

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: O	Report date:	11/03/2004					
WRL Ref No: TAI/2/2003	Reported by N.J. Knowles:						
Date collected: 10/03/2003	Validated by J.-F. Valarcher:						
Date received: 04/12/2003	Topotype: ME-SA						
Species: Cattle	Genotype/strain: PanAsia						
Material used: BTy1	Sequence filename: TAI03-02.SEQ						
Region sequenced: VP1	Date sequence last updated: 26/02/2004						
RT-PCR primers: O-1C244F/NK61	Total no. of comparisons: 1368						
No. of Nt determined: 636							
No. of ambiguities: 3							
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/IND/209/99* (1998)	IND98-AU	162	159	3	98.15	1.85
2	O/IND/61/97* (1996)	IND96-AB	162	159	3	98.15	1.85
3	O/IND/289/97	IND97-AW	162	159	3	98.15	1.85
4	O/BAR/1/99	BAR99-01	321	314	2	97.82	2.18
5	O/UAE/2/99	UAE99-02	224	219	7	97.77	2.23
6	O/VIT/1/2002	VIT02-01	205	200	0	97.56	2.44
7	O/IND/54/98*	IND98-AA	162	158	3	97.53	2.47
8	O/IND/48/98* (1997)	IND97-BC	162	158	3	97.53	2.47
9	O/IND/81/98	IND98-AH	162	158	3	97.53	2.47
10	O/IND/57/98	IND98-AD	162	158	3	97.53	2.47
<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	636	616	3	96.86	3.14
2	O/IND/53/79	IND79A53	636	574	3	90.25	9.75
3	O/IND/R2/75*	IND75--A	636	565	3	88.84	11.16
4	O1/Manisa/TUR/69	TUR69--E	636	565	3	88.84	11.16
5	O/TAI/189/87*	TAI87--B	526	461	4	87.64	12.36
6	O/ISR/1/88	ISR88-01	190	164	8	86.32	13.68
7	O/MOR/1/91	MOR91-01	204	176	6	86.27	13.73
8	O/PHI/5/95	PHI95-05	513	421	9	82.07	17.93
9	O1/BFS 1860/UK/67	UKG67--A	636	518	3	81.45	18.55
10	O/HKN/6/83	HKN83-06	634	515	5	81.23	18.77
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: O	Report date: 11/03/2004						
WRL Ref No: TAI/3/2003	Reported by N.J. Knowles:						
Date collected: 19/05/2003	Validated by J.-F. Valarcher:						
Date received: 04/12/2003	Topotype: SEA						
Species: Porcine	Genotype/strain: Mya98						
Material used: LK2 BHK3 RS1	Sequence filename: TAI03-03.SEQ						
Region sequenced: VP1	Date sequence last updated: 17/02/2004						
RT-PCR primers: O-1C244F/NK61	Total no. of comparisons: 1368						
No. of Nt determined: 639							
No. of ambiguities: 0							
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/59/02B5/2002*	TAI02-AC	171	171	0	100.00	0.00
2	O/TAI/56-4/02B5/2002*	TAI02-AD	171	170	0	99.42	0.58
3	O/LAO/7/2003	LAO03-07	594	576	2	96.97	3.03
4	O/LAO/4/2001	LAO01-04	639	618	0	96.71	3.29
5	O/LAO/2/2001	LAO01-02	630	609	9	96.67	3.33
6	O/MYA/7/2002	MYA02-07	639	617	0	96.56	3.44
7	O/MAY/5/2001	MAY01-05	639	616	0	96.40	3.60
8	O/MAY/6/2001	MAY01-06	639	616	0	96.40	3.60
9	O/LAO/1/2003	LAO03-01	528	505	12	95.64	4.36
10	O/LAO/35/2003	LAO03-35	602	574	1	95.35	4.65
<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*	TAI87--B	527	478	3	90.70	9.30
2	O/IND/R2/75*	IND75--A	639	552	0	86.38	13.62
3	O/TAW/2/99	TAW99-02	639	549	0	85.92	14.08
4	O/IND/53/79	IND79A53	639	543	0	84.98	15.02
5	O1/Manisa/TUR/69	TUR69--E	639	541	0	84.66	15.34
6	O1/BFS 1860/UK/67	UKG67--A	639	513	0	80.28	19.72
7	O/HKN/6/83	HKN83-06	637	500	2	78.49	21.51
8	O/PHI/5/95	PHI95-05	516	405	6	78.49	21.51
9	O/MOR/1/91	MOR91-01	207	162	3	78.26	21.74
10	O/ISR/1/88	ISR88-01	193	150	5	77.72	22.28
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: O	Report date: 11/03/2004						
WRL Ref No: TAI/6/2003	Reported by N.J. Knowles:						
Date collected: 11/08/2003	Validated by J.-F. Valarcher:						
Date received: 04/12/2003	Topotype: SEA						
Species: Cattle	Genotype/strain: Mya98						
Material used: BTy1	Sequence filename: TAI03-06.SEQ						
Region sequenced: VP1	Date sequence last updated: 26/02/2004						
RT-PCR primers: O-1C244F/NK61	Total no. of comparisons: 1368						
No. of Nt determined: 594							
No. of ambiguities: 0							
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/MYA/1/98	MYA98-01	587	562	7	95.74	4.26
2	O/MYA/4/98	MYA98-04	351	336	8	95.73	4.27
3	O/MYA/7/98	MYA98-07	594	568	0	95.62	4.38
4	O/MAY/8/99	MAY99-08	403	382	5	94.79	5.21
5	O/MYA/5/99	MYA99-05	588	557	6	94.73	5.27
6	O/MAY/3/2001	MAY01-03	594	562	0	94.61	5.39
7	O/MYA/2/2000	MYA00-02	594	562	0	94.61	5.39
8	O/MAY/4/2001	MAY01-04	592	560	2	94.59	5.41
9	O/MAY/2/2001	MAY01-02	592	560	2	94.59	5.41
10	O/MYA/6/98	MYA98-06	200	189	10	94.50	5.50
<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*	TAI87--B	527	478	3	90.70	9.30
2	O/TAW/2/99	TAW99-02	594	515	0	86.70	13.30
3	O/IND/53/79	IND79A53	594	510	0	85.86	14.14
4	O/IND/R2/75*	IND75--A	594	509	0	85.69	14.31
5	O1/Manisa/TUR/69	TUR69--E	594	502	0	84.51	15.49
6	O1/BFS 1860/UK/67	UKG67--A	594	477	0	80.30	19.70
7	O/MOR/1/91	MOR91-01	207	163	3	78.74	21.26
8	O/HKN/6/83	HKN83-06	592	464	2	78.38	21.62
9	O/PHI/5/95	PHI95-05	516	402	6	77.91	22.09
10	O/ISR/1/88	ISR88-01	193	150	5	77.72	22.28
nt, nucleotides							
*, not a WRLFMD reference number							

