

FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Genotyping Report

Report Date for this Batch: 30 July 2015

FMDV type SAT 1
Country: Tanzania
Period: 2014
No. of samples: 29

BATCH: WRLFMD/2015/00008



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FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: SAT1 WRLFMD Ref No: TAN/11/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7572 Location: Motukeri, Tanzania Date collected: 18/08/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 28/06/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-11.SEQ Date sequence last updated: 27/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/12/2014	TAN14-12	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
3	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
4	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
5	SAT1/TAN/20/2014	TAN14-20	663	660	0	99.55	0.45	I (NWZ)	unnamed
6	SAT1/TAN/25/2014	TAN14-25	663	660	0	99.55	0.45	I (NWZ)	unnamed
7	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/30/2014	TAN14-30	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/31/2014	TAN14-31	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/32/2014	TAN14-32	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	594	0	89.59	10.41	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	508	0	76.62	23.38	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	495	0	74.66	25.34	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	476	0	71.79	28.21	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/12/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7571 Location: Motukeri, Tanzania Date collected: 18/08/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 13/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-12.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/11/2014	TAN14-11	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
3	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
4	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
5	SAT1/TAN/20/2014	TAN14-20	663	660	0	99.55	0.45	I (NWZ)	unnamed
6	SAT1/TAN/25/2014	TAN14-25	663	660	0	99.55	0.45	I (NWZ)	unnamed
7	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/30/2014	TAN14-30	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/31/2014	TAN14-31	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/32/2014	TAN14-32	663	660	0	99.55	0.45	I (NWZ)	unnamed

Most Closely Related Reference Viruses

(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)

Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	594	0	89.59	10.41	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	508	0	76.62	23.38	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	495	0	74.66	25.34	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	476	0	71.79	28.21	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/13/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7589 Location: Nyichoka, Tanzania Date collected: 24/08/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 28/06/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-13.SEQ Date sequence last updated: 28/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/11/2014	TAN14-11	663	659	0	99.40	0.60	I (NWZ)	unnamed
2	SAT1/TAN/12/2014	TAN14-12	663	659	0	99.40	0.60	I (NWZ)	unnamed
3	SAT1/TAN/17/2014	TAN14-17	663	658	0	99.25	0.75	I (NWZ)	unnamed
4	SAT1/TAN/18/2014	TAN14-18	663	658	0	99.25	0.75	I (NWZ)	unnamed
5	SAT1/TAN/19/2014	TAN14-19	663	658	0	99.25	0.75	I (NWZ)	unnamed
6	SAT1/TAN/20/2014	TAN14-20	663	658	0	99.25	0.75	I (NWZ)	unnamed
7	SAT1/TAN/25/2014	TAN14-25	663	658	0	99.25	0.75	I (NWZ)	unnamed
8	SAT1/TAN/29/2014	TAN14-29	663	658	0	99.25	0.75	I (NWZ)	unnamed
9	SAT1/TAN/30/2014	TAN14-30	663	658	0	99.25	0.75	I (NWZ)	unnamed
10	SAT1/TAN/31/2014	TAN14-31	663	658	0	99.25	0.75	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	535	0	80.69	19.31	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	516	0	77.83	22.17	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	499	0	75.26	24.74	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	497	0	74.96	25.04	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	496	0	74.81	25.19	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/14/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7592 Location: Nyichoka, Tanzania Date collected: 24/08/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 30/06/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-14.SEQ Date sequence last updated: 28/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/15/2014	TAN14-15	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/16/2014	TAN14-16	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/19/2014	TAN14-19	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/35/2014	TAN14-35	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/37/2014	TAN14-37	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/33/2014	TAN14-33	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/34/2014	TAN14-34	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	501	0	75.57	24.43	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	500	0	75.41	24.59	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	496	0	74.81	25.19	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/15/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7592 Location: Nyichoka, Tanzania Date collected: 24/08/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 07/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-15.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/14/2014	TAN14-14	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/16/2014	TAN14-16	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/19/2014	TAN14-19	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/35/2014	TAN14-35	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/37/2014	TAN14-37	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/33/2014	TAN14-33	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/34/2014	TAN14-34	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	501	0	75.57	24.43	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	500	0	75.41	24.59	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	496	0	74.81	25.19	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

