



FMD Genotyping Report

Lab Reference WRL batch Number: WRLFMD/2025/000016

Sender Details:



Date Received: 11/09/2025

Country of Origin*: Ethiopia

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



Official Stamp:

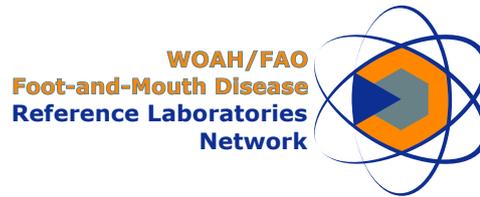


Date:

10/11/25

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: 05 November 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLFMD/2025/000016]. (Accessed 05/11/25)

FMDV serotype: O

Country: Ethiopia

Year: 2024

Batch: WRLFMD/2025/000016

No. of sequences: 20

Reported date: 05 November 2025

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: ETH/1/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11095
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.68	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.47	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.16	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.16	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	97.00	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.84	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.52	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.42	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.25	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/2/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11092
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.68	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.68	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.52	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.37	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.05	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.42	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.26	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
9823	K83/79		84.25	0	O	EA-1	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
14798	SYR/18/62		84.07	0	O	WCSA-1	Syr-62	None
9747	K40/84	Cattle	83.57	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b

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

Virus sample: ETH/4/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11091
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.68	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.68	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.52	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.37	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	96.05	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.42	0	0	EA-2	None	None
659100	KEN/2/2023	Cattle	95.26	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	0	EA-2	None	None
17205	UGA/3/2002		86.73	1	0	EA-2	None	None
9823	K83/79		84.25	0	0	EA-1	None	None
14504	SRL/2/97	Bovine	84.20	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	0	ME-SA	Ind-2001	c
14798	SYR/18/62		84.07	0	0	WCSA-1	Syr-62	None
9747	K40/84	Cattle	83.57	0	0	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.54	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/5/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11094
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.68	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.47	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.16	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.16	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	97.00	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.84	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.52	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.42	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.25	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/6/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11100
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.68	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.47	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.16	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.16	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	97.00	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.84	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.52	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.42	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.25	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/7/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11104
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	0	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	0	EA-2	None	None
17205	UGA/3/2002		86.57	1	0	EA-2	None	None
14504	SRL/2/97	Bovine	84.04	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	0	ME-SA	Ind-2001	c
9823	K83/79		83.78	0	0	EA-1	None	None
3294	BHU/3/2009	Cattle	83.70	0	0	ME-SA	Ind-2001	d
14798	SYR/18/62		83.60	0	0	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.39	0	0	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.10	0	0	EA-1	None	None

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

Virus sample: ETH/9/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	24965
Location of origin:	Wirsensa, Abe Dogoro, Horo Guduru Welega, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-03-25
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659099	KEN/1/2023	Cattle	97.16	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.58	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.42	0	O	EA-2	None	None
659101	KEN/3/2023	Cattle	95.26	0	O	EA-2	None	None
659104	KEN/7/2023	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	88.47	0	O	EA-2	None	None
17205	UGA/3/2002		87.99	1	O	EA-2	None	None
10699	MAL/1/98		87.68	0	O	EA-2	None	None
9747	K40/84	Cattle	83.89	0	O	EA-1	None	None
10350	KUW/3/97		83.65	0	O	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	83.15	0	O	ME-SA	Ind-2001	d
14504	SRL/2/97	Bovine	82.94	0	O	ME-SA	Srl-97	None
14798	SYR/18/62		82.94	0	O	WCSA-1	Syr-62	None
10481	LAO/2/2006	Cattle	82.62	0	O	ME-SA	PanAsia	None

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

Virus sample: ETH/11/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	9
Location of origin:	Morka, Kuch, Gamo, South Ethiopia
Country of origin:	Ethiopia
Date of collection:	2024-03-30
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	98.89	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	0	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	94.94	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.36	0	0	EA-2	None	None
17205	UGA/3/2002		86.26	1	0	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	0	ME-SA	Ind-2001	c
9823	K83/79		84.09	0	0	EA-1	None	None
14798	SYR/18/62		83.91	0	0	WCSA-1	Syr-62	None
10350	KUW/3/97		83.81	0	0	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	83.70	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/12/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	10
Location of origin:	Morka, Kuch, Gamo, South Ethiopia
Country of origin:	Ethiopia
Date of collection:	2024-03-30
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-23
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	98.89	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	0	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	94.94	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.36	0	0	EA-2	None	None
17205	UGA/3/2002		86.26	1	0	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	0	ME-SA	Ind-2001	c
9823	K83/79		84.09	0	0	EA-1	None	None
14798	SYR/18/62		83.91	0	0	WCSA-1	Syr-62	None
10350	KUW/3/97		83.81	0	0	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	83.70	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/13/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11
Location of origin:	Morka, Kuch, Gamo, South Ethiopia
Country of origin:	Ethiopia
Date of collection:	2024-03-30
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-23
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	98.89	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	0	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	94.94	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.36	0	0	EA-2	None	None
17205	UGA/3/2002		86.26	1	0	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	0	ME-SA	Ind-2001	c
9823	K83/79		84.09	0	0	EA-1	None	None
14798	SYR/18/62		83.91	0	0	WCSA-1	Syr-62	None
10350	KUW/3/97		83.81	0	0	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	83.70	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/14/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	12
Location of origin:	Morka, Kuch, Gamo, South Ethiopia
Country of origin:	Ethiopia
Date of collection:	2024-03-30
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2025-09-30
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	98.89	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	0	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	94.94	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.36	0	0	EA-2	None	None
17205	UGA/3/2002		86.26	1	0	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	0	ME-SA	Ind-2001	c
9823	K83/79		84.09	0	0	EA-1	None	None
14798	SYR/18/62		83.91	0	0	WCSA-1	Syr-62	None
10350	KUW/3/97		83.81	0	0	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	83.70	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/21/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	21206
Location of origin:	Kebele 01, Habal, West Arsi, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-10
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-24
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	0	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	0	EA-2	None	None
17205	UGA/3/2002		86.57	1	0	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	0	ME-SA	Ind-2001	c
14798	SYR/18/62		83.91	0	0	WCSA-1	Syr-62	None
9823	K83/79		83.78	0	0	EA-1	None	None
3294	BHU/3/2009	Cattle	83.70	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.39	0	0	ME-SA	Ind-2001	b
10481	LAO/2/2006	Cattle	83.23	0	0	ME-SA	PanAsia	None

