

Molecular Epidemiology Report Form

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

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Serotype: SAT1 WRL Ref No: KEN/24/2005 Sender Ref: K28/2005 Date collected: 19/05/2005 Date received by WRLFMD: 26/05/2006 Date received for sequencing: 07/06/2006 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: SAT1-P1-1228F/SAT-2B208R No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663	Report date: 06/10/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: Northwest Zimbabwe (NWZ) Genotype/strain: none designated Sequence filename: KEN05-24.SEQ Date sequence last updated: 20/06/2006 Total no. of comparisons: 285 Min. no. of nt for comparison: 300 Total turn-around time: 133 days Sequencing time: 121 days																																																																																								
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<p>Serotype: SAT1 WRL Ref No: KEN/32/2005 Sender Ref: K59/2005 Date collected: 23/09/2005 Date received by WRLFMD: 26/05/2006 Date received for sequencing: 07/06/2006 Species: Cattle Material used: BTy2 Region sequenced: VP1 RT-PCR primers: SAT1-P1-1228F/SAT-2B208R No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663</p>	<p>Report date: 06/10/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: Northwest Zimbabwe (NWZ) Genotype/strain: none designated Sequence filename: KEN05-32.SEQ Date sequence last updated: 27/09/2006 Total no. of comparisons: 285 Min. no. of nt for comparison: 300 Total turn-around time: 133 days Sequencing time: 121 days</p>																																																																																								
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<p>Serotype: SAT1 WRL Ref No: KEN/5/2006 Sender Ref: K8/2006 Date collected: 02/02/2006 Date received by WRLFMD: 26/05/2006 Date received for sequencing: 07/06/2006 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: SAT1-P1-1228F/SAT-2B208R No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663</p>	<p>Report date: 06/10/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: Northwest Zimbabwe (NWZ) Genotype/strain: none designated Sequence filename: KEN06-05.SEQ Date sequence last updated: 27/09/2006 Total no. of comparisons: 285 Min. no. of nt for comparison: 300 Total turn-around time: 133 days Sequencing time: 121 days</p>																																																																																								
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6	SAT1/SA/13/61 AY593842	SAR61-13	663	502	0	75.72	24.28																																																																																		
7	SAT1/SWA/40/61 AY593843	SWA61-40	663	499	0	75.26	24.74																																																																																		
8	SAT1/BOT/1/68 [Z98203]	BOT68-B1	663	493	0	74.36	25.64																																																																																		
9	SAT1/BEC/1/48 AY593838	BEC48-01	663	487	0	73.45	26.55																																																																																		
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	460	0	69.38	30.62																																																																																		
nt, nucleotides *, not a WRLFMD reference number																																																																																									

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Serotype: SAT1 WRL Ref No: KEN/9/2006 Sender Ref: K21/2006 Date collected: 29/03/2006 Date received by WRLFMD: 26/05/2006 Date received for sequencing: 07/06/2006 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: SAT1-P1-1228F/SAT-2B208R No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663	Report date: 06/10/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: Northwest Zimbabwe (NWZ) Genotype/strain: none designated Sequence filename: KEN06-09.SEQ Date sequence last updated: 27/09/2006 Total no. of comparisons: 285 Min. no. of nt for comparison: 300 Total turn-around time: 133 days Sequencing time: 121 days
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Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/KEN/17/2005	KEN05-17	663	658	0	99.25	0.75
2	SAT1/KEN/19/2005	KEN05-19	663	657	0	99.1	0.9
3	SAT1/KEN/18/2005	KEN05-18	663	656	0	98.94	1.06
4	SAT1/KEN/24/2005	KEN05-24	663	655	0	98.79	1.21
5	SAT1/KEN/16/2005	KEN05-16	663	655	0	98.79	1.21
6	SAT1/KEN/10/2006	KEN06-10	663	655	0	98.79	1.21
7	SAT1/KEN/31/2005	KEN05-31	663	651	0	98.19	1.81
8	SAT1/KEN/13/2005	KEN05-13	663	651	0	98.19	1.81
9	SAT1/KEN/5/2006	KEN06-05	663	651	0	98.19	1.81
10	SAT1/KEN/32/2005	KEN05-32	663	651	0	98.19	1.81

Relationships to Reference Virus Strains

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	SAT1/T155/71	TAN71155	663	594	0	89.59	10.41
2	SAT1/RV/11/37 AY593839	RHO37-11	663	516	0	77.83	22.17
3	SAT1/SAR/9/81	SAR81-09	629	487	11	77.42	22.58
4	SAT1/RHO/5/66 AY593846	RHO66-05	663	508	0	76.62	23.38
5	SAT1/SA/2/58 AY593841	SAR58-02	663	503	0	75.87	24.13
6	SAT1/SWA/40/61 AY593843	SWA61-40	663	500	0	75.41	24.59
7	SAT1/SA/13/61 AY593842	SAR61-13	663	498	0	75.11	24.89
8	SAT1/BOT/1/68 [Z98203]	BOT68-B1	663	494	0	74.51	25.49
9	SAT1/BEC/1/48 AY593838	BEC48-01	663	487	0	73.45	26.55
10	SAT1/ISR/4/62 AY593844	ISR62-04	663	469	0	70.74	29.26

