

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

## Genotyping Report

Report Date for this Batch: 11 August 2015

FMDV type O

Country: Tanzania

Period: 2014

No. of samples: 8

BATCH: WRLFMD/2015/00008



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# FAO World Reference Laboratory for FMD Genotyping Report

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

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Serotype: O WRLFMD Ref No: TAN/3/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 9265 Location: Miseke, Tanzania Date collected: 24/05/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 28/05/2015 Species: Bovine Material used: BTY1 15/05/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 10/08/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska  Topotype: EA-2 Genotype/strain: unnamed Sequence filename: TAN14-03.SEQ Date sequence last updated: 04/06/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4158 Min. no. of nt for comparison: 600 Total turn-around time: 102 days Sequencing time: 74 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	639	0	100.00	0.00	EA-2	unnamed
2	O/TAN/4/2014	TAN14-04	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/5/2014	TAN14-05	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/6/2014	TAN14-06	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/7/2014	TAN14-07	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/9/2014	TAN14-09	639	639	0	100.00	0.00	EA-2	unnamed
7	O/TAN/8/2014	TAN14-08	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	626	0	97.97	2.03	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	625	0	97.81	2.19	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	625	0	97.81	2.19	EA-2	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	587	0	91.86	8.14	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	561	0	87.79	12.21	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	539	0	84.35	15.65	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 10/08/2015
WRLFMD Ref No: TAN/4/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 9260	
Location: Miseke, Tanzania	Topotype: EA-2
Date collected: 24/05/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-04.SEQ
Date received for sequencing: 28/05/2015	Date sequence last updated: 04/06/2015
Species: Bovine	No. of Nt determined: 639
Material used: BTY1 19/05/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4158
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 102 days
	Sequencing time: 74 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	639	0	100.00	0.00	EA-2	unnamed
2	O/TAN/3/2014	TAN14-03	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/5/2014	TAN14-05	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/6/2014	TAN14-06	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/7/2014	TAN14-07	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/9/2014	TAN14-09	639	639	0	100.00	0.00	EA-2	unnamed
7	O/TAN/8/2014	TAN14-08	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	626	0	97.97	2.03	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	625	0	97.81	2.19	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	625	0	97.81	2.19	EA-2	unnamed
<b>Most Closely Related Reference Viruses</b>									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	587	0	91.86	8.14	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	561	0	87.79	12.21	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	539	0	84.35	15.65	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 10/08/2015
WRLFMD Ref No: TAN/5/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 9260	
Location: Miseke, Tanzania	Topotype: EA-2
Date collected: 24/05/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-05.SEQ
Date received for sequencing: 28/05/2015	Date sequence last updated: 04/06/2015
Species: Bovine	No. of Nt determined: 639
Material used: BTY2 19/05/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4158
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 102 days
	Sequencing time: 74 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	639	0	100.00	0.00	EA-2	unnamed
2	O/TAN/3/2014	TAN14-03	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/4/2014	TAN14-04	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/6/2014	TAN14-06	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/7/2014	TAN14-07	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/9/2014	TAN14-09	639	639	0	100.00	0.00	EA-2	unnamed
7	O/TAN/8/2014	TAN14-08	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	626	0	97.97	2.03	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	625	0	97.81	2.19	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	625	0	97.81	2.19	EA-2	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	587	0	91.86	8.14	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	561	0	87.79	12.21	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	539	0	84.35	15.65	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 10/08/2015
WRLFMD Ref No: TAN/6/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 9264	
Location: Miseke, Tanzania	Topotype: EA-2
Date collected: 24/05/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-06.SEQ
Date received for sequencing: 28/05/2015	Date sequence last updated: 04/06/2015
Species: Bovine	No. of Nt determined: 639
Material used: BTY1 20/05/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4158
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 102 days
	Sequencing time: 74 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	639	0	100.00	0.00	EA-2	unnamed
2	O/TAN/3/2014	TAN14-03	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/4/2014	TAN14-04	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/5/2014	TAN14-05	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/7/2014	TAN14-07	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/9/2014	TAN14-09	639	639	0	100.00	0.00	EA-2	unnamed
7	O/TAN/8/2014	TAN14-08	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	626	0	97.97	2.03	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	625	0	97.81	2.19	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	625	0	97.81	2.19	EA-2	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	587	0	91.86	8.14	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	561	0	87.79	12.21	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	539	0	84.35	15.65	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 10/08/2015
WRLFMD Ref No: TAN/7/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 9271	
Location: Miseke, Tanzania	Topotype: EA-2
Date collected: 25/05/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-07.SEQ
Date received for sequencing: 28/05/2015	Date sequence last updated: 04/06/2015
Species: Bovine	No. of Nt determined: 639
Material used: BTY1 07/05/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4158
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 102 days
	Sequencing time: 74 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	639	0	100.00	0.00	EA-2	unnamed
2	O/TAN/3/2014	TAN14-03	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/4/2014	TAN14-04	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/5/2014	TAN14-05	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/6/2014	TAN14-06	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/9/2014	TAN14-09	639	639	0	100.00	0.00	EA-2	unnamed
7	O/TAN/8/2014	TAN14-08	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	626	0	97.97	2.03	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	625	0	97.81	2.19	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	625	0	97.81	2.19	EA-2	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	587	0	91.86	8.14	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	561	0	87.79	12.21	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	539	0	84.35	15.65	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O WRLFMD Ref No: TAN/8/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 9273 Location: Miseke, Tanzania Date collected: 25/05/2014 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: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 10/08/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska  Topotype: EA-2 Genotype/strain: unnamed Sequence filename: TAN14-08.SEQ Date sequence last updated: 14/07/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4158 Min. no. of nt for comparison: 600 Total turn-around time: 102 days Sequencing time: 42 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	638	0	99.84	0.16	EA-2	unnamed
2	O/TAN/3/2014	TAN14-03	639	638	0	99.84	0.16	EA-2	unnamed
3	O/TAN/4/2014	TAN14-04	639	638	0	99.84	0.16	EA-2	unnamed
4	O/TAN/5/2014	TAN14-05	639	638	0	99.84	0.16	EA-2	unnamed
5	O/TAN/6/2014	TAN14-06	639	638	0	99.84	0.16	EA-2	unnamed
6	O/TAN/7/2014	TAN14-07	639	638	0	99.84	0.16	EA-2	unnamed
7	O/TAN/9/2014	TAN14-09	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	625	0	97.81	2.19	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	624	0	97.65	2.35	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	624	0	97.65	2.35	EA-2	unnamed
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	586	0	91.71	8.29	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	580	0	90.77	9.23	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	560	0	87.64	12.36	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	538	0	84.19	15.81	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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

