



FMD Genotyping Reports

Lab Reference WRL batch Number: WRLFMD/2026/000006

Sender Details:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Date Received: 20/2/2026

Country of Origin*: Türkiye

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]

Official Stamp:

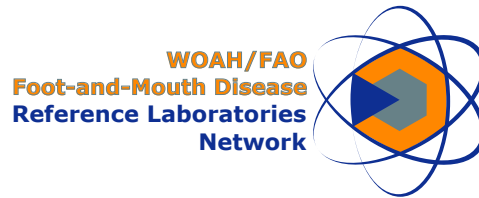
[REDACTED]

Date: 7th April 2026

C.C. [REDACTED]
[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).

* 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: 01 April 2026

Citation: WRLFMD. 2026. FMDV Genotyping Report [WRLFMD/2026/000006]. (Accessed 01/04/26)

FMDV serotype: SAT2

Country: Türkiye

Year: 2025

Batch: WRLFMD/2026/000006

No. of sequences: 5

Reported date: 01 April 2026

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: TUR/4/2025

Sample details

Reception Date:	2026-02-20
Sender reference:	SAT2/TUR/Kastamonu/209/2025
Location of origin:	Yukaribatak, Merkez, Kastamonu
Country of origin:	Turkiye
Date of collection:	2025-03-24
Host species:	cattle

Genotyping details

Serotype:	SAT2
Topotype:	XIV
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-03-03
Sequence length:	642
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485673	TUR/18/2023	Cattle	97.97	0	SAT2	XIV	None	None
485664	TUR/9/2023	Cattle	97.51	0	SAT2	XIV	None	None
485665	TUR/10/2023	Cattle	97.51	0	SAT2	XIV	None	None
485676	TUR/79/2023	Cattle	97.51	0	SAT2	XIV	None	None
485659	TUR/4/2023	Cattle	97.35	0	SAT2	XIV	None	None
485660	TUR/5/2023	Cattle	97.35	0	SAT2	XIV	None	None
485661	TUR/6/2023	Cattle	97.35	0	SAT2	XIV	None	None
485663	TUR/8/2023	Cattle	97.35	0	SAT2	XIV	None	None
485671	TUR/16/2023	Cattle	97.35	0	SAT2	XIV	None	None
485675	TUR/20/2023a	Cattle	97.35	0	SAT2	XIV	None	None
FMDV VP1 Prototype Sequences*								
296369	ETH/2/2022	Bovine	96.26	0	SAT2	XIV	None	None
5525	ETH/2/91	Cattle	83.52	0	SAT2	XIV	None	None

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

Virus sample: TUR/6/2025

Sample details

Reception Date:	2026-02-20
Sender reference:	SAT2/TUR/Kirsehir/276/2025
Location of origin:	Karincali, Merkez, Kirsehir
Country of origin:	Turkiye
Date of collection:	2025-05-13
Host species:	cattle

Genotyping details

Serotype:	SAT2
Topotype:	XIV
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-03-03
Sequence length:	642
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485673	TUR/18/2023	Cattle	97.97	0	SAT2	XIV	None	None
485664	TUR/9/2023	Cattle	97.51	0	SAT2	XIV	None	None
485665	TUR/10/2023	Cattle	97.51	0	SAT2	XIV	None	None
485676	TUR/79/2023	Cattle	97.51	0	SAT2	XIV	None	None
485659	TUR/4/2023	Cattle	97.35	0	SAT2	XIV	None	None
485660	TUR/5/2023	Cattle	97.35	0	SAT2	XIV	None	None
485661	TUR/6/2023	Cattle	97.35	0	SAT2	XIV	None	None
485663	TUR/8/2023	Cattle	97.35	0	SAT2	XIV	None	None
485671	TUR/16/2023	Cattle	97.35	0	SAT2	XIV	None	None
485675	TUR/20/2023a	Cattle	97.35	0	SAT2	XIV	None	None
FMDV VP1 Prototype Sequences*								
296369	ETH/2/2022	Bovine	96.26	0	SAT2	XIV	None	None
5525	ETH/2/91	Cattle	83.83	0	SAT2	XIV	None	None

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

Virus sample: TUR/7/2025

Sample details

Reception Date:	2026-02-20
Sender reference:	SAT2/TUR/Burdur/304/2025
Location of origin:	Kilavuzlar, Karamanli, Burdur
Country of origin:	Turkiye
Date of collection:	2025-05-16
Host species:	cattle

