

Serotype: O

Report date: 08/10/2004

WRL Ref No: VIT/2/2003

Date collected: 08/2003

Date received: 05/10/2004

Species: Porcine

Topotype: ME-SA

Material used: 10% epith. susp.

Genotype/strain: PanAsia

Region sequenced: VP1

Sequence filename: VIT03-02.SEQ

RT-PCR primers: O-1C272F/NK61

Date sequence last updated: 08/10/2004

No. of Nt determined: 639

Total no. of comparisons: 1494

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/VIT/16/2002	VIT02-16	639	633	0	99.06	0.94
2	O/VIT/12/2002	VIT02-12	639	628	0	98.28	1.72
3	O/IND/61/97* (1996)	IND96-AB	165	162	0	98.18	1.82
4	O/IND/209/99* (1998)	IND98-AU	165	162	0	98.18	1.82
5	O/IND/289/97*	IND97-AW	165	162	0	98.18	1.82
6	O/IND/287/99*	IND99-AP	164	161	1	98.17	1.83
7	O/VIT/19/2002	VIT02-19	639	626	0	97.97	2.03
8	O/IND/281/97*	IND97-AV	165	161	0	97.58	2.42
9	O/IND/249/99*	IND99-AL	165	161	0	97.58	2.42
10	O/IND/54/98*	IND98-AA	165	161	0	97.58	2.42

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	614	0	96.09	3.91
2	O/IND/53/79	IND79A53	639	574	0	89.83	10.17
3	O1/Manisa/TUR/69	TUR69--E	639	572	0	89.51	10.49
4	O/IND/R2/75*	IND75--A	639	567	0	88.73	11.27
5	O/TAI/189/87*	TAI87-AC	639	561	0	87.79	12.21
6	O/ISR/2/88	ISR88-02	639	556	0	87.01	12.99
7	O/MOR/1/91	MOR91-01	207	178	3	85.99	14.01
8	O/PHI/5/95	PHI95-05	639	523	0	81.85	18.15
9	O/HKN/6/83	HKN83-06	637	516	2	81	19
10	O1/BFS 1860/UK/67	UKG67--A	639	515	0	80.59	19.41

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: VIT/1/2004
Date collected: 02/2004
Date received: 05/10/2004
Species: Bovine
Material used: 10% epith. susp.
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 636
No. of ambiguities: 0
Gene length: 639

Report date: 08/10/2004
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: VIT04-01.SEQ
Date sequence last updated: 08/10/2004
Total no. of comparisons: 1494

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/LAO/24/2003	LAO03-24	550	544	2	98.91	1.09
2	O/LAO/26/2003	LAO03-26	605	598	0	98.84	1.16
3	O/LAO/27/2003	LAO03-27	594	587	5	98.82	1.18
4	O/LAO/23/2003	LAO03-23	636	627	0	98.58	1.42
5	O/LAO/21/2003	LAO03-21	634	625	2	98.58	1.42
6	O/LAO/31/2003	LAO03-31	633	624	3	98.58	1.42
7	O/LAO/4/2003	LAO03-04	257	253	1	98.44	1.56
8	O/LAO/22/2003	LAO03-22	608	598	1	98.36	1.64
9	O/LAO/29/2003	LAO03-29	605	595	1	98.35	1.65
10	O/LAO/32/2003	LAO03-32	595	585	8	98.32	1.68

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	636	602	0	94.65	5.35
2	O1/Manisa/TUR/69	TUR69--E	636	566	0	88.99	11.01
3	O/IND/53/79	IND79A53	636	559	0	87.89	12.11
4	O/IND/R2/75*	IND75--A	636	558	0	87.74	12.26
5	O/TAI/189/87*	TAI87-AC	636	550	0	86.48	13.52
6	O/ISR/2/88	ISR88-02	636	543	0	85.38	14.62
7	O/MOR/1/91	MOR91-01	204	169	3	82.84	17.16
8	O/PHI/5/95	PHI95-05	636	515	0	80.97	19.03
9	O/HKN/6/83	HKN83-06	634	509	2	80.28	19.72
10	O1/BFS 1860/UK/67	UKG67--A	636	500	0	78.62	21.38

