	PHI99-05	542	513	7	94.65	5.35
10	O/PHI/5/2000	PHI00-05	639	602	0	94.21	5.79

* excluding those in this batch (see supplementary data)

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	584	0	91.39	8.61
2	O/HKN/6/83	HKN83-06	637	547	2	85.87	14.13
3	O/TAW/2/99	TAW99-02	639	520	0	81.38	18.62
4	O/ISR/2/88	ISR88-02	639	517	0	80.91	19.09
5	O/IND/53/79	IND79A53	639	517	0	80.91	19.09
6	O1/Manisa/TUR/69	TUR69--E	639	514	0	80.44	19.56
7	O/MOR/1/91	MOR91-01	207	166	3	80.19	19.81
8	O/IND/R2/75*	IND75--A	639	509	0	79.66	20.34
9	O/TAI/189/87*	TAI87-AC	639	508	0	79.5	20.5
10	O1/BFS 1860/UK/67	UKG67--A	639	488	0	76.37	23.63

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/11/2004
WRL Ref No: PHI/2/2004	
Date collected: 16/01/2004	
Date received: 21/10/2004	
Species: Porcine	Topotype: Cathay
Material used: RS1	Genotype/strain:
Region sequenced: VP1	Sequence filename: PHI04-02.SEQ
RT-PCR primers: O-1C272F/NK61	Date sequence last updated: 08/11/2004
No. of Nt determined: 639	Total no. of comparisons: 1530
No. of ambiguities: 0	Min. no. of nt for comparison: 300
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/PHI/21/2003	PHI03-21	639	629	0	98.44	1.56
2	O/PHI/23/2003	PHI03-23	639	627	0	98.12	1.88
3	O/PHI/10/2003	PHI03-10	639	620	0	97.03	2.97
4	O/PHI/18/2003	PHI03-18	620	601	1	96.94	3.06
5	O/PHI/14/2000	PHI00-14	639	606	0	94.84	5.16
6	O/PHI/13/2000	PHI00-13	639	603	0	94.37	5.63
7	O/PHI/5/2003	PHI03-05	639	603	0	94.37	5.63
8	O/PHI/1/99	PHI99-01	585	551	9	94.19	5.81
9	O/PHI/5/99	PHI99-05	542	509	7	93.91	6.09
10	O/PHI/5/2000	PHI00-05	639	598	0	93.58	6.42

* excluding those in this batch (see supplementary data)

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	580	0	90.77	9.23
2	O/HKN/6/83	HKN83-06	637	543	2	85.24	14.76
3	O/TAW/2/99	TAW99-02	639	520	0	81.38	18.62
4	O/IND/53/79	IND79A53	639	518	0	81.06	18.94
5	O1/Manisa/TUR/69	TUR69--E	639	517	0	80.91	19.09
6	O/ISR/2/88	ISR88-02	639	517	0	80.91	19.09
7	O/MOR/1/91	MOR91-01	207	166	3	80.19	19.81
8	O/IND/R2/75*	IND75--A	639	510	0	79.81	20.19
9	O/TAI/189/87*	TAI87-AC	639	509	0	79.66	20.34
10	O1/BFS 1860/UK/67	UKG67--A	639	491	0	76.84	23.16

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PHI/3/2004
Date collected: 05/02/2004
Date received: 21/10/2004
Species: Porcine
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/11/2004
Topotype: Cathay
Genotype/strain:
Sequence filename: PHI04-03.SEQ
Date sequence last updated: 08/11/2004
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses*

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/21/2003	PHI03-21	639	630	0	98.59	1.41
2	O/PHI/23/2003	PHI03-23	639	628	0	98.28	1.72
3	O/PHI/10/2003	PHI03-10	639	622	0	97.34	2.66
4	O/PHI/18/2003	PHI03-18	620	598	1	96.45	3.55
5	O/PHI/14/2000	PHI00-14	639	610	0	95.46	4.54
6	O/PHI/5/2003	PHI03-05	639	607	0	94.99	5.01
7	O/PHI/13/2000	PHI00-13	639	605	0	94.68	5.32
8	O/PHI/1/99	PHI99-01	585	553	9	94.53	5.47
9	O/PHI/5/99	PHI99-05	542	510	7	94.1	5.9
10	O/PHI/5/2000	PHI00-05	639	600	0	93.9	6.1

