

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

Serotype: A WRL Ref No: none Sender Ref: A/Balikesir/1045/2007 Date collected: 2007 Date received by WRLFMD: 12/02/2009 Date received for sequencing: 12/02/2009 Species: not known Material used: not known Region sequenced: VP1 RT-PCR primers: not known No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 12/02/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Irn-05 Sequence filename: TUR07-AH.SEQ Date sequence last updated: 12/02/2009 Total no. of comparisons: 993 Min. no. of nt for comparison: 300 Total turn-around time: 0 days Sequencing time: 0 days																																																																																								
Comments:																																																																																									
Ten Most Closely Related Viruses																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Pos.</th> <th style="text-align: left;">Virus name</th> <th style="text-align: left;">Filename</th> <th style="text-align: center;">No. nt compared</th> <th style="text-align: center;">No. nt matched</th> <th style="text-align: center;">No. of ambiguities</th> <th style="text-align: center;">% Identity</th> <th style="text-align: center;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>A/TUR/859/2007* (FMDI-Ankara)</td><td>TUR07-AC</td><td style="text-align: center;">639</td><td style="text-align: center;">637</td><td style="text-align: center;">0</td><td style="text-align: center;">99.69</td><td style="text-align: center;">0.31</td></tr> <tr><td>2</td><td>A/TUR/195/2008* (FMDI-Ankara)</td><td>TUR08-AH</td><td style="text-align: center;">639</td><td style="text-align: center;">633</td><td style="text-align: center;">0</td><td style="text-align: center;">99.06</td><td style="text-align: center;">0.94</td></tr> <tr><td>3</td><td>A/TUR/33/2008</td><td>TUR08-33</td><td style="text-align: center;">639</td><td style="text-align: center;">633</td><td style="text-align: center;">0</td><td style="text-align: center;">99.06</td><td style="text-align: center;">0.94</td></tr> <tr><td>4</td><td>A/TUR/20/2006</td><td>TUR06-20</td><td style="text-align: center;">639</td><td style="text-align: center;">628</td><td style="text-align: center;">0</td><td style="text-align: center;">98.28</td><td style="text-align: center;">1.72</td></tr> <tr><td>5</td><td>A/TUR/1/2006 (EU553878)</td><td>TUR06-01</td><td style="text-align: center;">639</td><td style="text-align: center;">627</td><td style="text-align: center;">0</td><td style="text-align: center;">98.12</td><td style="text-align: center;">1.88</td></tr> <tr><td>6</td><td>A/TUR/3/2006</td><td>TUR06-03</td><td style="text-align: center;">639</td><td style="text-align: center;">627</td><td style="text-align: center;">0</td><td style="text-align: center;">98.12</td><td style="text-align: center;">1.88</td></tr> <tr><td>7</td><td>A/TUR/9/2005</td><td>TUR05-09</td><td style="text-align: center;">639</td><td style="text-align: center;">627</td><td style="text-align: center;">0</td><td style="text-align: center;">98.12</td><td style="text-align: center;">1.88</td></tr> <tr><td>8</td><td>A/Elazig/TUR/548/05* (Lindholm)</td><td>TUR05-AG</td><td style="text-align: center;">639</td><td style="text-align: center;">626</td><td style="text-align: center;">0</td><td style="text-align: center;">97.97</td><td style="text-align: center;">2.03</td></tr> <tr><td>9</td><td>A/IRN/1/2005 (EF208769)</td><td>IRN05-01</td><td style="text-align: center;">639</td><td style="text-align: center;">626</td><td style="text-align: center;">0</td><td style="text-align: center;">97.97</td><td style="text-align: center;">2.03</td></tr> <tr><td>10</td><td>A/IRN/10/2005</td><td>IRN05-10</td><td style="text-align: center;">639</td><td style="text-align: center;">626</td><td style="text-align: center;">0</td><td style="text-align: center;">97.97</td><td style="text-align: center;">2.03</td></tr> </tbody> </table>		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	637	0	99.69	0.31	2	A/TUR/195/2008* (FMDI-Ankara)	TUR08-AH	639	633	0	99.06	0.94	3	A/TUR/33/2008	TUR08-33	639	633	0	99.06	0.94	4	A/TUR/20/2006	TUR06-20	639	628	0	98.28	1.72	5	A/TUR/1/2006 (EU553878)	TUR06-01	639	627	0	98.12	1.88	6	A/TUR/3/2006	TUR06-03	639	627	0	98.12	1.88	7	A/TUR/9/2005	TUR05-09	639	627	0	98.12	1.88	8	A/Elazig/TUR/548/05* (Lindholm)	TUR05-AG	639	626	0	97.97	2.03	9	A/IRN/1/2005 (EF208769)	IRN05-01	639	626	0	97.97	2.03	10	A/IRN/10/2005	IRN05-10	639	626	0	97.97	2.03
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	637	0	99.69	0.31																																																																																		
2	A/TUR/195/2008* (FMDI-Ankara)	TUR08-AH	639	633	0	99.06	0.94																																																																																		
3	A/TUR/33/2008	TUR08-33	639	633	0	99.06	0.94																																																																																		
4	A/TUR/20/2006	TUR06-20	639	628	0	98.28	1.72																																																																																		
5	A/TUR/1/2006 (EU553878)	TUR06-01	639	627	0	98.12	1.88																																																																																		
6	A/TUR/3/2006	TUR06-03	639	627	0	98.12	1.88																																																																																		
7	A/TUR/9/2005	TUR05-09	639	627	0	98.12	1.88																																																																																		
8	A/Elazig/TUR/548/05* (Lindholm)	TUR05-AG	639	626	0	97.97	2.03																																																																																		
