

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

## Genotyping Report v2

FMDV serotype: SAT1  
Country: Qatar  
Year: 2023  
Batch: WRLFMD/2023/000044  
No. of sequences: 7  
Report date: 26th July 2023  
Report generated by: Nick Knowles  
Report checked by: Jemma Wadsworth



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www: <http://www.wrlfmd.org/>

email: [reporting@pirbright.ac.uk](mailto:reporting@pirbright.ac.uk)

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Virus sample name:	QTR/1/2023
Sender reference:	1
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	23/04/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53348, genome 53349, sequence viba_53350, sequencing info 53351	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53362	QTR/4/2023	cattle	100.0	0	SAT1	I		
viba_53366	QTR/5/2023	cattle	100.0	0	SAT1	I		
viba_53374	QTR/7/2023	cattle	100.0	0	SAT1	I		
viba_53354	QTR/2/2023	cattle	100.0	0	SAT1	I		
viba_53358	QTR/3/2023	cattle	100.0	0	SAT1	I		
viba_53370	QTR/6/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.7	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.4	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.4	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.2	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.8	0	SAT1	I		
viba_243	ZIM/23/2003		80.6	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.8	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.5	0	SAT1	IV		
viba_709	RHO/5/66	bovine	75.1	0	SAT1	II		
viba_509	BOT/1/77	bovine	74.7	0	SAT1	III		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.6	0	SAT1	XIII		
viba_212	BEC/1/48		74.1	0	SAT1	III		
viba_495	BOT/1/68	bovine	73.8	0	SAT1	III		
viba_440	SUD/3/76		73.1	0	SAT1	VI		

Virus sample name:	QTR/2/2023
Sender reference:	2
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	23/04/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53352, genome 53353, sequence viba_53354, sequencing info 53355	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53362	QTR/4/2023	cattle	100.0	0	SAT1	I		
viba_53366	QTR/5/2023	cattle	100.0	0	SAT1	I		
viba_53350	QTR/1/2023	cattle	100.0	0	SAT1	I		
viba_53374	QTR/7/2023	cattle	100.0	0	SAT1	I		
viba_53358	QTR/3/2023	cattle	100.0	0	SAT1	I		
viba_53370	QTR/6/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.7	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.4	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.4	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.2	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.8	0	SAT1	I		
viba_243	ZIM/23/2003		80.6	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.8	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.5	0	SAT1	IV		
viba_709	RHO/5/66	bovine	75.1	0	SAT1	II		
viba_509	BOT/1/77	bovine	74.7	0	SAT1	III		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.6	0	SAT1	XIII		
viba_212	BEC/1/48		74.1	0	SAT1	III		
viba_495	BOT/1/68	bovine	73.8	0	SAT1	III		
viba_440	SUD/3/76		73.1	0	SAT1	VI		

Virus sample name:	QTR/3/2023
Sender reference:	3
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	23/04/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53356, genome 53357, sequence viba_53358, sequencing info 53359	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53362	QTR/4/2023	cattle	100.0	0	SAT1	I		
viba_53366	QTR/5/2023	cattle	100.0	0	SAT1	I		
viba_53350	QTR/1/2023	cattle	100.0	0	SAT1	I		
viba_53374	QTR/7/2023	cattle	100.0	0	SAT1	I		
viba_53354	QTR/2/2023	cattle	100.0	0	SAT1	I		
viba_53370	QTR/6/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.7	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.4	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.4	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.2	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.8	0	SAT1	I		
viba_243	ZIM/23/2003		80.6	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.8	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.5	0	SAT1	IV		
viba_709	RHO/5/66	bovine	75.1	0	SAT1	II		
viba_509	BOT/1/77	bovine	74.7	0	SAT1	III		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.6	0	SAT1	XIII		
viba_212	BEC/1/48		74.1	0	SAT1	III		
viba_495	BOT/1/68	bovine	73.8	0	SAT1	III		
viba_440	SUD/3/76		73.1	0	SAT1	VI		

Virus sample name:	QTR/4/2023
Sender reference:	4
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	23/04/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53360, genome 53361, sequence viba_53362, sequencing info 53363	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53366	QTR/5/2023	cattle	100.0	0	SAT1	I		
viba_53350	QTR/1/2023	cattle	100.0	0	SAT1	I		
viba_53374	QTR/7/2023	cattle	100.0	0	SAT1	I		
viba_53354	QTR/2/2023	cattle	100.0	0	SAT1	I		
viba_53358	QTR/3/2023	cattle	100.0	0	SAT1	I		
viba_53370	QTR/6/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.7	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.4	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.4	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.2	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.8	0	SAT1	I		
viba_243	ZIM/23/2003		80.6	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.8	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.5	0	SAT1	IV		
viba_709	RHO/5/66	bovine	75.1	0	SAT1	II		
viba_509	BOT/1/77	bovine	74.7	0	SAT1	III		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.6	0	SAT1	XIII		
viba_212	BEC/1/48		74.1	0	SAT1	III		
viba_495	BOT/1/68	bovine	73.8	0	SAT1	III		
viba_440	SUD/3/76		73.1	0	SAT1	VI		

