

Serotype: O
WRL Ref No: EGY/8/2006
Sender Ref: FMD/KIH5804/Fa/06/Egy
Date collected: Not known
Date received by WRLFMD: 27/04/2007
Date received for sequencing: 02/05/2007
Species: Not known
Material used: CK2 BHK3 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: 10/05/2007
Topotype: ME-SA
Genotype/strain: none designated
Sequence filename: EGY06-08.SEQ
Date sequence last updated: 08/05/2007
Total no. of comparisons: 1573
Min. no. of nt for comparison: 300
Total turn-around time: 13 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	O1/Sharquia/EGY/72 (DQ164871)	EGY72--A	639	634	0	99.22	0.78
2	O/841/Ukraine/USSR/76	USS76--B	638	614	1	96.24	3.76
3	O/Israel/81	ISR81--A	637	612	2	96.08	3.92
4	O/1311/Ukraine/USSR/84	USS84--B	639	608	0	95.15	4.85
5	O/824/Russia/USSR/75	USS75--B	638	607	1	95.14	4.86
6	O/1618/Russia/USSR/66	USS66--B	639	607	0	94.99	5.01
7	O/1445/Russia/USSR/87	USS87--E	639	606	0	94.84	5.16
8	O/1451/Russia/USSR/87	USS87--F	638	603	1	94.51	5.49
9	O/1467/Russia/USSR/87	USS87--G	638	603	1	94.51	5.49
10	O/948/Armenia/USSR/78	USS78--A	634	596	5	94.01	5.99

Relationships to Reference Virus Strains

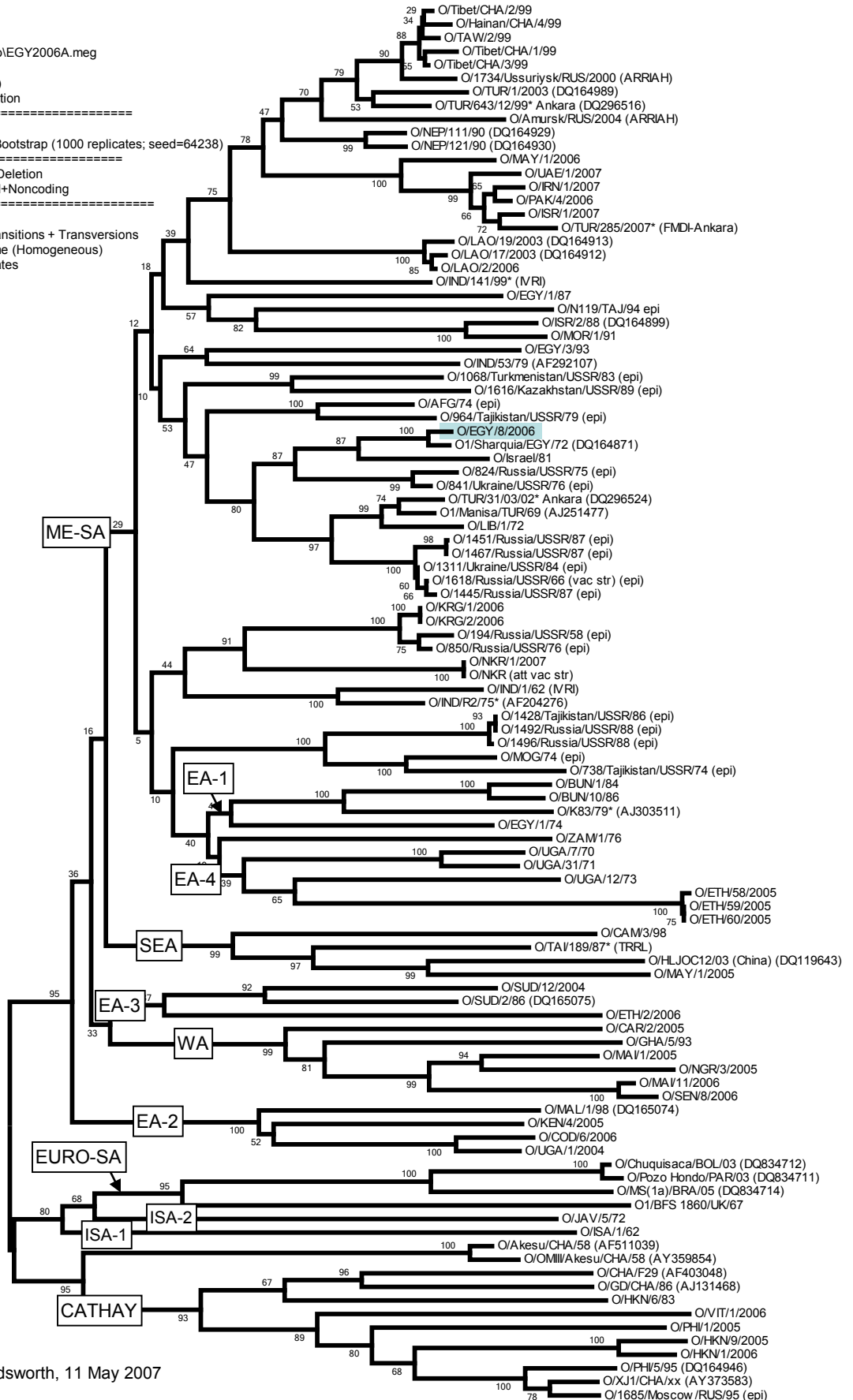
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O1/Manisa/TUR/69 (AJ251477)	TUR69--E	639	594	0	92.96	7.04
2	O/IND/R2/75* [AF204276]	IND75--A	639	577	0	90.3	9.7
3	O/IND/53/79 [AF292107]	IND79A53	639	574	0	89.83	10.17
4	O/TAW/2/99	TAW99-02	639	567	0	88.73	11.27
5	O/ISR/2/88 (DQ164899)	ISR88-02	639	560	0	87.64	12.36
6	O/MOR/1/91	MOR91-01	639	558	0	87.32	12.68
7	O/TAI/189/87* [TRRL]	TAI87-AC	639	548	0	85.76	14.24
8	O/HKN/6/83	HKN83-06	637	515	2	80.85	19.15
9	O/PHI/5/95 (DQ164946)	PHI95-05	639	516	0	80.75	19.25
10	O1/BFS 1860/UK/67	UKG67--A	639	516	0	80.75	19.25

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Egypt in 2006

Software: MEGA 3.1
 No. of Taxa : 103
 Data File : n:\evd\meg\db\fmv\o\EGY2006A.meg
 Data Title : EGY / KRG
 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: p-distance
 Substitutions to Include : d: Transitions + Transversions
 Pattern among Lineages : Same (Homogeneous)
 Rates among sites : Uniform rates
 No. of Sites : 642
 No Of Bootstrap Reps = 1000



N.J. Knowles & J. Wadsworth, 11 May 2007

