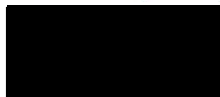




FMD Genotyping Report

Lab Reference WRL batch Number: WRLMEG/2025/000024

Sent to:



Date Received:

n/a

Country of Origin*:

Egypt

Work has been completed for three VP1 sequences (Soltan, M.A., Ismail, B.I. and Abd-Eldiam, M.E. at the Animal Medicine Department, Suez Canal University, Kilo 4.5 Ring Road, Apt. 8, Ismailia, Ismailia 45221, Egypt) from GenBank following the WOA report of SAT1 in Egypt and the details are attached. The accession numbers are:

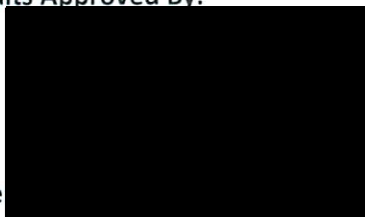
PX113531 (SAT1/Ismailia1/Egy/2025)

PX113532 (SAT1/Ismailia2/Egy/2025)

PX113533 (SAT1/Alexandria1/Egy/2025)

Please note that all our phylogenetic trees can be accessed via the internet at: <http://www.wrlfmd.org/>

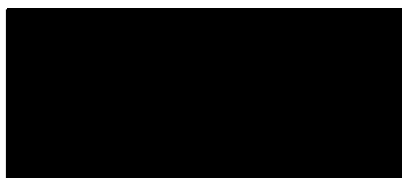
Results Approved By:



Date

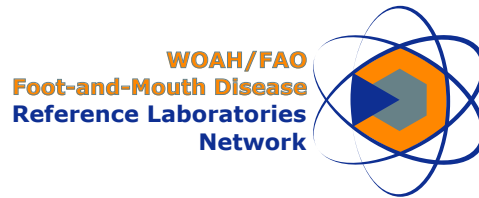
26/8/25

Official Stamp:



To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by email (reflabsfeedback@pirbright.ac.uk).

* Data supplied by the customer



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

FMDV Genotyping Report

Generated from: FMDtype | FMDV Genotyping Tool

Downloaded on: 25 August 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLMEG/2025/000024]. (Accessed 25/08/25)

FMDV serotype: SAT1

Country: Egypt

Year: 2025

Batch: WRLMEG/2025/000024

No. of sequences: 3

Reported date: 25 August 2025

WRLFMD Website: <https://www.wrlfmd.org/>

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: Ismailia1/Egy/2025

Sample details

Reception Date:	2025-08-25
Sender reference:	Ismailia1/Egy/2025
Location of origin:	Ismailia
Country of origin:	Egypt
Date of collection:	2025-07-16
Host species:	cattle

Genotyping details

Serotype:	SAT1
Topotype:	I
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	657
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049116	BAR/37/2025	Cattle	99.85	0	SAT1	I	None	None
1049117	BAR/39/2025	Cattle	99.85	0	SAT1	I	None	None
1049119	BAR/47/2025	Cattle	99.85	0	SAT1	I	None	None
1049120	BAR/49/2025	Cattle	99.85	0	SAT1	I	None	None
1049124	BAR/55/2025	Cattle	99.54	0	SAT1	I	None	None
1049110	BAR/1/2025	Cattle	99.39	0	SAT1	I	None	None
1049111	BAR/3/2025	Cattle	99.39	0	SAT1	I	None	None
1049112	BAR/5/2025	Cattle	99.39	0	SAT1	I	None	None
1049113	BAR/6/2025	Cattle	99.39	0	SAT1	I	None	None
1049114	BAR/18/2025	Cattle	99.39	0	SAT1	I	None	None
FMDV VP1 Prototype Sequences*								
15209	TAN/T155/71	Cattle	88.36	0	SAT1	I	None	None

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

Virus sample: Ismailia2/Egy/2025

Sample details

Reception Date:	2025-08-25
Sender reference:	Ismailia2/Egy/2025
Location of origin:	Ismailia
Country of origin:	Egypt
Date of collection:	2025-07-16
Host species:	cattle