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Serotype: SAT1 WRLFMD Ref No: TAN/16/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7595 Location: Nyichoka, Tanzania Date collected: 24/08/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY2 02/07/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-16.SEQ Date sequence last updated: 23/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/14/2014	TAN14-14	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/15/2014	TAN14-15	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/19/2014	TAN14-19	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/35/2014	TAN14-35	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/37/2014	TAN14-37	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/33/2014	TAN14-33	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/34/2014	TAN14-34	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	501	0	75.57	24.43	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	500	0	75.41	24.59	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	496	0	74.81	25.19	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/17/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 7713	
Location: Nyichoka, Tanzania	Topotype: I (NWZ)
Date collected: 02/09/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-17.SEQ
Date received for sequencing: 16/07/2015	Date sequence last updated: 28/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 30/06/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/18/2014	TAN14-18	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/19/2014	TAN14-19	663	661	0	99.70	0.30	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	661	0	99.70	0.30	I (NWZ)	unnamed
4	SAT1/TAN/29/2014	TAN14-29	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/30/2014	TAN14-30	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/31/2014	TAN14-31	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/32/2014	TAN14-32	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/35/2014	TAN14-35	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/37/2014	TAN14-37	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/41/2014	TAN14-41	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	595	0	89.74	10.26	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	540	0	81.45	18.55	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	508	0	76.62	23.38	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	476	0	71.79	28.21	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/18/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 9311	
Location: Nyichoka, Tanzania	Topotype: I (NWZ)
Date collected: 02/09/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-18.SEQ
Date received for sequencing: 16/07/2015	Date sequence last updated: 23/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 30/06/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/17/2014	TAN14-17	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/19/2014	TAN14-19	663	661	0	99.70	0.30	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	661	0	99.70	0.30	I (NWZ)	unnamed
4	SAT1/TAN/29/2014	TAN14-29	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/30/2014	TAN14-30	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/31/2014	TAN14-31	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/32/2014	TAN14-32	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/35/2014	TAN14-35	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/37/2014	TAN14-37	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/41/2014	TAN14-41	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	595	0	89.74	10.26	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	540	0	81.45	18.55	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	508	0	76.62	23.38	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	476	0	71.79	28.21	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/19/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7734 Location: Nyichoka, Tanzania Date collected: 03/09/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 30/06/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-19.SEQ Date sequence last updated: 23/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/35/2014	TAN14-35	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/37/2014	TAN14-37	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/14/2014	TAN14-14	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/15/2014	TAN14-15	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/16/2014	TAN14-16	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/33/2014	TAN14-33	663	662	0	99.85	0.15	I (NWZ)	unnamed
7	SAT1/TAN/34/2014	TAN14-34	663	662	0	99.85	0.15	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	662	0	99.85	0.15	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	662	0	99.85	0.15	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	593	0	89.44	10.56	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	502	0	75.72	24.28	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/20/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 7736	
Location: Nyichoka, Tanzania	Topotype: I (NWZ)
Date collected: 03/09/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-20.SEQ
Date received for sequencing: 16/07/2015	Date sequence last updated: 28/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 02/07/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/11/2014	TAN14-11	663	660	0	99.55	0.45	I (NWZ)	unnamed
2	SAT1/TAN/12/2014	TAN14-12	663	660	0	99.55	0.45	I (NWZ)	unnamed
3	SAT1/TAN/17/2014	TAN14-17	663	659	0	99.40	0.60	I (NWZ)	unnamed
4	SAT1/TAN/18/2014	TAN14-18	663	659	0	99.40	0.60	I (NWZ)	unnamed
5	SAT1/TAN/19/2014	TAN14-19	663	659	0	99.40	0.60	I (NWZ)	unnamed
6	SAT1/TAN/25/2014	TAN14-25	663	659	0	99.40	0.60	I (NWZ)	unnamed
7	SAT1/TAN/29/2014	TAN14-29	663	659	0	99.40	0.60	I (NWZ)	unnamed
8	SAT1/TAN/30/2014	TAN14-30	663	659	0	99.40	0.60	I (NWZ)	unnamed
9	SAT1/TAN/31/2014	TAN14-31	663	659	0	99.40	0.60	I (NWZ)	unnamed
10	SAT1/TAN/32/2014	TAN14-32	663	659	0	99.40	0.60	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	595	0	89.74	10.26	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	521	0	78.58	21.42	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	511	0	77.07	22.93	II (SEZ)	unnamed
5	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	502	0	75.72	24.28	III (WZ)	unnamed