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

Virus sample: ETH/24/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	21216
Location of origin:	Deneba Farm, Kulito, Halaba, Central Ethiopia
Country of origin:	Ethiopia
Date of collection:	2024-10-13
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-24
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.63	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	O	EA-2	None	None
17205	UGA/3/2002		86.89	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	O	ME-SA	Ind-2001	c
9823	K83/79		84.09	0	O	EA-1	None	None
14798	SYR/18/62		83.91	0	O	WCSEA-1	Syr-62	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.41	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/26/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	21215
Location of origin:	Deneba Farm, Kulito, Halaba, Central Ethiopia
Country of origin:	Ethiopia
Date of collection:	2024-10-13
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-24
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.37	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.47	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.58	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.42	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.10	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.25	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/27/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	22575
Location of origin:	AI Center, Akaki Kality, Akaki Sub City, Addis Ababa
Country of origin:	Ethiopia
Date of collection:	2024-10-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-24
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.04	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.91	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.60	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.39	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.10	0	O	EA-1	None	None

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

Virus sample: ETH/28/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	22587
Location of origin:	Sebeta Town, Sebeta Town, Southwest Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-30
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.04	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.78	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.60	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.39	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.10	0	O	EA-1	None	None

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

Virus sample: ETH/29/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	22583
Location of origin:	Guje, Gatarse, Sheger City, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-30
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.68	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.68	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.52	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.37	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.05	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.42	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.26	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
9823	K83/79		84.25	0	O	EA-1	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
14798	SYR/18/62		84.07	0	O	WCSA-1	Syr-62	None
9747	K40/84	Cattle	83.57	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b

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

Virus sample: ETH/30/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	22581
Location of origin:	Guje, Gatarse, Sheger City, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-30
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.68	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.68	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.52	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.37	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.05	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.42	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.26	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
9823	K83/79		84.25	0	O	EA-1	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
14798	SYR/18/62		84.07	0	O	WCSA-1	Syr-62	None
9747	K40/84	Cattle	83.57	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b

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

Virus sample: ETH/31/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	22586
Location of origin:	Sebeta Town, Sebeta Town, Southwest Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.68	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.47	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.16	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.16	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	97.00	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.84	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.52	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.42	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.25	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/32/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	22573
Location of origin:	AI Center, Akaki Kality, Akaki sub city, Addis Ababa
Country of origin:	Ethiopia
Date of collection:	2024-10-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-09-30
Sequence length:	636
Ambiguities:	0