Page 1 of 1

Serotype: O	Report date: 10/08/2015
WRLFMD Ref No: TAN/9/2014	Reported by: N.J. Knowles
Batch No: WRLFMD/2015/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 9277	
Location: Miseke, Tanzania	Topotype: EA-2
Date collected: 25/05/2014	Genotype/strain: unnamed
Date received by WRLFMD: 30/04/2015	Sequence filename: TAN14-09.SEQ
Date received for sequencing: 29/06/2015	Date sequence last updated: 06/07/2015
Species: Bovine	No. of Nt determined: 639
Material used: BTy1 24/06/2015	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4158
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 102 days
	Sequencing time: 42 days
Comments:	

<b>Most Closely Related Viruses</b>									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/TAN/10/2014	TAN14-10	639	639	0	100.00	0.00	EA-2	unnamed
2	O/TAN/3/2014	TAN14-03	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/4/2014	TAN14-04	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/5/2014	TAN14-05	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/6/2014	TAN14-06	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/7/2014	TAN14-07	639	639	0	100.00	0.00	EA-2	unnamed
7	O/TAN/8/2014	TAN14-08	639	638	0	99.84	0.16	EA-2	unnamed
8	O/COD/3/2010	COD10-03	639	626	0	97.97	2.03	EA-2	unnamed
9	O/COD/4/2010	COD10-04	639	625	0	97.81	2.19	EA-2	unnamed
10	O/TAN-CVL-2010-0019	TAN10-AG	639	625	0	97.81	2.19	EA-2	unnamed
<b>Most Closely Related Reference Viruses</b>									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UGA/3/2002 (DQ165077)	UGA02-03	639	587	0	91.86	8.14	EA-2	unnamed
2	O/KEN/5/2002 (DQ165073)	KEN02-05	639	581	0	90.92	9.08	EA-2	Unnamed
3	O/MAL/1/98 (DQ165074)	MAL98-01	639	568	0	88.89	11.11	EA-2	unnamed
4	O/TAN/2/2004 (KF561679)	TAN04-02	639	561	0	87.79	12.21	EA-2	unnamed
5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
6	O/PAK/16/2010	PAK10-16	639	543	0	84.98	15.02	ME-SA	PanAsia-2 <sup>PUN-10</sup>
7	O/IND/53/79 (AF292107)	IND79A53	639	540	0	84.51	15.49	ME-SA	unnamed
8	O/IND/R2/75* (AF204276)	IND75--A	639	539	0	84.35	15.65	ME-SA	unnamed
9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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

