

Serotype: O  
WRL Ref No: ISR/1/2007  
Sender Ref: KIMRON INS. NR. 537323  
Date collected: 01/01/2007  
Date received by WRLFMD: 12/02/2007  
Date received for sequencing: 19/02/2007  
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: 02/03/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: ISR07-01.SEQ  
Date sequence last updated: 01/03/2007  
Total no. of comparisons: 1501  
Min. no. of nt for comparison: 300  
Total turn-around time: 18 days  
Sequencing time: 11 days

Comments:

#### Ten Most Closely Related Viruses

| Pos. | Virus name    | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1    | O/ISR/3/2007  | ISR07-03 | 639             | 638            | 0                  | 99.84      | 0.16         |
| 2    | O/JOR/6/2006  | JOR06-06 | 639             | 636            | 0                  | 99.53      | 0.47         |
| 3    | O/JOR/7/2006  | JOR06-07 | 639             | 634            | 0                  | 99.22      | 0.78         |
| 4    | O/IRN/12/2006 | IRN06-12 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 5    | O/IRN/10/2006 | IRN06-10 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 6    | O/IRN/17/2006 | IRN06-17 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 7    | O/IRN/19/2006 | IRN06-19 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 8    | O/IRN/20/2006 | IRN06-20 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 9    | O/IRN/8/2006  | IRN06-08 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 10   | O/IRN/9/2006  | IRN06-09 | 639             | 632            | 0                  | 98.9       | 1.1          |

#### 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             | 603            | 0                  | 94.37      | 5.63         |
| 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             | 564            | 0                  | 88.26      | 11.74        |
| 5    | O/TAI/189/87* [TRRL]        | TAI87-AC | 639             | 556            | 0                  | 87.01      | 12.99        |
| 6    | O/ISR/2/88 (DQ164899)       | ISR88-02 | 639             | 553            | 0                  | 86.54      | 13.46        |
| 7    | O/MOR/1/91                  | MOR91-01 | 639             | 549            | 0                  | 85.92      | 14.08        |
| 8    | O/PHI/5/95 (DQ164946)       | PHI95-05 | 639             | 518            | 0                  | 81.06      | 18.94        |
| 9    | O/HKN/6/83                  | HKN83-06 | 637             | 510            | 2                  | 80.06      | 19.94        |
| 10   | O1/BFS 1860/UK/67           | UKG67--A | 639             | 507            | 0                  | 79.34      | 20.66        |

nt, nucleotides

\*, not a WRLFMD reference number

Serotype: O  
WRL Ref No: ISR/3/2007  
Sender Ref: KIMRON INS. NR. 537746  
Date collected: 03/01/2007  
Date received by WRLFMD: 12/02/2007  
Date received for sequencing: 19/02/2007  
Species: Cattle  
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: 02/03/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: ISR07-03.SEQ  
Date sequence last updated: 01/03/2007  
Total no. of comparisons: 1501  
Min. no. of nt for comparison: 300  
Total turn-around time: 18 days  
Sequencing time: 11 days

Comments:

### Ten Most Closely Related Viruses

| Pos. | Virus name    | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1    | O/ISR/1/2007  | ISR07-01 | 639             | 638            | 0                  | 99.84      | 0.16         |
| 2    | O/JOR/6/2006  | JOR06-06 | 639             | 637            | 0                  | 99.69      | 0.31         |
| 3    | O/JOR/7/2006  | JOR06-07 | 639             | 635            | 0                  | 99.37      | 0.63         |
| 4    | O/IRN/12/2006 | IRN06-12 | 639             | 634            | 0                  | 99.22      | 0.78         |
| 5    | O/IRN/10/2006 | IRN06-10 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 6    | O/IRN/17/2006 | IRN06-17 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 7    | O/IRN/19/2006 | IRN06-19 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 8    | O/IRN/20/2006 | IRN06-20 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 9    | O/IRN/8/2006  | IRN06-08 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 10   | O/IRN/9/2006  | IRN06-09 | 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             | 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/TAI/189/87* [TRRL]        | TAI87-AC | 639             | 555            | 0                  | 86.85      | 13.15        |
| 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        |
| 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           | UKG67--A | 639             | 506            | 0                  | 79.19      | 20.81        |