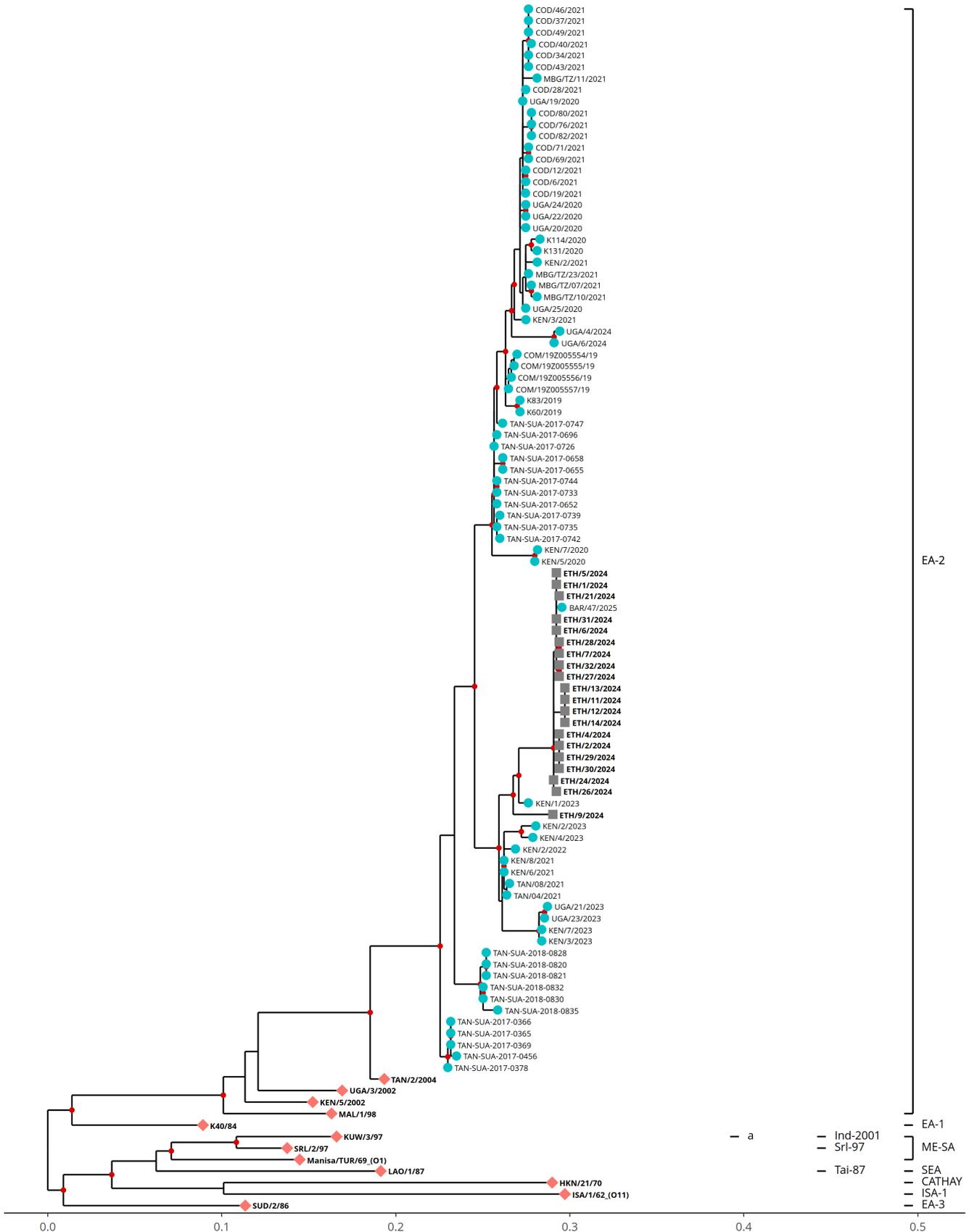
Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.04	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.91	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.60	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.39	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.10	0	O	EA-1	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/2025/000016
Number of related sequences reported: 73
Number of prototype sequences in tree: 12
Minimal VP1 subsequence match length: 610
Sequence alignment length: 633

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

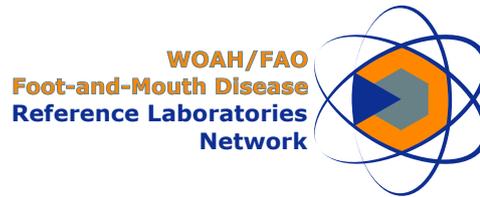
Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
BAR/47/2025	None	Cattle	WRLFMD	Bahrain	O/EA-2	None
TAN-SUA-2017-0365 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0366 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0369 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0378 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0456 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0652 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0655 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0658 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0696 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0726 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0733 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0735 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0739 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0742 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0744 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0747 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0820 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0821 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0828 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0830 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0832 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0835 *	None	Pig	SUA	Tanzania	O/EA-2	None
COD/6/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/12/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/19/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/28/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/34/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/37/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/40/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/43/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/46/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/49/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/69/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/71/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/76/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/80/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/82/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
KEN/5/2020	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/7/2020	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/2/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/3/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/6/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/8/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
UGA/19/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/20/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/22/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/24/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/25/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
COM/19Z005554/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
COM/19Z005555/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
COM/19Z005556/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
COM/19Z005557/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
K60/2019 *	OP184914	Bovine	EMBAKASI	Kenya	O/EA-2	None
K83/2019 *	OP184915	Bovine	EMBAKASI	Kenya	O/EA-2	None
K114/2020 *	OP184913	Bovine	EMBAKASI	Kenya	O/EA-2	None
K131/2020 *	OP184912	Bovine	EMBAKASI	Kenya	O/EA-2	None
MBG/TZ/07/2021 *	OQ615920	Zebu	SUA	Tanzania	O/EA-2	None
MBG/TZ/10/2021 *	OQ615921	Zebu	SUA	Tanzania	O/EA-2	None
MBG/TZ/11/2021 *	OQ615922	Zebu	SUA	Tanzania	O/EA-2	None
MBG/TZ/23/2021 *	OQ615919	Zebu	SUA	Tanzania	O/EA-2	None
KEN/2/2022	None	Cattle	WRLFMD	Kenya	O/EA-2	None

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
KEN/1/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/2/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/3/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/4/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/7/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
UGA/21/2023	None	Bovine	WRLFMD	Uganda	O/EA-2	None
UGA/23/2023	None	Bovine	WRLFMD	Uganda	O/EA-2	None
UGA/4/2024	None	Bovine	WRLFMD	Uganda	O/EA-2	None
UGA/6/2024	None	Bovine	WRLFMD	Uganda	O/EA-2	None
TAN/04/2021 *	OM802509	Cattle	SUA	Tanzania	O/EA-2	None
TAN/08/2021 *	OM802510	Cattle	SUA	Tanzania	O/EA-2	None

* Not a WRLFMD Reference Number;

