

Serotype: O  
WRL Ref No: IRN/8/2006  
Sender Ref: Iran-4  
Date collected: 29/04/2006  
Date received by WRLFMD: 22/05/2006  
Date received for sequencing: 26/05/2006  
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: 07/06/2006  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: IRN06-08.SEQ  
Date sequence last updated: 06/06/2006  
Total no. of comparisons: 1847  
Min. no. of nt for comparison: 300  
Total turn-around time: 16 days  
Sequencing time: 12 days

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/10/2006	IRN06-10	639	639	0	100	0
2	O/IRN/9/2006	IRN06-09	639	639	0	100	0
3	O/PAK/16/2006	PAK06-16	639	636	0	99.53	0.47
4	O/PAK/6/2006	PAK06-06	639	636	0	99.53	0.47
5	O/PAK/10/2006	PAK06-10	639	636	0	99.53	0.47
6	O/PAK/4/2006	PAK06-04	639	636	0	99.53	0.47
7	O/PAK/9/2006	PAK06-09	639	636	0	99.53	0.47
8	O/PAK/8/2006	PAK06-08	639	636	0	99.53	0.47
9	O/PAK/12/2006	PAK06-12	639	634	0	99.22	0.78
10	O/PAK/11/2006	PAK06-11	639	634	0	99.22	0.78

### 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	604	0	94.52	5.48
2	O/IND/53/79 [AF292107]	IND79A53	639	571	0	89.36	10.64
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69	TUR69--E	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88	ISR88-02	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: IRN/9/2006  
Sender Ref: Iran-2  
Date collected: 09/05/2006  
Date received by WRLFMD: 22/05/2006  
Date received for sequencing: 26/05/2006  
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: 07/06/2006  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: IRN06-09.SEQ  
Date sequence last updated: 06/06/2006  
Total no. of comparisons: 1847  
Min. no. of nt for comparison: 300  
Total turn-around time: 16 days  
Sequencing time: 12 days

Comments:

#### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IRN/10/2006	IRN06-10	639	639	0	100	0
2	O/IRN/8/2006	IRN06-08	639	639	0	100	0
3	O/PAK/16/2006	PAK06-16	639	636	0	99.53	0.47
4	O/PAK/6/2006	PAK06-06	639	636	0	99.53	0.47
5	O/PAK/10/2006	PAK06-10	639	636	0	99.53	0.47
6	O/PAK/4/2006	PAK06-04	639	636	0	99.53	0.47
7	O/PAK/9/2006	PAK06-09	639	636	0	99.53	0.47
8	O/PAK/8/2006	PAK06-08	639	636	0	99.53	0.47
9	O/PAK/12/2006	PAK06-12	639	634	0	99.22	0.78
10	O/PAK/11/2006	PAK06-11	639	634	0	99.22	0.78