Virus sample name:	QTR/5/2023
Sender reference:	10
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	09/05/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53364, genome 53365, sequence viba_53366, sequencing info 53367	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53362	QTR/4/2023	cattle	100.0	0	SAT1	I		
viba_53350	QTR/1/2023	cattle	100.0	0	SAT1	I		
viba_53374	QTR/7/2023	cattle	100.0	0	SAT1	I		
viba_53354	QTR/2/2023	cattle	100.0	0	SAT1	I		
viba_53358	QTR/3/2023	cattle	100.0	0	SAT1	I		
viba_53370	QTR/6/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.7	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.4	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.4	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.2	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.8	0	SAT1	I		
viba_243	ZIM/23/2003		80.6	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.8	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.5	0	SAT1	IV		
viba_709	RHO/5/66	bovine	75.1	0	SAT1	II		
viba_509	BOT/1/77	bovine	74.7	0	SAT1	III		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.6	0	SAT1	XIII		
viba_212	BEC/1/48		74.1	0	SAT1	III		
viba_495	BOT/1/68	bovine	73.8	0	SAT1	III		
viba_440	SUD/3/76		73.1	0	SAT1	VI		

Virus sample name:	QTR/6/2023
Sender reference:	15
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	14/05/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53368, genome 53369, sequence viba_53370, sequencing info 53371	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53362	QTR/4/2023	cattle	99.8	0	SAT1	I		
viba_53366	QTR/5/2023	cattle	99.8	0	SAT1	I		
viba_53350	QTR/1/2023	cattle	99.8	0	SAT1	I		
viba_53374	QTR/7/2023	cattle	99.8	0	SAT1	I		
viba_53354	QTR/2/2023	cattle	99.8	0	SAT1	I		
viba_53358	QTR/3/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.5	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.2	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.2	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.1	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.7	0	SAT1	I		
viba_243	ZIM/23/2003		80.5	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.6	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.3	0	SAT1	IV		
viba_709	RHO/5/66	bovine	74.9	0	SAT1	II		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.7	0	SAT1	XIII		
viba_509	BOT/1/77	bovine	74.5	0	SAT1	III		
viba_495	BOT/1/68	bovine	74.0	0	SAT1	III		
viba_212	BEC/1/48		73.9	0	SAT1	III		
viba_440	SUD/3/76		73.3	0	SAT1	VI		

Virus sample name:	QTR/7/2023
Sender reference:	17
Location of origin:	n/a
Country of origin:	Qatar
Date of collection:	14/05/2023
Host species:	cattle
Serotype:	SAT1
Topotype:	I
Lineage:	
Sublineage:	
Sequence length:	657
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	18/07/2023
Primers:	SAT2-P1-1223F, SAT1-1C559F, SAT1U-OS/SAT-2B208R; FMD-3161F/FMD-4303R
Received for sequencing:	20/07/2023
Created:	24/07/2023
Last updated:	24/07/2023
VIBASys IDs: sample 53372, genome 53373, sequence viba_53374, sequencing info 53375	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_53362	QTR/4/2023	cattle	100.0	0	SAT1	I		
viba_53366	QTR/5/2023	cattle	100.0	0	SAT1	I		
viba_53350	QTR/1/2023	cattle	100.0	0	SAT1	I		
viba_53354	QTR/2/2023	cattle	100.0	0	SAT1	I		
viba_53358	QTR/3/2023	cattle	100.0	0	SAT1	I		
viba_53370	QTR/6/2023	cattle	99.8	0	SAT1	I		
viba_48576	KEN/9/2020	cattle	96.7	0	SAT1	I		
viba_30749	BUN/2/99	cattle	92.4	0	SAT1	I		
viba_30745	BUN/1/99	cattle	92.4	0	SAT1	I		
viba_2987	TAN/19/99	cattle	92.2	0	SAT1	I		

#### Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_466	T155/71	cattle	87.8	0	SAT1	I		
viba_243	ZIM/23/2003		80.6	0	SAT1	I		
viba_462	RV/11/37	greater kudu	76.8	0	SAT1	II		
viba_514	UGA-BUFF/21/70	African buffalo	75.5	0	SAT1	IV		
viba_709	RHO/5/66	bovine	75.1	0	SAT1	II		
viba_509	BOT/1/77	bovine	74.7	0	SAT1	III		
viba_16635	MOZ/P13/2010 BUF B16	African buffalo	74.6	0	SAT1	XIII		
viba_212	BEC/1/48		74.1	0	SAT1	III		
viba_495	BOT/1/68	bovine	73.8	0	SAT1	III		
viba_440	SUD/3/76		73.1	0	SAT1	VI		



Report on FMDV SAT1 in Qatar in 2023

Batch: WRLFMD/2023/000044



\*, not a WRLFMD Reference Number

## Analysis Parameters

VP1 subsequence extractor: vp1\_SAT1  
 Query sequence set: WRLFMD/2023/000044-Qatar-SAT1 (7 sequences)  
 Sequence database set: allseqs\_SAT1 (807 sequences)  
 Prototype sequence set: !prototypes\_SAT1 (20 sequences)  
 Number of related sequences reported: 10  
 Minimal VP1 subsequence match length: 600  
 Sequence alignment method: muscle (default parameters)  
 Sequence alignment length: 657  
 Phylogeny reconstruction method: fdnadist, fneighbor  
 Number of bootstrap samples: 1000  
 Random seed for bootstrapping: 1  
 Displaying bootstrap values above: 70.0%  
 Number of sequences in tree capped at: 100  
 Number of prototype sequences in tree: 10  
 VIBASys version: reflabs-1.1.2

## Sequences in the Phylogenetic Tree

All sequences in the tree are in taxonomic group FMDV/SAT1

label	accession	host(s)	lab	country	taxonomic information
QTR/1/2023	n/a	cattle	WRLFMD	Qatar	I
QTR/4/2023	n/a	cattle	WRLFMD	Qatar	I
QTR/3/2023	n/a	cattle	WRLFMD	Qatar	I
QTR/2/2023	n/a	cattle	WRLFMD	Qatar	I
QTR/5/2023	n/a	cattle	WRLFMD	Qatar	I
QTR/7/2023	n/a	cattle	WRLFMD	Qatar	I
QTR/6/2023	n/a	cattle	WRLFMD	Qatar	I
KEN/9/2020	n/a	cattle	WRLFMD	Kenya	I
T104/2016*	MH936372	cattle	PAU	Tanzania	I
TAN/11/2012	MF592608	cattle	n/a	Tanzania	I
TAN/12/2012	MF592609	cattle	n/a	Tanzania	I
TAN/45/2012	MF592628	cattle	WRLFMD	Tanzania	I
TAN/44/2012	MF592627	cattle	WRLFMD	Tanzania	I
TAN/25/2012	MF592618	cattle	n/a	Tanzania	I
TAN/49/2012	MF592629	cattle	WRLFMD	Tanzania	I
TAN/23/2012	MF592617	cattle	n/a	Tanzania	I
TAN/22/2012	MF592616	cattle	n/a	Tanzania	I
T12/2016*	MH936370	cattle	PAU	Tanzania	I
TAN/27/2012	n/a	cattle	WRLFMD	Tanzania	I
TAN/50/2012	MF592630	cattle	WRLFMD	Tanzania	I
TAN/27/2012	MF592644	cattle	WRLFMD	Tanzania	I
TAN-CVL-2012-0360*	n/a	bovine	CVL	Tanzania	I
TAN-CVL-2012-0359*	n/a	bovine	CVL	Tanzania	I
TAN-CVL-2012-0361*	n/a	bovine	CVL	Tanzania	I
TAN-CVL-2012-0354*	n/a	bovine	CVL	Tanzania	I
T103/2016*	MH936368	cattle	PAU	Tanzania	I
TAN-CVL-2012-0355*	n/a	bovine	CVL	Tanzania	I
KEN/PRB36/2016 pro*	MH882593	African buffalo	PIADC	Kenya	I
KEN/PRB64/2016 pro*	MH882605	African buffalo	PIADC	Kenya	I
KEN/PRB57/2016 pro*	MH882601	African buffalo	PIADC	Kenya	I
KEN/PRB51/2016 pro*	MH882599	African buffalo	PIADC	Kenya	I
KEN/15/2009	n/a	cattle	WRLFMD	Kenya	I
KEN/117/2009	n/a	cattle	WRLFMD	Kenya	I
KEN/9/2009	n/a	cattle	WRLFMD	Kenya	I
KEN/14/2009	n/a	cattle	WRLFMD	Kenya	I
KEN/11/2005	n/a	cattle	WRLFMD	Kenya	I