^ Not Available



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

FMDV Genotyping Report

Generated from: [FMDtype](#) | FMDV Genotyping Tool

Downloaded on: 05 November 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLFMD/2025/000016]. (Accessed 05/11/25)

FMDV serotype: O

Country: Ethiopia

Year: 2024-2025

Batch: WRLFMD/2025/000016

No. of sequences: 21

Reported date: 05 November 2025

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: ETH/34/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	24982
Location of origin:	Chokorsa, Nano, Melka Nono, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-29
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659099	KEN/1/2023	Cattle	97.16	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.58	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.42	0	O	EA-2	None	None
659101	KEN/3/2023	Cattle	95.26	0	O	EA-2	None	None
659104	KEN/7/2023	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	88.47	0	O	EA-2	None	None
17205	UGA/3/2002		87.99	1	O	EA-2	None	None
10699	MAL/1/98		87.68	0	O	EA-2	None	None
9747	K40/84	Cattle	83.89	0	O	EA-1	None	None
10350	KUW/3/97		83.65	0	O	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	83.15	0	O	ME-SA	Ind-2001	d
14504	SRL/2/97	Bovine	82.94	0	O	ME-SA	Srl-97	None
14798	SYR/18/62		82.94	0	O	WCSA-1	Syr-62	None
10481	LAO/2/2006	Cattle	82.62	0	O	ME-SA	PanAsia	None

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

Virus sample: ETH/35/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	24979
Location of origin:	Chokorsa, Nano, Melka Nono, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-29
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
1049118	BAR/47/2025	Cattle	95.42	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	93.05	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	88.63	0	O	EA-2	None	None
17205	UGA/3/2002		88.15	1	O	EA-2	None	None
10699	MAL/1/98		87.84	0	O	EA-2	None	None
9747	K40/84	Cattle	84.23	0	O	EA-1	None	None
10350	KUW/3/97		83.49	0	O	ME-SA	Ind-2001	a
14798	SYR/18/62		83.10	0	O	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	82.99	0	O	ME-SA	Ind-2001	d
14504	SRL/2/97	Bovine	82.78	0	O	ME-SA	Srl-97	None
10481	LAO/2/2006	Cattle	82.46	0	O	ME-SA	PanAsia	None

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

Virus sample: ETH/36/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	24978
Location of origin:	Chokorsa, Nano, Melka Nono, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-10-29
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
1049118	BAR/47/2025	Cattle	95.42	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	93.05	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	88.63	0	O	EA-2	None	None
17205	UGA/3/2002		88.15	1	O	EA-2	None	None
10699	MAL/1/98		87.84	0	O	EA-2	None	None
9747	K40/84	Cattle	84.23	0	O	EA-1	None	None
10350	KUW/3/97		83.49	0	O	ME-SA	Ind-2001	a
14798	SYR/18/62		83.10	0	O	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	82.99	0	O	ME-SA	Ind-2001	d
14504	SRL/2/97	Bovine	82.78	0	O	ME-SA	Srl-97	None
10481	LAO/2/2006	Cattle	82.46	0	O	ME-SA	PanAsia	None

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

Virus sample: ETH/38/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	1950
Location of origin:	3, Kebele 03, Hawassa, Sidama
Country of origin:	Ethiopia
Date of collection:	2024-11-03
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-02
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.37	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.16	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.10	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
17330	UAE/4/2008	Gazelle	84.36	0	O	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
3294	BHU/3/2009	Cattle	84.02	0	O	ME-SA	Ind-2001	d
9823	K83/79		83.94	0	O	EA-1	None	None
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.70	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.57	0	O	EA-1	None	None

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

Virus sample: ETH/43/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	25399
Location of origin:	Chefe, Chefe, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-11-15
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.58	0	O	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	95.58	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	O	EA-2	None	None
17205	UGA/3/2002		86.89	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
8355	IRN/18/2010	Cattle	83.41	0	O	ME-SA	PanAsia-2	BAL-09
11999	OMN/7/2001		83.39	0	O	ME-SA	Ind-2001	b

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

Virus sample: ETH/44/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	25397
Location of origin:	Chefe, Chefe, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-11-15
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.58	0	O	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	95.58	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	O	EA-2	None	None
17205	UGA/3/2002		86.89	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
8355	IRN/18/2010	Cattle	83.41	0	O	ME-SA	PanAsia-2	BAL-09
11999	OMN/7/2001		83.39	0	O	ME-SA	Ind-2001	b

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

Virus sample: ETH/45/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	26048
Location of origin:	Kebele 14, Werda 14, Lemi Kura, Addis Ababa
Country of origin:	Ethiopia
Date of collection:	2024-11-20
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	O	EA-2	None	None
17205	UGA/3/2002		86.89	1	O	EA-2	None	None
9823	K83/79		84.41	0	O	EA-1	None	None
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.36	0	O	ME-SA	Ind-2001	c
14798	SYR/18/62		83.91	0	O	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.41	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/47/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11102
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-12-01
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-01
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.68	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.47	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.16	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.16	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	97.00	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.84	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.52	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.74	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.42	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.73	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.94	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
8355	IRN/18/2010	Cattle	83.25	0	O	ME-SA	PanAsia-2	BAL-09