nt, nucleotides

\*, not a WRLFMD reference number

| Serotype: O   |                             | Report date: 02/03/2007                |                 |                |                    |            |              |
|---|-----------------------------|--|-----------------|----------------|--------------------|------------|--------------|
| WRL Ref No: ISR/5/2007                                    |                             |  |                 |                |                    |            |              |
| Sender Ref: KIMRON INS. NR. 540130                        |                             |  |                 |                |                    |            |              |
| Date collected: 24/01/2007                                |                             |  |                 |                |                    |            |              |
| Date received by WRLFMD: 12/02/2007                       |                             | Topotype: ME-SA                        |                 |                |                    |            |              |
| Date received for sequencing: 19/02/2007                  |                             | Genotype/strain: PanAsia               |                 |                |                    |            |              |
| Species: Cattle   |                             | Sequence filename: ISR07-05.SEQ        |                 |                |                    |            |              |
| Material used: BTy1                                       |                             | Date sequence last updated: 01/03/2007 |                 |                |                    |            |              |
| Region sequenced: VP1                                     |                             | Total no. of comparisons: 1501         |                 |                |                    |            |              |
| RT-PCR primers: O-1C244F/EUR-2B52R;<br>O-1C272F/EUR-2B52R |                             | Min. no. of nt for comparison: 300     |                 |                |                    |            |              |
| No. of Nt determined: 639                                 |                             | Total turn-around time: 18 days        |                 |                |                    |            |              |
| No. of ambiguities: 0                                     |                             | Sequencing time: 11 days               |                 |                |                    |            |              |
| Gene length: 639  |                             |  |                 |                |                    |            |              |
| Comments:   |                             |  |                 |                |                    |            |              |
| <b>Ten Most Closely Related Viruses</b>                   |                             |  |                 |                |                    |            |              |
| Pos.  | Virus name                  | Filename                               | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
| 1   | O/ISR/7/2007                | ISR07-07                               | 639             | 638            | 0                  | 99.84      | 0.16         |
| 2   | O/ISR/9/2007                | ISR07-09                               | 639             | 638            | 0                  | 99.84      | 0.16         |
| 3   | O/JOR/6/2006                | JOR06-06                               | 639             | 634            | 0                  | 99.22      | 0.78         |
| 4   | O/ISR/3/2007                | ISR07-03                               | 639             | 632            | 0                  | 98.9       | 1.1          |
| 5   | O/JOR/7/2006                | JOR06-07                               | 639             | 632            | 0                  | 98.9       | 1.1          |
| 6   | O/IRN/12/2006               | IRN06-12                               | 639             | 631            | 0                  | 98.75      | 1.25         |
| 7   | O/IRN/24/2006               | IRN06-24                               | 639             | 631            | 0                  | 98.75      | 1.25         |
| 8   | O/ISR/1/2007                | ISR07-01                               | 639             | 631            | 0                  | 98.75      | 1.25         |
| 9   | O/IRN/10/2006               | IRN06-10                               | 639             | 630            | 0                  | 98.59      | 1.41         |
| 10  | O/IRN/17/2006               | IRN06-17                               | 639             | 630            | 0                  | 98.59      | 1.41         |
| <b>Relationships to Reference Virus Strains</b>           |                             |  |                 |                |                    |            |              |
| Pos.  | Virus name                  | Filename                               | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
| 1   | O/TAW/2/99                  | TAW99-02                               | 639             | 599            | 0                  | 93.74      | 6.26         |
| 2   | O/IND/53/79 [AF292107]      | IND79A53                               | 639             | 568            | 0                  | 88.89      | 11.11        |
| 3   | O/IND/R2/75* [AF204276]     | IND75--A                               | 639             | 562            | 0                  | 87.95      | 12.05        |
| 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             | 549            | 0                  | 85.92      | 14.08        |
| 7   | O/MOR/1/91                  | MOR91-01                               | 639             | 545            | 0                  | 85.29      | 14.71        |
| 8   | O/PHI/5/95 (DQ164946)       | PHI95-05                               | 639             | 516            | 0                  | 80.75      | 19.25        |
| 9   | O/HKN/6/83                  | HKN83-06                               | 637             | 506            | 2                  | 79.43      | 20.57        |
| 10  | O1/BFS 1860/UK/67           | UKG67--A                               | 639             | 507            | 0                  | 79.34      | 20.66        |
| nt, nucleotides   |                             |  |                 |                |                    |            |              |
| *, not a WRLFMD reference number                          |                             |  |                 |                |                    |            |              |