* excluding those in this batch (see supplementary data)

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	549	2	86.19	13.81
3	O/ISR/2/88	ISR88-02	639	522	0	81.69	18.31
4	O/IND/53/79	IND79A53	639	521	0	81.53	18.47
5	O/TAW/2/99	TAW99-02	639	519	0	81.22	18.78
6	O1/Manisa/TUR/69	TUR69--E	639	518	0	81.06	18.94
7	O/IND/R2/75*	IND75--A	639	513	0	80.28	19.72
8	O/MOR/1/91	MOR91-01	207	166	3	80.19	19.81
9	O/TAI/189/87*	TAI87-AC	639	507	0	79.34	20.66
10	O1/BFS 1860/UK/67	UKG67--A	639	490	0	76.68	23.32

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PHI/4/2004
Date collected: 24/03/2004
Date received: 21/10/2004
Species: Porcine
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/11/2004
Topotype: Cathay
Genotype/strain:
Sequence filename: PHI04-04.SEQ
Date sequence last updated: 08/11/2004
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses*

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/21/2003	PHI03-21	639	627	0	98.12	1.88
2	O/PHI/23/2003	PHI03-23	639	625	0	97.81	2.19
3	O/PHI/18/2003	PHI03-18	620	599	1	96.61	3.39
4	O/PHI/10/2003	PHI03-10	639	617	0	96.56	3.44
5	O/PHI/14/2000	PHI00-14	639	607	0	94.99	5.01
6	O/PHI/5/2003	PHI03-05	639	604	0	94.52	5.48
7	O/PHI/1/99	PHI99-01	585	552	9	94.36	5.64
8	O/PHI/5/99	PHI99-05	542	511	7	94.28	5.72
9	O/PHI/13/2000	PHI00-13	639	602	0	94.21	5.79
10	O/PHI/5/2000	PHI00-05	639	597	0	93.43	6.57

* excluding those in this batch (see supplementary data)

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	581	0	90.92	9.08
2	O/HKN/6/83	HKN83-06	637	546	2	85.71	14.29
3	O/ISR/2/88	ISR88-02	639	517	0	80.91	19.09
4	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
5	O/IND/53/79	IND79A53	639	513	0	80.28	19.72
6	O1/Manisa/TUR/69	TUR69--E	639	512	0	80.13	19.87
7	O/IND/R2/75*	IND75--A	639	507	0	79.34	20.66
8	O/MOR/1/91	MOR91-01	207	164	3	79.23	20.77
9	O/TAI/189/87*	TAI87-AC	639	505	0	79.03	20.97
10	O1/BFS 1860/UK/67	UKG67--A	639	489	0	76.53	23.47

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PHI/5/2004
Date collected: 01/06/2004
Date received: 21/10/2004
Species: Porcine
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/11/2004
Topotype: Cathay
Genotype/strain:
Sequence filename: PHI04-05.SEQ
Date sequence last updated: 08/11/2004
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses*

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/23/2003	PHI03-23	639	627	0	98.12	1.88
2	O/PHI/21/2003	PHI03-21	639	627	0	98.12	1.88
3	O/PHI/10/2003	PHI03-10	639	619	0	96.87	3.13
4	O/PHI/18/2003	PHI03-18	620	597	1	96.29	3.71
5	O/PHI/14/2000	PHI00-14	639	607	0	94.99	5.01
6	O/PHI/5/2003	PHI03-05	639	604	0	94.52	5.48
7	O/PHI/13/2000	PHI00-13	639	602	0	94.21	5.79
8	O/PHI/1/99	PHI99-01	585	551	9	94.19	5.81
9	O/PHI/5/2000	PHI00-05	639	599	0	93.74	6.26
10	O/PHI/5/99	PHI99-05	542	508	7	93.73	6.27

