

Serotype: O	Report date: 05/06/2006
WRL Ref No: PAK/4/2006	
Sender Ref: 3.2	
Date collected: 31/01/2006	
Date received by WRLFMD: 28/04/2006	Topotype: ME-SA
Date received for sequencing: 05/05/2006	Genotype/strain: PanAsia
Species: Cattle	Sequence filename: PAK06-04.SEQ
Material used: BTy1	Date sequence last updated: 01/06/2006
Region sequenced: VP1	Total no. of comparisons: 1831
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 38 days
No. of ambiguities: 0	Sequencing time: 31 days
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/PAK/6/2006	PAK06-06	639	639	0	100	0
2	O/PAK/8/2006	PAK06-08	639	639	0	100	0
3	O/PAK/9/2006	PAK06-09	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	639	0	100	0
5	O/PAK/16/2006	PAK06-16	639	639	0	100	0
6	O/PAK/12/2006	PAK06-12	639	637	0	99.69	0.31
7	O/PAK/11/2006	PAK06-11	639	637	0	99.69	0.31
8	O/PAK/15/2006	PAK06-15	639	637	0	99.69	0.31
9	O/PAK/14/2006	PAK06-14	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	630	1	98.75	1.25

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	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	564	0	88.26	11.74
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/06/2006
WRL Ref No: PAK/6/2006	
Sender Ref: 3.4	
Date collected: 31/01/2006	
Date received by WRLFMD: 28/04/2006	Topotype: ME-SA
Date received for sequencing: 05/05/2006	Genotype/strain: PanAsia
Species: Buffalo	Sequence filename: PAK06-06.SEQ
Material used: BTy1	Date sequence last updated: 01/06/2006
Region sequenced: VP1	Total no. of comparisons: 1831
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 38 days
No. of ambiguities: 0	Sequencing time: 31 days
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/PAK/4/2006	PAK06-04	639	639	0	100	0
2	O/PAK/8/2006	PAK06-08	639	639	0	100	0
3	O/PAK/9/2006	PAK06-09	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	639	0	100	0
5	O/PAK/16/2006	PAK06-16	639	639	0	100	0
6	O/PAK/12/2006	PAK06-12	639	637	0	99.69	0.31
7	O/PAK/11/2006	PAK06-11	639	637	0	99.69	0.31
8	O/PAK/15/2006	PAK06-15	639	637	0	99.69	0.31
9	O/PAK/14/2006	PAK06-14	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	630	1	98.75	1.25

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	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	564	0	88.26	11.74
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/06/2006
WRL Ref No: PAK/8/2006	
Sender Ref: 4.2	
Date collected: 31/01/2006	
Date received by WRLFMD: 28/04/2006	Topotype:
Date received for sequencing: 05/05/2006	Genotype/strain:
Species: Buffalo	Sequence filename: PAK06-08.SEQ
Material used: BTy1	Date sequence last updated: 01/06/2006
Region sequenced: VP1	Total no. of comparisons: 1831
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Min. no. of nt for comparison: 300
No. of Nt determined: 639	Total turn-around time: 38 days
No. of ambiguities: 0	Sequencing time: 31 days
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/PAK/4/2006	PAK06-04	639	639	0	100	0
2	O/PAK/6/2006	PAK06-06	639	639	0	100	0
3	O/PAK/9/2006	PAK06-09	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	639	0	100	0
5	O/PAK/16/2006	PAK06-16	639	639	0	100	0
6	O/PAK/12/2006	PAK06-12	639	637	0	99.69	0.31
7	O/PAK/11/2006	PAK06-11	639	637	0	99.69	0.31
8	O/PAK/15/2006	PAK06-15	639	637	0	99.69	0.31
9	O/PAK/14/2006	PAK06-14	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	630	1	98.75	1.25