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

Virus sample: ETH/49/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11090
Location of origin:	Koye Feche,, Sheger City, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-12-01
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.68	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.68	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.52	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.37	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	96.05	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.42	0	0	EA-2	None	None
659100	KEN/2/2023	Cattle	95.26	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	0	EA-2	None	None
17205	UGA/3/2002		86.73	1	0	EA-2	None	None
9823	K83/79		84.25	0	0	EA-1	None	None
14504	SRL/2/97	Bovine	84.20	0	0	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	0	ME-SA	Ind-2001	c
14798	SYR/18/62		84.07	0	0	WCSA-1	Syr-62	None
9747	K40/84	Cattle	83.57	0	0	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	0	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.54	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/1/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	845
Location of origin:	Koisha, Koisha, Bench Sheko, Southwest Ethiopia
Country of origin:	Ethiopia
Date of collection:	2025-01-08
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-02
Sequence length:	636
Ambiguities:	3

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.05	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	94.94	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.63	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.26	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.41	1	O	EA-2	None	None
14465	SRL/1/2019	Cattle	84.39	0	O	ME-SA	SA-2018	None
17330	UAE/4/2008	Gazelle	84.36	0	O	ME-SA	Ind-2001	c
14798	SYR/18/62		83.91	0	O	WCSA-1	Syr-62	None
14504	SRL/2/97	Bovine	83.89	0	O	ME-SA	Srl-97	None
9823	K83/79		83.78	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.23	0	O	ME-SA	Ind-2001	b

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

Virus sample: ETH/2/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	854
Location of origin:	Koisha, Koisha, Bench Sheko, Southwest Ethiopia
Country of origin:	Ethiopia
Date of collection:	2025-01-08
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-02
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.68	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.68	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.52	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.37	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.05	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.89	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.94	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	O	EA-2	None	None
17205	UGA/3/2002		86.89	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.68	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.68	0	O	ME-SA	Ind-2001	c
14798	SYR/18/62		84.23	0	O	WCSA-1	Syr-62	None
9823	K83/79		84.09	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	84.02	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		84.02	0	O	ME-SA	Ind-2001	b
10481	LAO/2/2006	Cattle	83.54	0	O	ME-SA	PanAsia	None

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

Virus sample: ETH/3/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	848
Location of origin:	Koisha, Koisha, Bench Sheko, Southwest Ethiopia
Country of origin:	Ethiopia
Date of collection:	2025-01-08
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-02
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.21	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	94.94	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.63	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.26	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
17330	UAE/4/2008	Gazelle	84.52	0	O	ME-SA	Ind-2001	c
14465	SRL/1/2019	Cattle	84.39	0	O	ME-SA	SA-2018	None
14798	SYR/18/62		84.07	0	O	WCSA-1	Syr-62	None
9823	K83/79		83.94	0	O	EA-1	None	None
14504	SRL/2/97	Bovine	83.89	0	O	ME-SA	Srl-97	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
9747	K40/84	Cattle	83.25	0	O	EA-1	None	None

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

Virus sample: ETH/4/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	4800
Location of origin:	Bahir Dar,, Bahir Dar Special, Amhara
Country of origin:	Ethiopia
Date of collection:	2025-01-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-03
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
9823	K83/79		83.78	0	O	EA-1	None	None
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.41	0	O	EA-1	None	None

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

Virus sample: ETH/5/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	4801
Location of origin:	Bahir Dar,, Bahir Dar Special, Amhara
Country of origin:	Ethiopia
Date of collection:	2025-01-18
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-02
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.37	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.16	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.58	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.42	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.10	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.42	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.52	0	O	EA-2	None	None
17205	UGA/3/2002		86.41	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.36	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	O	ME-SA	Ind-2001	c
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		83.70	0	O	ME-SA	Ind-2001	b
9823	K83/79		83.62	0	O	EA-1	None	None
14798	SYR/18/62		83.60	0	O	WCSA-1	Syr-62	None
9747	K40/84	Cattle	83.25	0	O	EA-1	None	None

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

Virus sample: ETH/10/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	4802
Location of origin:	Injibara, Banja Shekudad, Agew Awi, Amhara
Country of origin:	Ethiopia
Date of collection:	2025-02-11
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-03
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.20	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.20	0	O	ME-SA	Ind-2001	c
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
9823	K83/79		83.78	0	O	EA-1	None	None
14798	SYR/18/62		83.75	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.54	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.41	0	O	EA-1	None	None

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

Virus sample: ETH/12/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	5526
Location of origin:	Tsebasie, Debre Birhan, North Shewa, Amhara
Country of origin:	Ethiopia
Date of collection:	2025-02-22
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.37	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.16	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.58	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.42	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.10	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.42	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.52	0	O	EA-2	None	None
17205	UGA/3/2002		86.41	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	83.89	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	83.89	0	O	ME-SA	Ind-2001	c
3294	BHU/3/2009	Cattle	83.86	0	O	ME-SA	Ind-2001	d
9823	K83/79		83.62	0	O	EA-1	None	None
14798	SYR/18/62		83.44	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.23	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	82.94	0	O	EA-1	None	None

