

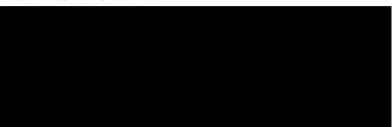


FMD Genotyping Report

Lab Reference WRL batch Number:

Sender Details:

WRLMEG/2025/000014



Date Received:

Country of Origin*:

28/04/2025

Kuwait

Work has now been completed in respect of the sequences recently submitted and the details are as attached. Please note that all our phylogenetic trees can be accessed via the internet at: http://www.wrlfmd.org/

Date:

Laboratory by email (reflabsfeedback@pirbright.ac.uk).

Official Stamp:



To help us improve the quality of our service, please send any suggestions or requests to the Reference

* 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: 29 May 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLMEG/2025/000014]. (Accessed 29/05/25)

FMDV serotype: SAT1

Country: Kuwait

Year: 2025

Batch: WRLMEG/2025/000014

No. of sequences: 1

Reported date: 29 May 2025

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from







Virus sample: KUW/2025

Sample details

Reception Date:	2025-05-28
Sender reference:	NA
Location of origin:	NA
Country of origin:	Kuwait
Date of collection:	2025
Host species:	NA

Genotyping details

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

Sequencing details

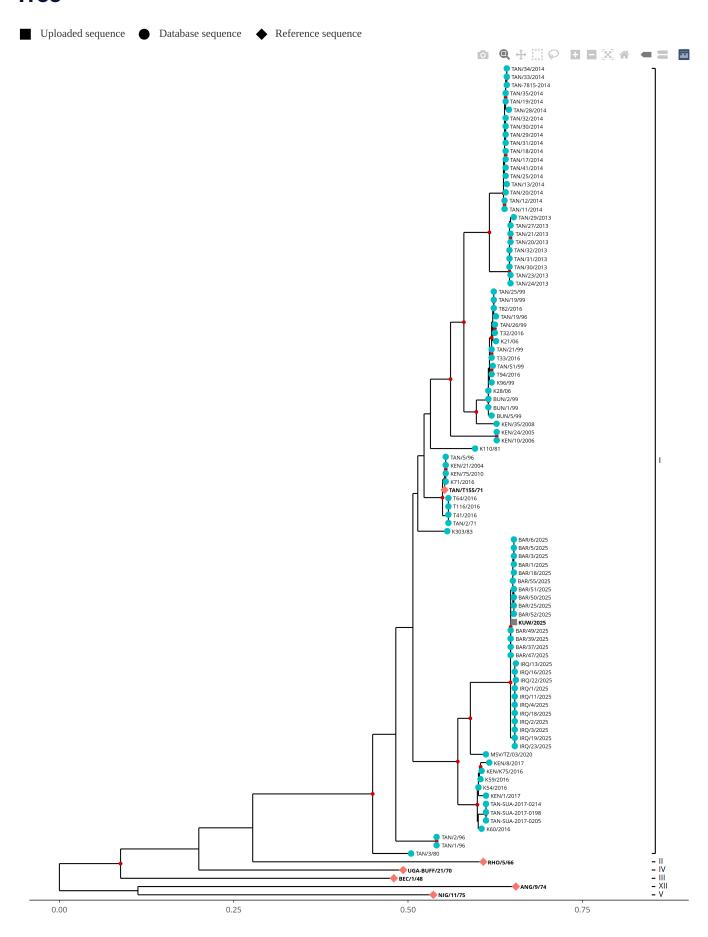
Material submitted for sequencing:NAMaterial Harvest Date:NASequence length:657Ambiguities:0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% ld	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sec	quences							
1049116	BAR/37/2025	Cattle	99.54	0	SAT1	I	None	None
1049117	BAR/39/2025	Cattle	99.54	0	SAT1	1	None	None
1049119	BAR/47/2025	Cattle	99.54	0	SAT1	1	None	None
1049120	BAR/49/2025	Cattle	99.54	0	SAT1	1	None	None
1049124	BAR/55/2025	Cattle	99.24	0	SAT1	1	None	None
1049110	BAR/1/2025	Cattle	99.09	0	SAT1	1	None	None
1049111	BAR/3/2025	Cattle	99.09	0	SAT1	1	None	None
1049112	BAR/5/2025	Cattle	99.09	0	SAT1	1	None	None
1049113	BAR/6/2025	Cattle	99.09	0	SAT1	1	None	None
1049114	BAR/18/2025	Cattle	99.09	0	SAT1	I	None	None
EMDV VD1 Dro	ototype Sequence	e*						
15209	TAN/T155/71	Cattle	88.06	0	SAT1	I	None	None

