



## FMD Genotyping Report

Lab Reference WRL batch Number: WRLFMD/2026/000004

Sender Details:

[REDACTED]

Date Received: 29<sup>th</sup> January 2026

Country of Origin\*: Algeria

Work has now been completed in respect of the samples 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:

[REDACTED]

Date: 5/3/2026

Official Stamp:

[REDACTED]

[REDACTED]

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](mailto:reflabsfeedback@pirbright.ac.uk)).

\* Data supplied by the customer



WOAH/FAO  
Foot-and-Mouth Disease  
Reference Laboratories  
Network



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

## FMDV Genotyping Report

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Generated from: **FMDtype** | FMDV Genotyping Tool

Downloaded on: 27 February 2026

Citation: WRLFMD. 2026. FMDV Genotyping Report [WRLFMD/2026/000004]. (Accessed 27/02/26)

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**FMDV serotype:** O

**Country:** Algeria

**Year:** 2025

**Batch:** WRLFMD/2026/000004

**No. of sequences:** 4

**Reported date:** 27 February 2026

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

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

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FMDtype is supported through funding from



Biotechnology and  
Biological Sciences  
Research Council

# Virus sample: ALG/6/2025

## Sample details

Reception Date:	2026-02-04
Sender reference:	2383-04/39/BO/11
Location of origin:	NA
Country of origin:	Algeria
Date of collection:	2025-12-01
Host species:	cattle

## Genotyping details

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

## Sequencing details

Material submitted for sequencing:	WRL-LFBK1 (T)
Material Harvest Date:	2026-02-12
Sequence length:	636
Ambiguities:	0

## Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
<b>FMDV VP1 Sequences</b>								
1200384	NIG/1/2024	Cattle	97.63	0	O	EA-3	None	None
1200386	NIG/3/2024	Cattle	97.63	0	O	EA-3	None	None
1200387	NIG/4/2024	Cattle	97.63	0	O	EA-3	None	None
1200388	NIG/11/2024	Cattle	97.63	0	O	EA-3	None	None
1200385	NIG/2/2024	Cattle	97.47	0	O	EA-3	None	None
1200389	NIG/14/2024	Cattle	97.00	0	O	EA-3	None	None
1200390	NIG/16/2024	Cattle	97.00	0	O	EA-3	None	None
1200391	NIG/19/2024	Cattle	97.00	0	O	EA-3	None	None
659135	TUN/2/2023	Cattle	96.05	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	95.89	0	O	EA-3	None	None
<b>FMDV VP1 Prototype Sequences*</b>								
14697	SUD/2/86	Cattle	84.99	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	84.52	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	83.81	0	O	ME-SA	PanAsia-2	QOM-15
5422	ETH/1/2007	Cattle	83.57	0	O	EA-3	None	None
11282	MYA/7/98		83.55	0	O	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.39	0	O	ME-SA	PanAsia-2	PUN-10
14504	SRL/2/97	Bovine	82.94	0	O	ME-SA	Srl-97	None
10989	MUR/19/2016	Cattle	82.62	0	O	ME-SA	Ind-2001	e
7532	IND/R2/75		82.38	0	O	ME-SA	None	None
17602	UKG/35/2001		82.20	0	O	ME-SA	PanAsia	None

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

# Virus sample: ALG/9/2025

## Sample details

Reception Date:	2026-02-04
Sender reference:	2384-01/BV/25
Location of origin:	NA
Country of origin:	Algeria
Date of collection:	2025-12-02
Host species:	cattle

## Genotyping details

Serotype:	0
Topotype:	EA-3
Lineage:	None
Sublineage:	None

## Sequencing details

Material submitted for sequencing:	WRL-LFBK1 (T)
Material Harvest Date:	2026-02-12
Sequence length:	636
Ambiguities:	0

## Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
<b>FMDV VP1 Sequences</b>								
1200384	NIG/1/2024	Cattle	97.95	0	0	EA-3	None	None
1200386	NIG/3/2024	Cattle	97.95	0	0	EA-3	None	None
1200387	NIG/4/2024	Cattle	97.95	0	0	EA-3	None	None
1200388	NIG/11/2024	Cattle	97.95	0	0	EA-3	None	None
1200385	NIG/2/2024	Cattle	97.79	0	0	EA-3	None	None
1200389	NIG/14/2024	Cattle	97.31	0	0	EA-3	None	None
1200390	NIG/16/2024	Cattle	97.31	0	0	EA-3	None	None
1200391	NIG/19/2024	Cattle	97.31	0	0	EA-3	None	None
659135	TUN/2/2023	Cattle	96.37	0	0	EA-3	None	None
485412	NIG/2/2023	Cattle	96.21	0	0	EA-3	None	None
<b>FMDV VP1 Prototype Sequences*</b>								
14697	SUD/2/86	Cattle	85.31	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	84.83	0	0	EA-3	None	None
8790	IRN/6/2015	Cattle	84.12	0	0	ME-SA	PanAsia-2	QOM-15
5422	ETH/1/2007	Cattle	83.89	0	0	EA-3	None	None
11282	MYA/7/98		83.87	0	0	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.70	0	0	ME-SA	PanAsia-2	PUN-10
14504	SRL/2/97	Bovine	83.25	0	0	ME-SA	Srl-97	None
10989	MUR/19/2016	Cattle	82.94	0	0	ME-SA	Ind-2001	e
17602	UKG/35/2001		82.52	0	0	ME-SA	PanAsia	None
212	AFG/30/2010		82.39	0	0	ME-SA	PanAsia-2	KHO-10

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

# Virus sample: ALG/10/2025

## Sample details

<b>Reception Date:</b>	2026-02-04
<b>Sender reference:</b>	2384-01/BV/25
<b>Location of origin:</b>	NA
<b>Country of origin:</b>	Algeria
<b>Date of collection:</b>	2025-12-02
<b>Host species:</b>	cattle

## Genotyping details

<b>Serotype:</b>	O
<b>Topotype:</b>	EA-3
<b>Lineage:</b>	None
<b>Sublineage:</b>	None

## Sequencing details

<b>Material submitted for sequencing:</b>	WRL-LFBK1 and WRL-LFBK1 (T)
<b>Material Harvest Date:</b>	2026-02-11
<b>Sequence length:</b>	636
<b>Ambiguities:</b>	0

## Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
<b>FMDV VP1 Sequences</b>								
1200384	NIG/1/2024	Cattle	97.95	0	O	EA-3	None	None
1200386	NIG/3/2024	Cattle	97.95	0	O	EA-3	None	None
1200387	NIG/4/2024	Cattle	97.95	0	O	EA-3	None	None
1200388	NIG/11/2024	Cattle	97.95	0	O	EA-3	None	None
1200385	NIG/2/2024	Cattle	97.79	0	O	EA-3	None	None
1200389	NIG/14/2024	Cattle	97.31	0	O	EA-3	None	None
1200390	NIG/16/2024	Cattle	97.31	0	O	EA-3	None	None
1200391	NIG/19/2024	Cattle	97.31	0	O	EA-3	None	None
659135	TUN/2/2023	Cattle	96.37	0	O	EA-3	None	None
485412	NIG/2/2023	Cattle	96.21	0	O	EA-3	None	None
<b>FMDV VP1 Prototype Sequences*</b>								
14697	SUD/2/86	Cattle	85.31	0	O	EA-3	None	None
5575	ETH/3/2004	Cattle	84.83	0	O	EA-3	None	None
8790	IRN/6/2015	Cattle	84.12	0	O	ME-SA	PanAsia-2	QOM-15
5422	ETH/1/2007	Cattle	83.89	0	O	EA-3	None	None
11282	MYA/7/98		83.87	0	O	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.70	0	O	ME-SA	PanAsia-2	PUN-10
14504	SRL/2/97	Bovine	83.25	0	O	ME-SA	Srl-97	None
10989	MUR/19/2016	Cattle	82.94	0	O	ME-SA	Ind-2001	e
17602	UKG/35/2001		82.52	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		82.39	0	O	ME-SA	PanAsia-2	KHO-10

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

# Virus sample: ALG/13/2025

## Sample details

Reception Date:	2026-02-04
Sender reference:	2384-02/BV/25
Location of origin:	NA
Country of origin:	Algeria
Date of collection:	2025-12-02
Host species:	cattle

## Genotyping details

Serotype:	0
Topotype:	EA-3
Lineage:	None
Sublineage:	None

## Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-02-10
Sequence length:	636
Ambiguities:	0

