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|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/1/2008 | Reported by: N.J. Knowles |
| Sender Ref: 11/08 | Checked by: D.P. King |
| Date collected: 10/01/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-01.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 639 | 0 | 100 | 0 |
| 2 | A/TUR/1018/2007*† | TUR07-AF | 639 | 639 | 0 | 100 | 0 |
| 3 | A/TUR/23/2008 | TUR08-23 | 639 | 638 | 0 | 99.84 | 0.16 |
| 4 | A/TUR/925/2007*† | TUR07-AD | 639 | 638 | 0 | 99.84 | 0.16 |
| 5 | A/TUR/981/2007*† | TUR07-AE | 639 | 638 | 0 | 99.84 | 0.16 |
| 6 | A/TUR/1009/2007*† | TUR07-AG | 639 | 637 | 0 | 99.69 | 0.31 |
| 7 | A/TUR/12/2008 | TUR08-12 | 639 | 637 | 0 | 99.69 | 0.31 |
| 8 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 636 | 0 | 99.53 | 0.47 |
| 9 | A/TUR/18/2008 | TUR08-18 | 639 | 636 | 0 | 99.53 | 0.47 |
| 10 | A/Sivas/TUR/145/2008*† | TUR08-AG | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 615 | 0 | 96.24 | 3.76 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 544 | 0 | 85.53 | 14.47 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 544 | 0 | 85.53 | 14.47 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 534 | 0 | 83.96 | 16.04 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 534 | 0 | 83.57 | 16.43 |
| 7 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 531 | 0 | 83.49 | 16.51 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 533 | 0 | 83.41 | 16.59 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 528 | 1 | 82.76 | 17.24 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 510 | 0 | 79.81 | 20.19 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

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|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/2/2008 | Reported by: N.J. Knowles |
| Sender Ref: 12/08 | Checked by: D.P. King |
| Date collected: 11/01/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-02.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/13/2008 | TUR08-13 | 639 | 637 | 0 | 99.69 | 0.31 |
| 2 | A/Samsun/TUR/100/2008*† | TUR08-AE | 639 | 636 | 0 | 99.53 | 0.47 |
| 3 | A/TUR/1009/2007*† | TUR07-AG | 639 | 636 | 0 | 99.53 | 0.47 |
| 4 | A/TUR/17/2008 | TUR08-17 | 639 | 636 | 0 | 99.53 | 0.47 |
| 5 | A/TUR/23/2008 | TUR08-23 | 639 | 635 | 0 | 99.37 | 0.63 |
| 6 | A/TUR/925/2007*† | TUR07-AD | 639 | 635 | 0 | 99.37 | 0.63 |
| 7 | A/TUR/981/2007*† | TUR07-AE | 639 | 635 | 0 | 99.37 | 0.63 |
| 8 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 634 | 0 | 99.22 | 0.78 |
| 9 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 634 | 0 | 99.22 | 0.78 |
| 10 | A/TUR/1/2008 | TUR08-01 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 612 | 0 | 95.77 | 4.23 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 543 | 0 | 85.38 | 14.62 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 534 | 0 | 83.96 | 16.04 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 532 | 0 | 83.65 | 16.35 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 532 | 0 | 83.26 | 16.74 |
| 7 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 531 | 0 | 83.1 | 16.9 |
| 8 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 527 | 0 | 82.86 | 17.14 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 526 | 1 | 82.45 | 17.55 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 510 | 0 | 79.81 | 20.19 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

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|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/3/2008 | Reported by: N.J. Knowles |
| Sender Ref: 14/08 | Checked by: D.P. King |
| Date collected: 14/01/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-03.SEQ |
| Material used: BTy2 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/1009/2007*† | TUR07-AG | 639 | 635 | 0 | 99.37 | 0.63 |
| 2 | A/TUR/925/2007*† | TUR07-AD | 639 | 634 | 0 | 99.22 | 0.78 |
| 3 | A/TUR/981/2007*† | TUR07-AE | 639 | 634 | 0 | 99.22 | 0.78 |
| 4 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 633 | 0 | 99.06 | 0.94 |
| 5 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 633 | 0 | 99.06 | 0.94 |
| 6 | A/TUR/1/2008 | TUR08-01 | 639 | 633 | 0 | 99.06 | 0.94 |
| 7 | A/TUR/1018/2007*† | TUR07-AF | 639 | 633 | 0 | 99.06 | 0.94 |
| 8 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 632 | 0 | 98.9 | 1.1 |
| 9 | A/Sivas/TUR/130/2008*† | TUR08-AF | 639 | 632 | 0 | 98.9 | 1.1 |
| 10 | A/TUR/13/2008 | TUR08-13 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 611 | 0 | 95.62 | 4.38 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 544 | 0 | 85.53 | 14.47 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 542 | 0 | 85.22 | 14.78 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 533 | 0 | 83.81 | 16.19 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 532 | 0 | 83.65 | 16.35 |
| 6 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 530 | 0 | 83.33 | 16.67 |
| 7 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 531 | 0 | 83.1 | 16.9 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 529 | 0 | 82.79 | 17.21 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 526 | 1 | 82.45 | 17.55 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 505 | 0 | 79.03 | 20.97 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

