





# Molecular Epidemiology Report Form

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

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| Serotype: SAT1<br>WRL Ref No: KEN/13/2005<br>Sender Ref: K47/2005<br>Date collected: 19/07/2005<br>Date received by WRLFMD: 24/01/2006<br>Date received for sequencing: 08/02/2006<br>Species: Cattle<br>Material used: BTy1<br>Region sequenced: VP1<br>RT-PCR primers: SAT1U-OS/SAT-2B208R;<br>SAT1-1C559F/SAT-2B208R<br>No. of Nt determined: 663<br>No. of ambiguities: 0<br>Gene length: 663  | Report date: 06/10/2006<br>Reported by: N.J. Knowles<br>Checked by: D.P. King<br><br>Topotype: Northwest Zimbabwe (NWZ)<br>Genotype/strain: none designated<br>Sequence filename: KEN05-13.SEQ<br>Date sequence last updated: 28/09/2006<br>Total no. of comparisons: 285<br>Min. no. of nt for comparison: 300<br>Total turn-around time: 255 days<br>Sequencing time: 240 days |          |                 |                |                    |                |                    |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
|--|--|----------|-----------------|----------------|--------------------|----------------|--------------------|------------|--------------|---|------------------|----------|-----|-----|---|-------|-------|---|------------------------|----------|-----|-----|---|-------|-------|---|------------------|----------|-----|-----|----|-------|-------|---|------------------------|----------|-----|-----|---|-------|-------|---|-----------------------|----------|-----|-----|---|-------|-------|---|-------------------------|----------|-----|-----|---|-------|-------|---|------------------------|----------|-----|-----|---|-------|-------|---|------------------------|----------|-----|-----|---|-------|-------|---|------------------------|----------|-----|-----|---|-------|-------|----|------------------------|----------|-----|-----|---|-------|-------|
| Comments:  |  |          |                 |                |                    |                |                    |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| <b>Ten Most Closely Related Viruses</b>  |  |          |                 |                |                    |                |                    |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| <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>SAT1/KEN/31/2005</td><td>KEN05-31</td><td style="text-align: center;">663</td><td style="text-align: center;">661</td><td style="text-align: center;">0</td><td style="text-align: center;">99.7</td><td style="text-align: center;">0.3</td></tr> <tr><td>2</td><td>SAT1/KEN/17/2005</td><td>KEN05-17</td><td style="text-align: center;">663</td><td style="text-align: center;">654</td><td style="text-align: center;">0</td><td style="text-align: center;">98.64</td><td style="text-align: center;">1.36</td></tr> <tr><td>3</td><td>SAT1/KEN/32/2005</td><td>KEN05-32</td><td style="text-align: center;">663</td><td style="text-align: center;">653</td><td style="text-align: center;">0</td><td style="text-align: center;">98.49</td><td style="text-align: center;">1.51</td></tr> <tr><td>4</td><td>SAT1/KEN/19/2005</td><td>KEN05-19</td><td style="text-align: center;">663</td><td style="text-align: center;">653</td><td style="text-align: center;">0</td><td style="text-align: center;">98.49</td><td style="text-align: center;">1.51</td></tr> <tr><td>5</td><td>SAT1/KEN/5/2006</td><td>KEN06-05</td><td style="text-align: center;">663</td><td style="text-align: center;">653</td><td style="text-align: center;">0</td><td style="text-align: center;">98.49</td><td style="text-align: center;">1.51</td></tr> <tr><td>6</td><td>SAT1/KEN/18/2005</td><td>KEN05-18</td><td style="text-align: center;">663</td><td style="text-align: center;">652</td><td style="text-align: center;">0</td><td style="text-align: center;">98.34</td><td style="text-align: center;">1.66</td></tr> <tr><td>7</td><td>SAT1/KEN/24/2005</td><td>KEN05-24</td><td style="text-align: center;">663</td><td style="text-align: center;">651</td><td style="text-align: center;">0</td><td style="text-align: center;">98.19</td><td style="text-align: center;">1.81</td></tr> <tr><td>8</td><td>SAT1/KEN/16/2005</td><td>KEN05-16</td><td style="text-align: center;">663</td><td style="text-align: center;">651</td><td style="text-align: center;">0</td><td style="text-align: center;">98.19</td><td style="text-align: center;">1.81</td></tr> <tr><td>9</td><td>SAT1/KEN/9/2006</td><td>KEN06-09</td><td style="text-align: center;">663</td><td style="text-align: center;">651</td><td style="text-align: center;">0</td><td style="text-align: center;">98.19</td><td style="text-align: center;">1.81</td></tr> <tr><td>10</td><td>SAT1/KEN/10/2006</td><td>KEN06-10</td><td style="text-align: center;">663</td><td style="text-align: center;">651</td><td style="text-align: center;">0</td><td style="text-align: center;">98.19</td><td style="text-align: center;">1.81</td></tr> </tbody> </table>   |  | Pos.     | Virus name      | Filename       | No. nt compared    | No. nt matched | No. of ambiguities | % Identity | % Difference | 1 | SAT1/KEN/31/2005 | KEN05-31 | 663 | 661 | 0 | 99.7  | 0.3   | 2 | SAT1/KEN/17/2005       | KEN05-17 | 663 | 654 | 0 | 98.64 | 1.36  | 3 | SAT1/KEN/32/2005 | KEN05-32 | 663 | 653 | 0  | 98.49 | 1.51  | 4 | SAT1/KEN/19/2005       | KEN05-19 | 663 | 653 | 0 | 98.49 | 1.51  | 5 | SAT1/KEN/5/2006       | KEN06-05 | 663 | 653 | 0 | 98.49 | 1.51  | 6 | SAT1/KEN/18/2005        | KEN05-18 | 663 | 652 | 0 | 98.34 | 1.66  | 7 | SAT1/KEN/24/2005       | KEN05-24 | 663 | 651 | 0 | 98.19 | 1.81  | 8 | SAT1/KEN/16/2005       | KEN05-16 | 663 | 651 | 0 | 98.19 | 1.81  | 9 | SAT1/KEN/9/2006        | KEN06-09 | 663 | 651 | 0 | 98.19 | 1.81  | 10 | SAT1/KEN/10/2006       | KEN06-10 | 663 | 651 | 0 | 98.19 | 1.81  |