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to  
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: O	Report date: 17/03/2004
Strain name: O/TAI/189/87	Reported by N.J. Knowles:
(seed virus for vaccine production)	Validated by J.-F. Valarcher:
Date collected: 1987	Topotype: SEA
Date received: 04/12/2003	Genotype/strain: not designated
Species: Cattle	Sequence filename: TAI87-AD.SEQ
Material used: Pass 4	Date sequence last updated: 20/01/2004
Region sequenced: VP1	Total no. of comparisons: 1375
RT-PCR primers: O-1C272F/NK61	
No. of Nt determined: 629	
No. of ambiguities: 7	
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/LAO/1/87	LAO87-01	202	195	1	96.53	3.47
2	O/TAI/3/92	TAI92-03	530	509	7	96.04	3.96
3	O/LAO/1/88	LAO88-01	240	228	5	95.00	5.00
4	O/TAI/1/92	TAI92-01	281	262	7	93.24	6.76
5	O/MYA/1/96	MYA96-01	264	246	3	93.18	6.82
6	O/MYA/1/98	MYA98-01	620	576	16	92.90	7.10
7	O/MYA/4/98	MYA98-04	348	323	11	92.82	7.18
8	O/VIT/1/2002	VIT02-01	205	190	0	92.68	7.32
9	O/MAY/5/92	MAY92-05	259	240	7	92.66	7.34
10	O/MYA/7/98	MYA98-07	629	582	7	92.53	7.47