9	A/IRN/1/2005 (EF208769)	IRN05-01	639	626	0	97.97	2.03																																																																																		
10	A/IRN/10/2005	IRN05-10	639	626	0	97.97	2.03																																																																																		
Relationships to Reference Virus Strains																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Pos.</th> <th style="text-align: left;">Virus name</th> <th style="text-align: left;">Filename</th> <th style="text-align: center;">No. nt compared</th> <th style="text-align: center;">No. nt matched</th> <th style="text-align: center;">No. of ambiguities</th> <th style="text-align: center;">% Identity</th> <th style="text-align: center;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>A/IRN/1/2005 (EF208769)</td><td>IRN05-01</td><td style="text-align: center;">639</td><td style="text-align: center;">626</td><td style="text-align: center;">0</td><td style="text-align: center;">97.97</td><td style="text-align: center;">2.03</td></tr> <tr><td>2</td><td>A/IRN/2/87 (EF208770)</td><td>IRN87-02</td><td style="text-align: center;">636</td><td style="text-align: center;">545</td><td style="text-align: center;">0</td><td style="text-align: center;">85.69</td><td style="text-align: center;">14.31</td></tr> <tr><td>3</td><td>A/SAU/41/91</td><td>SAU91-41</td><td style="text-align: center;">636</td><td style="text-align: center;">545</td><td style="text-align: center;">0</td><td style="text-align: center;">85.69</td><td style="text-align: center;">14.31</td></tr> <tr><td>4</td><td>A/IRN/22/99 (EF208772)</td><td>IRN99-22</td><td style="text-align: center;">636</td><td style="text-align: center;">536</td><td style="text-align: center;">0</td><td style="text-align: center;">84.28</td><td style="text-align: center;">15.72</td></tr> <tr><td>5</td><td>A/TAI/118/87* (EF208777)</td><td>TAI87-AD</td><td style="text-align: center;">636</td><td style="text-align: center;">531</td><td style="text-align: center;">0</td><td style="text-align: center;">83.49</td><td style="text-align: center;">16.51</td></tr> <tr><td>6</td><td>A/TAI/2/97 (EF208778)</td><td>TAI97-02</td><td style="text-align: center;">636</td><td style="text-align: center;">527</td><td style="text-align: center;">0</td><td style="text-align: center;">82.86</td><td style="text-align: center;">17.14</td></tr> <tr><td>7</td><td>A/IRN/1/96 (EF208771)</td><td>IRN96-01</td><td style="text-align: center;">638</td><td style="text-align: center;">526</td><td style="text-align: center;">1</td><td style="text-align: center;">82.45</td><td style="text-align: center;">17.55</td></tr> <tr><td>8</td><td>A/SAU/23/86 (EU414536)</td><td>SAU86-23</td><td style="text-align: center;">639</td><td style="text-align: center;">526</td><td style="text-align: center;">0</td><td style="text-align: center;">82.32</td><td style="text-align: center;">17.68</td></tr> <tr><td>9</td><td>A22/IRQ/24/64 (AJ251474)</td><td>IRQ64-24</td><td style="text-align: center;">639</td><td style="text-align: center;">525</td><td style="text-align: center;">0</td><td style="text-align: center;">82.16</td><td style="text-align: center;">17.84</td></tr> <tr><td>10</td><td>A24/Cruzeiro/BRA/55 (AJ251476)</td><td>BRA55--C</td><td style="text-align: center;">639</td><td style="text-align: center;">510</td><td style="text-align: center;">0</td><td style="text-align: center;">79.81</td><td style="text-align: center;">20.19</td></tr> </tbody> </table>		Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference	1	A/IRN/1/2005 (EF208769)	IRN05-01	639	626	0	97.97	2.03	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/IRN/22/99 (EF208772)	IRN99-22	636	536	0	84.28	15.72	5	A/TAI/118/87* (EF208777)	TAI87-AD	636	531	0	83.49	16.51	6	A/TAI/2/97 (EF208778)	TAI97-02	636	527	0	82.86	17.14	7	A/IRN/1/96 (EF208771)	IRN96-01	638	526	1	82.45	17.55	8	A/SAU/23/86 (EU414536)	SAU86-23	639	526	0	82.32	17.68	9	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	525	0	82.16	17.84	10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	510	0	79.81	20.19
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference																																																																																		
1	A/IRN/1/2005 (EF208769)	IRN05-01	639	626	0	97.97	2.03																																																																																		
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/IRN/22/99 (EF208772)	IRN99-22	636	536	0	84.28	15.72																																																																																		
5	A/TAI/118/87* (EF208777)	TAI87-AD	636	531	0	83.49	16.51																																																																																		
6	A/TAI/2/97 (EF208778)	TAI97-02	636	527	0	82.86	17.14																																																																																		
7	A/IRN/1/96 (EF208771)	IRN96-01	638	526	1	82.45	17.55																																																																																		
8	A/SAU/23/86 (EU414536)	SAU86-23	639	526	0	82.32	17.68																																																																																		
9	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	525	0	82.16	17.84																																																																																		
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	510	0	79.81	20.19																																																																																		
nt, nucleotides *, not a WRLFMD reference number																																																																																									