* excluding those in this batch (see supplementary data)

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	579	0	90.61	9.39
2	O/HKN/6/83	HKN83-06	637	546	2	85.71	14.29
3	O/TAW/2/99	TAW99-02	639	520	0	81.38	18.62
4	O/ISR/2/88	ISR88-02	639	516	0	80.75	19.25
5	O/IND/53/79	IND79A53	639	516	0	80.75	19.25
6	O1/Manisa/TUR/69	TUR69--E	639	511	0	79.97	20.03
7	O/IND/R2/75*	IND75--A	639	508	0	79.5	20.5
8	O/TAI/189/87*	TAI87-AC	639	507	0	79.34	20.66
9	O/MOR/1/91	MOR91-01	207	164	3	79.23	20.77
10	O1/BFS 1860/UK/67	UKG67--A	639	488	0	76.37	23.63

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PHI/6/2004
Date collected: 21/06/2004
Date received: 21/10/2004
Species: Porcine
Material used: RS1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 09/11/2004
Topotype: Cathay
Genotype/strain:
Sequence filename: PHI04-06.SEQ
Date sequence last updated: 08/11/2004
Total no. of comparisons: 1530
Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses*

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/21/2003	PHI03-21	639	632	0	98.9	1.1
2	O/PHI/23/2003	PHI03-23	639	630	0	98.59	1.41
3	O/PHI/18/2003	PHI03-18	620	604	1	97.42	2.58
4	O/PHI/10/2003	PHI03-10	639	622	0	97.34	2.66
5	O/PHI/14/2000	PHI00-14	639	611	0	95.62	4.38
6	O/PHI/5/2003	PHI03-05	639	608	0	95.15	4.85
7	O/PHI/1/99	PHI99-01	585	556	9	95.04	4.96
8	O/PHI/13/2000	PHI00-13	639	606	0	94.84	5.16
9	O/PHI/5/99	PHI99-05	542	514	7	94.83	5.17
10	O/PHI/5/2000	PHI00-05	639	601	0	94.05	5.95

* excluding those in this batch (see supplementary data)

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	585	0	91.55	8.45
2	O/HKN/6/83	HKN83-06	637	548	2	86.03	13.97
3	O/TAW/2/99	TAW99-02	639	519	0	81.22	18.78
4	O/ISR/2/88	ISR88-02	639	518	0	81.06	18.94
5	O/IND/53/79	IND79A53	639	516	0	80.75	19.25
6	O1/Manisa/TUR/69	TUR69--E	639	513	0	80.28	19.72
7	O/MOR/1/91	MOR91-01	207	165	3	79.71	20.29
8	O/TAI/189/87*	TAI87-AC	639	509	0	79.66	20.34
9	O/IND/R2/75*	IND75--A	639	508	0	79.5	20.5
10	O1/BFS 1860/UK/67	UKG67--A	639	491	0	76.84	23.16

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/11/2004
WRL Ref No: PHI/7/2004	
Date collected: 29/06/2004	
Date received: 21/10/2004	Topotype: Cathay
Species: Porcine	Genotype/strain:
Material used: RS1	Sequence filename: PHI04-07.SEQ
Region sequenced: VP1	Date sequence last updated: 08/11/2004
RT-PCR primers: O-1C272F/NK61	Total no. of comparisons: 1530
No. of Nt determined: 639	Min. no. of nt for comparison: 300
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/PHI/21/2003	PHI03-21	639	628	0	98.28	1.72
2	O/PHI/23/2003	PHI03-23	639	626	0	97.97	2.03
3	O/PHI/10/2003	PHI03-10	639	619	0	96.87	3.13
4	O/PHI/18/2003	PHI03-18	620	600	1	96.77	3.23
5	O/PHI/14/2000	PHI00-14	639	605	0	94.68	5.32
6	O/PHI/13/2000	PHI00-13	639	602	0	94.21	5.79
7	O/PHI/5/2003	PHI03-05	639	602	0	94.21	5.79
8	O/PHI/1/99	PHI99-01	585	550	9	94.02	5.98
9	O/PHI/5/99	PHI99-05	542	508	7	93.73	6.27
10	O/PHI/5/2000	PHI00-05	639	597	0	93.43	6.57