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|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/12/2008 | Reported by: N.J. Knowles |
| Sender Ref: 65/08 | Checked by: D.P. King |
| Date collected: 19/02/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-12.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 637 | 0 | 99.69 | 0.31 |
| 2 | A/TUR/1/2008 | TUR08-01 | 639 | 637 | 0 | 99.69 | 0.31 |
| 3 | A/TUR/1018/2007*† | TUR07-AF | 639 | 637 | 0 | 99.69 | 0.31 |
| 4 | A/TUR/23/2008 | TUR08-23 | 639 | 636 | 0 | 99.53 | 0.47 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 636 | 0 | 99.53 | 0.47 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 636 | 0 | 99.53 | 0.47 |
| 7 | A/TUR/1009/2007*† | TUR07-AG | 639 | 635 | 0 | 99.37 | 0.63 |
| 8 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 634 | 0 | 99.22 | 0.78 |
| 9 | A/TUR/18/2008 | TUR08-18 | 639 | 634 | 0 | 99.22 | 0.78 |
| 10 | A/Sivas/TUR/145/2008*† | TUR08-AG | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 613 | 0 | 95.93 | 4.07 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 543 | 0 | 85.38 | 14.62 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 533 | 0 | 83.81 | 16.19 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 534 | 0 | 83.57 | 16.43 |
| 7 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 530 | 0 | 83.33 | 16.67 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 531 | 0 | 83.1 | 16.9 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 527 | 1 | 82.6 | 17.4 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 509 | 0 | 79.66 | 20.34 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

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|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/13/2008 | Reported by: N.J. Knowles |
| Sender Ref: 67/08 | Checked by: D.P. King |
| Date collected: 19/02/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-13.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/2/2008 | TUR08-02 | 639 | 637 | 0 | 99.69 | 0.31 |
| 2 | A/Samsun/TUR/100/2008*† | TUR08-AE | 639 | 636 | 0 | 99.53 | 0.47 |
| 3 | A/TUR/1009/2007*† | TUR07-AG | 639 | 636 | 0 | 99.53 | 0.47 |
| 4 | A/TUR/17/2008 | TUR08-17 | 639 | 636 | 0 | 99.53 | 0.47 |
| 5 | A/TUR/23/2008 | TUR08-23 | 639 | 635 | 0 | 99.37 | 0.63 |
| 6 | A/TUR/24/2008 | TUR08-24 | 639 | 635 | 0 | 99.37 | 0.63 |
| 7 | A/TUR/925/2007*† | TUR07-AD | 639 | 635 | 0 | 99.37 | 0.63 |
| 8 | A/TUR/981/2007*† | TUR07-AE | 639 | 635 | 0 | 99.37 | 0.63 |
| 9 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 634 | 0 | 99.22 | 0.78 |
| 10 | A/Sivas/TUR/145/2008*† | TUR08-AG | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 614 | 0 | 96.09 | 3.91 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 545 | 0 | 85.69 | 14.31 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 545 | 0 | 85.69 | 14.31 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 536 | 0 | 84.28 | 15.72 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 532 | 0 | 83.26 | 16.74 |
| 7 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 529 | 0 | 83.18 | 16.82 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 531 | 0 | 83.1 | 16.9 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 528 | 1 | 82.76 | 17.24 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 510 | 0 | 79.81 | 20.19 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

