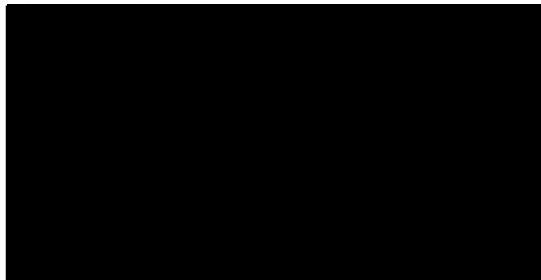




FMD Genotyping Report

Lab Reference WRL batch Number: WRLFMD/2025/000013

Sender Details:



Date Received: 02/06/2025

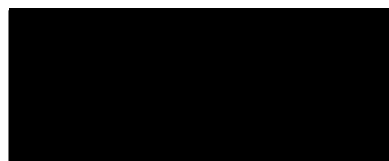
Country of Origin*: Nigeria

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/>

Results Approved By:



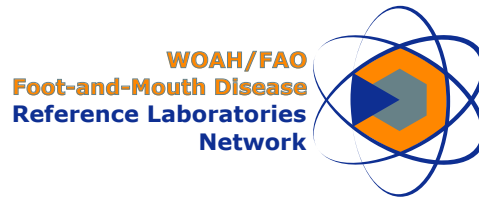
Official Stamp:



Date: 27/8/25

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: 20 June 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLFMD/2025/000013]. (Accessed 20/06/25)

FMDV serotype: O

Country: Nigeria

Year: 2024

Batch: WRLFMD/2025/000013

No. of sequences: 8

Reported date: 20 June 2025

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: NIG/1/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/301 (CF2 GOMBE 3-2-2025
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-04-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-04
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.79	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.63	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.63	0	O	EA-3	None	None
485415	NIG/5/2023	Cattle	97.63	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.63	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.63	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.63	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.63	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.47	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.47	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.15	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.99	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.48	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
11282	MYA/7/98		83.98	0	O	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.86	0	O	ME-SA	PanAsia-2	PUN-10
10989	MUR/19/2016	Cattle	83.73	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
7532	IND/R2/75		83.17	0	O	ME-SA	None	None

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

Virus sample: NIG/2/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/302 (CM GOMBE 3-2-2005)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-04-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-04
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.95	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.79	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.79	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.79	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.79	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.79	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.79	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.63	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.63	0	O	EA-3	None	None
485417	NIG/7/2023	Cattle	97.63	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.26	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.31	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	85.02	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.51	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.39	0	O	ME-SA	Srl-97	None
12427	PAK/16/2010	Cattle	83.89	0	O	ME-SA	PanAsia-2	PUN-10
10989	MUR/19/2016	Cattle	83.75	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.49	0	O	ME-SA	PanAsia	None
11282	MYA/7/98		83.36	0	O	SEA	Mya-98	None
7532	IND/R2/75		83.20	0	O	ME-SA	None	None

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

Virus sample: NIG/3/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/303 (SF GOMBE 3-2-2025)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-04-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-04
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.79	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.63	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.63	0	O	EA-3	None	None
485415	NIG/5/2023	Cattle	97.63	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.63	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.63	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.63	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.63	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.47	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.47	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.15	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.99	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.48	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
11282	MYA/7/98		83.98	0	O	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.86	0	O	ME-SA	PanAsia-2	PUN-10
10989	MUR/19/2016	Cattle	83.73	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
7532	IND/R2/75		83.17	0	O	ME-SA	None	None

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

Virus sample: NIG/4/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/304 (CF1 GOMBE 3-2-2025)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-04-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-04
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.79	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.63	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.63	0	O	EA-3	None	None
485415	NIG/5/2023	Cattle	97.63	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.63	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.63	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.63	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.63	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.47	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.47	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.15	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.99	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.48	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
11282	MYA/7/98		83.98	0	O	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.86	0	O	ME-SA	PanAsia-2	PUN-10
10989	MUR/19/2016	Cattle	83.73	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
7532	IND/R2/75		83.17	0	O	ME-SA	None	None

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

Virus sample: NIG/11/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/267 (KTN JESSEY 03 30-1-2025)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-09-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2025-06-07
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	98.42	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	98.26	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	98.26	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	98.26	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	98.26	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	98.26	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	98.26	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	98.10	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	98.10	0	O	EA-3	None	None
485417	NIG/7/2023	Cattle	98.10	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.31	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.83	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.64	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.52	0	O	ME-SA	Srl-97	None
12427	PAK/16/2010	Cattle	84.02	0	O	ME-SA	PanAsia-2	PUN-10
10989	MUR/19/2016	Cattle	83.89	0	O	ME-SA	Ind-2001	e
11282	MYA/7/98		83.65	0	O	SEA	Mya-98	None
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
7532	IND/R2/75		83.33	0	O	ME-SA	None	None