* excluding those in this batch (see supplementary data)

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	579	0	90.61	9.39
2	O/HKN/6/83	HKN83-06	637	542	2	85.09	14.91
3	O/TAW/2/99	TAW99-02	639	521	0	81.53	18.47
4	O/ISR/2/88	ISR88-02	639	518	0	81.06	18.94
5	O/IND/53/79	IND79A53	639	517	0	80.91	19.09
6	O1/Manisa/TUR/69	TUR69--E	639	516	0	80.75	19.25
7	O/MOR/1/91	MOR91-01	207	167	3	80.68	19.32
8	O/TAI/189/87*	TAI87-AC	639	510	0	79.81	20.19
9	O/IND/R2/75*	IND75--A	639	509	0	79.66	20.34
10	O1/BFS 1860/UK/67	UKG67--A	639	491	0	76.84	23.16

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
 WRL Ref No: PHI/8/2004
 Date collected: 14/07/2004
 Date received: 21/10/2004
 Species: Porcine
 Material used: RS1
 Region sequenced: VP1
 RT-PCR primers: O-1C272F/NK61
 No. of Nt determined: 639
 No. of ambiguities: 0
 Gene length: 639

Report date: 09/11/2004
 Topotype: Cathay
 Genotype/strain:
 Sequence filename: PHI04-08.SEQ
 Date sequence last updated: 08/11/2004
 Total no. of comparisons: 1530
 Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses*

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/21/2003	PHI03-21	639	628	0	98.28	1.72
2	O/PHI/23/2003	PHI03-23	639	626	0	97.97	2.03
3	O/PHI/10/2003	PHI03-10	639	619	0	96.87	3.13
4	O/PHI/18/2003	PHI03-18	620	600	1	96.77	3.23
5	O/PHI/14/2000	PHI00-14	639	605	0	94.68	5.32
6	O/PHI/13/2000	PHI00-13	639	602	0	94.21	5.79
7	O/PHI/5/2003	PHI03-05	639	602	0	94.21	5.79
8	O/PHI/1/99	PHI99-01	585	550	9	94.02	5.98
9	O/PHI/5/99	PHI99-05	542	508	7	93.73	6.27
10	O/PHI/5/2000	PHI00-05	639	597	0	93.43	6.57

* excluding those in this batch (see supplementary data)

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	579	0	90.61	9.39
2	O/HKN/6/83	HKN83-06	637	542	2	85.09	14.91
3	O/TAW/2/99	TAW99-02	639	521	0	81.53	18.47
4	O/MOR/1/91	MOR91-01	207	168	3	81.16	18.84
5	O/ISR/2/88	ISR88-02	639	518	0	81.06	18.94
6	O/IND/53/79	IND79A53	639	517	0	80.91	19.09
7	O1/Manisa/TUR/69	TUR69--E	639	516	0	80.75	19.25
8	O/TAI/189/87*	TAI87-AC	639	510	0	79.81	20.19
9	O/IND/R2/75*	IND75--A	639	509	0	79.66	20.34
10	O1/BFS 1860/UK/67	UKG67--A	639	489	0	76.53	23.47

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/11/2004
WRL Ref No: PHI/9/2004	
Date collected: 21/07/2004	
Date received: 21/10/2004	
Species: Porcine	Topotype: Cathay
Material used: RS1	Genotype/strain:
Region sequenced: VP1	Sequence filename: PHI04-09.SEQ
RT-PCR primers: O-1C272F/NK61	Date sequence last updated: 08/11/2004
No. of Nt determined: 639	Total no. of comparisons: 1530
No. of ambiguities: 0	Min. no. of nt for comparison: 300
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/PHI/21/2003	PHI03-21	639	627	0	98.12	1.88
2	O/PHI/23/2003	PHI03-23	639	625	0	97.81	2.19
3	O/PHI/10/2003	PHI03-10	639	620	0	97.03	2.97
4	O/PHI/18/2003	PHI03-18	620	599	1	96.61	3.39
5	O/PHI/14/2000	PHI00-14	639	606	0	94.84	5.16
6	O/PHI/5/2003	PHI03-05	639	603	0	94.37	5.63
7	O/PHI/13/2000	PHI00-13	639	601	0	94.05	5.95
8	O/PHI/1/99	PHI99-01	585	549	9	93.85	6.15
9	O/PHI/5/99	PHI99-05	542	507	7	93.54	6.46
10	O/PHI/5/2000	PHI00-05	639	596	0	93.27	6.73