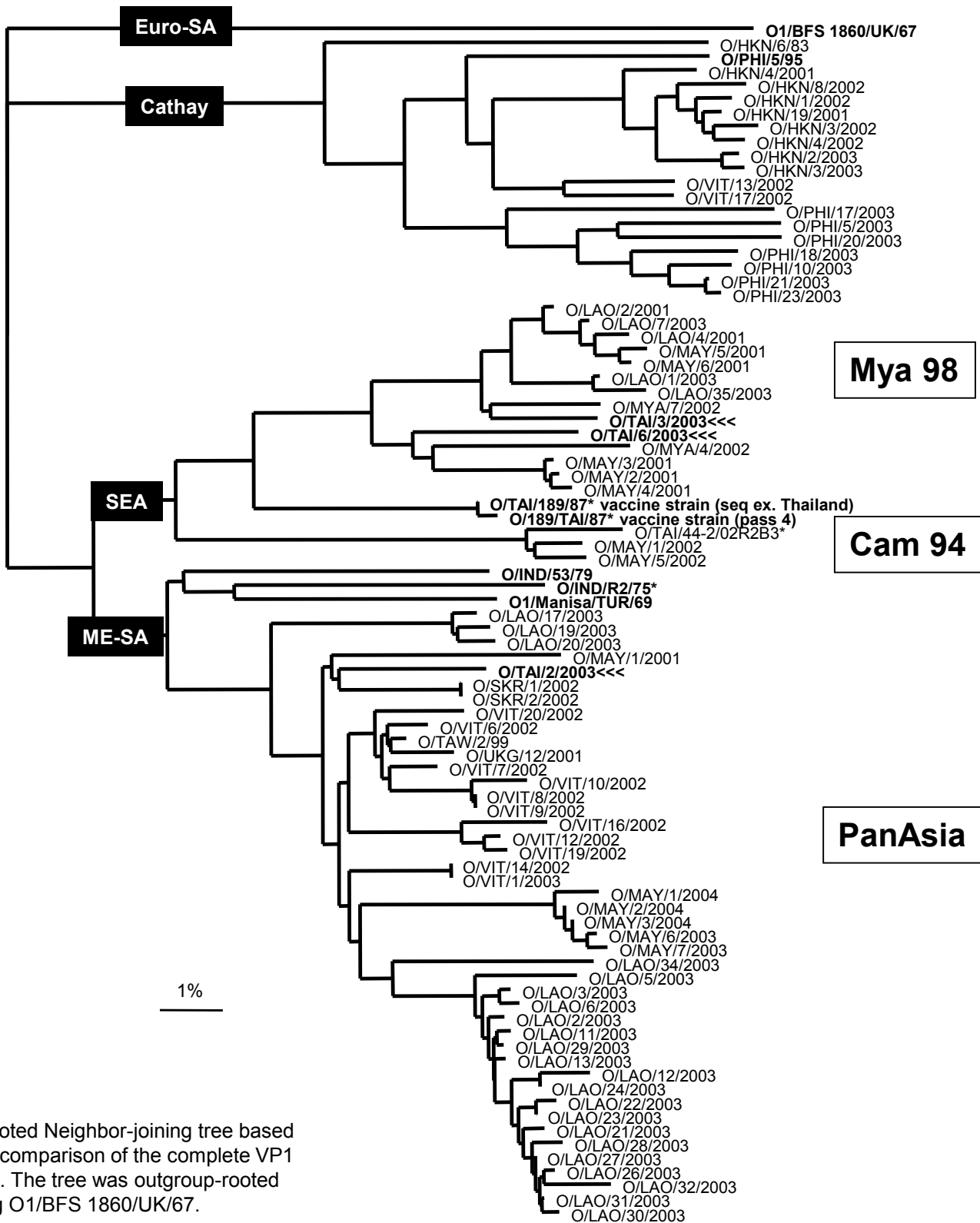
**Relationships to Reference Virus Strains**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAI/189/87*	TAI87-AC	629	627	7	99.68	0.32
2	O/TAW/2/99	TAW99-02	629	553	7	87.92	12.08
3	O/IND/R2/75*	IND75--A	629	547	7	86.96	13.04
4	O1/Manisa/TUR/69	TUR69--E	629	542	7	86.17	13.83
5	O/IND/53/79	IND79A53	629	537	7	85.37	14.63
6	O/MOR/1/91	MOR91-01	198	166	9	83.84	16.16
7	O/ISR/1/88	ISR88-01	184	150	11	81.52	18.48
8	O/HKN/6/83	HKN83-06	627	502	9	80.06	19.94
9	O1/BFS 1860/UK/67	UKG67--A	629	501	7	79.65	20.35
10	O/PHI/5/95	PHI95-05	506	400	13	79.05	20.95

nt, nucleotides

\*, not a WRLFMD reference number

Report on: O Thailand 2001-2004



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

\* not a WRLFMD ref. no.