

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: 08/06/2003
Virus isolate: HKN/19/2001	Reported by: N.J. Knowles
Material used: RS1	Signed (file copy only):
Region sequenced: VP1	Seq. filename: HKN01-19
RT-PCR primer set: O-1C272F/NK61	
Topotype: Cathay	No. of ambiguities: 2
Genotype/strain: Hkn94	Date seq. last updated: 04/04/2003
No. of nt determined / no. in gene: 637 / 639	Total no. of comparisons made: 1304

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/2002* [AF525458]	HKN02-AA	637	632	2	99.22	0.78
2	O/HKN/1/2002	HKN02-01	636	631	3	99.21	0.79
3	O/HKN/9/2002	HKN02-09	318	314	2	98.74	1.26
4	O/HKN/3/2002	HKN02-03	635	627	4	98.74	1.26
5	O/HKN/4/2001	HKN01-04	636	624	3	98.11	1.89
6	O/HKN/4/99	HKN99-04	476	462	10	97.06	2.94
7	O/HKN/9/99	HKN99-09	623	603	16	96.79	3.21
8	O/HKN/1/99	HKN99-01	634	613	5	96.69	3.31
9	O/HKN/22/99	HKN99-22	496	479	8	96.57	3.43
10	O/HKN/7/98	HKN98-07	576	556	13	96.53	3.47

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	477	6	92.44	7.56
2	O/HKN/6/83	HKN83-06	635	552	4	86.93	13.07
3	O/ISR/1/88	ISR88-01	193	159	5	82.38	17.62
4	O/MOR/1/91	MOR91-01	207	170	3	82.13	17.87
5	O/IND/53/79	IND79A53	637	518	2	81.32	18.68
6	O/TAW/2/99	TAW99-02	637	516	2	81.00	19.00
7	O1/Manisa/TUR/69	TUR69--E	637	511	2	80.22	19.78
8	O/TAI/189/87*	TAI87--B	527	415	3	78.75	21.25
9	O/IND/R2/75*	IND75--A	637	501	2	78.65	21.35
10	O1/BFS 1860/UK/67	UKG67--A	637	491	2	77.08	22.92

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: 08/06/2003
Virus isolate: HKN/1/2002	Reported by: N.J. Knowles
Material used: 10% epithelium susp.	Signed (file copy only):
Region sequenced: VP1	Seq. filename: HKN02-01
RT-PCR primer set: ARS4/NK61	
Topotype: Cathay	No. of ambiguities: 1
Genotype/strain: Hkn94	Date seq. last updated: 28/12/2002
No. of nt determined / no. in gene: 638 / 639	Total no. of comparisons made: 1304

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/2002* [AF525458]	HKN02-AA	638	638	1	100.00	0.00
2	O/HKN/19/2001	HKN01-19	636	631	3	99.21	0.79
3	O/HKN/9/2002	HKN02-09	318	314	2	98.74	1.26
4	O/HKN/3/2002	HKN02-03	636	625	3	98.27	1.73
5	O/HKN/4/2001	HKN01-04	637	622	2	97.65	2.35
6	O/HKN/4/99	HKN99-04	476	459	10	96.43	3.57
7	O/HKN/9/99	HKN99-09	623	600	16	96.31	3.69
8	O/HKN/1/99	HKN99-01	635	611	4	96.22	3.78
9	O/HKN/11/91	HKN91-11	126	121	0	96.03	3.97
10	O/HKN/22/99	HKN99-22	496	476	8	95.97	4.03

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	476	6	92.25	7.75
2	O/HKN/6/83	HKN83-06	636	553	3	86.95	13.05
3	O/ISR/1/88	ISR88-01	193	160	5	82.90	17.10
4	O/MOR/1/91	MOR91-01	207	171	3	82.61	17.39
5	O/IND/53/79	IND79A53	638	518	1	81.19	18.81
6	O/TAW/2/99	TAW99-02	638	514	1	80.56	19.44
7	O1/Manisa/TUR/69	TUR69--E	638	513	1	80.41	19.59
8	O/IND/R2/75*	IND75--A	638	499	1	78.21	21.79
9	O/TAI/189/87*	TAI87--B	526	411	4	78.14	21.86
10	O1/BFS 1860/UK/67	UKG67--A	638	491	1	76.96	23.04

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: 08/06/2003
Virus isolate: HKN/3/2002	Reported by: N.J. Knowles
Material used: RS1	Signed (file copy only):
Region sequenced: VP1	Seq. filename: HKN02-03
RT-PCR primer set: ARS4/NK61	
Topotype: Cathay	No. of ambiguities: 2
Genotype/strain: Hkn94	Date seq. last updated: 28/12/2002
No. of nt determined / no. in gene: 637 / 639	Total no. of comparisons made: 1304

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/HKN/19/2001	HKN01-19	635	627	4	98.74	1.26
2	O/HKN/9/2002	HKN02-09	316	312	4	98.73	1.27
3	O/HKN/2002* [AF525458]	HKN02-AA	637	626	2	98.27	1.73
4	O/HKN/1/2002	HKN02-01	636	625	3	98.27	1.73
5	O/HKN/4/2001	HKN01-04	636	618	3	97.17	2.83
6	O/HKN/4/99	HKN99-04	474	455	12	95.99	4.01
7	O/HKN/11/91	HKN91-11	124	119	2	95.97	4.03
8	O/HKN/9/99	HKN99-09	622	596	17	95.82	4.18
9	O/HKN/6/95	HKN95-06	212	203	1	95.75	4.25
10	O/HKN/1/99	HKN99-01	634	607	5	95.74	4.26

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	514	470	8	91.44	8.56
2	O/HKN/6/83	HKN83-06	635	546	4	85.98	14.02
3	O/ISR/1/88	ISR88-01	191	156	7	81.68	18.32
4	O/MOR/1/91	MOR91-01	206	168	4	81.55	18.45
5	O/IND/53/79	IND79A53	637	513	2	80.53	19.47
6	O/TAW/2/99	TAW99-02	637	513	2	80.53	19.47
7	O1/Manisa/TUR/69	TUR69--E	637	506	2	79.43	20.57
8	O/TAI/189/87*	TAI87--B	525	408	5	77.71	22.29
9	O/IND/R2/75*	IND75--A	637	494	2	77.55	22.45
10	O1/BFS 1860/UK/67	UKG67--A	637	488	2	76.61	23.39

nt, nucleotides

*, not a WRLFMD reference number

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