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|---|--|
| Serotype: A | Report date: 11/08/2008 |
| WRL Ref No: TUR/14/2008 | Reported by: N.J. Knowles |
| Sender Ref: 76/08 | Checked by: D.P. King |
| Date collected: 28/02/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-14.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 47 days |
| No. of ambiguities: 0 | Sequencing time: 31 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 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 636 | 0 | 99.53 | 0.47 |
| 2 | A/TUR/1/2008 | TUR08-01 | 639 | 636 | 0 | 99.53 | 0.47 |
| 3 | A/TUR/1018/2007*† | TUR07-AF | 639 | 636 | 0 | 99.53 | 0.47 |
| 4 | A/TUR/23/2008 | TUR08-23 | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 635 | 0 | 99.37 | 0.63 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 635 | 0 | 99.37 | 0.63 |
| 7 | A/TUR/1009/2007*† | TUR07-AG | 639 | 634 | 0 | 99.22 | 0.78 |
| 8 | A/TUR/12/2008 | TUR08-12 | 639 | 634 | 0 | 99.22 | 0.78 |
| 9 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 633 | 0 | 99.06 | 0.94 |
| 10 | A/TUR/18/2008 | TUR08-18 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 612 | 0 | 95.77 | 4.23 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 544 | 0 | 85.53 | 14.47 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 534 | 0 | 83.96 | 16.04 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 534 | 0 | 83.57 | 16.43 |
| 7 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 531 | 0 | 83.49 | 16.51 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 533 | 0 | 83.41 | 16.59 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 528 | 1 | 82.76 | 17.24 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 510 | 0 | 79.81 | 20.19 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/17/2008 | Reported by: N.J. Knowles |
| Sender Ref: 79/08 | Checked by: D.P. King |
| Date collected: 04/03/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-17.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/13/2008 | TUR08-13 | 639 | 636 | 0 | 99.53 | 0.47 |
| 2 | A/TUR/2/2008 | TUR08-02 | 639 | 636 | 0 | 99.53 | 0.47 |
| 3 | A/Samsun/TUR/100/2008*† | TUR08-AE | 639 | 635 | 0 | 99.37 | 0.63 |
| 4 | A/TUR/1009/2007*† | TUR07-AG | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | A/TUR/23/2008 | TUR08-23 | 639 | 634 | 0 | 99.22 | 0.78 |
| 6 | A/TUR/925/2007*† | TUR07-AD | 639 | 634 | 0 | 99.22 | 0.78 |
| 7 | A/TUR/981/2007*† | TUR07-AE | 639 | 634 | 0 | 99.22 | 0.78 |
| 8 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 633 | 0 | 99.06 | 0.94 |
| 9 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 633 | 0 | 99.06 | 0.94 |
| 10 | A/TUR/1/2008 | TUR08-01 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 612 | 0 | 95.77 | 4.23 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 543 | 0 | 85.38 | 14.62 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 535 | 0 | 84.12 | 15.88 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 532 | 0 | 83.65 | 16.35 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 532 | 0 | 83.26 | 16.74 |
| 7 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 531 | 0 | 83.1 | 16.9 |
| 8 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 528 | 0 | 83.02 | 16.98 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 526 | 1 | 82.45 | 17.55 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 508 | 0 | 79.5 | 20.5 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/18/2008 | Reported by: N.J. Knowles |