6	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	502	0	75.72	24.28	IV (EA-1)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	500	0	75.41	24.59	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	477	0	71.95	28.05	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/21/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7604 Location: Nyichoka, Tanzania Date collected: 09/09/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 07/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-21.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/22/2014	TAN14-22	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/23/2014	TAN14-23	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/24/2014	TAN14-24	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/26/2014	TAN14-26	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/27/2014	TAN14-27	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	499	0	75.26	24.74	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	497	0	74.96	25.04	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	491	0	74.06	25.94	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/22/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7609 Location: Nyichoka, Tanzania Date collected: 09/09/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 14/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-22.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/21/2014	TAN14-21	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/23/2014	TAN14-23	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/24/2014	TAN14-24	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/26/2014	TAN14-26	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/27/2014	TAN14-27	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	499	0	75.26	24.74	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	497	0	74.96	25.04	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	491	0	74.06	25.94	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/23/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7609 Location: Nyichoka, Tanzania Date collected: 09/09/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 14/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-23.SEQ Date sequence last updated: 10/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/21/2014	TAN14-21	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/22/2014	TAN14-22	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/24/2014	TAN14-24	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/26/2014	TAN14-26	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/27/2014	TAN14-27	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	499	0	75.26	24.74	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	497	0	74.96	25.04	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	491	0	74.06	25.94	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	478	0	72.75	27.25	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	474	0	71.49	28.51	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/24/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7610 Location: Nyichoka, Tanzania Date collected: 09/09/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 13/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-24.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/26/2014	TAN14-26	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/27/2014	TAN14-27	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/21/2014	TAN14-21	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/22/2014	TAN14-22	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/23/2014	TAN14-23	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	498	0	75.11	24.89	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	498	0	75.11	24.89	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	492	0	74.21	25.79	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/25/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 7603	
Location: Nyichoka, Tanzania	Topotype: I (NWZ)
Date collected: 09/09/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-25.SEQ
Date received for sequencing: 16/07/2015	Date sequence last updated: 23/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 03/07/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/21/2014	TAN14-21	663	662	0	99.85	0.15	I (NWZ)	unnamed
2	SAT1/TAN/22/2014	TAN14-22	663	662	0	99.85	0.15	I (NWZ)	unnamed
3	SAT1/TAN/23/2014	TAN14-23	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/24/2014	TAN14-24	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/26/2014	TAN14-26	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/27/2014	TAN14-27	663	662	0	99.85	0.15	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	593	0	89.44	10.56	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	498	0	75.11	24.89	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	498	0	75.11	24.89	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	492	0	74.21	25.79	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/26/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7639 Location: Nyichoka, Tanzania Date collected: 09/09/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 14/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-26.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/24/2014	TAN14-24	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/27/2014	TAN14-27	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/21/2014	TAN14-21	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/22/2014	TAN14-22	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/23/2014	TAN14-23	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	498	0	75.11	24.89	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	498	0	75.11	24.89	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	492	0	74.21	25.79	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/27/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 7639	
Location: Nyichoka, Tanzania	Topotype: I (NWZ)
Date collected: 09/09/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-27.SEQ
Date received for sequencing: 28/05/2015	Date sequence last updated: 04/06/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 14/05/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1U-OS/SAT-2B208R	Total no. of comparisons: 489
	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/24/2014	TAN14-24	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/26/2014	TAN14-26	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/25/2014	TAN14-25	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/21/2014	TAN14-21	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/22/2014	TAN14-22	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/23/2014	TAN14-23	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
8	SAT1/TAN/18/2014	TAN14-18	663	660	0	99.55	0.45	I (NWZ)	unnamed
9	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
10	SAT1/TAN/29/2014	TAN14-29	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	520	0	78.43	21.57	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	498	0	75.11	24.89	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	498	0	75.11	24.89	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	492	0	74.21	25.79	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/28/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 7605	
Location: Nyichoka, Tanzania	Topotype: I (NWZ)
Date collected: 09/09/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-28.SEQ
Date received for sequencing: 16/07/2015	Date sequence last updated: 23/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 02/07/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/19/2014	TAN14-19	663	660	0	99.55	0.45	I (NWZ)	unnamed
2	SAT1/TAN/35/2014	TAN14-35	663	660	0	99.55	0.45	I (NWZ)	unnamed
3	SAT1/TAN/37/2014	TAN14-37	663	660	0	99.55	0.45	I (NWZ)	unnamed
4	SAT1/TAN/11/2014	TAN14-11	663	659	0	99.40	0.60	I (NWZ)	unnamed
5	SAT1/TAN/12/2014	TAN14-12	663	659	0	99.40	0.60	I (NWZ)	unnamed
6	SAT1/TAN/14/2014	TAN14-14	663	659	0	99.40	0.60	I (NWZ)	unnamed
7	SAT1/TAN/15/2014	TAN14-15	663	659	0	99.40	0.60	I (NWZ)	unnamed