#### Relationships to Reference Virus Strains

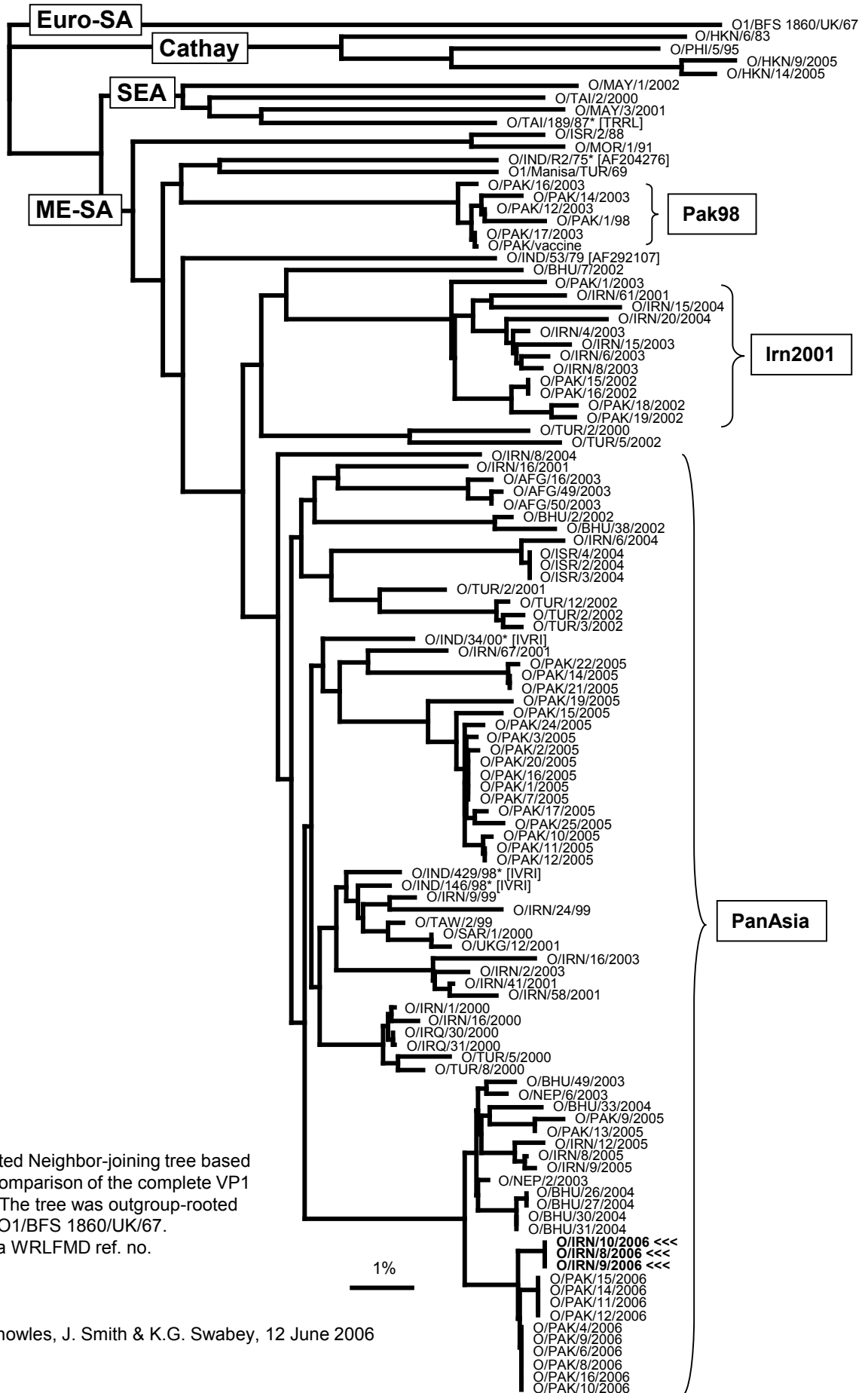
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	604	0	94.52	5.48
2	O/IND/53/79 [AF292107]	IND79A53	639	571	0	89.36	10.64
3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69	TUR69--E	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88	ISR88-02	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
8	O/PHI/5/95	PHI95-05	639	519	0	81.22	18.78
9	O/HKN/6/83	HKN83-06	637	511	2	80.22	19.78
10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O	Report date: 07/06/2006						
WRL Ref No: IRN/10/2006							
Sender Ref: Iran-1							
Date collected: 09/05/2006							
Date received by WRLFMD: 22/05/2006	Topotype: ME-SA						
Date received for sequencing: 26/05/2006	Genotype/strain: PanAsia						
Species: Cattle	Sequence filename: IRN06-10.SEQ						
Material used: BTy1	Date sequence last updated: 07/06/2006						
Region sequenced: VP1	Total no. of comparisons: 1847						
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: 16 days						
No. of ambiguities: 0	Sequencing time: 12 days						
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/IRN/9/2006	IRN06-09	639	639	0	100	0
2	O/IRN/8/2006	IRN06-08	639	639	0	100	0
3	O/PAK/16/2006	PAK06-16	639	636	0	99.53	0.47
4	O/PAK/6/2006	PAK06-06	639	636	0	99.53	0.47
5	O/PAK/10/2006	PAK06-10	639	636	0	99.53	0.47
6	O/PAK/4/2006	PAK06-04	639	636	0	99.53	0.47
7	O/PAK/9/2006	PAK06-09	639	636	0	99.53	0.47
8	O/PAK/8/2006	PAK06-08	639	636	0	99.53	0.47
9	O/PAK/12/2006	PAK06-12	639	634	0	99.22	0.78
10	O/PAK/11/2006	PAK06-11	639	634	0	99.22	0.78
<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	639	604	0	94.52	5.48
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3	O/IND/R2/75* [AF204276]	IND75--A	639	569	0	89.05	10.95
4	O1/Manisa/TUR/69	TUR69--E	639	563	0	88.11	11.89
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	555	0	86.85	13.15
6	O/ISR/2/88	ISR88-02	639	554	0	86.7	13.3
7	O/MOR/1/91	MOR91-01	639	550	0	86.07	13.93
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10	O1/BFS 1860/UK/67	UKG67--A	639	510	0	79.81	20.19
nt, nucleotides							
*, not a WRLFMD reference number							

Report on: O Iran 2006



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.