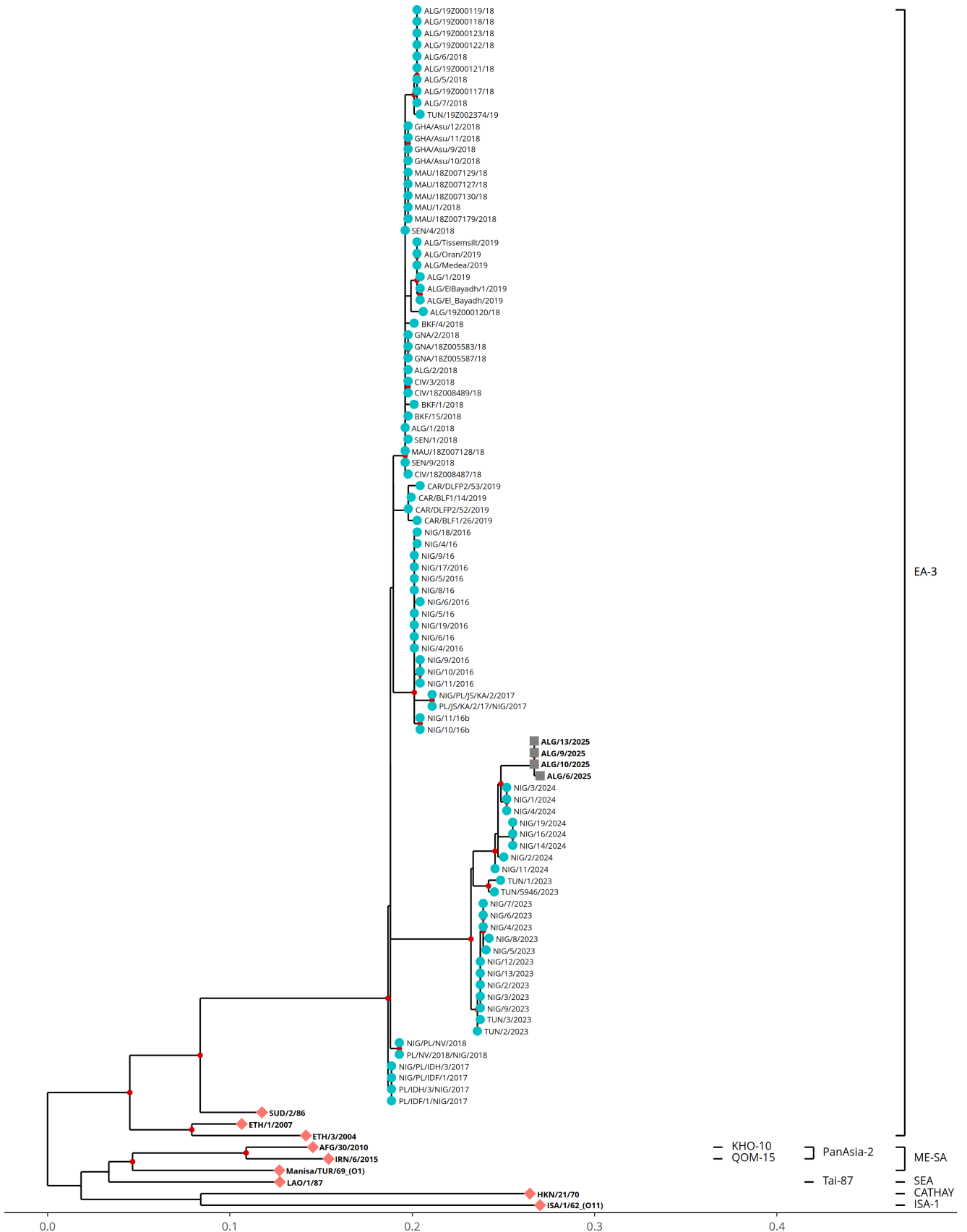
## Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
<b>FMDV VP1 Sequences</b>								
1200384	NIG/1/2024	Cattle	97.95	0	0	EA-3	None	None
1200386	NIG/3/2024	Cattle	97.95	0	0	EA-3	None	None
1200387	NIG/4/2024	Cattle	97.95	0	0	EA-3	None	None
1200388	NIG/11/2024	Cattle	97.95	0	0	EA-3	None	None
1200385	NIG/2/2024	Cattle	97.79	0	0	EA-3	None	None
1200389	NIG/14/2024	Cattle	97.31	0	0	EA-3	None	None
1200390	NIG/16/2024	Cattle	97.31	0	0	EA-3	None	None
1200391	NIG/19/2024	Cattle	97.31	0	0	EA-3	None	None
659135	TUN/2/2023	Cattle	96.37	0	0	EA-3	None	None
485412	NIG/2/2023	Cattle	96.21	0	0	EA-3	None	None
<b>FMDV VP1 Prototype Sequences*</b>								
14697	SUD/2/86	Cattle	85.31	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	84.83	0	0	EA-3	None	None
8790	IRN/6/2015	Cattle	84.12	0	0	ME-SA	PanAsia-2	QOM-15
5422	ETH/1/2007	Cattle	83.89	0	0	EA-3	None	None
11282	MYA/7/98		83.87	0	0	SEA	Mya-98	None
12427	PAK/16/2010	Cattle	83.70	0	0	ME-SA	PanAsia-2	PUN-10
14504	SRL/2/97	Bovine	83.25	0	0	ME-SA	Sri-97	None
10989	MUR/19/2016	Cattle	82.94	0	0	ME-SA	Ind-2001	e
17602	UKG/35/2001		82.52	0	0	ME-SA	PanAsia	None
212	AFG/30/2010		82.39	0	0	ME-SA	PanAsia-2	KHO-10