^{*} see http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains

Tree



Analysis Parameters

Query sequence set: WRLMEG/2025/000014 Number of related sequences reported: 94 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

eguence Namo	GenBank Accession	Host	Doflah	Country	EMDV Tavanamy	Dubmad Dafaranaa Number	
equence Name		Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number	
EN/21/2004	KR188451	Cattle	WRLFMD	Kenya	SAT1/I	26630483	
EN/24/2005	None	Cattle	WRLFMD	Kenya	SAT1/I	None	
N/35/2008	None	Cattle	WRLFMD	Kenya	SAT1/I	None	
EN/75/2010	KR188468	Cattle	WRLFMD	Kenya	SAT1/I	26630483	
N/8/2017	None	Bovine	WRLFMD	Kenya	SAT1/I	None	
EN/K75/2016 *	MN116691	Bovine	PIADC	Kenya	SAT1/I	None	
AR/1/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/3/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/5/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/6/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/18/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/25/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/37/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/39/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/47/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/49/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/50/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/51/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/52/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
AR/55/2025	None	Cattle	WRLFMD	Bahrain	SAT1/I	None	
Q/1/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
Q/2/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
Q/2/2025 Q/3/2025	None	Cattle	WRLFMD	Iraq	SAT1/I	None	
Q/4/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
Q/11/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
Q/11/2025 Q/13/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
	None	Water Buffalo	WRLFMD			None	
Q/16/2025			WRLFMD	Iraq	SAT1/I		
Q/18/2025	None	Cattle		Iraq	SAT1/I	None	
Q/19/2025	None	Cattle	WRLFMD	Iraq	SAT1/I	None	
Q/22/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
Q/23/2025	None	Water Buffalo	WRLFMD	Iraq	SAT1/I	None	
16/2016 *	MH931420	Cattle	PAU	Tanzania	SAT1/I	None	
32/2016 *	MH931413	Cattle	PAU	Tanzania 	SAT1/I	None	
33/2016 *	MH931418	Cattle	PAU	Tanzania	SAT1/I	None	
11/2016 *	MH936366	Cattle	PAU	Tanzania	SAT1/I	None	
54/2016 *	MH931407	Cattle	PAU	Tanzania	SAT1/I	None	
32/2016 *	MH931411	Cattle	PAU	Tanzania	SAT1/I	None	
94/2016 *	MH931415	Cattle	PAU	Tanzania	SAT1/I	None	
AN/1/96 *	AY442003	Cattle	OVI	Tanzania	SAT1/I	17187294	
N/11/2014	MF592672	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/12/2014	MF592673	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/13/2014	MF592674	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/17/2014	MF592677	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/18/2014	MF592678	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/19/2014	MF592679	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/19/96 *	AY442013		OVI	Tanzania	SAT1/I	17187294	