nt, nucleotides

*, not a WRLFMD reference number

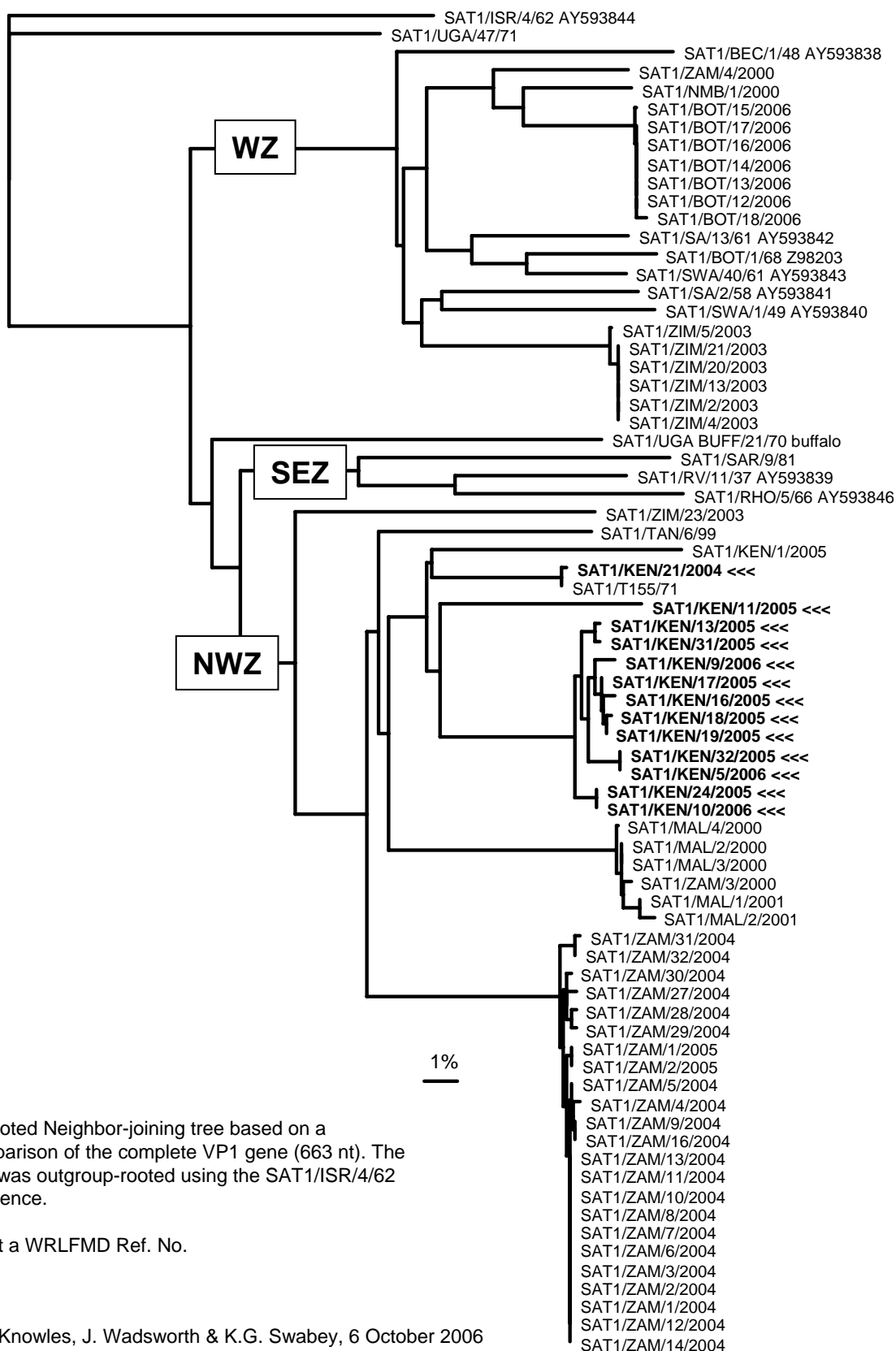
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Serotype: SAT1 WRL Ref No: KEN/10/2006 Sender Ref: K28/2006 Date collected: 09/05/2006 Date received by WRLFMD: 26/05/2006 Date received for sequencing: 07/06/2006 Species: Cattle Material used: BTy1 Region sequenced: VP1 RT-PCR primers: SAT1-P1-1228F/SAT-2B208R No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663	Report date: 06/10/2006 Reported by: N.J. Knowles Checked by: D.P. King Topotype: Northwest Zimbabwe (NWZ) Genotype/strain: none designated Sequence filename: KEN06-10.SEQ Date sequence last updated: 21/06/2006 Total no. of comparisons: 285 Min. no. of nt for comparison: 300 Total turn-around time: 133 days Sequencing time: 121 days																																																																																								
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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.