8	SAT1/TAN/16/2014	TAN14-16	663	659	0	99.40	0.60	I (NWZ)	unnamed
9	SAT1/TAN/33/2014	TAN14-33	663	659	0	99.40	0.60	I (NWZ)	unnamed
10	SAT1/TAN/34/2014	TAN14-34	663	659	0	99.40	0.60	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	592	0	89.29	10.71	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	537	0	81.00	19.00	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	506	0	76.32	23.68	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	501	0	75.57	24.43	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	497	0	74.96	25.04	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	496	0	74.81	25.19	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/NIG/11/75 (AF431711)	NIG75-AA	660	472	0	71.52	28.48	V	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/30/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7804 Location: Bunchugu, Tanzania Date collected: 09/10/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 14/05/2015 Region sequenced: VP1 RT-PCR primers: SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-30.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 62 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/29/2014	TAN14-29	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/31/2014	TAN14-31	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/32/2014	TAN14-32	663	663	0	100.00	0.00	I (NWZ)	unnamed
4	SAT1/TAN/17/2014	TAN14-17	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/18/2014	TAN14-18	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/19/2014	TAN14-19	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/25/2014	TAN14-25	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/35/2014	TAN14-35	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/37/2014	TAN14-37	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/41/2014	TAN14-41	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	593	0	89.44	10.56	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	498	0	75.11	24.89	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	496	0	74.81	25.19	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	492	0	74.21	25.79	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	480	0	73.06	26.94	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	477	0	71.95	28.05	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/34/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 7815 Location: Rwamchanga, Tanzania Date collected: 16/10/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 02/07/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-34.SEQ Date sequence last updated: 23/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/33/2014	TAN14-33	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/19/2014	TAN14-19	663	662	0	99.85	0.15	I (NWZ)	unnamed
3	SAT1/TAN/35/2014	TAN14-35	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/37/2014	TAN14-37	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/14/2014	TAN14-14	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/15/2014	TAN14-15	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/16/2014	TAN14-16	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	594	0	89.59	10.41	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	539	0	81.30	18.70	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	503	0	75.87	24.13	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	480	0	73.06	26.94	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/35/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 8008 Location: Bonchugu, Tanzania Date collected: 07/11/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 29/06/2015 Species: Bovine Material used: BTy1 20/06/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-35.SEQ Date sequence last updated: 06/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 30 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/19/2014	TAN14-19	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/37/2014	TAN14-37	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/14/2014	TAN14-14	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/15/2014	TAN14-15	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/16/2014	TAN14-16	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/33/2014	TAN14-33	663	662	0	99.85	0.15	I (NWZ)	unnamed
7	SAT1/TAN/34/2014	TAN14-34	663	662	0	99.85	0.15	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	662	0	99.85	0.15	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	662	0	99.85	0.15	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	593	0	89.44	10.56	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	502	0	75.72	24.28	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/36/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 8010	
Location: Bonchugu, Tanzania	Topotype: I (NWZ)
Date collected: 07/11/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-36.SEQ
Date received for sequencing: 29/06/2015	Date sequence last updated: 06/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTy1 20/06/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 30 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/38/2014	TAN14-38	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/19/2014	TAN14-19	663	662	0	99.85	0.15	I (NWZ)	unnamed
3	SAT1/TAN/35/2014	TAN14-35	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/37/2014	TAN14-37	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/14/2014	TAN14-14	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/15/2014	TAN14-15	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/16/2014	TAN14-16	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/33/2014	TAN14-33	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/34/2014	TAN14-34	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	594	0	89.59	10.41	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	539	0	81.30	18.70	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	502	0	75.72	24.28	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	480	0	73.06	26.94	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/37/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 8015 Location: Bonchugu, Tanzania Date collected: 07/11/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 02/07/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-37.SEQ Date sequence last updated: 23/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/19/2014	TAN14-19	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/35/2014	TAN14-35	663	663	0	100.00	0.00	I (NWZ)	unnamed
3	SAT1/TAN/14/2014	TAN14-14	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/15/2014	TAN14-15	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/16/2014	TAN14-16	663	662	0	99.85	0.15	I (NWZ)	unnamed
6	SAT1/TAN/33/2014	TAN14-33	663	662	0	99.85	0.15	I (NWZ)	unnamed
7	SAT1/TAN/34/2014	TAN14-34	663	662	0	99.85	0.15	I (NWZ)	unnamed
8	SAT1/TAN/36/2014	TAN14-36	663	662	0	99.85	0.15	I (NWZ)	unnamed
9	SAT1/TAN/38/2014	TAN14-38	663	662	0	99.85	0.15	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	593	0	89.44	10.56	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	538	0	81.15	18.85	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	502	0	75.72	24.28	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

