

Serotype: O	Report date: 17/09/2007						
WRLRef No: AZB/2007a							
Sender Ref: O/NKR/1/2007							
Date collected: July 2007							
Date received by WRLFMD: 17/09/2007	Topotype: ME-SA						
Species: Cattle	Genotype/strain: PanAsia						
Material used: Not known	Sequence filename: AZB07-AA.SEQ						
Region sequenced: VP1	Date sequence last updated: 17/09/2007						
RT-PCR primers: Not known	Total no. of comparisons: 1671						
No. of Nt determined: 639	Min. no. of nt for comparison: 300						
No. of ambiguities: 0	Total turn-around time: 0 days						
Gene length: 639	Sequencing time: 0 days						
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/AZB/2007b (ARRIAH)	AZB07-AB	639	638	0	99.84	0.16
2	O/IRN/26/2006	IRN06-26	639	638	0	99.84	0.16
3	O/IRN/1/2007	IRN07-01	639	637	0	99.69	0.31
4	O/IRN/17/2006	IRN06-17	639	637	0	99.69	0.31
5	O/IRN/4/2007	IRN07-04	639	637	0	99.69	0.31
6	O/IRN/12/2006	IRN06-12	639	636	0	99.53	0.47
7	O/IRN/21/2007	IRN07-21	639	636	0	99.53	0.47
8	O/IRN/10/2006	IRN06-10	639	635	0	99.37	0.63
9	O/IRN/19/2006	IRN06-19	639	635	0	99.37	0.63
10	O/IRN/20/2006	IRN06-20	639	635	0	99.37	0.63
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	602	0	94.21	5.79
2	O/IND/53/79 [AF292107]	IND79A53	639	569	0	89.05	10.95
3	O/IND/R2/75* [AF204276]	IND75--A	639	567	0	88.73	11.27
4	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	563	0	88.11	11.89
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	553	0	86.54	13.46
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	553	0	86.54	13.46
7	O/MOR/1/91	MOR91-01	639	552	0	86.38	13.62
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	517	0	80.91	19.09
9	O/HKN/6/83	HKN83-06	637	509	2	79.91	20.09
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	508	0	79.5	20.5
nt, nucleotides							
*, not a WRLFMD reference number							

Serotype: O	Report date: 17/09/2007
WRL Ref No: AZB/2007b	
Sender Ref: O/NKR/2/2007	
Date collected: July 2007	
Date received by WRLFMD: 17/09/2007	Topotype: ME-SA
Species: Cattle	Genotype/strain: PanAsia
Material used: Not known	Sequence filename: AZB07-AB.SEQ
Region sequenced: VP1	Date sequence last updated: 17/09/2007
RT-PCR primers: Not known	Total no. of comparisons: 1671
No. of Nt determined: 639	Min. no. of nt for comparison: 300
No. of ambiguities: 0	Total turn-around time: 0 days
Gene length: 639	Sequencing time: 0 days

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/AZB/2007a (ARRIAH)	AZB07-AA	639	638	0	99.84	0.16
2	O/IRN/26/2006	IRN06-26	639	637	0	99.69	0.31
3	O/IRN/1/2007	IRN07-01	639	636	0	99.53	0.47
4	O/IRN/17/2006	IRN06-17	639	636	0	99.53	0.47
5	O/IRN/4/2007	IRN07-04	639	636	0	99.53	0.47
6	O/IRN/12/2006	IRN06-12	639	635	0	99.37	0.63
7	O/IRN/21/2007	IRN07-21	639	635	0	99.37	0.63
8	O/IRN/10/2006	IRN06-10	639	634	0	99.22	0.78
9	O/IRN/19/2006	IRN06-19	639	634	0	99.22	0.78
10	O/IRN/20/2006	IRN06-20	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	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	562	0	87.95	12.05
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	554	0	86.7	13.3
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	552	0	86.38	13.62
7	O/MOR/1/91	MOR91-01	639	551	0	86.23	13.77
8	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
9	O/HKN/6/83	HKN83-06	637	508	2	79.75	20.25
10	O1/BFS 1860/UK/67 (J02185)	UKG67--A	639	508	0	79.5	20.5

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O VP1 sequences from the Nagorno-Karabakh region in Azerbaijan