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

# Tree

■ Uploaded sequence ● Database sequence ◆ Reference sequence



# Analysis Parameters

**Query sequence set:** WRLFMD/2026/000004  
**Number of related sequences reported:** 91  
**Number of prototype sequences in tree:** 9  
**Minimal VP1 subsequence match length:** 610  
**Sequence alignment length:** 636

**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/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/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
NIG/1/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/2/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/3/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/4/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/11/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/14/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/16/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
NIG/19/2024	None	Cattle	WRLFMD	Nigeria	O/EA-3	None
SEN/1/2018	OM221283	Cattle	WRLFMD	Senegal	O/EA-3	None
SEN/4/2018	OM221285	Cattle	WRLFMD	Senegal	O/EA-3	None
SEN/9/2018	OM221287	Cattle	WRLFMD	Senegal	O/EA-3	None
TUN/19Z002374/19 *	ON939574	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/4/2018	OM221173	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/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/19Z000117/18 *	ON939558	Bovine	ANSES	Algeria	O/EA-3	None
ALG/19Z000118/18 *	ON939559	Bovine	ANSES	Algeria	O/EA-3	None
ALG/19Z000119/18 *	ON939560	Bovine	ANSES	Algeria	O/EA-3	None
ALG/19Z000120/18 *	ON939561	Sheep	ANSES	Algeria	O/EA-3	None
ALG/19Z000121/18 *	ON939562	Goat	ANSES	Algeria	O/EA-3	None
ALG/19Z000122/18 *	ON939563	Goat	ANSES	Algeria	O/EA-3	None
ALG/19Z000123/18 *	ON939564	Goat	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/5/2018	None	Cattle	WRLFMD	Algeria	O/EA-3	None
ALG/6/2018	None	Cattle	WRLFMD	Algeria	O/EA-3	None
ALG/7/2018	None	Cattle	WRLFMD	Algeria	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
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/18Z005583/18 *	ON939579		ANSES	Guinea	O/EA-3	None
GNA/18Z005587/18 *	ON939580		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
NIG/PL/NV/2018 *	OM022642	Cattle	NCFAD	Nigeria	O/EA-3	None
NIG/PL/JS/KA/2/2017 *	OM022643	Cattle	NCFAD	Nigeria	O/EA-3	None
NIG/PL/IDF/1/2017 *	OM022648	Cattle	NCFAD	Nigeria	O/EA-3	None
NIG/PL/IDH/3/2017 *	OM022649	Cattle	NCFAD	Nigeria	O/EA-3	None
MAU/18Z007179/2018 *	ON939591	Cattle	ANSES	Mauritania	O/EA-3	35435315
ALG/ElBayadh/1/2019 *	OP594311	Cattle	IZSLER	Algeria	O/EA-3	36428427

\* Not a WRLFMD Reference Number;

^ Not Available