Genotyping details

Serotype:	SAT2
Topotype:	XIV
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-03-03
Sequence length:	642
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485673	TUR/18/2023	Cattle	97.51	0	SAT2	XIV	None	None
485664	TUR/9/2023	Cattle	97.04	0	SAT2	XIV	None	None
485665	TUR/10/2023	Cattle	97.04	0	SAT2	XIV	None	None
485676	TUR/79/2023	Cattle	97.04	0	SAT2	XIV	None	None
485659	TUR/4/2023	Cattle	96.89	0	SAT2	XIV	None	None
485660	TUR/5/2023	Cattle	96.89	0	SAT2	XIV	None	None
485661	TUR/6/2023	Cattle	96.89	0	SAT2	XIV	None	None
485663	TUR/8/2023	Cattle	96.89	0	SAT2	XIV	None	None
485671	TUR/16/2023	Cattle	96.89	0	SAT2	XIV	None	None
485675	TUR/20/2023a	Cattle	96.89	0	SAT2	XIV	None	None
FMDV VP1 Prototype Sequences*								
296369	ETH/2/2022	Bovine	95.79	0	SAT2	XIV	None	None
5525	ETH/2/91	Cattle	83.41	0	SAT2	XIV	None	None

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

Virus sample: TUR/14/2025

Sample details

Reception Date:	2026-02-20
Sender reference:	SAT2/TUR/Kocaeli/351/2025
Location of origin:	Irsadiye, Golcuk, Kocaeli
Country of origin:	Turkiye
Date of collection:	2025-06-11
Host species:	cattle

Genotyping details

Serotype:	SAT2
Topotype:	XIV
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-03-10
Sequence length:	642
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485673	TUR/18/2023	Cattle	98.13	0	SAT2	XIV	None	None
485664	TUR/9/2023	Cattle	97.66	0	SAT2	XIV	None	None
485665	TUR/10/2023	Cattle	97.66	0	SAT2	XIV	None	None
485676	TUR/79/2023	Cattle	97.66	0	SAT2	XIV	None	None
485659	TUR/4/2023	Cattle	97.51	0	SAT2	XIV	None	None
485660	TUR/5/2023	Cattle	97.51	0	SAT2	XIV	None	None
485661	TUR/6/2023	Cattle	97.51	0	SAT2	XIV	None	None
485663	TUR/8/2023	Cattle	97.51	0	SAT2	XIV	None	None
485671	TUR/16/2023	Cattle	97.51	0	SAT2	XIV	None	None
485675	TUR/20/2023a	Cattle	97.51	0	SAT2	XIV	None	None
FMDV VP1 Prototype Sequences*								
296369	ETH/2/2022	Bovine	96.42	0	SAT2	XIV	None	None
5525	ETH/2/91	Cattle	83.67	0	SAT2	XIV	None	None

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

Virus sample: TUR/17/2025

Sample details

Reception Date:	2026-02-20
Sender reference:	SAT2/TUR/Giresun/414/2025
Location of origin:	Yesilpinar, Yaglidere, Giresun
Country of origin:	Turkiye
Date of collection:	2025-06-20
Host species:	cattle

Genotyping details

Serotype:	SAT2
Topotype:	XIV
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-03-12
Sequence length:	642
Ambiguities:	0