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

Virus sample: NIG/14/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/372 (0123 29-1-2025)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-12-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-05
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.47	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.31	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.31	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.31	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.31	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.31	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.31	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.16	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.16	0	O	EA-3	None	None
485417	NIG/7/2023	Cattle	97.16	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.47	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.99	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.80	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
12427	PAK/16/2010	Cattle	84.18	0	O	ME-SA	PanAsia-2	PUN-10
11282	MYA/7/98		83.81	0	O	SEA	Mya-98	None
10989	MUR/19/2016	Cattle	83.73	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		83.33	0	O	ME-SA	PanAsia-2	KHO-10

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

Virus sample: NIG/16/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/374 (0107 29-1-2025)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-12-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-07
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.47	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.31	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.31	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.31	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.31	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.31	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.31	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.16	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.16	0	O	EA-3	None	None
485417	NIG/7/2023	Cattle	97.16	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.47	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.99	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.80	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
12427	PAK/16/2010	Cattle	84.18	0	O	ME-SA	PanAsia-2	PUN-10
11282	MYA/7/98		83.81	0	O	SEA	Mya-98	None
10989	MUR/19/2016	Cattle	83.73	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		83.33	0	O	ME-SA	PanAsia-2	KHO-10

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

Virus sample: NIG/19/2024

Sample details

Reception Date:	2025-06-02
Sender reference:	FMD/24/377 (0116 29-1-2025)
Location of origin:	NA
Country of origin:	Nigeria
Date of collection:	2024-12-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-3
Lineage:	None
Sublineage:	None

Sequencing details

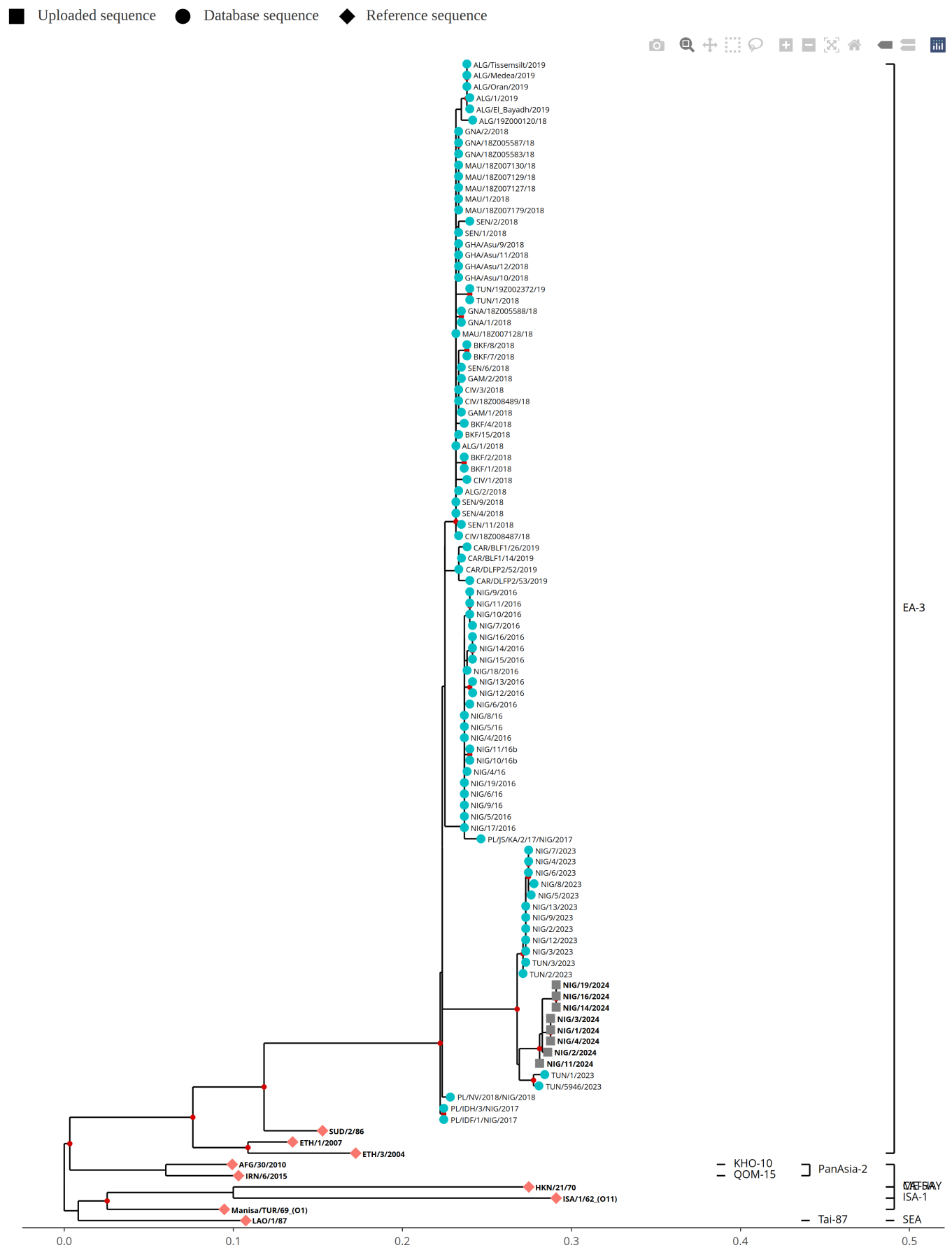
Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-06-06
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659135	TUN/2/2023	Cattle	97.47	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	97.31	0	O	EA-3	None	None
485413	NIG/3/2023	Cattle	97.31	0	O	EA-3	None	None
485419	NIG/9/2023	Cattle	97.31	0	O	EA-3	None	None
485420	NIG/12/2023	Cattle	97.31	0	O	EA-3	None	None
485421	NIG/13/2023	Cattle	97.31	0	O	EA-3	None	None
659136	TUN/3/2023	Cattle	97.31	0	O	EA-3	None	None
485414	NIG/4/2023	Cattle	97.16	0	O	EA-3	None	None
485416	NIG/6/2023	Cattle	97.16	0	O	EA-3	None	None
485417	NIG/7/2023	Cattle	97.16	0	O	EA-3	None	None
FMDV VP1 Prototype Sequences*								
14697	SUD/2/86	Cattle	86.41	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	85.47	0	O	EA-3	None	None
5422	ETH/1/2007	Cattle	84.99	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.80	0	O	ME-SA	PanAsia-2	QOM-15
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
12427	PAK/16/2010	Cattle	84.18	0	O	ME-SA	PanAsia-2	PUN-10
11282	MYA/7/98		83.81	0	O	SEA	Mya-98	None
10989	MUR/19/2016	Cattle	83.73	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		83.47	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		83.33	0	O	ME-SA	PanAsia-2	KHO-10