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Serotype: SAT1 WRLFMD Ref No: TAN/38/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 8002 Location: Bonchugu, Tanzania Date collected: 07/11/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 16/07/2015 Species: Bovine Material used: BTY1 03/07/2015 Region sequenced: VP1 RT-PCR primers: SAT1-1C559F/SAT-2B208R SAT1U-OS/SAT-2B208R	Report date: 29/07/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: I (NWZ) Genotype/strain: unnamed Sequence filename: TAN14-38.SEQ Date sequence last updated: 23/07/2015 No. of Nt determined: 663 No. of ambiguities: 0 Gene length: 663 Total no. of comparisons: 489 Min. no. of nt for comparison: 600 Total turn-around time: 90 days Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/36/2014	TAN14-36	663	663	0	100.00	0.00	I (NWZ)	unnamed
2	SAT1/TAN/19/2014	TAN14-19	663	662	0	99.85	0.15	I (NWZ)	unnamed
3	SAT1/TAN/35/2014	TAN14-35	663	662	0	99.85	0.15	I (NWZ)	unnamed
4	SAT1/TAN/37/2014	TAN14-37	663	662	0	99.85	0.15	I (NWZ)	unnamed
5	SAT1/TAN/14/2014	TAN14-14	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/15/2014	TAN14-15	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/16/2014	TAN14-16	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/33/2014	TAN14-33	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/34/2014	TAN14-34	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/17/2014	TAN14-17	663	660	0	99.55	0.45	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/T155/71 (KF561706)	TAN71155	663	594	0	89.59	10.41	I (NWZ)	unnamed
2	SAT1/ZIM/23/2003 (KF219690)	ZIM03-23	663	539	0	81.30	18.70	I (NWZ)	unnamed
3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	518	0	78.13	21.87	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	502	0	75.72	24.28	IV (EA-1)	unnamed
6	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	499	0	75.26	24.74	III (WZ)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	497	0	74.96	25.04	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	493	0	74.36	25.64	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	480	0	73.06	26.94	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.3

