

Report from the Molecular Epidemiology Section of the Experimental Epidemiology Group to the Head of the World Reference Laboratory for FMD (Non-QAU Form)

Serotype: O	Date: 17/06/2003
Virus isolate: PHI/5/2003	Reported by: N.J. Knowles
Material used: 10% epithelium susp.	Signed (file copy only):
Region sequenced: VP1	Seq. filename: PHI03-05
RT-PCR primer set: O-1C272F/NK61	
Topotype: Cathay	No. of ambiguities: 0
Genotype/strain:	Date seq. last updated: 17/06/2003
No. of nt determined / no. in gene: 439 / 639	Total no. of comparisons made: 1282

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/14/2000	PHI00-14	439	431	0	98.18	1.82
2	O/PHI/5/99	PHI99-05	436	426	3	97.71	2.29
3	O/PHI/1/99	PHI99-01	389	380	5	97.69	2.31
4	O/PHI/13/2000	PHI00-13	439	426	0	97.04	2.96
5	O/HKN/11/91	HKN91-11	126	122	0	96.83	3.17
6	O/PHI/20/2003	PHI03-20	439	425	0	96.81	3.19
7	O/PHI/5/2000	PHI00-05	439	423	0	96.36	3.64
8	O/PHI/25/98	PHI98-25	385	370	3	96.10	3.90
9	O/HKN/2/91	HKN91-02	145	139	3	95.86	4.14
10	O/PHI/19/98	PHI98-19	409	391	3	95.60	4.40

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	435	403	4	92.64	7.36
2	O/HKN/6/83	HKN83-06	437	382	2	87.41	12.59
3	O/TAW/2/99	TAW99-02	439	352	0	80.18	19.82
4	O/IND/53/79	IND79A53	439	351	0	79.95	20.05
5	O/ISR/1/88	ISR88-01	193	154	5	79.79	20.21
6	O/MOR/1/91	MOR91-01	207	164	3	79.23	20.77
7	O1/Manisa/TUR/69	TUR69--E	439	344	0	78.36	21.64
8	O/TAI/189/87*	TAI87--B	431	335	3	77.73	22.27
9	O/IND/R2/75*	IND75--A	439	341	0	77.68	22.32
10	O1/BFS 1860/UK/67	UKG67--A	439	331	0	75.40	24.60

nt, nucleotides

*, not a WRLFMD reference number

cc. Head of Experimental Epidemiology Group

cc. Head of Vesicular Diseases Group

Report from the Molecular Epidemiology Section of the Experimental Epidemiology Group to the Head of the World Reference Laboratory for FMD (Non-QAU Form)

Serotype: O	Date: 17/06/2003
Virus isolate: PHI/18/2003	Reported by: N.J. Knowles
Material used: 10% epithelium susp.	Signed (file copy only):
Region sequenced: VP1	Seq. filename: PHI03-18
RT-PCR primer set: O-1C272F/NK61	
Topotype: Cathay	No. of ambiguities: 0
Genotype/strain:	Date seq. last updated: 17/06/2003
No. of nt determined / no. in gene: 621 / 639	Total no. of comparisons made: 1282

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	621	605	0	97.42	2.58
2	O/PHI/23/2003	PHI03-23	621	603	0	97.10	2.90
3	O/PHI/5/2003	PHI03-05	439	415	0	94.53	5.47
4	O/PHI/14/2000	PHI00-14	621	587	0	94.52	5.48
5	O/PHI/20/2003	PHI03-20	621	584	0	94.04	5.96
6	O/PHI/16/98	PHI98-16	266	250	3	93.98	6.02
7	O/PHI/13/2000	PHI00-13	621	582	0	93.72	6.28
8	O/PHI/5/2000	PHI00-05	621	582	0	93.72	6.28
9	O/PHI/1/99	PHI99-01	567	531	9	93.65	6.35
10	O/PHI/5/99	PHI99-05	542	507	7	93.54	6.46

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	516	468	6	90.70	9.30
2	O/HKN/6/83	HKN83-06	619	530	2	85.62	14.38
3	O/ISR/1/88	ISR88-01	193	160	5	82.90	17.10
4	O/MOR/1/91	MOR91-01	207	168	3	81.16	18.84
5	O/TAW/2/99	TAW99-02	621	504	0	81.16	18.84
6	O/IND/53/79	IND79A53	621	499	0	80.35	19.65
7	O1/Manisa/TUR/69	TUR69--E	621	494	0	79.55	20.45
8	O/IND/R2/75*	IND75--A	621	489	0	78.74	21.26
9	O/TAI/189/87*	TAI87--B	527	411	3	77.99	22.01
10	O1/BFS 1860/UK/67	UKG67--A	621	476	0	76.65	23.35

nt, nucleotides

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cc. Head of Experimental Epidemiology Group
cc. Head of Vesicular Diseases Group

Report from the Molecular Epidemiology Section of the Experimental Epidemiology Group to the Head of the World Reference Laboratory for FMD (Non-QAU Form)

Serotype: O	Date: 17/06/2003
Virus isolate: PHI/20/2003	Reported by: N.J. Knowles
Material used: 10% epithelium susp.	Signed (file copy only):
Region sequenced: VP1	Seq. filename: PHI03-20
RT-PCR primer set: O-1C272F/NK61	
Topotype: Cathay	No. of ambiguities: 0
Genotype/strain:	Date seq. last updated: 17/06/2003
No. of nt determined / no. in gene: 639 / 639	Total no. of comparisons made: 1282