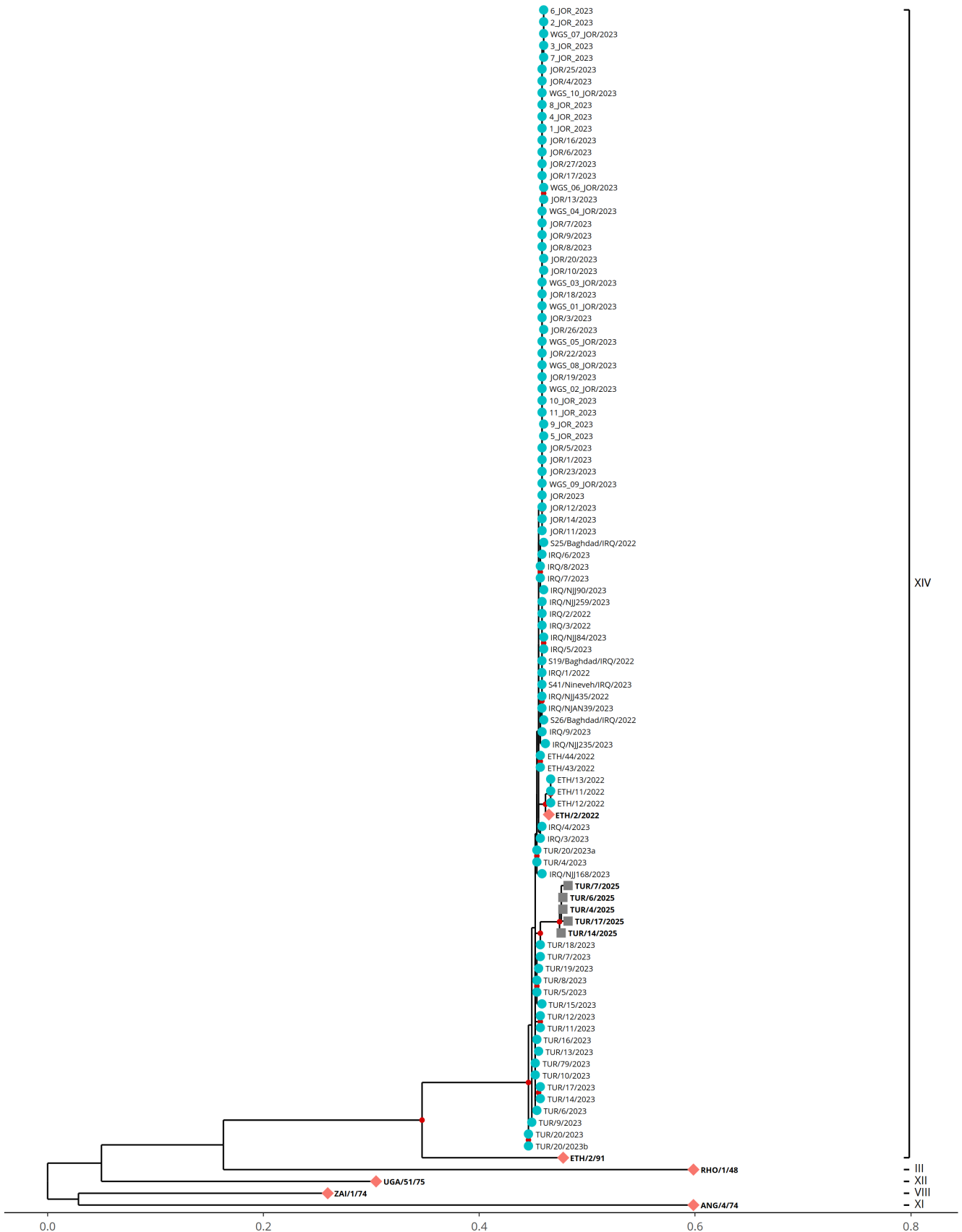
Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485673	TUR/18/2023	Cattle	97.97	0	SAT2	XIV	None	None
485664	TUR/9/2023	Cattle	97.51	0	SAT2	XIV	None	None
485665	TUR/10/2023	Cattle	97.51	0	SAT2	XIV	None	None
485676	TUR/79/2023	Cattle	97.51	0	SAT2	XIV	None	None
485659	TUR/4/2023	Cattle	97.35	0	SAT2	XIV	None	None
485660	TUR/5/2023	Cattle	97.35	0	SAT2	XIV	None	None
485661	TUR/6/2023	Cattle	97.35	0	SAT2	XIV	None	None
485663	TUR/8/2023	Cattle	97.35	0	SAT2	XIV	None	None
485671	TUR/16/2023	Cattle	97.35	0	SAT2	XIV	None	None
485675	TUR/20/2023a	Cattle	97.35	0	SAT2	XIV	None	None
FMDV VP1 Prototype Sequences*								
296369	ETH/2/2022	Bovine	96.26	0	SAT2	XIV	None	None
5525	ETH/2/91	Cattle	83.52	0	SAT2	XIV	None	None

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

Tree

Uploaded sequence
 Database sequence
 Reference sequence



Analysis Parameters

Query sequence set: WRLFMD/2026/000006
Number of related sequences reported: 91
Number of prototype sequences in tree: 6
Minimal VP1 subsequence match length: 610
Sequence alignment length: 643