Genotyping details

Serotype:	SAT1
Topotype:	I
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	657
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049116	BAR/37/2025	Cattle	99.70	0	SAT1	I	None	None
1049117	BAR/39/2025	Cattle	99.70	0	SAT1	I	None	None
1049119	BAR/47/2025	Cattle	99.70	0	SAT1	I	None	None
1049120	BAR/49/2025	Cattle	99.70	0	SAT1	I	None	None
1049124	BAR/55/2025	Cattle	99.39	0	SAT1	I	None	None
1049110	BAR/1/2025	Cattle	99.24	0	SAT1	I	None	None
1049111	BAR/3/2025	Cattle	99.24	0	SAT1	I	None	None
1049112	BAR/5/2025	Cattle	99.24	0	SAT1	I	None	None
1049113	BAR/6/2025	Cattle	99.24	0	SAT1	I	None	None
1049114	BAR/18/2025	Cattle	99.24	0	SAT1	I	None	None
FMDV VP1 Prototype Sequences*								
15209	TAN/T155/71	Cattle	88.21	0	SAT1	I	None	None

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

Virus sample: Alexandria1/Egy/2025

Sample details

Reception Date:	2025-08-25
Sender reference:	Alexandria1/Egy/2025
Location of origin:	Alexandria
Country of origin:	Egypt
Date of collection:	2025-07-10
Host species:	water buffalo

Genotyping details

Serotype:	SAT1
Topotype:	I
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	657
Ambiguities:	0

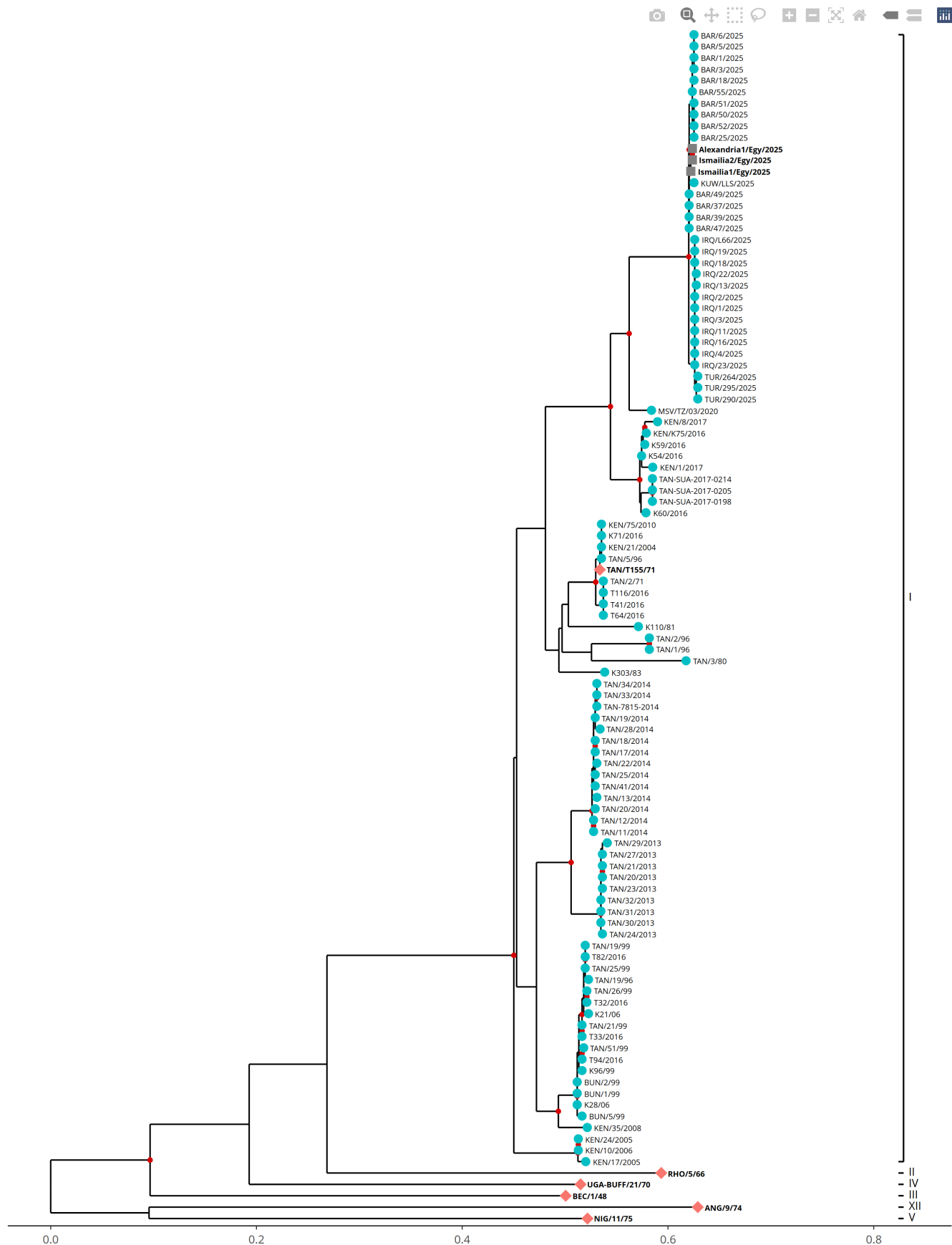
Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049116	BAR/37/2025	Cattle	99.70	0	SAT1	I	None	None
1049117	BAR/39/2025	Cattle	99.70	0	SAT1	I	None	None
1049119	BAR/47/2025	Cattle	99.70	0	SAT1	I	None	None
1049120	BAR/49/2025	Cattle	99.70	0	SAT1	I	None	None
1049124	BAR/55/2025	Cattle	99.39	0	SAT1	I	None	None
1049110	BAR/1/2025	Cattle	99.24	0	SAT1	I	None	None
1049111	BAR/3/2025	Cattle	99.24	0	SAT1	I	None	None
1049112	BAR/5/2025	Cattle	99.24	0	SAT1	I	None	None
1049113	BAR/6/2025	Cattle	99.24	0	SAT1	I	None	None
1049114	BAR/18/2025	Cattle	99.24	0	SAT1	I	None	None
FMDV VP1 Prototype Sequences*								
15209	TAN/T155/71	Cattle	88.21	0	SAT1	I	None	None