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

Tree



Analysis Parameters

Query sequence set: WRLFMD/2025/000013
Number of related sequences reported: 87
Number of prototype sequences in tree: 9
Minimal VP1 subsequence match length: 610
Sequence alignment length: 638

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
MAU/1/2018	None	Cattle	WRLFMD	Mauritania	O/EA-3	None
MAU/18Z007127/18 *	ON939585		ANSES	Mauritania	O/EA-3	None
MAU/18Z007128/18 *	ON939586		ANSES	Mauritania	O/EA-3	None
MAU/18Z007129/18 *	None		ANSES	Mauritania	O/EA-3	None
MAU/18Z007130/18 *	ON939587		ANSES	Mauritania	O/EA-3	None
NIG/10/16b *	MH894430	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/10/2016	OM221266	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/11/16b *	MH894431	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/11/2016	OM221267	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/12/2016	OM221268	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/13/2016	OM221269	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/14/2016	OM221270	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/15/2016	OM221271	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/16/2016	OM221272	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/17/2016	OM221273	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/18/2016	OM221274	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/19/2016	OM221275	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/4/16 *	MH894424	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/4/2016	OM221261	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/5/16 *	MH894425	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/5/2016	OM221262	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/6/16 *	MH894426	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/6/2016	OM221263	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/7/2016	OM221264	Sheep	WRLFMD	Nigeria	O/EA-3	None
NIG/8/16 *	MH894428	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/9/16 *	MH894429	Cattle	PIADC	Nigeria	O/EA-3	None
NIG/9/2016	OM221265	Cattle	WRLFMD	Nigeria	O/EA-3	None
PL/IDF/1/NIG/2017 *	None	Bovine	NCFAD	Nigeria	O/EA-3	None
PL/IDH/3/NIG/2017 *	None	Bovine	NCFAD	Nigeria	O/EA-3	None
PL/JS/KA/2/17/NIG/2017 *	None	Bovine	NCFAD	Nigeria	O/EA-3	None
PL/NV/2018/NIG/2018 *	None	Bovine	NCFAD	Nigeria	O/EA-3	None
SEN/1/2018	OM221283	Cattle	WRLFMD	Senegal	O/EA-3	None
SEN/11/2018	OM221288	Cattle	WRLFMD	Senegal	O/EA-3	None
SEN/2/2018	OM221284	Pig	WRLFMD	Senegal	O/EA-3	None
SEN/4/2018	OM221285	Cattle	WRLFMD	Senegal	O/EA-3	None
SEN/6/2018	OM221286	Cattle	WRLFMD	Senegal	O/EA-3	None
SEN/9/2018	OM221287	Cattle	WRLFMD	Senegal	O/EA-3	None
TUN/1/2018	None	Cattle	WRLFMD	Tunisia	O/EA-3	None
TUN/19Z002372/19 *	ON939572	Bovine	ANSES	Tunisia	O/EA-3	None
