



INSTITUTE FOR ANIMAL HEALTH
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Tel: 01483 232441 Fax: 01483 232621

FMD Sequencing Report

Lab Reference WRL Batch Number: WRLFMD/2009/00032
Sender Details: [REDACTED]
Date Received: 2nd June 2009
Country of Origin: Palestinian Autonomous Territories
Date Reported: 14th September 2009

Dear Dr. Yadin,

Sequencing work has now been completed in respect of the samples you submitted and the details are as attached. Please note that all of our phylogenetic trees can be accessed via the internet at: <http://www.wrlfmd.org/>

Results App [REDACTED] amp: [REDACTED]

Date: 15/9/09

To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by fax (+44 (0) 1483 232621 or email: elizabeth.byrom@bbsrc.ac.uk)

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

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<p>Serotype: O WRL Ref No: PAT/1/2007 Sender Ref: 541557 Date collected: 07/02/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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</p>	<p>Report date: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-01.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days</p>																																																																																								
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6	O/ISR/2/88 (DQ164899)	ISR88-02	639	552	0	86.38	13.62																																																																																		
7	O/MOR/1/91	MOR91-01	639	548	0	85.76	14.24																																																																																		
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Serotype: O WRL Ref No: PAT/3/2007 Sender Ref: 542477 Date collected: 14/02/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-03.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/6/2007 Sender Ref: 542681 (1) Date collected: 15/02/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-06.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Molecular Epidemiology Report Form

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Serotype: O WRL Ref No: PAT/8/2007 Sender Ref: 542681 (3) Date collected: 15/02/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: CATTLE 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-08.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/11/2007 Sender Ref: 543974 Date collected: 27/02/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: GOAT 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-11.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/12/2007 Sender Ref: 91 544704 Date collected: 06/03/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: GOAT 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-12.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/13/2007 Sender Ref: 86 544707 Date collected: 06/03/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: GOAT 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-13.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/15/2007 Sender Ref: 126 545686 Date collected: 14/03/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-15.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/16/2007 Sender Ref: 109 545682 Date collected: 14/03/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: NOT KNOWN 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-16.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/18/2007 Sender Ref: 138 546398 Date collected: 21/03/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: NOT KNOWN 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-18.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/19/2007 Sender Ref: 129 546402 Date collected: 21/03/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-19.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

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Serotype: O WRL Ref No: PAT/21/2007 Sender Ref: 161 548461 Date collected: 12/04/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-21.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/22/2007 Sender Ref: 162 548462 Date collected: 12/04/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-22.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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Serotype: O WRL Ref No: PAT/23/2007 Sender Ref: 163 548463 Date collected: 12/04/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-23.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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nt, nucleotides *, not a WRLFMD reference number																																																																																									

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

Serotype: O WRL Ref No: PAT/24/2007 Sender Ref: 164 548467 Date collected: 12/04/2007 Date received by WRLFMD: 02/06/2009 Date received for sequencing: 25/06/2009 Species: SHEEP 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: 07/09/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ME-SA Genotype/strain: PanAsia-2 Sequence filename: PAT07-24.SEQ Date sequence last updated: 10/08/2009 Total no. of comparisons: 2096 Min. no. of nt for comparison: 300 Total turn-around time: 97 days Sequencing time: 74 days																																																																																								
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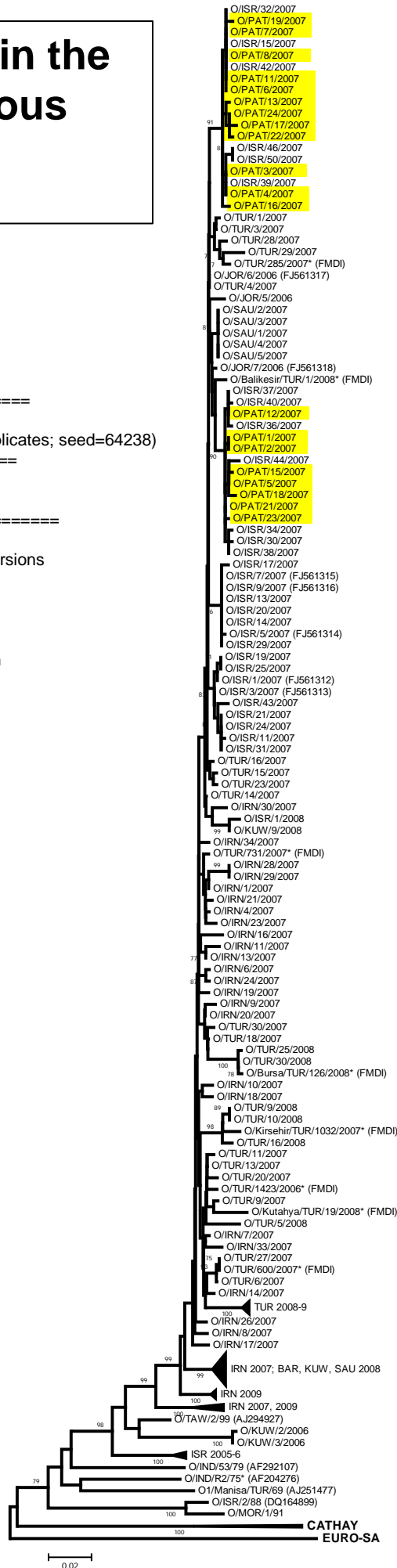
Report on FMDV O in the Palestian Autonomous Territories in 2007

Batch: WRLFMD/2009/00032

Software: MEGA 4.0
 No. of Taxa : 176
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 Data Title : PAT 2007 & ISR 2007-08
 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

*, not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 7 September 2009



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