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

Tree

■ Uploaded sequence ● Database sequence ◆ Reference sequence



Analysis Parameters

Query sequence set: WRLMEG/2025/000024
Number of related sequences reported: 96
Number of prototype sequences in tree: 6
Minimal VP1 subsequence match length: 610
Sequence alignment length: 659

Number of sequences in tree capped at: 100
Sequence alignment method: MAFFT 7.522
Phylogeny reconstruction method: IQ-TREE 2.26
Number of bootstrap samples: 1000
Displaying bootstrap values above: 75

FMDV VP1 Sequences included in the Phylogenetic Tree

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
KEN/21/2004	KR188451	Cattle	WRLFMD	Kenya	SAT1/I	26630483
KEN/24/2005	None	Cattle	WRLFMD	Kenya	SAT1/I	None
KEN/35/2008	None	Cattle	WRLFMD	Kenya	SAT1/I	None
KEN/75/2010	KR188468	Cattle	WRLFMD	Kenya	SAT1/I	26630483
KEN/8/2017	None	Bovine	WRLFMD	Kenya	SAT1/I	None
KEN/K75/2016 *	MN116691	Bovine	PIADC	Kenya	SAT1/I	None
BAR/1/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/3/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/5/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/6/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/18/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/25/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/37/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/39/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/47/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/49/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/50/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/51/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/52/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
BAR/55/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None
IRQ/1/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/2/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/3/2025	None	Cattle	WRLFMD	Iraq	SAT1/I	None
IRQ/4/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/11/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/13/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/16/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/18/2025	None	Cattle	WRLFMD	Iraq	SAT1/I	None
IRQ/19/2025	None	Cattle	WRLFMD	Iraq	SAT1/I	None
IRQ/22/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
IRQ/23/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None
TUR/264/2025 *	None	Cattle	FMDI	Turkiye	SAT1/I	None
TUR/290/2025 *	None	Cattle	FMDI	Turkiye	SAT1/I	None
TUR/295/2025 *	None	Cattle	FMDI	Turkiye	SAT1/I	None
IRQ/L66/2025 *	None	Cattle	FMDI	Iraq	SAT1/I	None
KUW/LLS/2025 *	None		BIAHF	Kuwait	SAT1/I	None
T116/2016 *	MH931420	Cattle	PAU	Tanzania	SAT1/I	None
T32/2016 *	MH931413	Cattle	PAU	Tanzania	SAT1/I	None
T33/2016 *	MH931418	Cattle	PAU	Tanzania	SAT1/I	None
T41/2016 *	MH936366	Cattle	PAU	Tanzania	SAT1/I	None
T64/2016 *	MH931407	Cattle	PAU	Tanzania	SAT1/I	None
T82/2016 *	MH931411	Cattle	PAU	Tanzania	SAT1/I	None
T94/2016 *	MH931415	Cattle	PAU	Tanzania	SAT1/I	None
TAN/1/96 *	AY442003	Cattle	OVI	Tanzania	SAT1/I	17187294
TAN/11/2014	MF592672	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/12/2014	MF592673	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/13/2014	MF592674	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/17/2014	MF592677	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/18/2014	MF592678	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/19/2014	MF592679	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/19/96 *	AY442013		OVI	Tanzania	SAT1/I	17187294
TAN/19/99	KF561714	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/2/71	KF561707	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/2/96 *	AY442001		OVI	Tanzania	SAT1/I	17187294
TAN/20/2013	MF592655	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/20/2014	MF592680	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/21/2013	None	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/21/99	KF561715	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/23/2013	MF592657	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/24/2013	MF592658	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/25/2014	MF592684	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/25/99	KF561716	Cattle	WRLFMD	Tanzania	SAT1/I	None