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
S26/Baghdad/IRQ/2022 *	None	Water Buffalo	FMDI	Iraq	SAT2/XIV	None
S25/Baghdad/IRQ/2022 *	None	Water Buffalo	FMDI	Iraq	SAT2/XIV	None
S19/Baghdad/IRQ/2022 *	None	Water Buffalo	FMDI	Iraq	SAT2/XIV	None
S41/Nineveh/IRQ/2023 *	None	Cattle	FMDI	Iraq	SAT2/XIV	None
JOR/2023 *	None	Cattle	JUST	Jordan	SAT2/XIV	None
IRQ/1/2022	None	Water Buffalo	WRLFMD	Iraq	SAT2/XIV	None
IRQ/2/2022	None	Water Buffalo	WRLFMD	Iraq	SAT2/XIV	None
IRQ/3/2022	None	Water Buffalo	WRLFMD	Iraq	SAT2/XIV	None
IRQ/3/2023	None	Cattle	WRLFMD	Iraq	SAT2/XIV	None
IRQ/4/2023	None	Cattle	WRLFMD	Iraq	SAT2/XIV	None
IRQ/5/2023	None	Cattle	WRLFMD	Iraq	SAT2/XIV	None
IRQ/6/2023	None	Cattle	WRLFMD	Iraq	SAT2/XIV	None
IRQ/7/2023	None	Cattle	WRLFMD	Iraq	SAT2/XIV	None
IRQ/8/2023	None	Cattle	WRLFMD	Iraq	SAT2/XIV	None
IRQ/9/2023	None	Water Buffalo	WRLFMD	Iraq	SAT2/XIV	None
JOR/1/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/3/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/4/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/5/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/6/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/7/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/8/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/9/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/10/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/11/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/12/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/13/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/14/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/16/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/17/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/18/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/19/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/20/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/22/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/23/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/25/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/26/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
JOR/27/2023	None	Cattle	WRLFMD	Jordan	SAT2/XIV	None
TUR/4/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/5/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/6/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/7/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/8/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/9/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/10/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/11/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/12/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/13/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/14/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/15/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/16/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/17/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/18/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/19/2023	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/20/2023a	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
TUR/79/2023 *	None	Cattle	FMDI	Turkiye	SAT2/XIV	None
TUR/20/2023b	None	Cattle	WRLFMD	Turkiye	SAT2/XIV	None
ETH/11/2022	PQ847923	Cattle	WRLFMD	Ethiopia	SAT2/XIV	None
ETH/12/2022	PQ847924	Cattle	WRLFMD	Ethiopia	SAT2/XIV	None
ETH/13/2022	PQ847925	Cattle	WRLFMD	Ethiopia	SAT2/XIV	None
ETH/43/2022	PQ847935	Cattle	WRLFMD	Ethiopia	SAT2/XIV	None
ETH/44/2022	PQ847936	Cattle	WRLFMD	Ethiopia	SAT2/XIV	None

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
IRQ/NJAN39/2023 *	LC801596	Cattle	BAGHDAD-U	Iraq	SAT2/XIV	None
IRQ/NJJ84/2023 *	LC801597	Water Buffalo	BAGHDAD-U	Iraq	SAT2/XIV	None
IRQ/NJJ90/2023 *	LC801599	Cattle	BAGHDAD-U	Iraq	SAT2/XIV	None
IRQ/NJJ168/2023 *	LC801600	Water Buffalo	BAGHDAD-U	Iraq	SAT2/XIV	None
IRQ/NJJ235/2023 *	LC801603	Cattle	BAGHDAD-U	Iraq	SAT2/XIV	None
IRQ/NJJ259/2023 *	LC801604	Cattle	BAGHDAD-U	Iraq	SAT2/XIV	None
IRQ/NJJ435/2022 *	LC801605	Cattle	BAGHDAD-U	Iraq	SAT2/XIV	None
1_JOR_2023 *	PP093354	Cattle	JUST	Jordan	SAT2/XIV	None
2_JOR_2023 *	PP093355	Cattle	JUST	Jordan	SAT2/XIV	None
3_JOR_2023 *	PP093356	Cattle	JUST	Jordan	SAT2/XIV	None
4_JOR_2023 *	PP093357	Cattle	JUST	Jordan	SAT2/XIV	None
5_JOR_2023 *	PP093358	Cattle	JUST	Jordan	SAT2/XIV	None
6_JOR_2023 *	PP093359	Cattle	JUST	Jordan	SAT2/XIV	None
7_JOR_2023 *	PP093360	Cattle	JUST	Jordan	SAT2/XIV	None
8_JOR_2023 *	PP093361	Cattle	JUST	Jordan	SAT2/XIV	None
9_JOR_2023 *	PP093362	Cattle	JUST	Jordan	SAT2/XIV	None
10_JOR_2023 *	PP093363	Cattle	JUST	Jordan	SAT2/XIV	None
11_JOR_2023 *	PP093364	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_01_JOR/2023 *	PP112252	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_02_JOR/2023 *	PP112253	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_03_JOR/2023 *	PP112254	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_04_JOR/2023 *	PP112255	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_05_JOR/2023 *	PP112256	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_06_JOR/2023 *	PP112257	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_07_JOR/2023 *	PP112258	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_08_JOR/2023 *	PP112259	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_09_JOR/2023 *	PP112260	Cattle	JUST	Jordan	SAT2/XIV	None
WGS_10_JOR/2023 *	PP112261	Cattle	JUST	Jordan	SAT2/XIV	None
TUR/20/2023	PP432673	Cattle	WRLFMD	Turkiye	SAT2/XIV	None

* Not a WRLFMD Reference Number;

^ Not Available