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: VIT/2/2004
Date collected: 02/2004
Date received: 05/10/2004
Species: Porcine
Material used: 10% epith. susp.
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 08/10/2004
Topotype: Cathay
Genotype/strain: not designated
Sequence filename: VIT04-02.SEQ
Date sequence last updated: 08/10/2004
Total no. of comparisons: 1494

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/VIT/3/2004	VIT04-03	639	622	0	97.34	2.66
2	O/VIT/13/2002	VIT02-13	639	601	0	94.05	5.95
3	O/HKN/10/98	HKN98-10	614	576	3	93.81	6.19
4	O/VIT/6/99	VIT99-06	503	471	1	93.64	6.36
5	O/VIT/2/99	VIT99-02	447	417	8	93.29	6.71
6	O/VIT/3/99	VIT99-03	502	467	2	93.03	6.97
7	O/HKN/9/94	HKN94-09	360	334	0	92.78	7.22
8	O/HKN/1/99	HKN99-01	636	589	3	92.61	7.39
9	O/HKN/6/97	HKN97-06	589	545	5	92.53	7.47
10	O/HKN/9/99	HKN99-09	624	577	15	92.47	7.53

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	548	2	86.03	13.97
3	O/IND/53/79	IND79A53	639	518	0	81.06	18.94
4	O/TAW/2/99	TAW99-02	639	516	0	80.75	19.25
5	O/ISR/2/88	ISR88-02	639	514	0	80.44	19.56
6	O/TAI/189/87*	TAI87-AC	639	508	0	79.5	20.5
7	O/MOR/1/91	MOR91-01	207	164	3	79.23	20.77
8	O1/Manisa/TUR/69	TUR69--E	639	506	0	79.19	20.81
9	O/IND/R2/75*	IND75--A	639	504	0	78.87	21.13
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: VIT/3/2004
Date collected: 03/2004
Date received: 05/10/2004
Species: Porcine
Material used: 10% epith. susp.
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 08/10/2004
Topotype: Cathay
Genotype/strain: not designated
Sequence filename: VIT04-03.SEQ
Date sequence last updated: 08/10/2004
Total no. of comparisons: 1494

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/VIT/2/2004	VIT04-02	639	622	0	97.34	2.66
2	O/VIT/6/99	VIT99-06	503	473	1	94.04	5.96
3	O/HKN/10/98	HKN98-10	614	576	3	93.81	6.19
4	O/VIT/13/2002	VIT02-13	639	599	0	93.74	6.26
5	O/VIT/2/99	VIT99-02	447	418	8	93.51	6.49
6	O/VIT/3/99	VIT99-03	502	469	2	93.43	6.57
7	O/HKN/6/97	HKN97-06	589	545	5	92.53	7.47
8	O/HKN/9/94	HKN94-09	360	332	0	92.22	7.78
9	O/VIT/17/2002	VIT02-17	629	580	0	92.21	7.79
10	O/HKN/7/98	HKN98-07	578	532	11	92.04	7.96