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	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	564	0	88.26	11.74
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/9/2006
Sender Ref: 5.1
Date collected: 31/01/2006
Date received by WRLFMD: 28/04/2006
Date received for sequencing: 05/05/2006
Species: Buffalo
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/06/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK06-09.SEQ
Date sequence last updated: 01/06/2006
Total no. of comparisons: 1831
Min. no. of nt for comparison: 300
Total turn-around time: 38 days
Sequencing time: 31 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/4/2006	PAK06-04	639	639	0	100	0
2	O/PAK/6/2006	PAK06-06	639	639	0	100	0
3	O/PAK/8/2006	PAK06-08	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	639	0	100	0
5	O/PAK/16/2006	PAK06-16	639	639	0	100	0
6	O/PAK/12/2006	PAK06-12	639	637	0	99.69	0.31
7	O/PAK/11/2006	PAK06-11	639	637	0	99.69	0.31
8	O/PAK/15/2006	PAK06-15	639	637	0	99.69	0.31
9	O/PAK/14/2006	PAK06-14	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	630	1	98.75	1.25

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	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	564	0	88.26	11.74
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/10/2006
Sender Ref: 5.2
Date collected: 31/01/2006
Date received by WRLFMD: 28/04/2006
Date received for sequencing: 05/05/2006
Species: Buffalo
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/06/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK06-10.SEQ
Date sequence last updated: 01/06/2006
Total no. of comparisons: 1831
Min. no. of nt for comparison: 300
Total turn-around time: 38 days
Sequencing time: 31 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/4/2006	PAK06-04	639	639	0	100	0
2	O/PAK/6/2006	PAK06-06	639	639	0	100	0
3	O/PAK/8/2006	PAK06-08	639	639	0	100	0
4	O/PAK/9/2006	PAK06-09	639	639	0	100	0
5	O/PAK/16/2006	PAK06-16	639	639	0	100	0
6	O/PAK/12/2006	PAK06-12	639	637	0	99.69	0.31
7	O/PAK/11/2006	PAK06-11	639	637	0	99.69	0.31
8	O/PAK/15/2006	PAK06-15	639	637	0	99.69	0.31
9	O/PAK/14/2006	PAK06-14	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	630	1	98.75	1.25

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	605	0	94.68	5.32
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	564	0	88.26	11.74
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	512	2	80.38	19.62
10	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/11/2006
Sender Ref: 6.1
Date collected: 01/02/2006
Date received by WRLFMD: 28/04/2006
Date received for sequencing: 05/05/2006
Species: Buffalo
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/06/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK06-11.SEQ
Date sequence last updated: 01/06/2006
Total no. of comparisons: 1831
Min. no. of nt for comparison: 300
Total turn-around time: 38 days
Sequencing time: 31 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/15/2006	PAK06-15	639	639	0	100	0
2	O/PAK/12/2006	PAK06-12	639	639	0	100	0
3	O/PAK/14/2006	PAK06-14	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	637	0	99.69	0.31
5	O/PAK/6/2006	PAK06-06	639	637	0	99.69	0.31
6	O/PAK/8/2006	PAK06-08	639	637	0	99.69	0.31
7	O/PAK/9/2006	PAK06-09	639	637	0	99.69	0.31
8	O/PAK/4/2006	PAK06-04	639	637	0	99.69	0.31
9	O/PAK/16/2006	PAK06-16	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	628	1	98.43	1.57

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	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O	Report date: 05/06/2006
WRL Ref No: PAK/12/2006	
Sender Ref: 6.2	
Date collected: 01/02/2006	Topotype: ME-SA
Date received by WRLFMD: 28/04/2006	Genotype/strain: PanAsia
Date received for sequencing: 05/05/2006	Sequence filename: PAK06-12.SEQ
Species: Buffalo	Date sequence last updated: 01/06/2006
Material used: BTy1	Total no. of comparisons: 1831
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Total turn-around time: 38 days
No. of Nt determined: 639	Sequencing time: 31 days
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/PAK/15/2006	PAK06-15	639	639	0	100	0
2	O/PAK/11/2006	PAK06-11	639	639	0	100	0
3	O/PAK/14/2006	PAK06-14	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	637	0	99.69	0.31
5	O/PAK/6/2006	PAK06-06	639	637	0	99.69	0.31
6	O/PAK/8/2006	PAK06-08	639	637	0	99.69	0.31
7	O/PAK/9/2006	PAK06-09	639	637	0	99.69	0.31
8	O/PAK/4/2006	PAK06-04	639	637	0	99.69	0.31
9	O/PAK/16/2006	PAK06-16	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	628	1	98.43	1.57