Serotype: O  
WRL Ref No: ISR/7/2007  
Sender Ref: KIMRON INS. NR. 540430  
Date collected: 26/01/2007  
Date received by WRLFMD: 12/02/2007  
Date received for sequencing: 19/02/2007  
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: 02/03/2007  
Topotype: ME-SA  
Genotype/strain: PanAsia  
Sequence filename: ISR07-07.SEQ  
Date sequence last updated: 01/03/2007  
Total no. of comparisons: 1501  
Min. no. of nt for comparison: 300  
Total turn-around time: 18 days  
Sequencing time: 11 days

Comments:

### Ten Most Closely Related Viruses

| Pos. | Virus name    | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1    | O/ISR/9/2007  | ISR07-09 | 639             | 639            | 0                  | 100        | 0            |
| 2    | O/ISR/5/2007  | ISR07-05 | 639             | 638            | 0                  | 99.84      | 0.16         |
| 3    | O/JOR/6/2006  | JOR06-06 | 639             | 635            | 0                  | 99.37      | 0.63         |
| 4    | O/ISR/3/2007  | ISR07-03 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 5    | O/JOR/7/2006  | JOR06-07 | 639             | 633            | 0                  | 99.06      | 0.94         |
| 6    | O/IRN/12/2006 | IRN06-12 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 7    | O/IRN/24/2006 | IRN06-24 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 8    | O/ISR/1/2007  | ISR07-01 | 639             | 632            | 0                  | 98.9       | 1.1          |
| 9    | O/IRN/10/2006 | IRN06-10 | 639             | 631            | 0                  | 98.75      | 1.25         |
| 10   | O/IRN/17/2006 | IRN06-17 | 639             | 631            | 0                  | 98.75      | 1.25         |