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

Serotype: A WRL Ref No: none Sender Ref: A/Kutahya/195/2008 Date collected: 2008 Date received by WRLFMD: 12/02/2009 Date received for sequencing: 12/02/2009 Species: not known Material used: not known Region sequenced: VP1 RT-PCR primers: not known No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 12/02/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Irn-05 Sequence filename: TUR08-AH.SEQ Date sequence last updated: 12/02/2009 Total no. of comparisons: 993 Min. no. of nt for comparison: 300 Total turn-around time: 0 days Sequencing time: 0 days																																																																																								
Comments:																																																																																									
Ten Most Closely Related Viruses																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Pos.</th> <th style="text-align: left;">Virus name</th> <th style="text-align: left;">Filename</th> <th style="text-align: center;">No. nt compared</th> <th style="text-align: center;">No. nt matched</th> <th style="text-align: center;">No. of ambiguities</th> <th style="text-align: center;">% Identity</th> <th style="text-align: center;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>A/TUR/33/2008</td><td>TUR08-33</td><td style="text-align: center;">639</td><td style="text-align: center;">635</td><td style="text-align: center;">0</td><td style="text-align: center;">99.37</td><td style="text-align: center;">0.63</td></tr> <tr><td>2</td><td>A/TUR/1045/2007* (FMDI-Ankara)</td><td>TUR07-AH</td><td style="text-align: center;">639</td><td style="text-align: center;">633</td><td style="text-align: center;">0</td><td style="text-align: center;">99.06</td><td style="text-align: center;">0.94</td></tr> <tr><td>3</td><td>A/TUR/859/2007* (FMDI-Ankara)</td><td>TUR07-AC</td><td style="text-align: center;">639</td><td style="text-align: center;">633</td><td style="text-align: center;">0</td><td style="text-align: center;">99.06</td><td style="text-align: center;">0.94</td></tr> <tr><td>4</td><td>A/TUR/12/2005</td><td>TUR05-12</td><td style="text-align: center;">639</td><td style="text-align: center;">626</td><td style="text-align: center;">0</td><td style="text-align: center;">97.97</td><td style="text-align: center;">2.03</td></tr> <tr><td>5</td><td>A/TUR/20/2006</td><td>TUR06-20</td><td style="text-align: center;">639</td><td style="text-align: center;">626</td><td style="text-align: center;">0</td><td style="text-align: center;">97.97</td><td style="text-align: center;">2.03</td></tr> <tr><td>6</td><td>A/TUR/1/2006 (EU553878)</td><td>TUR06-01</td><td style="text-align: center;">639</td><td style="text-align: center;">625</td><td style="text-align: center;">0</td><td style="text-align: center;">97.81</td><td style="text-align: center;">2.19</td></tr> <tr><td>7</td><td>A/TUR/3/2006</td><td>TUR06-03</td><td style="text-align: center;">639</td><td style="text-align: center;">625</td><td style="text-align: center;">0</td><td style="text-align: center;">97.81</td><td style="text-align: center;">2.19</td></tr> <tr><td>8</td><td>A/TUR/9/2005</td><td>TUR05-09</td><td style="text-align: center;">639</td><td style="text-align: center;">625</td><td style="text-align: center;">0</td><td style="text-align: center;">97.81</td><td style="text-align: center;">2.19</td></tr> <tr><td>9</td><td>A/Elazig/TUR/548/05* (Lindholm)</td><td>TUR05-AG</td><td style="text-align: center;">639</td><td style="text-align: center;">624</td><td style="text-align: center;">0</td><td style="text-align: center;">97.65</td><td style="text-align: center;">2.35</td></tr> <tr><td>10</td><td>A/IRN/1/2005 (EF208769)</td><td>IRN05-01</td><td style="text-align: center;">639</td><td style="text-align: center;">624</td><td style="text-align: center;">0</td><td style="text-align: center;">97.65</td><td style="text-align: center;">2.35</td></tr> </tbody> </table>		Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference	1	A/TUR/33/2008	TUR08-33	639	635	0	99.37	0.63	2	A/TUR/1045/2007* (FMDI-Ankara)	TUR07-AH	639	633	0	99.06	0.94	3	A/TUR/859/2007* (FMDI-Ankara)	TUR07-AC	639	633	0	99.06	0.94	4	A/TUR/12/2005	TUR05-12	639	626	0	97.97	2.03	5	A/TUR/20/2006	TUR06-20	639	626	0	97.97	2.03	6	A/TUR/1/2006 (EU553878)	TUR06-01	639	625	0	97.81	2.19	7	A/TUR/3/2006	TUR06-03	639	625	0	97.81	2.19	8	A/TUR/9/2005	TUR05-09	639	625	0	97.81	2.19	9	A/Elazig/TUR/548/05* (Lindholm)	TUR05-AG	639	624	0	97.65	2.35	10	A/IRN/1/2005 (EF208769)	IRN05-01	639	624	0	97.65	2.35
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference																																																																																		
1	A/TUR/33/2008	TUR08-33	639	635	0	99.37	0.63																																																																																		
2	A/TUR/1045/2007* (FMDI-Ankara)	TUR07-AH	639	633	0	99.06	0.94																																																																																		
3	A/TUR/859/2007* (FMDI-Ankara)	TUR07-AC	639	633	0	99.06	0.94																																																																																		
4	A/TUR/12/2005	TUR05-12	639	626	0	97.97	2.03																																																																																		
5	A/TUR/20/2006	TUR06-20	639	626	0	97.97	2.03																																																																																		