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

Virus sample: ETH/13/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	5519
Location of origin:	Tsebasie, Debre Birhan, North Shewa, Amhara
Country of origin:	Ethiopia
Date of collection:	2025-02-22
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	98.89	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	97.00	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.37	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.37	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.21	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	96.05	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	95.74	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	95.10	0	0	EA-2	None	None
659100	KEN/2/2023	Cattle	94.94	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.63	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.26	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.99	0	0	EA-2	None	None
17205	UGA/3/2002		87.20	1	0	EA-2	None	None
17330	UAE/4/2008	Gazelle	84.04	0	0	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	83.89	0	0	ME-SA	Srl-97	None
14798	SYR/18/62		83.75	0	0	WCSA-1	Syr-62	None
9823	K83/79		83.62	0	0	EA-1	None	None
3294	BHU/3/2009	Cattle	83.39	0	0	ME-SA	Ind-2001	d
10481	LAO/2/2006	Cattle	83.39	0	0	ME-SA	PanAsia	None
11999	OMN/7/2001		83.39	0	0	ME-SA	Ind-2001	b

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

Virus sample: ETH/14/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	5520
Location of origin:	Tsebasie, Debre Birhan, North Shewa, Amhara
Country of origin:	Ethiopia
Date of collection:	2025-02-22
Host species:	cattle

Genotyping details

Serotype:	0
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	98.74	0	0	EA-2	None	None
659099	KEN/1/2023	Cattle	96.84	0	0	EA-2	None	None
297320	KEN/6/2021	Cattle	96.21	0	0	EA-2	None	None
297321	KEN/8/2021	Cattle	96.21	0	0	EA-2	None	None
855487	TAN/04/2021	Cattle	96.05	0	0	EA-2	None	None
855488	TAN/08/2021	Cattle	95.89	0	0	EA-2	None	None
659097	KEN/2/2022	Cattle	95.58	0	0	EA-2	None	None
659102	KEN/4/2023	Cattle	94.94	0	0	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	94.79	0	0	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	94.79	0	0	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.42	0	0	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	0	EA-2	None	None
17205	UGA/3/2002		87.36	1	0	EA-2	None	None
17330	UAE/4/2008	Gazelle	84.20	0	0	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	84.04	0	0	ME-SA	Srl-97	None
14798	SYR/18/62		83.91	0	0	WCSA-1	Syr-62	None
3294	BHU/3/2009	Cattle	83.54	0	0	ME-SA	Ind-2001	d
10481	LAO/2/2006	Cattle	83.54	0	0	ME-SA	PanAsia	None
11999	OMN/7/2001		83.54	0	0	ME-SA	Ind-2001	b
9823	K83/79		83.47	0	0	EA-1	None	None

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

Virus sample: ETH/18/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	5524
Location of origin:	Ewa, Fanti Rasu, Afar
Country of origin:	Ethiopia
Date of collection:	2025-06-12
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.53	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.31	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	97.00	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	97.00	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.84	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.68	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.37	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.74	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.58	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.26	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.58	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.68	0	O	EA-2	None	None
17205	UGA/3/2002		86.57	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.04	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.78	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.60	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.39	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	83.10	0	O	EA-1	None	None

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

Virus sample: ETH/19/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	5529
Location of origin:	Ewa, Fanti Rasu, Afar
Country of origin:	Ethiopia
Date of collection:	2025-06-12
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-09
Sequence length:	636
Ambiguities:	1

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.37	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	97.16	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.84	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.84	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.68	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.52	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	96.21	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.58	0	O	EA-2	None	None
659100	KEN/2/2023	Cattle	95.42	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.10	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.42	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.52	0	O	EA-2	None	None
17205	UGA/3/2002		86.41	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	83.89	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	83.89	0	O	ME-SA	Ind-2001	c
3294	BHU/3/2009	Cattle	83.70	0	O	ME-SA	Ind-2001	d
9823	K83/79		83.62	0	O	EA-1	None	None
14798	SYR/18/62		83.44	0	O	WCSA-1	Syr-62	None
11999	OMN/7/2001		83.23	0	O	ME-SA	Ind-2001	b
9747	K40/84	Cattle	82.94	0	O	EA-1	None	None

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

Virus sample: ETH/20/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	22389
Location of origin:	Kebele 7, Sebeta Town, Southwest Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2025-07-28
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	EA-2
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2025-10-08
Sequence length:	636
Ambiguities:	0