* excluding those in this batch (see supplementary data)

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	578	0	90.45	9.55
2	O/HKN/6/83	HKN83-06	637	543	2	85.24	14.76
3	O/TAW/2/99	TAW99-02	639	520	0	81.38	18.62
4	O/ISR/2/88	ISR88-02	639	519	0	81.22	18.78
5	O/MOR/1/91	MOR91-01	207	168	3	81.16	18.84
6	O/IND/53/79	IND79A53	639	518	0	81.06	18.94
7	O1/Manisa/TUR/69	TUR69--E	639	515	0	80.59	19.41
8	O/IND/R2/75*	IND75--A	639	510	0	79.81	20.19
9	O/TAI/189/87*	TAI87-AC	639	509	0	79.66	20.34
10	O1/BFS 1860/UK/67	UKG67--A	639	488	0	76.37	23.63

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/11/2004
WRL Ref No: PHI/10/2004	
Date collected: 04/08/2004	
Date received: 21/10/2004	
Species: Porcine	Topotype: Cathay
Material used: RS1	Genotype/strain:
Region sequenced: VP1	Sequence filename: PHI04-10.SEQ
RT-PCR primers: O-1C272F/NK61	Date sequence last updated: 08/11/2004
No. of Nt determined: 639	Total no. of comparisons: 1530
No. of ambiguities: 0	Min. no. of nt for comparison: 300
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/PHI/21/2003	PHI03-21	639	629	0	98.44	1.56
2	O/PHI/23/2003	PHI03-23	639	629	0	98.44	1.56
3	O/PHI/10/2003	PHI03-10	639	621	0	97.18	2.82
4	O/PHI/18/2003	PHI03-18	620	595	1	95.97	4.03
5	O/PHI/14/2000	PHI00-14	639	610	0	95.46	4.54
6	O/PHI/5/2003	PHI03-05	639	607	0	94.99	5.01
7	O/PHI/13/2000	PHI00-13	639	605	0	94.68	5.32
8	O/PHI/1/99	PHI99-01	585	551	9	94.19	5.81
9	O/PHI/5/2000	PHI00-05	639	600	0	93.9	6.1
10	O/PHI/5/99	PHI99-05	542	508	7	93.73	6.27

* excluding those in this batch (see supplementary data)

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	578	0	90.45	9.55
2	O/HKN/6/83	HKN83-06	637	545	2	85.56	14.44
3	O/IND/53/79	IND79A53	639	516	0	80.75	19.25
4	O/ISR/2/88	ISR88-02	639	516	0	80.75	19.25
5	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
6	O/MOR/1/91	MOR91-01	207	166	3	80.19	19.81
7	O1/Manisa/TUR/69	TUR69--E	639	509	0	79.66	20.34
8	O/TAI/189/87*	TAI87-AC	639	509	0	79.66	20.34
9	O/IND/R2/75*	IND75--A	639	508	0	79.5	20.5
10	O1/BFS 1860/UK/67	UKG67--A	639	488	0	76.37	23.63