6	A/TUR/1/2006 (EU553878)	TUR06-01	639	625	0	97.81	2.19																																																																																		
7	A/TUR/3/2006	TUR06-03	639	625	0	97.81	2.19																																																																																		
8	A/TUR/9/2005	TUR05-09	639	625	0	97.81	2.19																																																																																		
9	A/Elazig/TUR/548/05* (Lindholm)	TUR05-AG	639	624	0	97.65	2.35																																																																																		
10	A/IRN/1/2005 (EF208769)	IRN05-01	639	624	0	97.65	2.35																																																																																		
Relationships to Reference Virus Strains																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Pos.</th> <th style="text-align: left;">Virus name</th> <th style="text-align: left;">Filename</th> <th style="text-align: center;">No. nt compared</th> <th style="text-align: center;">No. nt matched</th> <th style="text-align: center;">No. of ambiguities</th> <th style="text-align: center;">% Identity</th> <th style="text-align: center;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>A/IRN/1/2005 (EF208769)</td><td>IRN05-01</td><td style="text-align: center;">639</td><td style="text-align: center;">624</td><td style="text-align: center;">0</td><td style="text-align: center;">97.65</td><td style="text-align: center;">2.35</td></tr> <tr><td>2</td><td>A/IRN/2/87 (EF208770)</td><td>IRN87-02</td><td style="text-align: center;">636</td><td style="text-align: center;">543</td><td style="text-align: center;">0</td><td style="text-align: center;">85.38</td><td style="text-align: center;">14.62</td></tr> <tr><td>3</td><td>A/SAU/41/91</td><td>SAU91-41</td><td style="text-align: center;">636</td><td style="text-align: center;">541</td><td style="text-align: center;">0</td><td style="text-align: center;">85.06</td><td style="text-align: center;">14.94</td></tr> <tr><td>4</td><td>A/IRN/22/99 (EF208772)</td><td>IRN99-22</td><td style="text-align: center;">636</td><td style="text-align: center;">535</td><td style="text-align: center;">0</td><td style="text-align: center;">84.12</td><td style="text-align: center;">15.88</td></tr> <tr><td>5</td><td>A/TAI/118/87* (EF208777)</td><td>TAI87-AD</td><td style="text-align: center;">636</td><td style="text-align: center;">531</td><td style="text-align: center;">0</td><td style="text-align: center;">83.49</td><td style="text-align: center;">16.51</td></tr> <tr><td>6</td><td>A/TAI/2/97 (EF208778)</td><td>TAI97-02</td><td style="text-align: center;">636</td><td style="text-align: center;">527</td><td style="text-align: center;">0</td><td style="text-align: center;">82.86</td><td style="text-align: center;">17.14</td></tr> <tr><td>7</td><td>A/IRN/1/96 (EF208771)</td><td>IRN96-01</td><td style="text-align: center;">638</td><td style="text-align: center;">525</td><td style="text-align: center;">1</td><td style="text-align: center;">82.29</td><td style="text-align: center;">17.71</td></tr> <tr><td>8</td><td>A/SAU/23/86 (EU414536)</td><td>SAU86-23</td><td style="text-align: center;">639</td><td style="text-align: center;">525</td><td style="text-align: center;">0</td><td style="text-align: center;">82.16</td><td style="text-align: center;">17.84</td></tr> <tr><td>9</td><td>A22/IRQ/24/64 (AJ251474)</td><td>IRQ64-24</td><td style="text-align: center;">639</td><td style="text-align: center;">523</td><td style="text-align: center;">0</td><td style="text-align: center;">81.85</td><td style="text-align: center;">18.15</td></tr> <tr><td>10</td><td>A24/Cruzeiro/BRA/55 (AJ251476)</td><td>BRA55--C</td><td style="text-align: center;">639</td><td style="text-align: center;">509</td><td style="text-align: center;">0</td><td style="text-align: center;">79.66</td><td style="text-align: center;">20.34</td></tr> </tbody> </table>		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	541	0	85.06	14.94	4	A/IRN/22/99 (EF208772)	IRN99-22	636	535	0	84.12	15.88	5	A/TAI/118/87* (EF208777)	TAI87-AD	636	531	0	83.49	16.51	6	A/TAI/2/97 (EF208778)	TAI97-02	636	527	0	82.86	17.14	7	A/IRN/1/96 (EF208771)	IRN96-01	638	525	1	82.29	17.71	8	A/SAU/23/86 (EU414536)	SAU86-23	639	525	0	82.16	17.84	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
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	541	0	85.06	14.94																																																																																		
4	A/IRN/22/99 (EF208772)	IRN99-22	636	535	0	84.12	15.88																																																																																		
5	A/TAI/118/87* (EF208777)	TAI87-AD	636	531	0	83.49	16.51																																																																																		
6	A/TAI/2/97 (EF208778)	TAI97-02	636	527	0	82.86	17.14																																																																																		
7	A/IRN/1/96 (EF208771)	IRN96-01	638	525	1	82.29	17.71																																																																																		
8	A/SAU/23/86 (EU414536)	SAU86-23	639	525	0	82.16	17.84																																																																																		
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																																																																																									