| Sender Ref: 89/08 | Checked by: D.P. King |
| Date collected: 10/03/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-18.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/23/2008 | TUR08-23 | 639 | 637 | 0 | 99.69 | 0.31 |
| 2 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 636 | 0 | 99.53 | 0.47 |
| 3 | A/TUR/1/2008 | TUR08-01 | 639 | 636 | 0 | 99.53 | 0.47 |
| 4 | A/TUR/1018/2007*† | TUR07-AF | 639 | 636 | 0 | 99.53 | 0.47 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 635 | 0 | 99.37 | 0.63 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 635 | 0 | 99.37 | 0.63 |
| 7 | A/TUR/1009/2007*† | TUR07-AG | 639 | 634 | 0 | 99.22 | 0.78 |
| 8 | A/TUR/12/2008 | TUR08-12 | 639 | 634 | 0 | 99.22 | 0.78 |
| 9 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 633 | 0 | 99.06 | 0.94 |
| 10 | A/TUR/13/2008 | TUR08-13 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 612 | 0 | 95.77 | 4.23 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 541 | 0 | 85.06 | 14.94 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 541 | 0 | 85.06 | 14.94 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 533 | 0 | 83.81 | 16.19 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 531 | 0 | 83.49 | 16.51 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 532 | 0 | 83.26 | 16.74 |
| 7 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 528 | 0 | 83.02 | 16.98 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 530 | 0 | 82.94 | 17.06 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 525 | 1 | 82.29 | 17.71 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 507 | 0 | 79.34 | 20.66 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/19/2008 | Reported by: N.J. Knowles |
| Sender Ref: 86/08 | Checked by: D.P. King |
| Date collected: 11/03/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Im-05 |
| Species: Cattle | Sequence filename: TUR08-19.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/IRN/10/2005 | IRN05-10 | 639 | 618 | 0 | 96.71 | 3.29 |
| 2 | A/IRN/13/2005 | IRN05-13 | 639 | 618 | 0 | 96.71 | 3.29 |
| 3 | A/IRN/16/2005 | IRN05-16 | 639 | 618 | 0 | 96.71 | 3.29 |
| 4 | A/IRN/5/2005 | IRN05-05 | 639 | 618 | 0 | 96.71 | 3.29 |
| 5 | A/TUR/6/2006 | TUR06-06 | 639 | 618 | 0 | 96.71 | 3.29 |
| 6 | A/TUR/8/2006 | TUR06-08 | 639 | 618 | 0 | 96.71 | 3.29 |
| 7 | A/IRN/39/2005 | IRN05-39 | 639 | 617 | 0 | 96.56 | 3.44 |
| 8 | A/IRN/42/2005 | IRN05-42 | 639 | 617 | 0 | 96.56 | 3.44 |
| 9 | A/TUR/1/2006 (EU553878) | TUR06-01 | 639 | 617 | 0 | 96.56 | 3.44 |
| 10 | A/TUR/17/2006 | TUR06-17 | 639 | 617 | 0 | 96.56 | 3.44 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|--------------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 614 | 0 | 96.09 | 3.91 |
| 2 | A/SAU/41/91 | SAU91-41 | 636 | 537 | 0 | 84.43 | 15.57 |
| 3 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 4 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 531 | 0 | 83.49 | 16.51 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 530 | 0 | 83.33 | 16.67 |
| 6 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 527 | 0 | 82.47 | 17.53 |
| 7 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 525 | 1 | 82.29 | 17.71 |
| 8 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 522 | 0 | 82.08 | 17.92 |
| 9 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 522 | 0 | 81.69 | 18.31 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 508 | 0 | 79.5 | 20.5 |

