

Serotype: O
WRL Ref No: UGA/1/2004
Date collected: 20/01/2004
Date received: 06/08/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 10/09/2004
Topotype: EA-2
Genotype/strain: none
Sequence filename: UGA04-01.SEQ
Date sequence last updated: 03/09/2004
Total no. of comparisons: 1442

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/UGA/3/2004 | UGA04-03 | 639 | 636 | 0 | 99.53 | 0.47 |
| 2 | O/UGA/18/2004 | UGA04-18 | 639 | 635 | 0 | 99.37 | 0.63 |
| 3 | O/UGA/8/2004 | UGA04-08 | 639 | 633 | 0 | 99.06 | 0.94 |
| 4 | O/UGA/5/2004 | UGA04-05 | 639 | 633 | 0 | 99.06 | 0.94 |
| 5 | O/UGA/7/2004 | UGA04-07 | 639 | 633 | 0 | 99.06 | 0.94 |
| 6 | O/UGA/6/2004 | UGA04-06 | 639 | 632 | 0 | 98.9 | 1.10 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 627 | 0 | 98.12 | 1.88 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 558 | 4 | 95.06 | 4.94 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 464 | 1 | 94.89 | 5.11 |
| 10 | O/UGA/3/2002 | UGA02-03 | 638 | 605 | 1 | 94.83 | 5.17 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 544 | 0 | 85.13 | 14.87 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 544 | 0 | 85.13 | 14.87 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 542 | 0 | 84.82 | 15.18 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 538 | 0 | 84.19 | 15.81 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 522 | 0 | 81.69 | 18.31 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 515 | 2 | 80.85 | 19.15 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 513 | 0 | 80.28 | 19.72 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 409 | 6 | 79.26 | 20.74 |

nt, nucleotides

*, not a WRLFMD reference number

| | |
|-------------------------------|--|
| Serotype: O | Report date: 10/09/2004 |
| WRL Ref No: UGA/3/2004 | |
| Date collected: 20/01/2004 | Topotype: EA-2 |
| Date received: 06/08/2004 | Genotype/strain: none |
| Species: Bovine | Sequence filename: UGA04-03.SEQ |
| Material used: BTy2 | Date sequence last updated: 01/09/2004 |
| Region sequenced: VP1 | Total no. of comparisons: 1442 |
| RT-PCR primers: O-1C272F/NK61 | |
| No. of Nt determined: 639 | |
| No. of ambiguities: 0 | |
| 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/UGA/1/2004 | UGA04-01 | 639 | 636 | 0 | 99.53 | 0.47 |
| 2 | O/UGA/18/2004 | UGA04-18 | 639 | 634 | 0 | 99.22 | 0.78 |
| 3 | O/UGA/8/2004 | UGA04-08 | 639 | 632 | 0 | 98.9 | 1.1 |
| 4 | O/UGA/5/2004 | UGA04-05 | 639 | 632 | 0 | 98.9 | 1.1 |
| 5 | O/UGA/7/2004 | UGA04-07 | 639 | 632 | 0 | 98.9 | 1.1 |
| 6 | O/UGA/6/2004 | UGA04-06 | 639 | 631 | 0 | 98.75 | 1.25 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 626 | 0 | 97.97 | 2.03 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 559 | 4 | 95.23 | 4.77 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 464 | 1 | 94.89 | 5.11 |
| 10 | UG 11/02/O (Onderstepoort) | UGA02-AB | 495 | 469 | 0 | 94.75 | 5.25 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 544 | 0 | 85.13 | 14.87 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 544 | 0 | 85.13 | 14.87 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 542 | 0 | 84.82 | 15.18 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 538 | 0 | 84.19 | 15.81 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 522 | 0 | 81.69 | 18.31 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 515 | 2 | 80.85 | 19.15 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 514 | 0 | 80.44 | 19.56 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 410 | 6 | 79.46 | 20.54 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: UGA/4/2004
Date collected: 04/02/2004
Date received: 06/08/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 10/09/2004
Topotype: EA-2
Genotype/strain: none
Sequence filename: UGA04-04.SEQ
Date sequence last updated: 03/09/2004
Total no. of comparisons: 1442