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	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O	Report date: 05/06/2006
WRL Ref No: PAK/14/2006	
Sender Ref: 7.2	
Date collected: 01/02/2006	Topotype: ME-SA
Date received by WRLFMD: 28/04/2006	Genotype/strain: PanAsia
Date received for sequencing: 05/05/2006	Sequence filename: PAK06-14.SEQ
Species: Cattle	Date sequence last updated: 01/06/2006
Material used: BTy1	Total no. of comparisons: 1831
Region sequenced: VP1	Min. no. of nt for comparison: 300
RT-PCR primers: O-1C272F/EUR-2B52R; O-1C244F/EUR-2B52R	Total turn-around time: 38 days
No. of Nt determined: 639	Sequencing time: 31 days
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/PAK/15/2006	PAK06-15	639	639	0	100	0
2	O/PAK/11/2006	PAK06-11	639	639	0	100	0
3	O/PAK/12/2006	PAK06-12	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	637	0	99.69	0.31
5	O/PAK/6/2006	PAK06-06	639	637	0	99.69	0.31
6	O/PAK/8/2006	PAK06-08	639	637	0	99.69	0.31
7	O/PAK/9/2006	PAK06-09	639	637	0	99.69	0.31
8	O/PAK/4/2006	PAK06-04	639	637	0	99.69	0.31
9	O/PAK/16/2006	PAK06-16	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	628	1	98.43	1.57

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	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides
*, not a WRLFMD reference number

Serotype: O
WRL Ref No: PAK/15/2006
Sender Ref: 7.7
Date collected: 07/04/2006
Date received by WRLFMD: 28/04/2006
Date received for sequencing: 05/05/2006
Species: Cattle
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/EUR-2B52R;
O-1C244F/EUR-2B52R
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 05/06/2006
Topotype: ME-SA
Genotype/strain: PanAsia
Sequence filename: PAK06-15.SEQ
Date sequence last updated: 01/06/2006
Total no. of comparisons: 1831
Min. no. of nt for comparison: 300
Total turn-around time: 38 days
Sequencing time: 31 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/PAK/14/2006	PAK06-14	639	639	0	100	0
2	O/PAK/11/2006	PAK06-11	639	639	0	100	0
3	O/PAK/12/2006	PAK06-12	639	639	0	100	0
4	O/PAK/10/2006	PAK06-10	639	637	0	99.69	0.31
5	O/PAK/6/2006	PAK06-06	639	637	0	99.69	0.31
6	O/PAK/8/2006	PAK06-08	639	637	0	99.69	0.31
7	O/PAK/9/2006	PAK06-09	639	637	0	99.69	0.31
8	O/PAK/4/2006	PAK06-04	639	637	0	99.69	0.31
9	O/PAK/16/2006	PAK06-16	639	637	0	99.69	0.31
10	O/NEP/2/2003	NEP03-02	638	628	1	98.43	1.57