| Pos.   | Virus name   | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity     | % Difference       |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 1  | SAT1/KEN/31/2005   | KEN05-31 | 663             | 661            | 0                  | 99.7           | 0.3                |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 2  | SAT1/KEN/17/2005   | KEN05-17 | 663             | 654            | 0                  | 98.64          | 1.36               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 3  | SAT1/KEN/32/2005   | KEN05-32 | 663             | 653            | 0                  | 98.49          | 1.51               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 4  | SAT1/KEN/19/2005   | KEN05-19 | 663             | 653            | 0                  | 98.49          | 1.51               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 5  | SAT1/KEN/5/2006  | KEN06-05 | 663             | 653            | 0                  | 98.49          | 1.51               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 6  | SAT1/KEN/18/2005   | KEN05-18 | 663             | 652            | 0                  | 98.34          | 1.66               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 7  | SAT1/KEN/24/2005   | KEN05-24 | 663             | 651            | 0                  | 98.19          | 1.81               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 8  | SAT1/KEN/16/2005   | KEN05-16 | 663             | 651            | 0                  | 98.19          | 1.81               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 9  | SAT1/KEN/9/2006  | KEN06-09 | 663             | 651            | 0                  | 98.19          | 1.81               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 10   | SAT1/KEN/10/2006   | KEN06-10 | 663             | 651            | 0                  | 98.19          | 1.81               |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| <b>Relationships to Reference Virus Strains</b>  |  |          |                 |                |                    |                |                    |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
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| Pos.   | Virus name   | Filename | No. nt compared | No. nt matched | No. of ambiguities | % Identity     | % Difference       |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 1  | SAT1/T155/71   | TAN71155 | 663             | 595            | 0                  | 89.74          | 10.26              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 2  | SAT1/RV/11/37 AY593839   | RHO37-11 | 663             | 515            | 0                  | 77.68          | 22.32              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 3  | SAT1/SAR/9/81  | SAR81-09 | 629             | 486            | 11                 | 77.27          | 22.73              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 4  | SAT1/RHO/5/66 AY593846   | RHO66-05 | 663             | 510            | 0                  | 76.92          | 23.08              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 5  | SAT1/SA/2/58 AY593841  | SAR58-02 | 663             | 504            | 0                  | 76.02          | 23.98              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 6  | SAT1/SWA/40/61 AY593843  | SWA61-40 | 663             | 503            | 0                  | 75.87          | 24.13              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 7  | SAT1/SA/13/61 AY593842   | SAR61-13 | 663             | 501            | 0                  | 75.57          | 24.43              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 8  | SAT1/BOT/1/68 [Z98203]   | BOT68-B1 | 663             | 499            | 0                  | 75.26          | 24.74              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 9  | SAT1/BEC/1/48 AY593838   | BEC48-01 | 663             | 490            | 0                  | 73.91          | 26.09              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| 10   | SAT1/ISR/4/62 AY593844   | ISR62-04 | 663             | 466            | 0                  | 70.29          | 29.71              |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |
| nt, nucleotides<br>*, not a WRLFMD reference number  |  |          |                 |                |                    |                |                    |            |              |   |                  |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                  |          |     |     |    |       |       |   |                        |          |     |     |   |       |       |   |                       |          |     |     |   |       |       |   |                         |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |   |                        |          |     |     |   |       |       |    |                        |          |     |     |   |       |       |