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/UGA/18/2004 | UGA04-18 | 639 | 629 | 0 | 98.44 | 1.56 |
| 2 | O/UGA/5/2004 | UGA04-05 | 639 | 629 | 0 | 98.44 | 1.56 |
| 3 | O/UGA/8/2004 | UGA04-08 | 639 | 629 | 0 | 98.44 | 1.56 |
| 4 | O/UGA/7/2004 | UGA04-07 | 639 | 629 | 0 | 98.44 | 1.56 |
| 5 | O/UGA/6/2004 | UGA04-06 | 639 | 628 | 0 | 98.28 | 1.72 |
| 6 | O/UGA/1/2004 | UGA04-01 | 639 | 627 | 0 | 98.12 | 1.88 |
| 7 | O/UGA/3/2004 | UGA04-03 | 639 | 626 | 0 | 97.97 | 2.03 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 558 | 4 | 95.06 | 4.94 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 464 | 1 | 94.89 | 5.11 |
| 10 | O/UGA/3/2002 | UGA02-03 | 638 | 605 | 1 | 94.83 | 5.17 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 548 | 0 | 85.76 | 14.24 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 546 | 0 | 85.45 | 14.55 |
| 5 | O1/Manisa/TUR/69 | TUR69--E | 639 | 541 | 0 | 84.66 | 15.34 |
| 6 | O/TAW/2/99 | TAW99-02 | 639 | 540 | 0 | 84.51 | 15.49 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 524 | 0 | 82 | 18 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 518 | 2 | 81.32 | 18.68 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 512 | 0 | 80.13 | 19.87 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 413 | 6 | 80.04 | 19.96 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: UGA/5/2004
Date collected: 12/02/2004
Date received: 06/08/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 10/09/2004
Topotype: EA-2
Genotype/strain: none
Sequence filename: UGA04-05.SEQ
Date sequence last updated: 03/09/2004
Total no. of comparisons: 1442

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/UGA/8/2004 | UGA04-08 | 639 | 639 | 0 | 100 | 0 |
| 2 | O/UGA/7/2004 | UGA04-07 | 639 | 639 | 0 | 100 | 0 |
| 3 | O/UGA/6/2004 | UGA04-06 | 639 | 638 | 0 | 99.84 | 0.16 |
| 4 | O/UGA/18/2004 | UGA04-18 | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | O/UGA/1/2004 | UGA04-01 | 639 | 633 | 0 | 99.06 | 0.94 |
| 6 | O/UGA/3/2004 | UGA04-03 | 639 | 632 | 0 | 98.9 | 1.1 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 629 | 0 | 98.44 | 1.56 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 562 | 4 | 95.74 | 4.26 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 466 | 1 | 95.3 | 4.7 |
| 10 | UG 11/02/O (Onderstepoort) | UGA02-AB | 495 | 471 | 0 | 95.15 | 4.85 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 545 | 0 | 85.29 | 14.71 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 545 | 0 | 85.29 | 14.71 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 542 | 0 | 84.82 | 15.18 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 538 | 0 | 84.19 | 15.81 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 523 | 0 | 81.85 | 18.15 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 511 | 2 | 80.22 | 19.78 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 511 | 0 | 79.97 | 20.03 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 408 | 6 | 79.07 | 20.93 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: UGA/6/2004
Date collected: 12/02/2004
Date received: 06/08/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 10/09/2004
Topotype: EA-2
Genotype/strain: none
Sequence filename: UGA04-06.SEQ
Date sequence last updated: 03/09/2004
Total no. of comparisons: 1442

