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|--|--|
| Serotype: O | Report date: 10/05/2007 |
| WRL Ref No: KRG/1/2006 | Reported by: N.J. Knowles |
| Sender Ref: "O" 2 nacc | Checked by: D.P. King |
| Date collected: 2006 | |
| Date received by WRLFMD: 22/03/2007 | Topotype: ME-SA |
| Date received for sequencing: 29/03/2007 | Genotype/strain: none designated |
| Species: Not known | Sequence filename: KRG06-01.SEQ |
| Material used: BTy1 | Date sequence last updated: 08/05/2007 |
| Region sequenced: VP1 | Total no. of comparisons: 1575 |
| RT-PCR primers: O-1C244F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 49 days |
| No. of ambiguities: 0 | Sequencing time: 42 days |
| Gene length: 639 | |

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/KRG/2/2006 | KRG06-02 | 639 | 639 | 0 | 100 | 0 |
| 2 | O/850/Russia/USSR/76 | USS76--C | 637 | 633 | 2 | 99.37 | 0.63 |
| 3 | O/194/Russia/USSR/58 | USS58--B | 639 | 629 | 0 | 98.44 | 1.56 |
| 4 | O/NKR/1/2007 | NKR07-01 | 639 | 596 | 0 | 93.27 | 6.73 |
| 5 | O/1311/Ukraine/USSR/84 | USS84--B | 639 | 589 | 0 | 92.18 | 7.82 |
| 6 | O/1618/Russia/USSR/66 | USS66--B | 639 | 588 | 0 | 92.02 | 7.98 |
| 7 | O/IND/R2/75* [AF204276] | IND75--A | 639 | 588 | 0 | 92.02 | 7.98 |
| 8 | O/1445/Russia/USSR/87 | USS87--E | 639 | 587 | 0 | 91.86 | 8.14 |
| 9 | O/1467/Russia/USSR/87 | USS87--G | 638 | 585 | 1 | 91.69 | 8.31 |
| 10 | O/1451/Russia/USSR/87 | USS87--F | 638 | 584 | 1 | 91.54 | 8.46 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/IND/R2/75* [AF204276] | IND75--A | 639 | 588 | 0 | 92.02 | 7.98 |
| 2 | O1/Manisa/TUR/69 (AJ251477) | TUR69--E | 639 | 582 | 0 | 91.08 | 8.92 |
| 3 | O/IND/53/79 [AF292107] | IND79A53 | 639 | 569 | 0 | 89.05 | 10.95 |
| 4 | O/TAW/2/99 | TAW99-02 | 639 | 568 | 0 | 88.89 | 11.11 |
| 5 | O/ISR/2/88 (DQ164899) | ISR88-02 | 639 | 557 | 0 | 87.17 | 12.83 |
| 6 | O/MOR/1/91 | MOR91-01 | 639 | 554 | 0 | 86.7 | 13.3 |
| 7 | O/TAI/189/87* [TRRL] | TAI87-AC | 639 | 552 | 0 | 86.38 | 13.62 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 517 | 2 | 81.16 | 18.84 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 510 | 0 | 79.81 | 20.19 |
| 10 | O/PHI/5/95 (DQ164946) | PHI95-05 | 639 | 507 | 0 | 79.34 | 20.66 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: KRG/2/2006
Sender Ref: "O" 26.02.07
Date collected: 2006
Date received by WRLFMD: 22/03/2007
Date received for sequencing: 29/03/2007
Species: Not known
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C244F/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: KRG06-02.SEQ
Date sequence last updated: 08/05/2007
Total no. of comparisons: 1575
Min. no. of nt for comparison: 300
Total turn-around time: 49 days
Sequencing time: 42 days

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
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| 1 | O/KRG/1/2006 | KRG06-01 | 639 | 639 | 0 | 100 | 0 |
| 2 | O/850/Russia/USSR/76 | USS76--C | 637 | 633 | 2 | 99.37 | 0.63 |
| 3 | O/194/Russia/USSR/58 | USS58--B | 639 | 629 | 0 | 98.44 | 1.56 |
| 4 | O/NKR/1/2007 | NKR07-01 | 639 | 596 | 0 | 93.27 | 6.73 |
| 5 | O/1311/Ukraine/USSR/84 | USS84--B | 639 | 589 | 0 | 92.18 | 7.82 |
| 6 | O/1618/Russia/USSR/66 | USS66--B | 639 | 588 | 0 | 92.02 | 7.98 |
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| 8 | O/1445/Russia/USSR/87 | USS87--E | 639 | 587 | 0 | 91.86 | 8.14 |
| 9 | O/1467/Russia/USSR/87 | USS87--G | 638 | 585 | 1 | 91.69 | 8.31 |
| 10 | O/1451/Russia/USSR/87 | USS87--F | 638 | 584 | 1 | 91.54 | 8.46 |