Molecular Epidemiology Report Form

IAH-P-EP-MEG-FOR-005-1

Page 1 of 1

Serotype: A WRL Ref No: none Sender Ref: A/Burdur/6/2009 Date collected: 2009 Date received by WRLFMD: 12/02/2009 Date received for sequencing: 12/02/2009 Species: not known Material used: not known Region sequenced: VP1 RT-PCR primers: not known No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639	Report date: 12/02/2009 Reported by: N.J. Knowles Checked by: D.P. King Topotype: ASIA Genotype/strain: Irn-05 Sequence filename: TUR09-AA.SEQ Date sequence last updated: 12/02/2009 Total no. of comparisons: 993 Min. no. of nt for comparison: 300 Total turn-around time: 0 days Sequencing time: 0 days																																																																																								
Comments:																																																																																									
Ten Most Closely Related Viruses																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Pos.</th> <th style="text-align: left;">Virus name</th> <th style="text-align: left;">Filename</th> <th style="text-align: center;">No. nt compared</th> <th style="text-align: center;">No. nt matched</th> <th style="text-align: center;">No. of ambiguities</th> <th style="text-align: center;">% Identity</th> <th style="text-align: center;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>A/TUR/859/2007* (FMDI-Ankara)</td><td>TUR07-AC</td><td style="text-align: center;">639</td><td style="text-align: center;">627</td><td style="text-align: center;">0</td><td style="text-align: center;">98.12</td><td style="text-align: center;">1.88</td></tr> <tr><td>2</td><td>A/TUR/1045/2007* (FMDI-Ankara)</td><td>TUR07-AH</td><td style="text-align: center;">639</td><td style="text-align: center;">625</td><td style="text-align: center;">0</td><td style="text-align: center;">97.81</td><td style="text-align: center;">2.19</td></tr> <tr><td>3</td><td>A/TUR/195/2008* (FMDI-Ankara)</td><td>TUR08-AH</td><td style="text-align: center;">639</td><td style="text-align: center;">623</td><td style="text-align: center;">0</td><td style="text-align: center;">97.5</td><td style="text-align: center;">2.5</td></tr> <tr><td>4</td><td>A/TUR/33/2008</td><td>TUR08-33</td><td style="text-align: center;">639</td><td style="text-align: center;">623</td><td style="text-align: center;">0</td><td style="text-align: center;">97.5</td><td style="text-align: center;">2.5</td></tr> <tr><td>5</td><td>A/TUR/20/2006</td><td>TUR06-20</td><td style="text-align: center;">639</td><td style="text-align: center;">618</td><td style="text-align: center;">0</td><td style="text-align: center;">96.71</td><td style="text-align: center;">3.29</td></tr> <tr><td>6</td><td>A/IRN/31/2005</td><td>IRN05-31</td><td style="text-align: center;">639</td><td style="text-align: center;">617</td><td style="text-align: center;">0</td><td style="text-align: center;">96.56</td><td style="text-align: center;">3.44</td></tr> <tr><td>7</td><td>A/TUR/1/2006 (EU553878)</td><td>TUR06-01</td><td style="text-align: center;">639</td><td style="text-align: center;">617</td><td style="text-align: center;">0</td><td style="text-align: center;">96.56</td><td style="text-align: center;">3.44</td></tr> <tr><td>8</td><td>A/TUR/3/2006</td><td>TUR06-03</td><td style="text-align: center;">639</td><td style="text-align: center;">617</td><td style="text-align: center;">0</td><td style="text-align: center;">96.56</td><td style="text-align: center;">3.44</td></tr> <tr><td>9</td><td>A/TUR/9/2005</td><td>TUR05-09</td><td style="text-align: center;">639</td><td style="text-align: center;">617</td><td style="text-align: center;">0</td><td style="text-align: center;">96.56</td><td