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/UGA/5/2004 | UGA04-05 | 639 | 638 | 0 | 99.84 | 0.16 |
| 2 | O/UGA/7/2004 | UGA04-07 | 639 | 638 | 0 | 99.84 | 0.16 |
| 3 | O/UGA/8/2004 | UGA04-08 | 639 | 638 | 0 | 99.84 | 0.16 |
| 4 | O/UGA/18/2004 | UGA04-18 | 639 | 634 | 0 | 99.22 | 0.78 |
| 5 | O/UGA/1/2004 | UGA04-01 | 639 | 632 | 0 | 98.9 | 1.1 |
| 6 | O/UGA/3/2004 | UGA04-03 | 639 | 631 | 0 | 98.75 | 1.25 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 628 | 0 | 98.28 | 1.72 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 561 | 4 | 95.57 | 4.43 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 465 | 1 | 95.09 | 4.91 |
| 10 | O/UGA/3/2002 | UGA02-03 | 638 | 606 | 1 | 94.98 | 5.02 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 546 | 0 | 85.45 | 14.55 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 546 | 0 | 85.45 | 14.55 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 543 | 0 | 84.98 | 15.02 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 539 | 0 | 84.35 | 15.65 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 522 | 0 | 81.69 | 18.31 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 511 | 2 | 80.22 | 19.78 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 512 | 0 | 80.13 | 19.87 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 408 | 6 | 79.07 | 20.93 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
WRL Ref No: UGA/7/2004
Date collected: 12/02/2004
Date received: 06/08/2004
Species: Bovine
Material used: BTy1
Region sequenced: VP1
RT-PCR primers: O-1C272F/NK61
No. of Nt determined: 639
No. of ambiguities: 0
Gene length: 639

Report date: 10/09/2004

Topotype: EA-2

Genotype/strain: none

Sequence filename: UGA04-07.SEQ

Date sequence last updated: 03/09/2004

Total no. of comparisons: 1442

Comments:

Ten Most Closely Related Viruses

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|----------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/UGA/5/2004 | UGA04-05 | 639 | 639 | 0 | 100 | 0 |
| 2 | O/UGA/8/2004 | UGA04-08 | 639 | 639 | 0 | 100 | 0 |
| 3 | O/UGA/6/2004 | UGA04-06 | 639 | 638 | 0 | 99.84 | 0.16 |
| 4 | O/UGA/18/2004 | UGA04-18 | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | O/UGA/1/2004 | UGA04-01 | 639 | 633 | 0 | 99.06 | 0.94 |
| 6 | O/UGA/3/2004 | UGA04-03 | 639 | 632 | 0 | 98.9 | 1.1 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 629 | 0 | 98.44 | 1.56 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 562 | 4 | 95.74 | 4.26 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 466 | 1 | 95.3 | 4.7 |
| 10 | UG 11/02/O (Onderstepoort) | UGA02-AB | 495 | 471 | 0 | 95.15 | 4.85 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 545 | 0 | 85.29 | 14.71 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 545 | 0 | 85.29 | 14.71 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 542 | 0 | 84.82 | 15.18 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 538 | 0 | 84.19 | 15.81 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 523 | 0 | 81.85 | 18.15 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 511 | 2 | 80.22 | 19.78 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 511 | 0 | 79.97 | 20.03 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 408 | 6 | 79.07 | 20.93 |

nt, nucleotides

*, not a WRLFMD reference number

| | |
|-------------------------------|--|
| Serotype: O | Report date: 10/09/2004 |
| WRL Ref No: UGA/8/2004 | |
| Date collected: 12/02/2004 | Topotype: EA-2 |
| Date received: 06/08/2004 | Genotype/strain: none |
| Species: Bovine | Sequence filename: UGA04-08.SEQ |
| Material used: BTy1 | Date sequence last updated: 03/09/2004 |
| Region sequenced: VP1 | Total no. of comparisons: 1442 |
| RT-PCR primers: O-1C272F/NK61 | |
| No. of Nt determined: 639 | |
| No. of ambiguities: 0 | |
| 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/UGA/5/2004 | UGA04-05 | 639 | 639 | 0 | 100 | 0 |
| 2 | O/UGA/7/2004 | UGA04-07 | 639 | 639 | 0 | 100 | 0 |
| 3 | O/UGA/6/2004 | UGA04-06 | 639 | 638 | 0 | 99.84 | 0.16 |
| 4 | O/UGA/18/2004 | UGA04-18 | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | O/UGA/1/2004 | UGA04-01 | 639 | 633 | 0 | 99.06 | 0.94 |
| 6 | O/UGA/3/2004 | UGA04-03 | 639 | 632 | 0 | 98.9 | 1.1 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 629 | 0 | 98.44 | 1.56 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 562 | 4 | 95.74 | 4.26 |
| 9 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 466 | 1 | 95.3 | 4.7 |
| 10 | UG 11/02/O (Onderstepoort) | UGA02-AB | 495 | 471 | 0 | 95.15 | 4.85 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 181 | 3 | 87.44 | 12.56 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 167 | 5 | 86.53 | 13.47 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 545 | 0 | 85.29 | 14.71 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 545 | 0 | 85.29 | 14.71 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 542 | 0 | 84.82 | 15.18 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 538 | 0 | 84.19 | 15.81 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 523 | 0 | 81.85 | 18.15 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 511 | 2 | 80.22 | 19.78 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 511 | 0 | 79.97 | 20.03 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 408 | 6 | 79.07 | 20.93 |