nt, nucleotides

*, not a WRLFMD reference number

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/22/2008 | Reported by: N.J. Knowles |
| Sender Ref: 116/08 | Checked by: D.P. King |
| Date collected: 25/03/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-22.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/Yozgat/TUR/25/2008*† | TUR08-AA | 639 | 639 | 0 | 100 | 0 |
| 2 | A/TUR/24/2008 | TUR08-24 | 639 | 638 | 0 | 99.84 | 0.16 |
| 3 | A/TUR/1009/2007*† | TUR07-AG | 639 | 635 | 0 | 99.37 | 0.63 |
| 4 | A/TUR/13/2008 | TUR08-13 | 639 | 634 | 0 | 99.22 | 0.78 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 634 | 0 | 99.22 | 0.78 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 634 | 0 | 99.22 | 0.78 |
| 7 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 633 | 0 | 99.06 | 0.94 |
| 8 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 633 | 0 | 99.06 | 0.94 |
| 9 | A/TUR/1/2008 | TUR08-01 | 639 | 633 | 0 | 99.06 | 0.94 |
| 10 | A/TUR/1018/2007*† | TUR07-AF | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 615 | 0 | 96.24 | 3.76 |
| 2 | A/SAU/41/91 | SAU91-41 | 636 | 545 | 0 | 85.69 | 14.31 |
| 3 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 542 | 0 | 85.22 | 14.78 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 535 | 0 | 84.12 | 15.88 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 534 | 0 | 83.96 | 16.04 |
| 6 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 531 | 0 | 83.49 | 16.51 |
| 7 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 532 | 0 | 83.26 | 16.74 |
| 8 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 529 | 1 | 82.92 | 17.08 |
| 9 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 528 | 0 | 82.63 | 17.37 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 511 | 0 | 79.97 | 20.03 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/23/2008 | Reported by: N.J. Knowles |
| Sender Ref: 118/08 | Checked by: D.P. King |
| Date collected: 27/03/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-23.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 638 | 0 | 99.84 | 0.16 |
| 2 | A/TUR/1/2008 | TUR08-01 | 639 | 638 | 0 | 99.84 | 0.16 |
| 3 | A/TUR/1018/2007*† | TUR07-AF | 639 | 638 | 0 | 99.84 | 0.16 |
| 4 | A/TUR/18/2008 | TUR08-18 | 639 | 637 | 0 | 99.69 | 0.31 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 637 | 0 | 99.69 | 0.31 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 637 | 0 | 99.69 | 0.31 |
| 7 | A/TUR/1009/2007*† | TUR07-AG | 639 | 636 | 0 | 99.53 | 0.47 |
| 8 | A/TUR/12/2008 | TUR08-12 | 639 | 636 | 0 | 99.53 | 0.47 |
| 9 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 635 | 0 | 99.37 | 0.63 |
| 10 | A/TUR/13/2008 | TUR08-13 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 614 | 0 | 96.09 | 3.91 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 543 | 0 | 85.38 | 14.62 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 535 | 0 | 84.12 | 15.88 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 533 | 0 | 83.81 | 16.19 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 534 | 0 | 83.57 | 16.43 |
| 7 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 530 | 0 | 83.33 | 16.67 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 532 | 0 | 83.26 | 16.74 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 527 | 1 | 82.6 | 17.4 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 509 | 0 | 79.66 | 20.34 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/24/2008 | Reported by: N.J. Knowles |
| Sender Ref: 101/08 | Checked by: D.P. King |
| Date collected: 28/03/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-24.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/22/2008 | TUR08-22 | 639 | 638 | 0 | 99.84 | 0.16 |
| 2 | A/Yozgat/TUR/25/2008*† | TUR08-AA | 639 | 638 | 0 | 99.84 | 0.16 |
| 3 | A/TUR/1009/2007*† | TUR07-AG | 639 | 636 | 0 | 99.53 | 0.47 |
| 4 | A/TUR/13/2008 | TUR08-13 | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 635 | 0 | 99.37 | 0.63 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 635 | 0 | 99.37 | 0.63 |
| 7 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 634 | 0 | 99.22 | 0.78 |
| 8 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 634 | 0 | 99.22 | 0.78 |
| 9 | A/TUR/1/2008 | TUR08-01 | 639 | 634 | 0 | 99.22 | 0.78 |
| 10 | A/TUR/1018/2007*† | TUR07-AF | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 616 | 0 | 96.4 | 3.6 |
| 2 | A/SAU/41/91 | SAU91-41 | 636 | 545 | 0 | 85.69 | 14.31 |
| 3 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 534 | 0 | 83.96 | 16.04 |
| 6 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 531 | 0 | 83.49 | 16.51 |
| 7 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 533 | 0 | 83.41 | 16.59 |
| 8 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 529 | 0 | 82.79 | 17.21 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 528 | 1 | 82.76 | 17.24 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 512 | 0 | 80.13 | 19.87 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/28/2008 | Reported by: N.J. Knowles |
| Sender Ref: 139/08 | Checked by: D.P. King |