Page 1 of 1

Serotype: O WRLFMD Ref No: TAN/10/2014 Batch No: WRLFMD/2015/00008 Sender Ref: 9279 Location: Miseke, Tanzania Date collected: 25/05/2014 Date received by WRLFMD: 30/04/2015 Date received for sequencing: 31/07/2015 Species: Bovine Material used: RNA from 10% epi susp 30/04/2015 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 10/08/2015 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: EA-2 Genotype/strain: unnamed Sequence filename: TAN14-10.SEQ Date sequence last updated: 10/08/2015 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4158 Min. no. of nt for comparison: 600 Total turn-around time: 102 days Sequencing time: 10 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
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2	O/TAN/4/2014	TAN14-04	639	639	0	100.00	0.00	EA-2	unnamed
3	O/TAN/5/2014	TAN14-05	639	639	0	100.00	0.00	EA-2	unnamed
4	O/TAN/6/2014	TAN14-06	639	639	0	100.00	0.00	EA-2	unnamed
5	O/TAN/7/2014	TAN14-07	639	639	0	100.00	0.00	EA-2	unnamed
6	O/TAN/9/2014	TAN14-09	639	639	0	100.00	0.00	EA-2	unnamed
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Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
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5	O/K83/79* (AJ303511)	KEN79B83	638	543	1	85.11	14.89	EA-1	unnamed
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9	O/SUD/2/86 (DQ165075)	SUD86-02	639	537	0	84.04	15.96	EA-3	unnamed
10	O1/Manisa/TUR/69 (AY593823)	TUR69--G	639	537	0	84.04	15.96	ME-SA	unnamed

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.3

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# Report on FMDV O in Tanzania in 2014

Batch: WRLFMD/2015/00008

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

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 : 642

No Of Bootstrap Reps = 1000

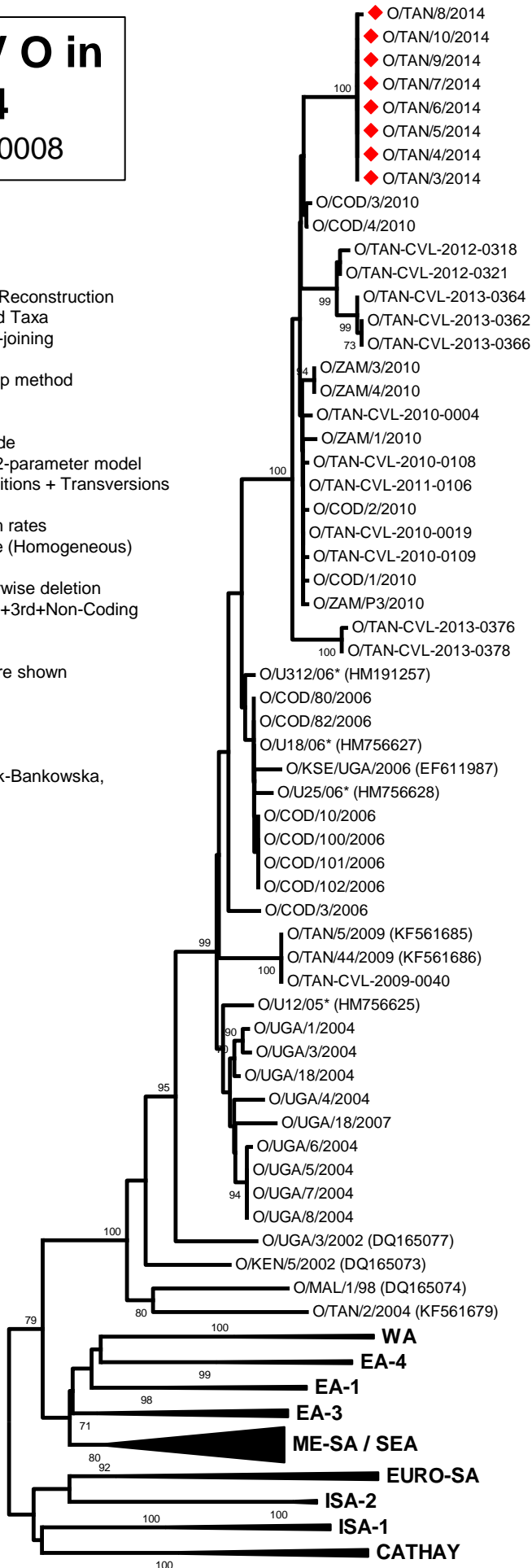
Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,  
11 August 2015

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EA-2

0.02