style="text-align: center;">3.44</td></tr> <tr><td>10</td><td>A/Elazig/TUR/548/05* (Lindholm)</td><td>TUR05-AG</td><td style="text-align: center;">639</td><td style="text-align: center;">616</td><td style="text-align: center;">0</td><td style="text-align: center;">96.4</td><td style="text-align: center;">3.6</td></tr> </tbody> </table>		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	627	0	98.12	1.88	2	A/TUR/1045/2007* (FMDI-Ankara)	TUR07-AH	639	625	0	97.81	2.19	3	A/TUR/195/2008* (FMDI-Ankara)	TUR08-AH	639	623	0	97.5	2.5	4	A/TUR/33/2008	TUR08-33	639	623	0	97.5	2.5	5	A/TUR/20/2006	TUR06-20	639	618	0	96.71	3.29	6	A/IRN/31/2005	IRN05-31	639	617	0	96.56	3.44	7	A/TUR/1/2006 (EU553878)	TUR06-01	639	617	0	96.56	3.44	8	A/TUR/3/2006	TUR06-03	639	617	0	96.56	3.44	9	A/TUR/9/2005	TUR05-09	639	617	0	96.56	3.44	10	A/Elazig/TUR/548/05* (Lindholm)	TUR05-AG	639	616	0	96.4	3.6
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	627	0	98.12	1.88																																																																																		
2	A/TUR/1045/2007* (FMDI-Ankara)	TUR07-AH	639	625	0	97.81	2.19																																																																																		
3	A/TUR/195/2008* (FMDI-Ankara)	TUR08-AH	639	623	0	97.5	2.5																																																																																		
4	A/TUR/33/2008	TUR08-33	639	623	0	97.5	2.5																																																																																		
5	A/TUR/20/2006	TUR06-20	639	618	0	96.71	3.29																																																																																		
6	A/IRN/31/2005	IRN05-31	639	617	0	96.56	3.44																																																																																		
7	A/TUR/1/2006 (EU553878)	TUR06-01	639	617	0	96.56	3.44																																																																																		
8	A/TUR/3/2006	TUR06-03	639	617	0	96.56	3.44																																																																																		
9	A/TUR/9/2005	TUR05-09	639	617	0	96.56	3.44																																																																																		
10	A/Elazig/TUR/548/05* (Lindholm)	TUR05-AG	639	616	0	96.4	3.6																																																																																		
Relationships to Reference Virus Strains																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Pos.</th> <th style="text-align: left;">Virus name</th> <th style="text-align: left;">Filename</th> <th style="text-align: center;">No. nt compared</th> <th style="text-align: center;">No. nt matched</th> <th style="text-align: center;">No. of ambiguities</th> <th style="text-align: center;">% Identity</th> <th style="text-align: center;">% Difference</th> </tr> </thead> <tbody> <tr><td>1</td><td>A/IRN/1/2005 (EF208769)</td><td>IRN05-01</td><td style="text-align: center;">639</td><td style="text-align: center;">616</td><td style="text-align: center;">0</td><td style="text-align: center;">96.4</td><td style="text-align: center;">3.6</td></tr> <tr><td>2</td><td>A/SAU/41/91</td><td>SAU91-41</td><td style="text-align: center;">636</td><td style="text-align: center;">540</td><td style="text-align: center;">0</td><td style="text-align: center;">84.91</td><td style="text-align: center;">15.09</td></tr> <tr><td>3</td><td>A/IRN/2/87 (EF208770)</td><td>IRN87-02</td><td style="text-align: center;">636</td><td style="text-align: center;">536</td><td style="text-align: center;">0</td><td style="text-align: center;">84.28</td><td style="text-align: center;">15.72</td></tr> <tr><td>4</td><td>A/IRN/22/99 (EF208772)</td><td>IRN99-22</td><td style="text-align: center;">636</td><td style="text-align: center;">536</td><td style="text-align: center;">0</td><td