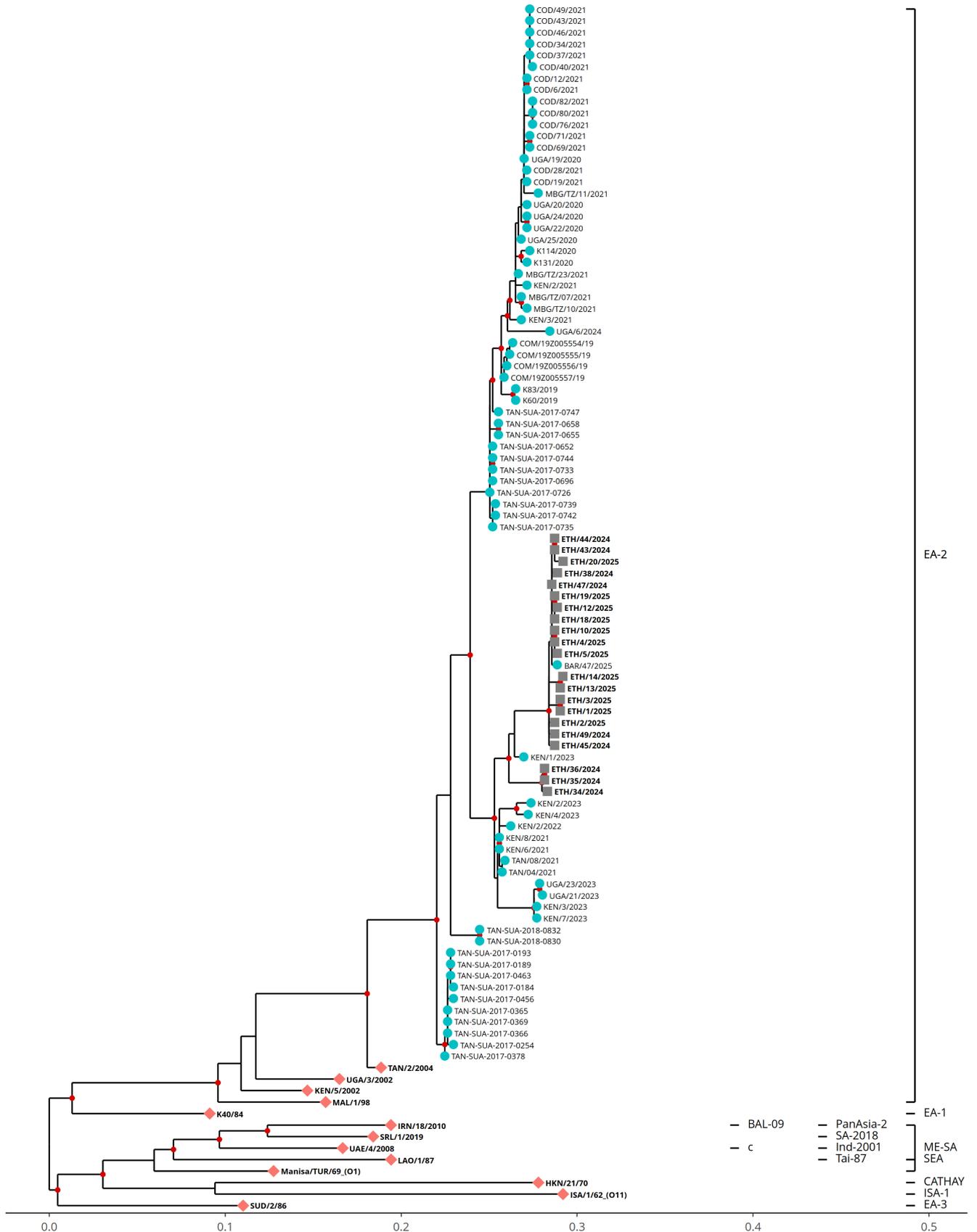
Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1049118	BAR/47/2025	Cattle	99.05	0	O	EA-2	None	None
659099	KEN/1/2023	Cattle	96.84	0	O	EA-2	None	None
297320	KEN/6/2021	Cattle	96.52	0	O	EA-2	None	None
297321	KEN/8/2021	Cattle	96.52	0	O	EA-2	None	None
855487	TAN/04/2021	Cattle	96.37	0	O	EA-2	None	None
855488	TAN/08/2021	Cattle	96.21	0	O	EA-2	None	None
659097	KEN/2/2022	Cattle	95.89	0	O	EA-2	None	None
659102	KEN/4/2023	Cattle	95.26	0	O	EA-2	None	None
15343	TAN-SUA-2017-0726	Cattle	95.10	0	O	EA-2	None	None
15347	TAN-SUA-2017-0742	Cattle	95.10	0	O	EA-2	None	None
FMDV VP1 Prototype Sequences*								
15062	TAN/2/2004	Bovine	92.89	0	O	EA-2	None	None
10106	KEN/5/2002	Bovine	87.84	0	O	EA-2	None	None
17205	UGA/3/2002		86.73	1	O	EA-2	None	None
14504	SRL/2/97	Bovine	84.04	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	84.04	0	O	ME-SA	Ind-2001	c
9823	K83/79		83.62	0	O	EA-1	None	None
3294	BHU/3/2009	Cattle	83.54	0	O	ME-SA	Ind-2001	d
14798	SYR/18/62		83.44	0	O	WCSA-1	Syr-62	None
8355	IRN/18/2010	Cattle	83.09	0	O	ME-SA	PanAsia-2	BAL-09
11999	OMN/7/2001		83.07	0	O	ME-SA	Ind-2001	b

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

Tree

■ Uploaded sequence ● Database sequence ◆ Reference sequence



Analysis Parameters

Query sequence set: WRLFMD/2025/000016
Number of related sequences reported: 71
Number of prototype sequences in tree: 13
Minimal VP1 subsequence match length: 610
Sequence alignment length: 634