| Date collected: 10/04/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-28.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 636 | 0 | 99.53 | 0.47 |
| 2 | A/TUR/925/2007*† | TUR07-AD | 639 | 636 | 0 | 99.53 | 0.47 |
| 3 | A/TUR/981/2007*† | TUR07-AE | 639 | 636 | 0 | 99.53 | 0.47 |
| 4 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 635 | 0 | 99.37 | 0.63 |
| 5 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 635 | 0 | 99.37 | 0.63 |
| 6 | A/TUR/1/2008 | TUR08-01 | 639 | 635 | 0 | 99.37 | 0.63 |
| 7 | A/TUR/1009/2007*† | TUR07-AG | 639 | 635 | 0 | 99.37 | 0.63 |
| 8 | A/TUR/1018/2007*† | TUR07-AF | 639 | 635 | 0 | 99.37 | 0.63 |
| 9 | A/Sivas/TUR/130/2008*† | TUR08-AF | 639 | 634 | 0 | 99.22 | 0.78 |
| 10 | A/TUR/23/2008 | TUR08-23 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 613 | 0 | 95.93 | 4.07 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 545 | 0 | 85.69 | 14.31 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 545 | 0 | 85.69 | 14.31 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 536 | 0 | 84.28 | 15.72 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 534 | 0 | 83.96 | 16.04 |
| 6 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 533 | 0 | 83.81 | 16.19 |
| 7 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 535 | 0 | 83.72 | 16.28 |
| 8 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 535 | 0 | 83.72 | 16.28 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 528 | 1 | 82.76 | 17.24 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 509 | 0 | 79.66 | 20.34 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/29/2008 | Reported by: N.J. Knowles |
| Sender Ref: 132/08 | Checked by: D.P. King |
| Date collected: 14/04/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-29.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/13/2008 | TUR08-13 | 639 | 634 | 0 | 99.22 | 0.78 |
| 2 | A/TUR/2/2008 | TUR08-02 | 639 | 634 | 0 | 99.22 | 0.78 |
| 3 | A/TUR/23/2008 | TUR08-23 | 639 | 634 | 0 | 99.22 | 0.78 |
| 4 | A/TUR/925/2007*† | TUR07-AD | 639 | 634 | 0 | 99.22 | 0.78 |
| 5 | A/TUR/981/2007*† | TUR07-AE | 639 | 634 | 0 | 99.22 | 0.78 |
| 6 | A/Samsun/TUR/100/2008*† | TUR08-AE | 639 | 633 | 0 | 99.06 | 0.94 |
| 7 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 633 | 0 | 99.06 | 0.94 |
| 8 | A/TUR/1/2008 | TUR08-01 | 639 | 633 | 0 | 99.06 | 0.94 |
| 9 | A/TUR/1009/2007*† | TUR07-AG | 639 | 633 | 0 | 99.06 | 0.94 |
| 10 | A/TUR/1018/2007*† | TUR07-AF | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 611 | 0 | 95.62 | 4.38 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 542 | 0 | 85.22 | 14.78 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 542 | 0 | 85.22 | 14.78 |
| 4 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 534 | 0 | 83.96 | 16.04 |
| 5 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 531 | 0 | 83.49 | 16.51 |
| 6 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 531 | 0 | 83.1 | 16.9 |
| 7 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 530 | 0 | 82.94 | 17.06 |
| 8 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 527 | 0 | 82.86 | 17.14 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 525 | 1 | 82.29 | 17.71 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 507 | 0 | 79.34 | 20.66 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|---|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/32/2008 | Reported by: N.J. Knowles |
| Sender Ref: 210/08 | Checked by: D.P. King |
| Date collected: 06/06/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-32.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/Sivas/TUR/130/2008*† | TUR08-AF | 639 | 636 | 0 | 99.53 | 0.47 |
| 2 | A/Nevsehir/TUR/96/2008*† | TUR08-AD | 639 | 633 | 0 | 99.06 | 0.94 |
| 3 | A/Sivas/TUR/145/2008*† | TUR08-AG | 639 | 633 | 0 | 99.06 | 0.94 |
| 4 | A/TUR/1009/2007*† | TUR07-AG | 639 | 633 | 0 | 99.06 | 0.94 |
| 5 | A/TUR/925/2007*† | TUR07-AD | 639 | 632 | 0 | 98.9 | 1.1 |
| 6 | A/TUR/981/2007*† | TUR07-AE | 639 | 632 | 0 | 98.9 | 1.1 |
| 7 | A/Samsun/TUR/53/2008*† | TUR08-AC | 639 | 631 | 0 | 98.75 | 1.25 |
| 8 | A/TUR/1/2008 | TUR08-01 | 639 | 631 | 0 | 98.75 | 1.25 |
| 9 | A/TUR/1018/2007*† | TUR07-AF | 639 | 631 | 0 | 98.75 | 1.25 |
| 10 | A/TUR/28/2008 | TUR08-28 | 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 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 611 | 0 | 95.62 | 4.38 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 539 | 0 | 84.75 | 15.25 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 539 | 0 | 84.75 | 15.25 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 531 | 0 | 83.49 | 16.51 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 529 | 0 | 83.18 | 16.82 |
| 6 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 526 | 0 | 82.7 | 17.3 |
| 7 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 528 | 0 | 82.63 | 17.37 |
| 8 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 528 | 0 | 82.63 | 17.37 |
| 9 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 526 | 1 | 82.45 | 17.55 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 503 | 0 | 78.72 | 21.28 |