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FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

Page 1 of 1

Serotype: SAT1	Report date: 29/07/2015
WRLFMD Ref No: TAN/41/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 8049	
Location: Bonchugu, Tanzania	Topotype: I (NWZ)
Date collected: 08/11/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-41.SEQ
Date received for sequencing: 16/07/2015	Date sequence last updated: 23/07/2015
Species: Bovine	No. of Nt determined: 663
Material used: BTY1 04/07/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 663
RT-PCR primers: SAT1-1C559F/SAT-2B208R	Total no. of comparisons: 489
SAT1U-OS/SAT-2B208R	Min. no. of nt for comparison: 600
	Total turn-around time: 90 days
	Sequencing time: 13 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	SAT1/TAN/17/2014	TAN14-17	663	661	0	99.70	0.30	I (NWZ)	unnamed
2	SAT1/TAN/18/2014	TAN14-18	663	661	0	99.70	0.30	I (NWZ)	unnamed
3	SAT1/TAN/19/2014	TAN14-19	663	661	0	99.70	0.30	I (NWZ)	unnamed
4	SAT1/TAN/25/2014	TAN14-25	663	661	0	99.70	0.30	I (NWZ)	unnamed
5	SAT1/TAN/29/2014	TAN14-29	663	661	0	99.70	0.30	I (NWZ)	unnamed
6	SAT1/TAN/30/2014	TAN14-30	663	661	0	99.70	0.30	I (NWZ)	unnamed
7	SAT1/TAN/31/2014	TAN14-31	663	661	0	99.70	0.30	I (NWZ)	unnamed
8	SAT1/TAN/32/2014	TAN14-32	663	661	0	99.70	0.30	I (NWZ)	unnamed
9	SAT1/TAN/35/2014	TAN14-35	663	661	0	99.70	0.30	I (NWZ)	unnamed
10	SAT1/TAN/37/2014	TAN14-37	663	661	0	99.70	0.30	I (NWZ)	unnamed
Most Closely Related Reference Viruses									
(see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
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3	SAT1/RV/11/37 (AY593839)	RHO37-11	663	519	0	78.28	21.72	II (SEZ)	unnamed
4	SAT1/RHO/5/66 (AY593846)	RHO66-05	663	507	0	76.47	23.53	II (SEZ)	unnamed
5	SAT1/BEC/1/48 (AY593838)	BEC48-01	663	500	0	75.41	24.59	III (WZ)	unnamed
6	SAT1/UGA BUFF/21/70 (KF219682)	UGA70-21	663	500	0	75.41	24.59	IV (EA-1)	unnamed
7	SAT1/BOT/1/77 (KF219686)	BOT77-01	663	498	0	75.11	24.89	III (WZ)	unnamed
8	SAT1/BOT/1/68 (AY593845)	BOT68-C1	663	494	0	74.51	25.49	III (WZ)	unnamed
9	SAT1/SUD/3/76 (DQ009725)	SUD76M03	657	479	0	72.91	27.09	VI	unnamed
10	SAT1/ETH/3/2007 (FJ798154)	ETH07-03	663	475	0	71.64	28.36	IX	unnamed

nt, nucleotides

*, not a WRLFMD reference number

Assembled with Report Generator v4.3

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Report on FMDV SAT 1 in Tanzania in 2014

Batch: WRLFMD/2015/00008

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

----- Phylogeny Reconstruction

Scope ----- All Selected Taxa

Statistical Method ----- Neighbor-joining

Phylogeny Test

Test of Phylogeny ----- Bootstrap method

No. of Bootstrap Replications ----- 1000

Substitution Model

Substitutions Type ----- Nucleotide

Model/Method ----- Kimura 2-parameter model

Substitutions to Include ----- d: Transitions + Transversions

Rates and Patterns

Rates among Sites ----- Uniform rates

Pattern among Lineages ----- Same (Homogeneous)

Data Subset to Use

Gaps/Missing Data Treatment ----- Pairwise deletion

Codons Included ----- 1st+2nd+3rd+Non-Coding

No. of Sites : 663

No Of Bootstrap Reps = 1000

Only bootstrap values of 70% and above are shown

*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,
30 July 2015

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