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 09/11/2004
WRL Ref No: PHI/11/2004	
Date collected: 03/09/2004	
Date received: 21/10/2004	Topotype: Cathay
Species: Porcine	Genotype/strain:
Material used: RS1	Sequence filename: PHI04-11.SEQ
Region sequenced: VP1	Date sequence last updated: 08/11/2004
RT-PCR primers: O-1C272F/NK61	Total no. of comparisons: 1530
No. of Nt determined: 639	Min. no. of nt for comparison: 300
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/PHI/21/2003	PHI03-21	639	629	0	98.44	1.56
2	O/PHI/23/2003	PHI03-23	639	627	0	98.12	1.88
3	O/PHI/10/2003	PHI03-10	639	620	0	97.03	2.97
4	O/PHI/18/2003	PHI03-18	620	601	1	96.94	3.06
5	O/PHI/14/2000	PHI00-14	639	606	0	94.84	5.16
6	O/PHI/13/2000	PHI00-13	639	603	0	94.37	5.63
7	O/PHI/5/2003	PHI03-05	639	603	0	94.37	5.63
8	O/PHI/1/99	PHI99-01	585	551	9	94.19	5.81
9	O/PHI/5/99	PHI99-05	542	509	7	93.91	6.09
10	O/PHI/5/2000	PHI00-05	639	598	0	93.58	6.42

* excluding those in this batch (see supplementary data)

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	580	0	90.77	9.23
2	O/HKN/6/83	HKN83-06	637	543	2	85.24	14.76
3	O/TAW/2/99	TAW99-02	639	520	0	81.38	18.62
4	O/IND/53/79	IND79A53	639	518	0	81.06	18.94
5	O1/Manisa/TUR/69	TUR69--E	639	517	0	80.91	19.09
6	O/ISR/2/88	ISR88-02	639	517	0	80.91	19.09
7	O/MOR/1/91	MOR91-01	207	166	3	80.19	19.81
8	O/IND/R2/75*	IND75--A	639	510	0	79.81	20.19
9	O/TAI/189/87*	TAI87-AC	639	509	0	79.66	20.34
10	O1/BFS 1860/UK/67	UKG67--A	639	491	0	76.84	23.16

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
 WRL Ref No: PHI/12/2004
 Date collected: 29/09/2004
 Date received: 21/10/2004
 Species: Porcine
 Material used: RS1
 Region sequenced: VP1
 RT-PCR primers: O-1C272F/NK61
 No. of Nt determined: 639
 No. of ambiguities: 0
 Gene length: 639

Report date: 09/11/2004
 Topotype: Cathay
 Genotype/strain:
 Sequence filename: PHI04-12.SEQ
 Date sequence last updated: 08/11/2004
 Total no. of comparisons: 1530
 Min. no. of nt for comparison: 300

Comments:

Ten Most Closely Related Viruses*

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/21/2003	PHI03-21	639	628	0	98.28	1.72
2	O/PHI/23/2003	PHI03-23	639	626	0	97.97	2.03
3	O/PHI/10/2003	PHI03-10	639	619	0	96.87	3.13
4	O/PHI/18/2003	PHI03-18	620	600	1	96.77	3.23
5	O/PHI/14/2000	PHI00-14	639	605	0	94.68	5.32
6	O/PHI/13/2000	PHI00-13	639	602	0	94.21	5.79
7	O/PHI/5/2003	PHI03-05	639	602	0	94.21	5.79
8	O/PHI/1/99	PHI99-01	585	550	9	94.02	5.98
9	O/PHI/5/99	PHI99-05	542	508	7	93.73	6.27
10	O/PHI/5/2000	PHI00-05	639	597	0	93.43	6.57

* excluding those in this batch (see supplementary data)