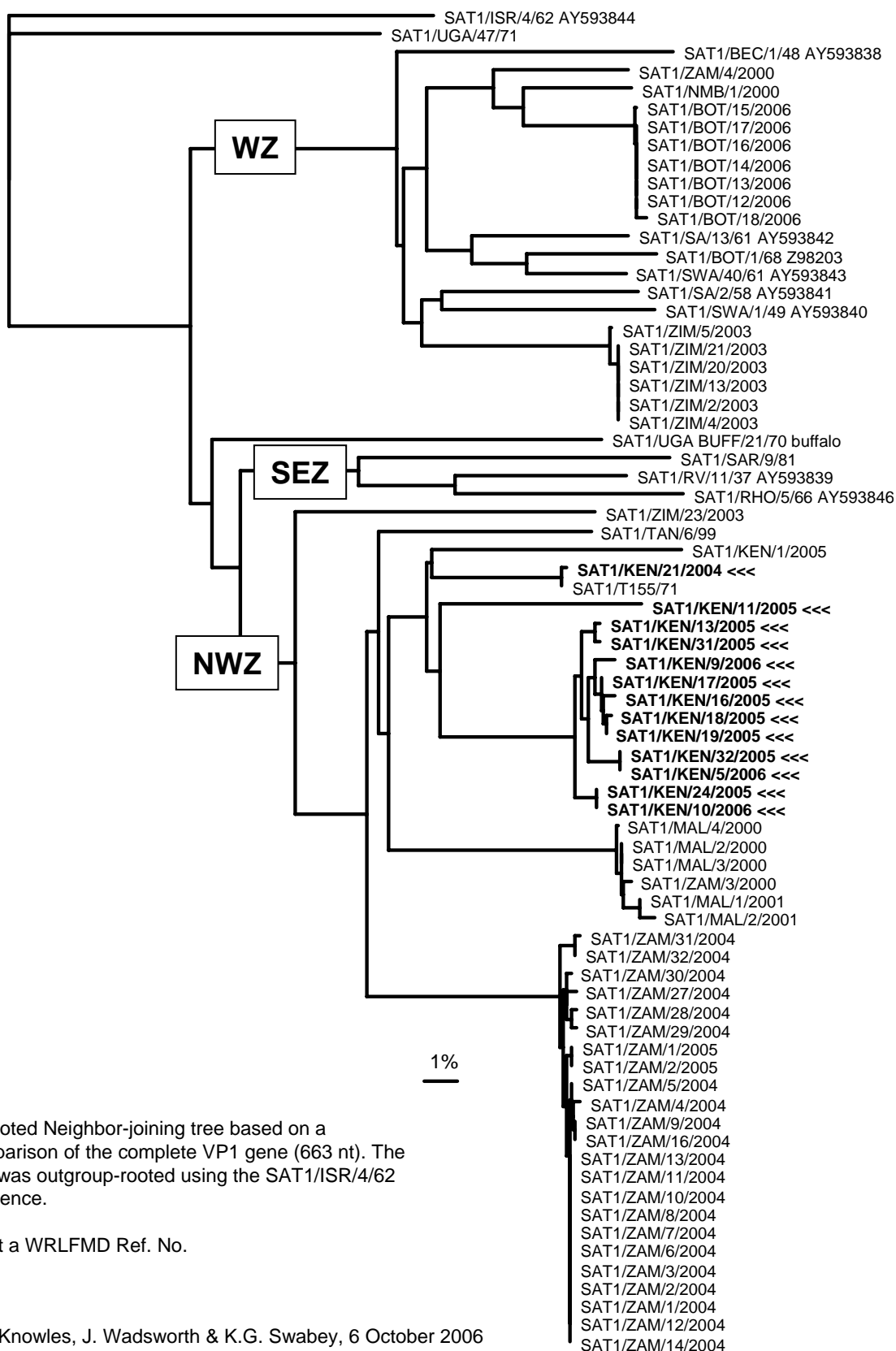








# Report on FMDV SAT 1 from Kenya, 2004-2006



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene (663 nt). The tree was outgroup-rooted using the SAT1/ISR/4/62 sequence.

\*, not a WRLFMD Ref. No.