Relationships to Reference Virus Strains

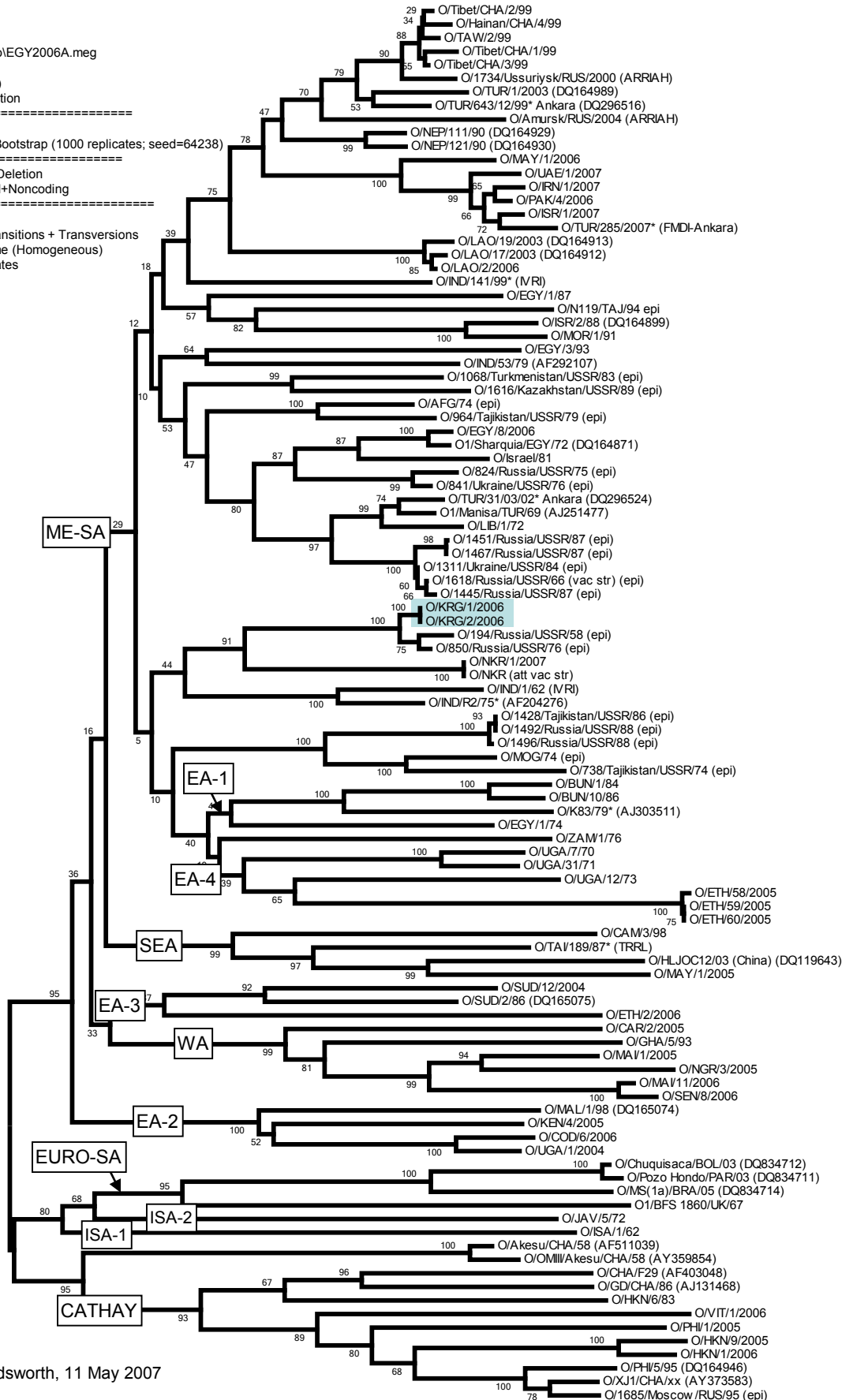
| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/IND/R2/75* [AF204276] | IND75--A | 639 | 588 | 0 | 92.02 | 7.98 |
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| 10 | O/PHI/5/95 (DQ164946) | PHI95-05 | 639 | 507 | 0 | 79.34 | 20.66 |

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV O from Kyrgyzstan 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