nt, nucleotides

*, not a WRLFMD reference number

Serotype: O
 WRL Ref No: UGA/18/2004
 Date collected: 23/03/2004
 Date received: 06/08/2004
 Species: Bovine
 Material used: BTy1
 Region sequenced: VP1
 RT-PCR primers: O-1C272F/NK61
 No. of Nt determined: 639
 No. of ambiguities: 0
 Gene length: 639

Report date: 10/09/2004
 Topotype: EA-2
 Genotype/strain: none
 Sequence filename: UGA04-18.SEQ
 Date sequence last updated: 03/09/2004
 Total no. of comparisons: 1442

Comments:

Ten Most Closely Related Viruses

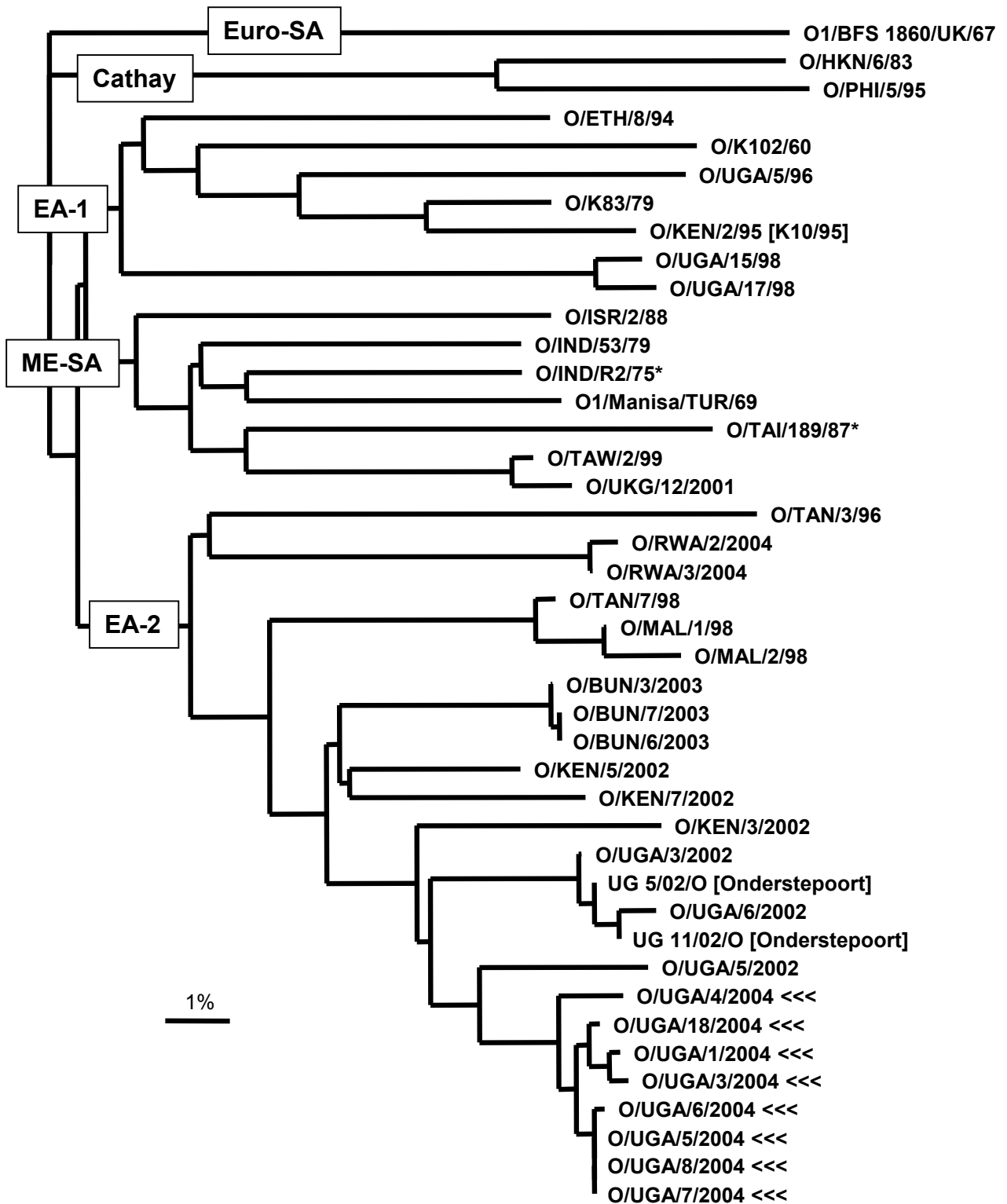
| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|---------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/UGA/8/2004 | UGA04-08 | 639 | 635 | 0 | 99.37 | 0.63 |
| 2 | O/UGA/1/2004 | UGA04-01 | 639 | 635 | 0 | 99.37 | 0.63 |
| 3 | O/UGA/5/2004 | UGA04-05 | 639 | 635 | 0 | 99.37 | 0.63 |
| 4 | O/UGA/7/2004 | UGA04-07 | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | O/UGA/6/2004 | UGA04-06 | 639 | 634 | 0 | 99.22 | 0.78 |
| 6 | O/UGA/3/2004 | UGA04-03 | 639 | 634 | 0 | 99.22 | 0.78 |
| 7 | O/UGA/4/2004 | UGA04-04 | 639 | 629 | 0 | 98.44 | 1.56 |