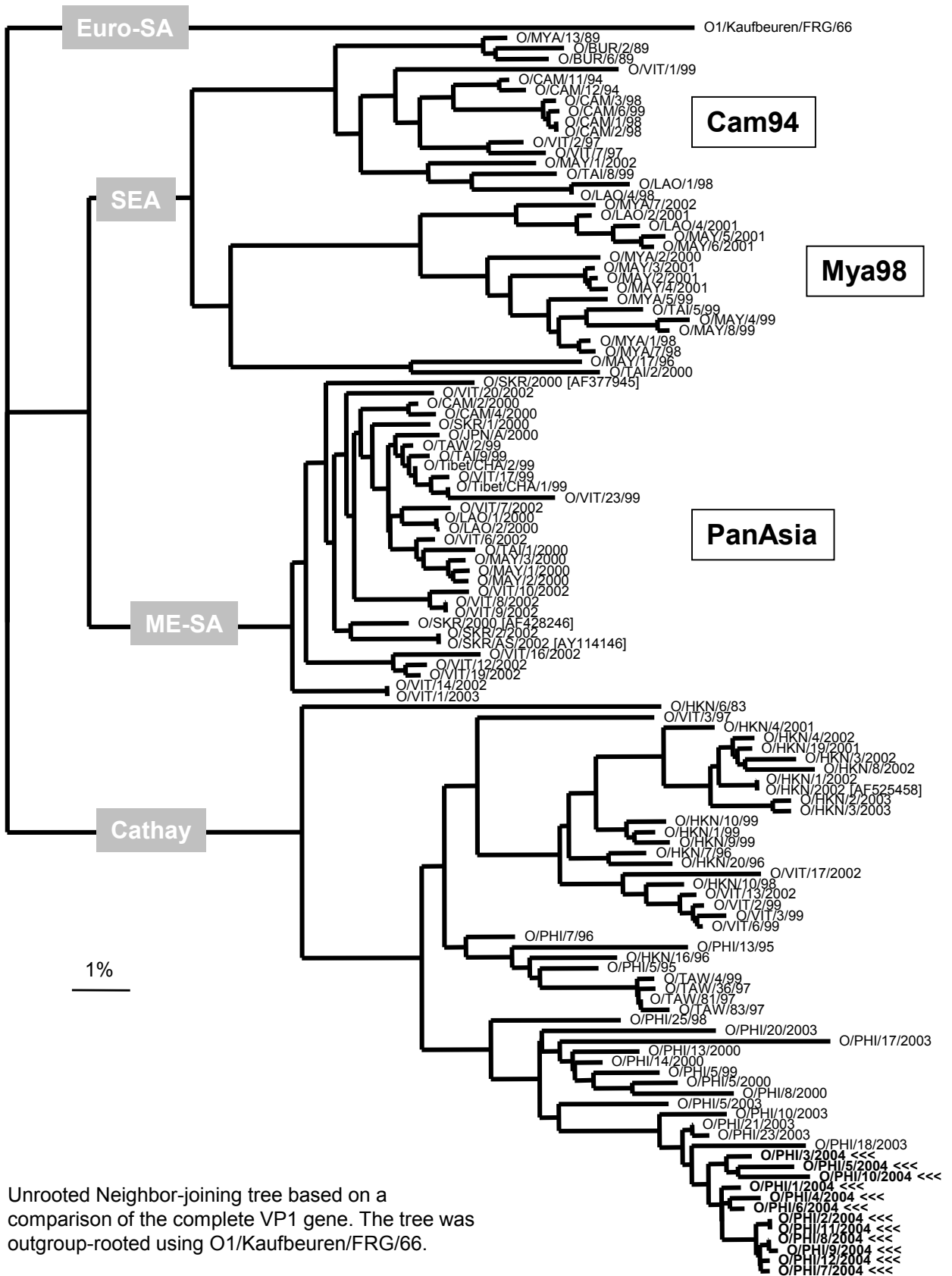
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/95	PHI95-05	639	579	0	90.61	9.39
2	O/HKN/6/83	HKN83-06	637	544	2	85.4	14.6
3	O/TAW/2/99	TAW99-02	639	521	0	81.53	18.47
4	O/ISR/2/88	ISR88-02	639	518	0	81.06	18.94
5	O/IND/53/79	IND79A53	639	517	0	80.91	19.09
6	O1/Manisa/TUR/69	TUR69--E	639	516	0	80.75	19.25
7	O/MOR/1/91	MOR91-01	207	167	3	80.68	19.32
8	O/IND/R2/75*	IND75--A	639	509	0	79.66	20.34
9	O/TAI/189/87*	TAI87-AC	639	508	0	79.5	20.5
10	O1/BFS 1860/UK/67	UKG67--A	639	489	0	76.53	23.47

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV-O Philippines 2004



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