

Serotype: O  
WRL Ref No: SAU/1/2007  
Sender Ref: 1  
Date collected: 01/05/2007  
Date received by WRLFMD: 31/05/2007  
Date received for sequencing: 04/06/2007  
Species: Oryx  
Material used: BTy2  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 12/06/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: SAU07-01.SEQ  
Date sequence last updated: 12/06/2007  
Total no. of comparisons: 1582  
Min. no. of nt for comparison: 300  
Total turn-around time: 12 days  
Sequencing time: 8 days

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/2/2007	SAU07-02	639	639	0	100	0
2	O/SAU/3/2007	SAU07-03	639	639	0	100	0
3	O/SAU/4/2007	SAU07-04	639	639	0	100	0
4	O/SAU/5/2007	SAU07-05	639	639	0	100	0
5	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
6	O/JOR/7/2006	JOR06-07	639	636	0	99.53	0.47
7	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
8	O/IRN/51/2006	IRN06-51	639	634	0	99.22	0.78
9	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
10	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94

### 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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
10	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: SAU/2/2007  
Sender Ref: 2  
Date collected: 01/05/2007  
Date received by WRLFMD: 31/05/2007  
Date received for sequencing: 04/06/2007  
Species: Oryx  
Material used: BTy2  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 12/06/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: SAU07-02.SEQ  
Date sequence last updated: 12/06/2007  
Total no. of comparisons: 1582  
Min. no. of nt for comparison: 300  
Total turn-around time: 12 days  
Sequencing time: 8 days

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/1/2007	SAU07-01	639	639	0	100	0
2	O/SAU/3/2007	SAU07-03	639	639	0	100	0
3	O/SAU/4/2007	SAU07-04	639	639	0	100	0
4	O/SAU/5/2007	SAU07-05	639	639	0	100	0
5	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
6	O/JOR/7/2006	JOR06-07	639	636	0	99.53	0.47
7	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
8	O/IRN/51/2006	IRN06-51	639	634	0	99.22	0.78
9	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
10	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94

### 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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
10	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: SAU/3/2007  
Sender Ref: 3  
Date collected: 01/05/2007  
Date received by WRLFMD: 31/05/2007  
Date received for sequencing: 04/06/2007  
Species: Oryx  
Material used: BTy1  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 12/06/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: SAU07-03.SEQ  
Date sequence last updated: 12/06/2007  
Total no. of comparisons: 1582  
Min. no. of nt for comparison: 300  
Total turn-around time: 12 days  
Sequencing time: 8 days

Comments:

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/1/2007	SAU07-01	639	639	0	100	0
2	O/SAU/2/2007	SAU07-02	639	639	0	100	0
3	O/SAU/4/2007	SAU07-04	639	639	0	100	0
4	O/SAU/5/2007	SAU07-05	639	639	0	100	0
5	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
6	O/JOR/7/2006	JOR06-07	639	636	0	99.53	0.47
7	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
8	O/IRN/51/2006	IRN06-51	639	634	0	99.22	0.78
9	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
10	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94

**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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
10	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: SAU/4/2007  
Sender Ref: 4  
Date collected: 01/05/2007  
Date received by WRLFMD: 31/05/2007  
Date received for sequencing: 04/06/2007  
Species: Oryx  
Material used: BTy2  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 12/06/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: SAU07-04.SEQ  
Date sequence last updated: 12/06/2007  
Total no. of comparisons: 1582  
Min. no. of nt for comparison: 300  
Total turn-around time: 12 days  
Sequencing time: 8 days

Comments:

### Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/1/2007	SAU07-01	639	639	0	100	0
2	O/SAU/2/2007	SAU07-02	639	639	0	100	0
3	O/SAU/3/2007	SAU07-03	639	639	0	100	0
4	O/SAU/5/2007	SAU07-05	639	639	0	100	0
5	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
6	O/JOR/7/2006	JOR06-07	639	636	0	99.53	0.47
7	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
8	O/IRN/51/2006	IRN06-51	639	634	0	99.22	0.78
9	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
10	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94

### 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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
10	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: SAU/5/2007  
Sender Ref: 5  
Date collected: 01/05/2007  
Date received by WRLFMD: 31/05/2007  
Date received for sequencing: 04/06/2007  
Species: Oryx  
Material used: BTy2  
Region sequenced: VP1  
RT-PCR primers: O-1C244F/EUR-2B52R;  
O-1C272F/EUR-2B52R  
No. of Nt determined: 639  
No. of ambiguities: 0  
Gene length: 639

Report date: 12/06/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: SAU07-05.SEQ  
Date sequence last updated: 12/06/2007  
Total no. of comparisons: 1582  
Min. no. of nt for comparison: 300  
Total turn-around time: 12 days  
Sequencing time: 8 days

Comments:

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/1/2007	SAU07-01	639	639	0	100	0
2	O/SAU/2/2007	SAU07-02	639	639	0	100	0
3	O/SAU/3/2007	SAU07-03	639	639	0	100	0
4	O/SAU/4/2007	SAU07-04	639	639	0	100	0
5	O/JOR/6/2006	JOR06-06	639	636	0	99.53	0.47
6	O/JOR/7/2006	JOR06-07	639	636	0	99.53	0.47
7	O/IRN/39/2006	IRN06-39	639	634	0	99.22	0.78
8	O/IRN/51/2006	IRN06-51	639	634	0	99.22	0.78
9	O/ISR/3/2007	ISR07-03	639	634	0	99.22	0.78
10	O/IRN/12/2006	IRN06-12	639	633	0	99.06	0.94

**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	601	0	94.05	5.95
2	O/IND/53/79 [AF292107]	IND79A53	639	568	0	88.89	11.11
3	O/IND/R2/75* [AF204276]	IND75--A	639	566	0	88.58	11.42
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	560	0	87.64	12.36
5	O/TAI/189/87* [TRRL]	TAI87-AC	639	556	0	87.01	12.99
6	O/ISR/2/88 (DQ164899)	ISR88-02	639	551	0	86.23	13.77
7	O/MOR/1/91	MOR91-01	639	547	0	85.6	14.4
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O1/BFS 1860/UK/67	UKG67--A	639	511	0	79.97	20.03
10	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25

nt, nucleotides  
\*, not a WRLFMD reference number

# Report on FMDV O from Oryx in Saudi Arabia in 2007

Software: MEGA 3.1  
 No. of Taxa : 153  
 Data File : n:\evd\meg\db\fmvdo\SAU2007a.meg  
 Data Title : Saud Arabia 2007  
 Data Type : Nucleotide (Coding)  
 Analysis : Phylogeny reconstruction  
 Tree Inference : =====  
 Method : Neighbor-Joining  
 Phylogeny Test and options : Bootstrap (1000 replicates; seed=64238)  
 Include Sites : =====  
 Gaps/Missing Data : Pairwise Deletion  
 Codon Positions : 1st+2nd+3rd+Noncoding  
 Substitution Model : =====  
 Model : Nucleotide: Kimura 2-parameter  
 Substitutions to Include : d: Transitions + Transversions  
 Pattern among Lineages : Same (Homogeneous)  
 Rates among sites : Uniform rates  
 No. of Sites : 639  
 No Of Bootstrap Reps = 1000  
 Only bootstrap values of 70% and above are shown

N.J. Knowles & J. Wadsworth, 12 June 2007