nt, nucleotides

*, not a WRLFMD reference number

†, sequenced by FMDI, Ankara

| | |
|--|--|
| Serotype: A | Report date: 08/08/2008 |
| WRL Ref No: TUR/33/2008 | Reported by: N.J. Knowles |
| Sender Ref: 212/08 | Checked by: D.P. King |
| Date collected: 12/06/2008 | |
| Date received by WRLFMD: 25/06/2008 | Topotype: ASIA |
| Date received for sequencing: 11/07/2008 | Genotype/strain: Irn-05 |
| Species: Cattle | Sequence filename: TUR08-33.SEQ |
| Material used: BTy1 | Date sequence last updated: 05/08/2008 |
| Region sequenced: VP1 | Total no. of comparisons: 957 |
| RT-PCR primers: A-1C562F/EUR-2B52R | Min. no. of nt for comparison: 300 |
| No. of Nt determined: 639 | Total turn-around time: 44 days |
| No. of ambiguities: 0 | Sequencing time: 28 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 | A/TUR/859/2007* (FMDI-Ankara) | TUR07-AC | 639 | 633 | 0 | 99.06 | 0.94 |
| 2 | A/TUR/20/2006 | TUR06-20 | 639 | 626 | 0 | 97.97 | 2.03 |
| 3 | A/TUR/1/2006 (EU553878) | TUR06-01 | 639 | 625 | 0 | 97.81 | 2.19 |
| 4 | A/TUR/3/2006 | TUR06-03 | 639 | 625 | 0 | 97.81 | 2.19 |
| 5 | A/TUR/9/2005 | TUR05-09 | 639 | 625 | 0 | 97.81 | 2.19 |
| 6 | A/Elazig/TUR/548/05* (Lindholm) | TUR05-AG | 639 | 624 | 0 | 97.65 | 2.35 |
| 7 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 624 | 0 | 97.65 | 2.35 |
| 8 | A/IRN/10/2005 | IRN05-10 | 639 | 624 | 0 | 97.65 | 2.35 |
| 9 | A/IRN/13/2005 | IRN05-13 | 639 | 624 | 0 | 97.65 | 2.35 |
| 10 | A/IRN/16/2005 | IRN05-16 | 639 | 624 | 0 | 97.65 | 2.35 |

Relationships to Reference Virus Strains

| Pos. | Virus name | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity | % Difference |
|------|--------------------------------|----------|-----------------|----------------|--------------------|------------|--------------|
| 1 | A/IRN/1/2005 (EF208769) | IRN05-01 | 639 | 624 | 0 | 97.65 | 2.35 |
| 2 | A/IRN/2/87 (EF208770) | IRN87-02 | 636 | 543 | 0 | 85.38 | 14.62 |
| 3 | A/SAU/41/91 | SAU91-41 | 636 | 543 | 0 | 85.38 | 14.62 |
| 4 | A/IRN/22/99 (EF208772) | IRN99-22 | 636 | 535 | 0 | 84.12 | 15.88 |
| 5 | A/TAI/118/87* (EF208777) | TAI87-AD | 636 | 529 | 0 | 83.18 | 16.82 |
| 6 | A/TAI/2/97 (EF208778) | TAI97-02 | 636 | 525 | 0 | 82.55 | 17.45 |
| 7 | A/SAU/23/86 (EU414536) | SAU86-23 | 639 | 526 | 0 | 82.32 | 17.68 |
| 8 | A/IRN/1/96 (EF208771) | IRN96-01 | 638 | 523 | 1 | 81.97 | 18.03 |
| 9 | A22/IRQ/24/64 (AJ251474) | IRQ64-24 | 639 | 523 | 0 | 81.85 | 18.15 |
| 10 | A24/Cruzeiro/BRA/55 (AJ251476) | BRA55--C | 639 | 509 | 0 | 79.66 | 20.34 |

nt, nucleotides

*, not a WRLFMD reference number

Report on FMDV A from Turkey in 2008 (including sequences determined at the FMDI-Ankara)

Batch: WRLFMD/2008/00020

Software: MEGA 4.0
 No. of Taxa : 172
 Data File : n:\evd\meg\db\fmv\laTUR2008b.meg
 Data Title : Turkey 2008
 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 : 645
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, K. Ebert & J. Wadsworth, 11 August 2008