Software: MEGA 3.1

No. of Taxa : 199

Data File : n:\evd\meg\db\fmdiv\o\AZB2007a.meg

Data Title : O Nagorno-Karabakh 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

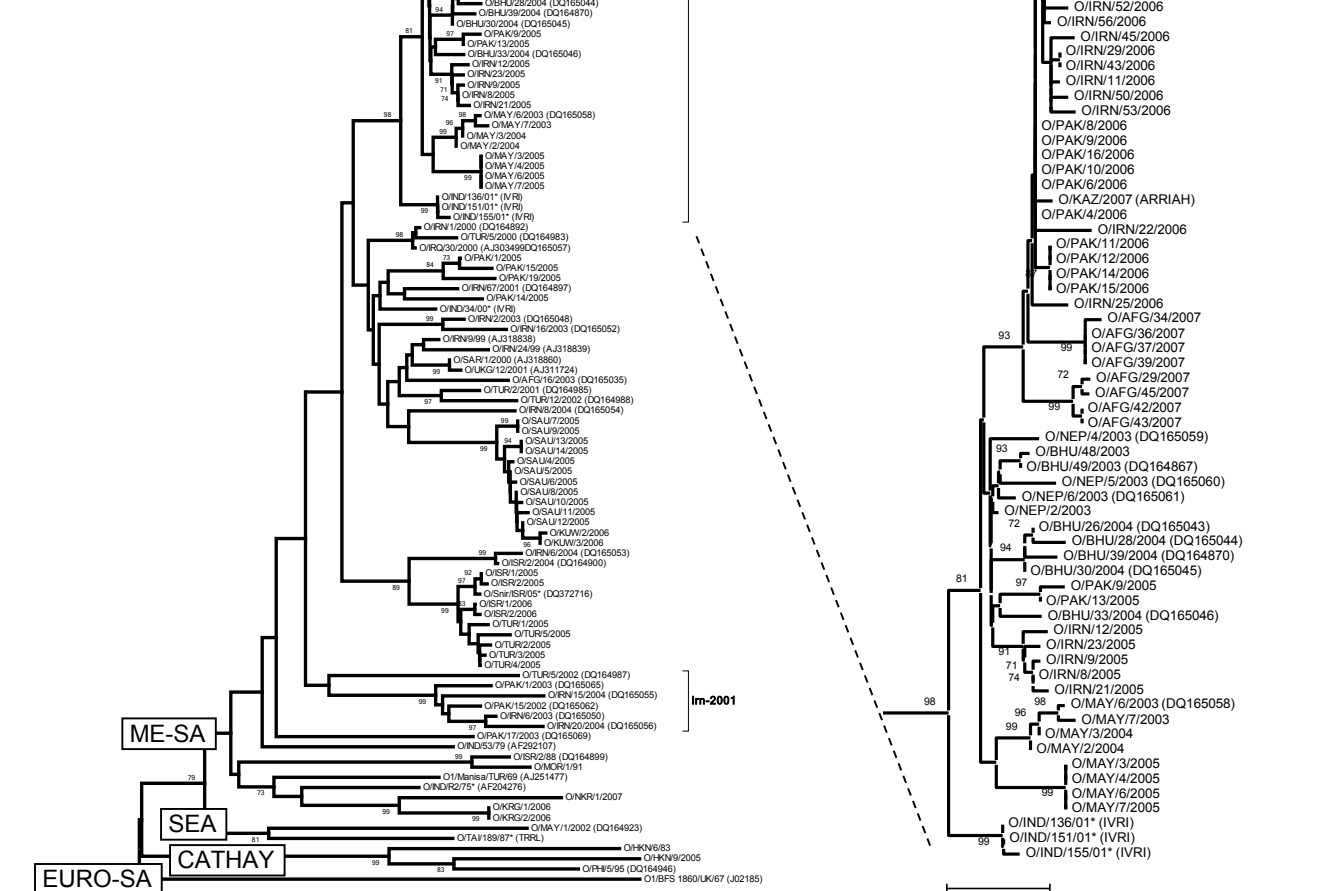
No. of Sites : 639

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

N.J. Knowles & J. Wadsworth, 17/09/2007

Sequence data provided by ARRIAH, Russian Federation.



New PanAsia lineage

Im-2001

0.02