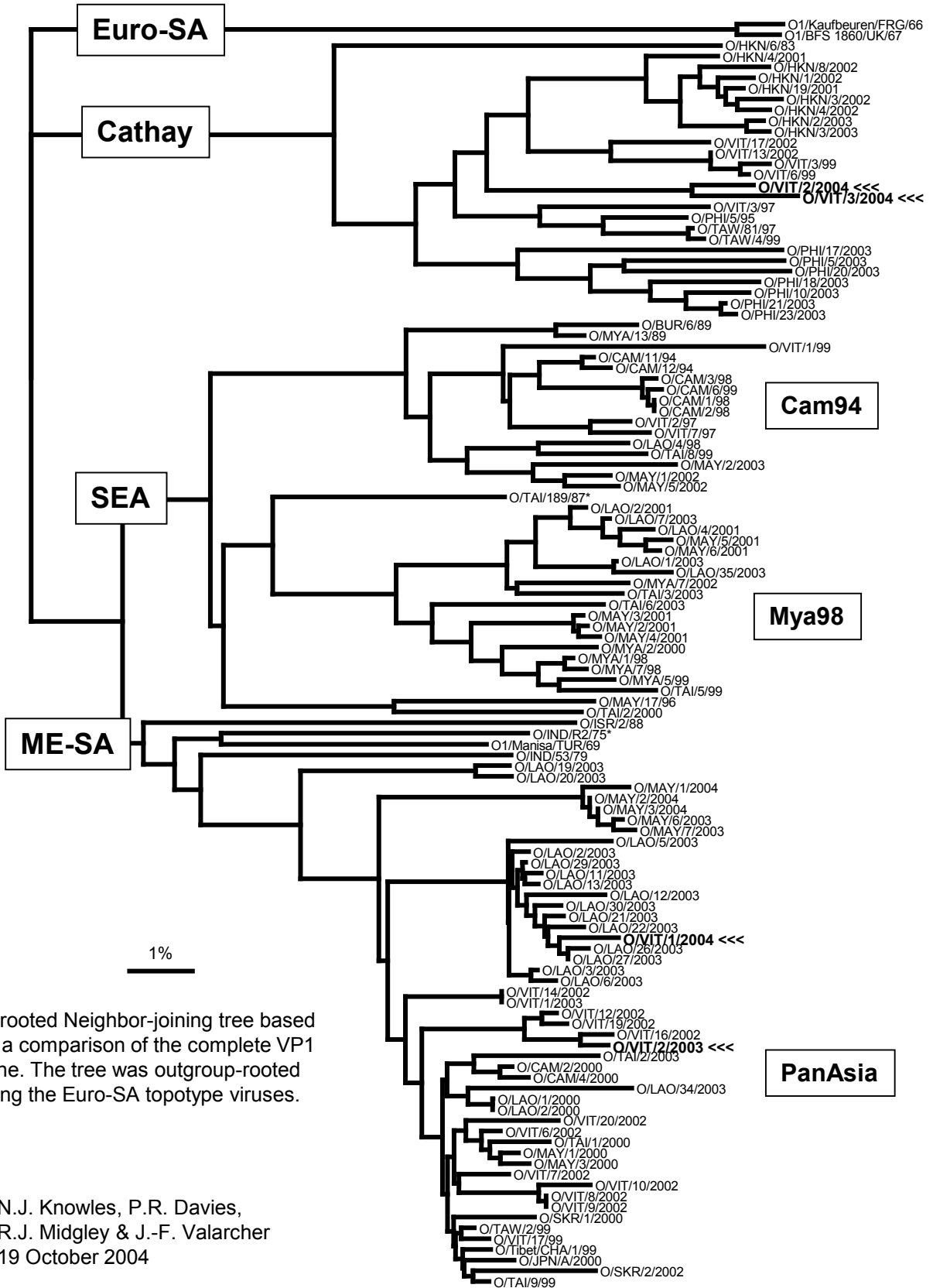
Relationships to Reference Virus Strains

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	547	2	85.87	14.13
3	O/IND/53/79	IND79A53	639	518	0	81.06	18.94
4	O/ISR/2/88	ISR88-02	639	511	0	79.97	20.03
5	O/TAW/2/99	TAW99-02	639	511	0	79.97	20.03
6	O/MOR/1/91	MOR91-01	207	164	3	79.23	20.77
7	O1/Manisa/TUR/69	TUR69--E	639	504	0	78.87	21.13
8	O/TAI/189/87*	TAI87-AC	639	503	0	78.72	21.28
9	O/IND/R2/75*	IND75--A	639	502	0	78.56	21.44
10	O1/BFS 1860/UK/67	UKG67--A	639	483	0	75.59	24.41

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV-O from Vietnam, 2003-04



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using the Euro-SA topotype viruses.

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R.J. Midgley & J.-F. Valarcher
19 October 2004