*continued on next page*

label	accession	host(s)	lab	country	taxonomic information
K114/99*	HQ267524	n/a	n/a	Kenya	I
TAN/51/99	KF561720	cattle	WRLFMD	Tanzania	I
T94/2016*	MH931415	cattle	PAU	Tanzania	I
TAN/51/99	AY442004	cattle	OVI	Tanzania	I
K96/99*	HQ267523	n/a	n/a	Kenya	I
BUN/2/99	n/a	cattle	WRLFMD	Burundi	I
BUN/1/99	n/a	cattle	WRLFMD	Burundi	I
TAN/60/99	KF561721	wildebeest	WRLFMD	Tanzania	I
T32/2016*	MH931413	cattle	PAU	Tanzania	I
TAN/26/99	KF561717	cattle	WRLFMD	Tanzania	I
T82/2016*	MH931411	cattle	PAU	Tanzania	I
TAN/25/99	KF561716	cattle	WRLFMD	Tanzania	I
TAN/19/99	KF561714	cattle	WRLFMD	Tanzania	I
TAN/21/99	KF561715	cattle	WRLFMD	Tanzania	I
T33/2016*	MH931418	cattle	PAU	Tanzania	I
BUN/5/99	n/a	cattle	WRLFMD	Burundi	I
KEN/PRB28/2016 pro*	MH882588	African buffalo	PIADC	Kenya	I
KEN/PRB32/2016 pro*	MH882592	African buffalo	PIADC	Kenya	I
KEN/PRB31/2016 pro*	MH882591	African buffalo	PIADC	Kenya	I
TAN/28/2014	MF592686	bovine	WRLFMD	Tanzania	I
TAN/13/2014	MF592674	bovine	WRLFMD	Tanzania	I
TAN/20/2014	MF592680	bovine	WRLFMD	Tanzania	I
TAN/11/2014	MF592672	bovine	WRLFMD	Tanzania	I
TAN/12/2014	MF592673	bovine	WRLFMD	Tanzania	I
TAN/29/2014	MF592687	bovine	WRLFMD	Tanzania	I
TAN/32/2014	MF592689	bovine	WRLFMD	Tanzania	I
TAN/31/2014	n/a	bovine	WRLFMD	Tanzania	I
TAN/30/2014	MF592688	bovine	WRLFMD	Tanzania	I
TAN/41/2014	MF592696	bovine	WRLFMD	Tanzania	I
TAN/17/2014	MF592677	bovine	WRLFMD	Tanzania	I
TAN/18/2014	MF592678	bovine	WRLFMD	Tanzania	I
TAN/22/2014	MF592682	bovine	WRLFMD	Tanzania	I
TAN/23/2014	n/a	bovine	WRLFMD	Tanzania	I
TAN/21/2014	MF592681	bovine	WRLFMD	Tanzania	I
TAN/26/2014	MF592685	bovine	WRLFMD	Tanzania	I
TAN/27/2014	n/a	bovine	WRLFMD	Tanzania	I
TAN/24/2014	MF592683	bovine	WRLFMD	Tanzania	I
TAN/25/2014	MF592684	bovine	WRLFMD	Tanzania	I
TAN/34/2014	MF592691	bovine	WRLFMD	Tanzania	I
TAN/33/2014	MF592690	bovine	WRLFMD	Tanzania	I
TAN/36/2014	MF592693	bovine	WRLFMD	Tanzania	I
TAN/38/2014	MF592695	bovine	WRLFMD	Tanzania	I
TAN/37/2014	MF592694	bovine	WRLFMD	Tanzania	I
TAN/35/2014	MF592692	bovine	WRLFMD	Tanzania	I
TAN/14/2014	MF592675	bovine	WRLFMD	Tanzania	I
TAN/16/2014	MF592676	bovine	WRLFMD	Tanzania	I
TAN/19/2014	MF592679	bovine	WRLFMD	Tanzania	I
T155/71*	KF561706	cattle	WRLFMD	Tanzania	I
ZIM/23/2003	KF219690	n/a	WRLFMD	Zimbabwe	I
BEC/1/48	AY593838	n/a	PIADC	Bechuanaland	III
BOT/1/77	KF219686	bovine	WRLFMD	Botswana	III
BOT/1/68	AY593845	bovine	PIADC	Botswana	III
UGA-BUFF/21/70*	KF219682	African buffalo	WRLFMD	Uganda	IV
MOZ/P13/2010 BUF B16*	KF219691	African buffalo	WRLFMD	Mozambique	XIII
RV/11/37	AY593839	greater kudu	PIADC	Rhodesia (RV)	II
RHO/5/66	AY593846	bovine	PIADC	Rhodesia	II
SUD/3/76	DQ009725	n/a	OVI	Sudan	VI

\*, not a WRLFMD Reference Number

n/a, not available