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
TAN/26/99	KF561717	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/27/2013	MF592661	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/28/2014	MF592686	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/29/2013	MF592662	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/3/80	KF561709	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/30/2013	MF592663	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/31/2013	MF592664	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/32/2013	None	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/33/2014	MF592690	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/34/2014	MF592691	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/41/2014	MF592696	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/5/96 *	AY442007	Cattle	OVI	Tanzania	SAT1/I	17187294
TAN/51/99 *	AY442004	Cattle	OVI	Tanzania	SAT1/I	17187294
TAN-7815-2014	MH791040	Cattle	WRLFMD	Tanzania	SAT1/I	30740915
TAN-SUA-2017-0198 *	None	Cattle	SUA	Tanzania	SAT1/I	None
TAN-SUA-2017-0205 *	None	Cattle	SUA	Tanzania	SAT1/I	None
TAN-SUA-2017-0214 *	None	Cattle	SUA	Tanzania	SAT1/I	None
BUN/1/99	None	Cattle	WRLFMD	Burundi	SAT1/I	None
BUN/2/99	None	Cattle	WRLFMD	Burundi	SAT1/I	None
BUN/5/99	None	Cattle	WRLFMD	Burundi	SAT1/I	None
MSV/TZ/03/2020 *	OQ615916	Zebu	SUA	Tanzania	SAT1/I	None
TAN/22/2014	MT602088	Cattle	WRLFMD	Tanzania	SAT1/I	None
K110/81 *	HQ267521	Cattle	MAKERERE	Kenya	SAT1/I	21118525
K21/06 *	HQ267528	Cattle	MAKERERE	Kenya	SAT1/I	21118525
K28/06 *	HQ267529	Cattle	MAKERERE	Kenya	SAT1/I	21118525
K303/83	MH053320	Cattle	WRLFMD	Kenya	SAT1/I	29652800
K54/2016 *	MK238991	Cattle	KAGRC	Kenya	SAT1/I	None
K59/2016 *	MK238992	Cattle	KAGRC	Kenya	SAT1/I	None
K60/2016 *	MK238993	Cattle	KAGRC	Kenya	SAT1/I	None
K71/2016 *	MK238994	Cattle	KAGRC	Kenya	SAT1/I	None
K96/99 *	HQ267523	Cattle	MAKERERE	Kenya	SAT1/I	21118525
KEN/1/2017	None	Cattle	WRLFMD	Kenya	SAT1/I	None
KEN/10/2006	KR188454	Cattle	WRLFMD	Kenya	SAT1/I	26630483
KEN/17/2005	None	Cattle	WRLFMD	Kenya	SAT1/I	None

* Not a WRLFMD Reference Number;

^ Not Available