CAR/DLFP2/52/2019	None	Environmental	WRLFMD	Cameroon	O/EA-3	None
CAR/BLF1/14/2019	OR425065	Environmental	WRLFMD	Cameroon	O/EA-3	None
CAR/DLFP2/53/2019	OR425070	Environmental	WRLFMD	Cameroon	O/EA-3	None
BKF/1/2018	OM221171	Cattle	WRLFMD	Burkina Faso	O/EA-3	None
BKF/15/2018	OM221177	Cattle	WRLFMD	Burkina Faso	O/EA-3	None
BKF/2/2018	OM221172	Cattle	WRLFMD	Burkina Faso	O/EA-3	None
BKF/4/2018	OM221173	Cattle	WRLFMD	Burkina Faso	O/EA-3	None
BKF/7/2018	OM221174	Cattle	WRLFMD	Burkina Faso	O/EA-3	None
BKF/8/2018	OM221175	Cattle	WRLFMD	Burkina Faso	O/EA-3	None
CAR/BLF1/26/2019	None		WRLFMD	Cameroon	O/EA-3	None
ALG/1/2018	OM221169	Cattle	WRLFMD	Algeria	O/EA-3	None
ALG/1/2019	None	Cattle	WRLFMD	Algeria	O/EA-3	None
CIV/1/2018	None	Pig	WRLFMD	Cote d'Ivoire	O/EA-3	None
CIV/18Z008487/18 *	ON939583	Pig	ANSES	Cote d'Ivoire	O/EA-3	None
CIV/18Z008489/18 *	ON939584	Pig	ANSES	Cote d'Ivoire	O/EA-3	None
CIV/3/2018	None	Pig	WRLFMD	Cote d'Ivoire	O/EA-3	None
ALG/19Z000120/18 *	ON939561	Sheep	ANSES	Algeria	O/EA-3	None
ALG/2/2018	OM221170	Cattle	WRLFMD	Algeria	O/EA-3	None
NIG/2/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/3/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/4/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/5/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/6/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
NIG/7/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/8/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/9/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/12/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/13/2023	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
TUN/5946/2023 *	None	Cattle	ANSES	Tunisia	O/EA-3	None
ALG/EL_Bayadh/2019 *	None	Bovine	IZSLER	Algeria	O/EA-3	None
ALG/Medea/2019 *	None	Bovine	IZSLER	Algeria	O/EA-3	None
ALG/Oran/2019 *	None	Sheep	IZSLER	Algeria	O/EA-3	None
ALG/Tissemsilt/2019 *	None	Sheep	IZSLER	Algeria	O/EA-3	None
GAM/1/2018	OM221253	Cattle	WRLFMD	Gambia	O/EA-3	None
GAM/2/2018	OM221254	Cattle	WRLFMD	Gambia	O/EA-3	None
GHA/Asu/10/2018 *	LC456871	Zebu	NIAH-JAPAN	Ghana	O/EA-3	None
GHA/Asu/11/2018 *	LC456872	Zebu	NIAH-JAPAN	Ghana	O/EA-3	None
GHA/Asu/12/2018 *	LC456873	Zebu	NIAH-JAPAN	Ghana	O/EA-3	None
GHA/Asu/9/2018 *	LC456870	Zebu	NIAH-JAPAN	Ghana	O/EA-3	None
GNA/1/2018	None	Cattle	WRLFMD	Guinea	O/EA-3	None
GNA/18Z005583/18 *	ON939579		ANSES	Guinea	O/EA-3	None
GNA/18Z005587/18 *	ON939580		ANSES	Guinea	O/EA-3	None
GNA/18Z005588/18 *	ON939581		ANSES	Guinea	O/EA-3	None
GNA/2/2018	None	Cattle	WRLFMD	Guinea	O/EA-3	None
TUN/1/2023	None	Cattle	WRLFMD	Tunisia	O/EA-3	None
TUN/2/2023	None	Cattle	WRLFMD	Tunisia	O/EA-3	None
TUN/3/2023	None	Cattle	WRLFMD	Tunisia	O/EA-3	None
MAU/18Z007179/2018 *	ON939591	Cattle	ANSES	Mauritania	O/EA-3	35435315

* Not a WRLFMD Reference Number;

^ Not Available