| 8 | O/UGA/5/2002 | UGA02-05 | 587 | 560 | 4 | 95.4 | 4.6 |
| 9 | O/UGA/3/2002 | UGA02-03 | 638 | 607 | 1 | 95.14 | 4.86 |
| 10 | UG 5/02/O (Onderstepoort) | UGA02-AA | 489 | 465 | 1 | 95.09 | 4.91 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|-------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | O/MOR/1/91 | MOR91-01 | 207 | 182 | 3 | 87.92 | 12.08 |
| 2 | O/ISR/1/88 | ISR88-01 | 193 | 168 | 5 | 87.05 | 12.95 |
| 3 | O/IND/53/79 | IND79A53 | 639 | 547 | 0 | 85.6 | 14.4 |
| 4 | O/IND/R2/75* | IND75--A | 639 | 547 | 0 | 85.6 | 14.4 |
| 5 | O/TAW/2/99 | TAW99-02 | 639 | 545 | 0 | 85.29 | 14.71 |
| 6 | O1/Manisa/TUR/69 | TUR69--E | 639 | 541 | 0 | 84.66 | 15.34 |
| 7 | O/TAI/189/87* | TAI87-AC | 639 | 525 | 0 | 82.16 | 17.84 |
| 8 | O/HKN/6/83 | HKN83-06 | 637 | 514 | 2 | 80.69 | 19.31 |
| 9 | O1/BFS 1860/UK/67 | UKG67--A | 639 | 512 | 0 | 80.13 | 19.87 |
| 10 | O/PHI/5/95 | PHI95-05 | 516 | 410 | 6 | 79.46 | 20.54 |

nt, nucleotides

*, not a WRLFMD reference number



Neighbor-joining tree showing the relationships between FMDV-O isolates from Uganda, reference strains and other field isolates.