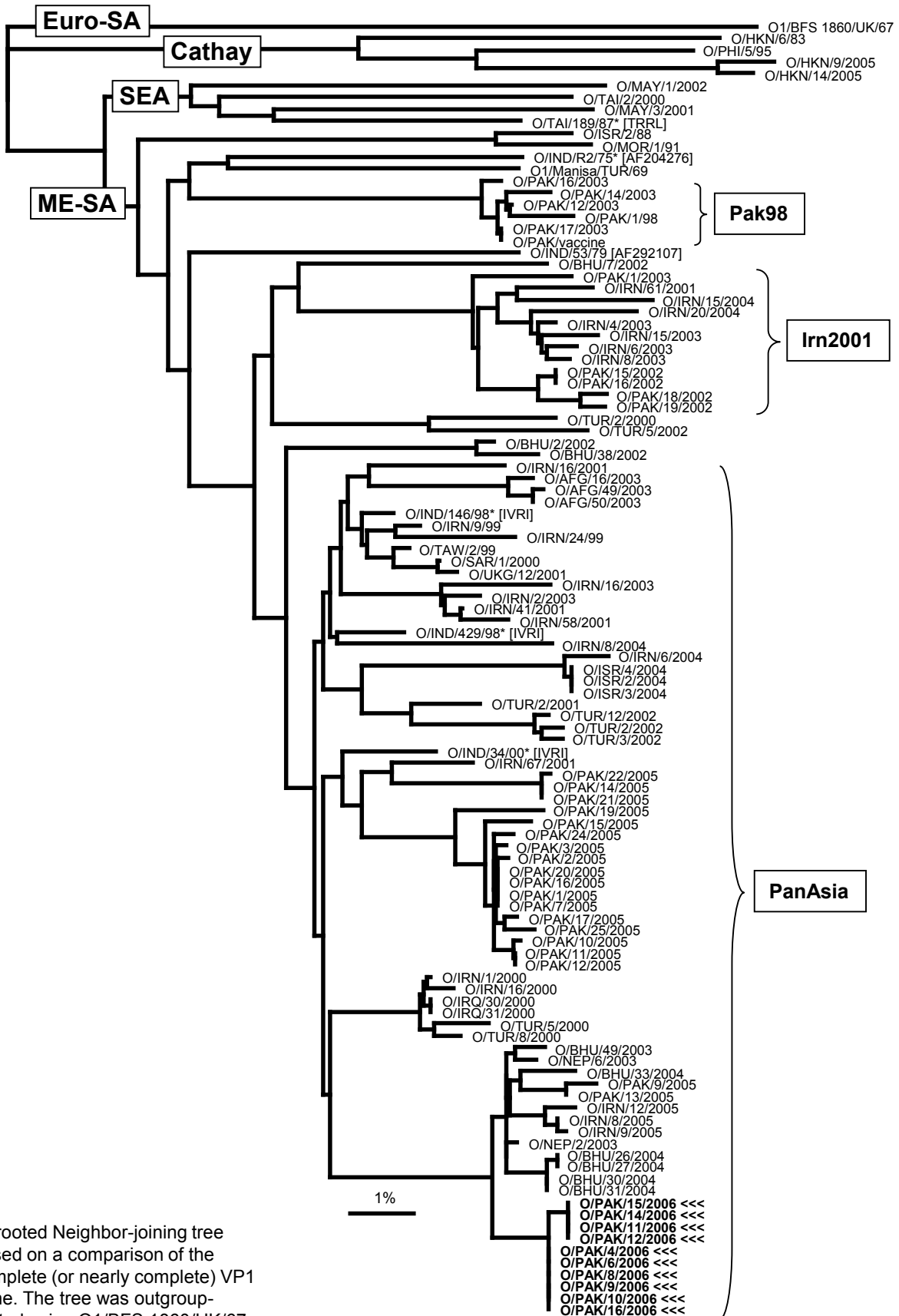
Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	603	0	94.37	5.63
2	O/IND/53/79 [AF292107]	IND79A53	639	572	0	89.51	10.49
3	O/IND/R2/75* [AF204276]	IND75--A	639	570	0	89.2	10.8
4	O1/Manisa/TUR/69	TUR69--E	639	565	0	88.42	11.58
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88	ISR88-02	639	555	0	86.85	13.15
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95	PHI95-05	639	520	0	81.38	18.62
9	O/HKN/6/83	HKN83-06	637	513	2	80.53	19.47
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

*, not a WRLFMD reference number

Report on: O Pakistan 2006



Unrooted Neighbor-joining tree based on a comparison of the complete (or nearly complete) VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67. *, not a WRLFMD ref. no.