style="text-align: center;">84.28</td><td style="text-align: center;">15.72</td></tr> <tr><td>5</td><td>A/TAI/118/87* (EF208777)</td><td>TAI87-AD</td><td style="text-align: center;">636</td><td style="text-align: center;">534</td><td style="text-align: center;">0</td><td style="text-align: center;">83.96</td><td style="text-align: center;">16.04</td></tr> <tr><td>6</td><td>A/TAI/2/97 (EF208778)</td><td>TAI97-02</td><td style="text-align: center;">636</td><td style="text-align: center;">530</td><td style="text-align: center;">0</td><td style="text-align: center;">83.33</td><td style="text-align: center;">16.67</td></tr> <tr><td>7</td><td>A22/IRQ/24/64 (AJ251474)</td><td>IRQ64-24</td><td style="text-align: center;">639</td><td style="text-align: center;">525</td><td style="text-align: center;">0</td><td style="text-align: center;">82.16</td><td style="text-align: center;">17.84</td></tr> <tr><td>8</td><td>A/IRN/1/96 (EF208771)</td><td>IRN96-01</td><td style="text-align: center;">638</td><td style="text-align: center;">522</td><td style="text-align: center;">1</td><td style="text-align: center;">81.82</td><td style="text-align: center;">18.18</td></tr> <tr><td>9</td><td>A/SAU/23/86 (EU414536)</td><td>SAU86-23</td><td style="text-align: center;">639</td><td style="text-align: center;">522</td><td style="text-align: center;">0</td><td style="text-align: center;">81.69</td><td style="text-align: center;">18.31</td></tr> <tr><td>10</td><td>A24/Cruzeiro/BRA/55 (AJ251476)</td><td>BRA55--C</td><td style="text-align: center;">639</td><td style="text-align: center;">511</td><td style="text-align: center;">0</td><td style="text-align: center;">79.97</td><td style="text-align: center;">20.03</td></tr> </tbody> </table>		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	540	0	84.91	15.09	3	A/IRN/2/87 (EF208770)	IRN87-02	636	536	0	84.28	15.72	4	A/IRN/22/99 (EF208772)	IRN99-22	636	536	0	84.28	15.72	5	A/TAI/118/87* (EF208777)	TAI87-AD	636	534	0	83.96	16.04	6	A/TAI/2/97 (EF208778)	TAI97-02	636	530	0	83.33	16.67	7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	525	0	82.16	17.84	8	A/IRN/1/96 (EF208771)	IRN96-01	638	522	1	81.82	18.18	9	A/SAU/23/86 (EU414536)	SAU86-23	639	522	0	81.69	18.31	10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	511	0	79.97	20.03
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	540	0	84.91	15.09																																																																																		
3	A/IRN/2/87 (EF208770)	IRN87-02	636	536	0	84.28	15.72																																																																																		
4	A/IRN/22/99 (EF208772)	IRN99-22	636	536	0	84.28	15.72																																																																																		
5	A/TAI/118/87* (EF208777)	TAI87-AD	636	534	0	83.96	16.04																																																																																		
6	A/TAI/2/97 (EF208778)	TAI97-02	636	530	0	83.33	16.67																																																																																		
7	A22/IRQ/24/64 (AJ251474)	IRQ64-24	639	525	0	82.16	17.84																																																																																		
8	A/IRN/1/96 (EF208771)	IRN96-01	638	522	1	81.82	18.18																																																																																		
9	A/SAU/23/86 (EU414536)	SAU86-23	639	522	0	81.69	18.31																																																																																		
10	A24/Cruzeiro/BRA/55 (AJ251476)	BRA55--C	639	511	0	79.97	20.03																																																																																		
nt, nucleotides *, not a WRLFMD reference number																																																																																									