### Relationships to Reference Virus Strains

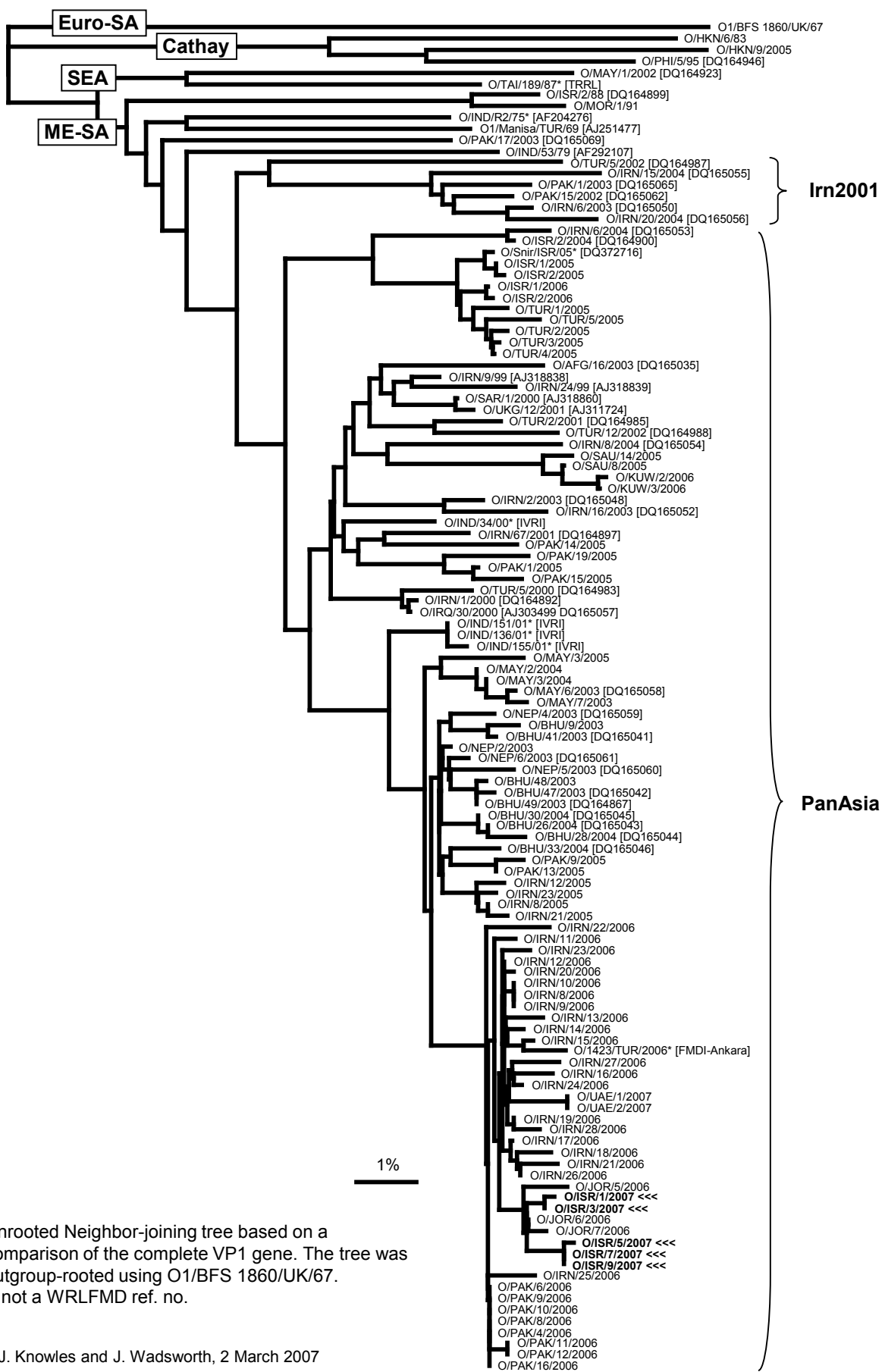
| Pos. | Virus name                  | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1    | O/TAW/2/99                  | TAW99-02 | 639             | 600            | 0                  | 93.9       | 6.1          |
| 2    | O/IND/53/79 [AF292107]      | IND79A53 | 639             | 569            | 0                  | 89.05      | 10.95        |
| 3    | O/IND/R2/75* [AF204276]     | IND75--A | 639             | 563            | 0                  | 88.11      | 11.89        |
| 4    | O1/Manisa/TUR/69 (AJ251477) | TUR69--E | 639             | 561            | 0                  | 87.79      | 12.21        |
| 5    | O/TAI/189/87* [TRRL]        | TAI87-AC | 639             | 557            | 0                  | 87.17      | 12.83        |
| 6    | O/ISR/2/88 (DQ164899)       | ISR88-02 | 639             | 550            | 0                  | 86.07      | 13.93        |
| 7    | O/MOR/1/91                  | MOR91-01 | 639             | 546            | 0                  | 85.45      | 14.55        |
| 8    | O/PHI/5/95 (DQ164946)       | PHI95-05 | 639             | 517            | 0                  | 80.91      | 19.09        |
| 9    | O/HKN/6/83                  | HKN83-06 | 637             | 507            | 2                  | 79.59      | 20.41        |
| 10   | O1/BFS 1860/UK/67           | UKG67--A | 639             | 508            | 0                  | 79.5       | 20.5         |