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PHI/5/2003	PHI03-05	439	425	0	96.81	3.19
2	O/PHI/5/99	PHI99-05	542	519	7	95.76	4.24
3	O/PHI/14/2000	PHI00-14	639	610	0	95.46	4.54
4	O/PHI/5/2000	PHI00-05	639	609	0	95.31	4.69
5	O/PHI/1/99	PHI99-01	585	557	9	95.21	4.79
6	O/PHI/13/2000	PHI00-13	639	607	0	94.99	5.01
7	O/HKN/11/91	HKN91-11	126	119	0	94.44	5.56
8	O/PHI/18/2003	PHI03-18	621	584	0	94.04	5.96
9	O/PHI/16/98	PHI98-16	266	250	3	93.98	6.02
10	O/PHI/8/2000	PHI00-08	637	598	2	93.88	6.12

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	516	469	6	90.89	9.11
2	O/HKN/6/83	HKN83-06	637	551	2	86.50	13.50
3	O/ISR/1/88	ISR88-01	193	158	5	81.87	18.13
4	O/MOR/1/91	MOR91-01	207	168	3	81.16	18.84
5	O/IND/53/79	IND79A53	639	516	0	80.75	19.25
6	O/TAW/2/99	TAW99-02	639	512	0	80.13	19.87
7	O1/Manisa/TUR/69	TUR69--E	639	505	0	79.03	20.97
8	O/IND/R2/75*	IND75--A	639	502	0	78.56	21.44
9	O/TAI/189/87*	TAI87--B	527	413	3	78.37	21.63
10	O1/BFS 1860/UK/67	UKG67--A	639	488	0	76.37	23.63

nt, nucleotides

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cc. Head of Vesicular Diseases Group

Report from the Molecular Epidemiology Section of the Experimental Epidemiology Group to the Head of the World Reference Laboratory for FMD (Non-QAU Form)

Serotype: O	Date: 17/06/2003
Virus isolate: PHI/21/2003	Reported by: N.J. Knowles
Material used: 10% epithelium susp.	Signed (file copy only):
Region sequenced: VP1	Seq. filename: PHI03-21
RT-PCR primer set: O-1C272F/NK61	
Topotype: Cathay	No. of ambiguities: 0
Genotype/strain:	Date seq. last updated: 17/06/2003
No. of nt determined / no. in gene: 639 / 639	Total no. of comparisons made: 1282

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	637	0	99.69	0.31
2	O/PHI/18/2003	PHI03-18	621	605	0	97.42	2.58
3	O/PHI/14/2000	PHI00-14	639	616	0	96.40	3.60
4	O/PHI/13/2000	PHI00-13	639	613	0	95.93	4.07
5	O/PHI/5/2003	PHI03-05	439	419	0	95.44	4.56
6	O/PHI/1/99	PHI99-01	585	558	9	95.38	4.62
7	O/PHI/5/99	PHI99-05	542	515	7	95.02	4.98
8	O/PHI/5/2000	PHI00-05	639	606	0	94.84	5.16
9	O/PHI/16/98	PHI98-16	266	251	3	94.36	5.64
10	O/PHI/19/98	PHI98-19	607	572	5	94.23	5.77

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	516	471	6	91.28	8.72
2	O/HKN/6/83	HKN83-06	637	551	2	86.50	13.50
3	O/ISR/1/88	ISR88-01	193	159	5	82.38	17.62
4	O/TAW/2/99	TAW99-02	639	524	0	82.00	18.00
5	O/IND/53/79	IND79A53	639	519	0	81.22	18.78
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	511	0	79.97	20.03
9	O/TAI/189/87*	TAI87--B	527	415	3	78.75	21.25
10	O1/BFS 1860/UK/67	UKG67--A	639	490	0	76.68	23.32

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: O	Date: 17/06/2003
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Material used: 10% epithelium susp.	Signed (file copy only):
Region sequenced: VP1	Seq. filename: PHI03-23
RT-PCR primer set: O-1C272F/NK61	
Topotype: Cathay	No. of ambiguities: 0
Genotype/strain:	Date seq. last updated: 17/06/2003
No. of nt determined / no. in gene: 639 / 639	Total no. of comparisons made: 1282

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	637	0	99.69	0.31
2	O/PHI/18/2003	PHI03-18	621	603	0	97.10	2.90
3	O/PHI/14/2000	PHI00-14	639	614	0	96.09	3.91
4	O/PHI/13/2000	PHI00-13	639	611	0	95.62	4.38
5	O/PHI/1/99	PHI99-01	585	556	9	95.04	4.96
6	O/PHI/5/2003	PHI03-05	439	417	0	94.99	5.01
7	O/PHI/5/99	PHI99-05	542	513	7	94.65	5.35
8	O/PHI/5/2000	PHI00-05	639	604	0	94.52	5.48
9	O/PHI/19/98	PHI98-19	607	570	5	93.90	6.10
10	O/PHI/25/98	PHI98-25	581	544	7	93.63	6.37

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	516	469	6	90.89	9.11
2	O/HKN/6/83	HKN83-06	637	549	2	86.19	13.81
3	O/ISR/1/88	ISR88-01	193	158	5	81.87	18.13
4	O/TAW/2/99	TAW99-02	639	522	0	81.69	18.31
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--B	527	417	3	79.13	20.87
10	O1/BFS 1860/UK/67	UKG67--A	639	489	0	76.53	23.47

nt, nucleotides

*, not a WRLFMD reference number

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