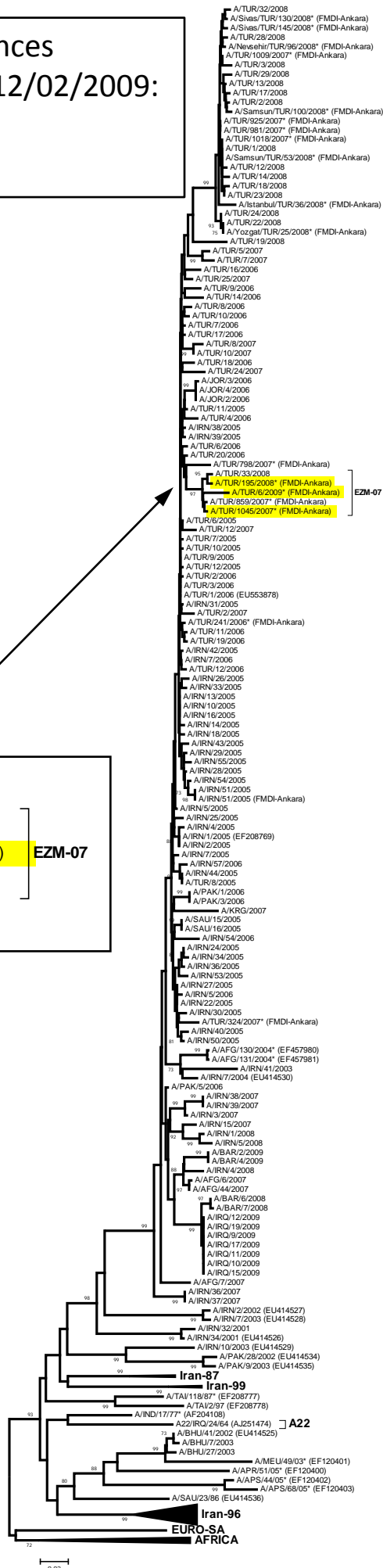
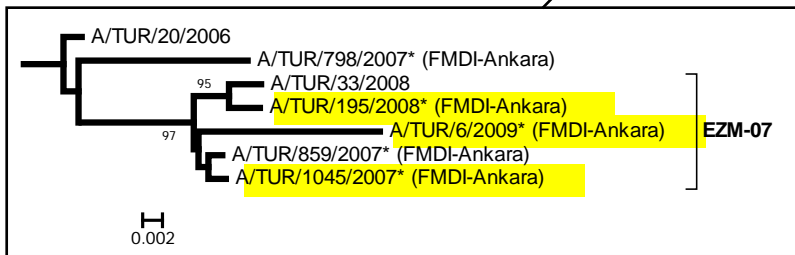
Report on 3 FMDV type A VP1 sequences received from FMDI-Ankara, Turkey, 12/02/2009:

A/Balikesir/1045/2007
 A/Kutahya/195/2008
 A/Burdur/6/2009

Software: MEGA 4.0
 No. of Taxa : 186
 Data File : n:\evd\meg\db\fmdv\atTUR2009a.meg
 Data Title : A Turkey 2007-2009
 Data Type : Nucleotide (Coding)
 Analysis : Phylogeny reconstruction
 Tree Inference : =====
 ->Method : Neighbor-Joining
 ->Phylogeny Test and options : Bootstrap (1000 replicates; seed=55037)
 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 : 642
 No Of Bootstrap Reps = 1000
 Only bootstrap values of 70% and above are shown

* , not a WRLFMD Ref. No.

N.J. Knowles & J. Wadsworth, 12 February 2009



ARD-07

E2M-07

Iran-05

ASIA