nt, nucleotides

\*, not a WRLFMD reference number

| Serotype: O   |                             | Report date: 02/03/2007                |                 |                |                    |            |              |
|---|-----------------------------|--|-----------------|----------------|--------------------|------------|--------------|
| WRL Ref No: ISR/9/2007                                    |                             |  |                 |                |                    |            |              |
| Sender Ref: KIMRON INS. NR. 540421                        |                             |  |                 |                |                    |            |              |
| Date collected: 27/01/2007                                |                             |  |                 |                |                    |            |              |
| Date received by WRLFMD: 12/02/2007                       |                             | Topotype: ME-SA                        |                 |                |                    |            |              |
| Date received for sequencing: 19/02/2007                  |                             | Genotype/strain: PanAsia               |                 |                |                    |            |              |
| Species: Cattle   |                             | Sequence filename: ISR07-09.SEQ        |                 |                |                    |            |              |
| Material used: BTy1                                       |                             | Date sequence last updated: 01/03/2007 |                 |                |                    |            |              |
| Region sequenced: VP1                                     |                             | Total no. of comparisons: 1501         |                 |                |                    |            |              |
| RT-PCR primers: O-1C244F/EUR-2B52R;<br>O-1C272F/EUR-2B52R |                             | Min. no. of nt for comparison: 300     |                 |                |                    |            |              |
| No. of Nt determined: 639                                 |                             | Total turn-around time: 18 days        |                 |                |                    |            |              |
| No. of ambiguities: 0                                     |                             | Sequencing time: 11 days               |                 |                |                    |            |              |
| Gene length: 639  |                             |  |                 |                |                    |            |              |
| Comments:   |                             |  |                 |                |                    |            |              |
| <b>Ten Most Closely Related Viruses</b>                   |                             |  |                 |                |                    |            |              |
| Pos.  | Virus name                  | Filename                               | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
| 1   | O/ISR/7/2007                | ISR07-07                               | 639             | 639            | 0                  | 100        | 0            |
| 2   | O/ISR/5/2007                | ISR07-05                               | 639             | 638            | 0                  | 99.84      | 0.16         |
| 3   | O/JOR/6/2006                | JOR06-06                               | 639             | 635            | 0                  | 99.37      | 0.63         |
| 4   | O/ISR/3/2007                | ISR07-03                               | 639             | 633            | 0                  | 99.06      | 0.94         |
| 5   | O/JOR/7/2006                | JOR06-07                               | 639             | 633            | 0                  | 99.06      | 0.94         |
| 6   | O/IRN/12/2006               | IRN06-12                               | 639             | 632            | 0                  | 98.9       | 1.1          |
| 7   | O/IRN/24/2006               | IRN06-24                               | 639             | 632            | 0                  | 98.9       | 1.1          |
| 8   | O/ISR/1/2007                | ISR07-01                               | 639             | 632            | 0                  | 98.9       | 1.1          |
| 9   | O/IRN/10/2006               | IRN06-10                               | 639             | 631            | 0                  | 98.75      | 1.25         |
| 10  | O/IRN/17/2006               | IRN06-17                               | 639             | 631            | 0                  | 98.75      | 1.25         |
| <b>Relationships to Reference Virus Strains</b>           |                             |  |                 |                |                    |            |              |
| Pos.  | Virus name                  | Filename                               | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
| 1   | O/TAW/2/99                  | TAW99-02                               | 639             | 600            | 0                  | 93.9       | 6.1          |
| 2   | O/IND/53/79 [AF292107]      | IND79A53                               | 639             | 569            | 0                  | 89.05      | 10.95        |
| 3   | O/IND/R2/75* [AF204276]     | IND75--A                               | 639             | 563            | 0                  | 88.11      | 11.89        |
| 4   | O1/Manisa/TUR/69 (AJ251477) | TUR69--E                               | 639             | 561            | 0                  | 87.79      | 12.21        |
| 5   | O/TAI/189/87* [TRRL]        | TAI87-AC                               | 639             | 557            | 0                  | 87.17      | 12.83        |
| 6   | O/ISR/2/88 (DQ164899)       | ISR88-02                               | 639             | 550            | 0                  | 86.07      | 13.93        |
| 7   | O/MOR/1/91                  | MOR91-01                               | 639             | 546            | 0                  | 85.45      | 14.55        |
| 8   | O/PHI/5/95 (DQ164946)       | PHI95-05                               | 639             | 517            | 0                  | 80.91      | 19.09        |
| 9   | O/HKN/6/83                  | HKN83-06                               | 637             | 507            | 2                  | 79.59      | 20.41        |
| 10  | O1/BFS 1860/UK/67           | UKG67--A                               | 639             | 508            | 0                  | 79.5       | 20.5         |
| nt, nucleotides   |                             |  |                 |                |                    |            |              |
| *, not a WRLFMD reference number                          |                             |  |                 |                |                    |            |              |

# Report on O/Israel/2007



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67.  
\*, not a WRLFMD ref. no.