N/19/99	KF561714	Cattle	WRLFMD	Tanzania	SAT1/I	None	
AN/2/71	KF561707	Cattle	WRLFMD	Tanzania	SAT1/I	None	
N/2/96 *	AY442001		OVI	Tanzania	SAT1/I	17187294	
N/20/2013	MF592655	Cattle	WRLFMD	Tanzania	SAT1/I	None	
N/20/2014	MF592680	Bovine	WRLFMD	Tanzania	SAT1/I	None	
N/21/2013	None	Cattle	WRLFMD	Tanzania	SAT1/I	None	
N/21/99	KF561715	Cattle	WRLFMD	Tanzania	SAT1/I	None	
N/23/2013	MF592657	Cattle	WRLFMD	Tanzania	SAT1/I	None	
AN/24/2013	MF592658	Cattle	WRLFMD	Tanzania	SAT1/I	None	
AN/25/2014	MF592684	Bovine	WRLFMD	Tanzania	SAT1/I	None	
AN/25/99	KF561716	Cattle	WRLFMD	Tanzania	SAT1/I	None	
N/26/99	KF561717	Cattle	WRLFMD	Tanzania	SAT1/I	None	
AN/27/2013	MF592661	Cattle	WRLFMD	Tanzania	SAT1/I	None	
AN/28/2014	MF592686	Bovine	WRLFMD	Tanzania	SAT1/I	None	
AN/29/2013	MF592662	Cattle	WRLFMD	Tanzania	SAT1/I	None	
AN/29/2014	MF592687	Bovine	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/3/80	KF561709	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/30/2013	MF592663	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/30/2014	MF592688	Bovine	WRLFMD	Tanzania	SAT1/I	None
TAN/31/2013	MF592664	Cattle	WRLFMD	Tanzania	SAT1/I	None
TAN/31/2014	None	Bovine	WRLFMD	Tanzania	SAT1/I	None
AN/32/2013	None	Cattle	WRLFMD	Tanzania	SAT1/I	None
AN/32/2014	MF592689	Bovine	WRLFMD	Tanzania	SAT1/I	None
AN/33/2014	MF592690	Bovine	WRLFMD	Tanzania	SAT1/I	None
AN/34/2014	MF592691	Bovine	WRLFMD	Tanzania	SAT1/I	None
AN/35/2014	MF592692	Bovine	WRLFMD	Tanzania	SAT1/I	None
AN/41/2014	MF592696	Bovine	WRLFMD	Tanzania	SAT1/I	None
AN/5/96 *	AY442007	Cattle	OVI	Tanzania	SAT1/I	17187294
AN/51/99 *	AY442004	Cattle	OVI	Tanzania	SAT1/I	17187294
AN-7815-2014	MH791040	Cattle	WRLFMD	Tanzania	SAT1/I	30740915
AN-SUA-2017-0198 *	None	Cattle	SUA	Tanzania	SAT1/I	None
AN-SUA-2017-0205 *	None	Cattle	SUA	Tanzania	SAT1/I	None
AN-SUA-2017-0214 *	None	Cattle	SUA	Tanzania	SAT1/I	None
JN/1/99	None	Cattle	WRLFMD	Burundi	SAT1/I	None
JN/2/99	None	Cattle	WRLFMD	Burundi	SAT1/I	None
JN/5/99	None	Cattle	WRLFMD	Burundi	SAT1/I	None
SV/TZ/03/2020 *	OQ615916	Zebu	SUA	Tanzania	SAT1/I	None
110/81 *	HQ267521	Cattle	MAKERERE	Kenya	SAT1/I	21118525
21/06 *	HQ267528	Cattle	MAKERERE	Kenya	SAT1/I	21118525
28/06 *	HQ267529	Cattle	MAKERERE	Kenya	SAT1/I	21118525
303/83	MH053320	Cattle	WRLFMD	Kenya	SAT1/I	29652800
54/2016 *	MK238991	Cattle	KAGRC	Kenya	SAT1/I	None
59/2016 *	MK238992	Cattle	KAGRC	Kenya	SAT1/I	None
50/2016 *	MK238993	Cattle	KAGRC	Kenya	SAT1/I	None
71/2016 *	MK238994	Cattle	KAGRC	Kenya	SAT1/I	None
96/99 *	HQ267523	Cattle	MAKERERE	Kenya	SAT1/I	21118525
EN/1/2017	None	Cattle	WRLFMD	Kenya	SAT1/I	None
EN/10/2006	KR188454	Cattle	WRLFMD	Kenya	SAT1/I	26630483

^{*} Not a WRLFMD Reference Number;

Not Available