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
BAR/47/2025	None	Cattle	WRLFMD	Bahrain	O/EA-2	None
TAN-SUA-2017-0184 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0189 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0193 *	None		SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0254 *	None		SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0365 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0366 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0369 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0378 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0456 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0463 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0652 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0655 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0658 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0696 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0726 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0733 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0735 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0739 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0742 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0744 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2017-0747 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0830 *	None	Cattle	SUA	Tanzania	O/EA-2	None
TAN-SUA-2018-0832 *	None		SUA	Tanzania	O/EA-2	None
COD/6/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/12/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/19/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/28/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/34/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/37/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/40/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/43/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/46/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/49/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/69/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/71/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/76/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/80/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
COD/82/2021	None	Cattle	WRLFMD	Democratic Republic of the Congo	O/EA-2	None
KEN/2/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/3/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/6/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/8/2021	None	Cattle	WRLFMD	Kenya	O/EA-2	None
UGA/19/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/20/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/22/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/24/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
UGA/25/2020	None	Cattle	WRLFMD	Uganda	O/EA-2	None
COM/19Z005554/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
COM/19Z005555/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
COM/19Z005556/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
COM/19Z005557/19 *	None	Cattle	ANSES	Comoros	O/EA-2	None
K60/2019 *	OP184914	Bovine	EMBAKASI	Kenya	O/EA-2	None
K83/2019 *	OP184915	Bovine	EMBAKASI	Kenya	O/EA-2	None
K114/2020 *	OP184913	Bovine	EMBAKASI	Kenya	O/EA-2	None
K131/2020 *	OP184912	Bovine	EMBAKASI	Kenya	O/EA-2	None
MBG/TZ/07/2021 *	OQ615920	Zebu	SUA	Tanzania	O/EA-2	None
MBG/TZ/10/2021 *	OQ615921	Zebu	SUA	Tanzania	O/EA-2	None
MBG/TZ/11/2021 *	OQ615922	Zebu	SUA	Tanzania	O/EA-2	None
MBG/TZ/23/2021 *	OQ615919	Zebu	SUA	Tanzania	O/EA-2	None
KEN/2/2022	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/1/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
KEN/2/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/3/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/4/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
KEN/7/2023	None	Cattle	WRLFMD	Kenya	O/EA-2	None
UGA/21/2023	None	Bovine	WRLFMD	Uganda	O/EA-2	None
UGA/23/2023	None	Bovine	WRLFMD	Uganda	O/EA-2	None
UGA/6/2024	None	Bovine	WRLFMD	Uganda	O/EA-2	None
TAN/04/2021 *	OM802509	Cattle	SUA	Tanzania	O/EA-2	None
TAN/08/2021 *	OM802510	Cattle	SUA	Tanzania	O/EA-2	None

* Not a WRLFMD Reference Number;

^ Not Available



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

FMDV Genotyping Report

Generated from: [FMDtype](#) | FMDV Genotyping Tool

Downloaded on: 05 November 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLFMD/2025/000016]. (Accessed 05/11/25)

FMDV serotype: O

Country: Ethiopia

Year: 2024-2025

Batch: WRLFMD/2025/000016

No. of sequences: 5

Reported date: 05 November 2025

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: ETH/3/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	11098
Location of origin:	Bishoftu, Bishoftu, East Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-01-13
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:	2025-09-22
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
296891	ETH/2/2020	Bovine	96.68	0	0	EA-3	None	None
297606	OMN/22Z2052/2020_89	Cattle	96.37	0	0	EA-3	None	None
485423	OMN/22Z002000/2018_21	Cattle	96.37	0	0	EA-3	None	None
297607	OMN/22Z1994/2020_14	Cattle	96.21	0	0	EA-3	None	None
297608	OMN/22Z2029/2020_64	Cattle	96.05	0	0	EA-3	None	None
297609	OMN/22Z2019/2020_54	Cattle	96.05	0	0	EA-3	None	None
297610	OMN/22Z2020/2020_55	Cattle	96.05	0	0	EA-3	None	None
297611	OMN/22Z2021/2020_56	Cattle	96.05	0	0	EA-3	None	None
297612	OMN/22Z2022/2020_57	Cattle	96.05	0	0	EA-3	None	None
297613	OMN/22Z2112/2020_182	Cattle	96.05	0	0	EA-3	None	None
FMDV VP1 Prototype Sequences*								
5422	ETH/1/2007	Cattle	89.57	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	88.77	0	0	EA-3	None	None
14697	SUD/2/86	Cattle	88.63	0	0	EA-3	None	None
10481	LAO/2/2006	Cattle	87.66	0	0	ME-SA	PanAsia	None
7280	IND/53/79	Bovine	86.41	0	0	ME-SA	None	None
9747	K40/84	Cattle	86.41	0	0	EA-1	None	None
9823	K83/79		86.30	0	0	EA-1	None	None
7532	IND/R2/75		86.17	0	0	ME-SA	None	None
5705	ETH/58/2005	Bovine	86.01	0	0	EA-4	None	None
15944	Manisa/TUR/69_(01)		85.76	0	0	ME-SA	None	None

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

Virus sample: ETH/15/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	12277
Location of origin:	Burayu, Nano, West Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-06-22
Host species:	cattle

Genotyping details

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

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2025-09-30
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
296890	ETH/29/2019	Bovine	97.47	0	0	EA-3	None	None
296894	ETH/10/2020	Bovine	97.47	0	0	EA-3	None	None
296895	ETH/11/2020	Bovine	97.47	0	0	EA-3	None	None
296898	ETH/16/2020	Bovine	97.47	0	0	EA-3	None	None
296899	ETH/17/2020	Bovine	97.47	0	0	EA-3	None	None
297625	OMN/22Z2078/2020_125	Cattle	97.31	0	0	EA-3	None	None
297626	OMN/22Z2079/2020_126	Cattle	97.31	0	0	EA-3	None	None
297627	OMN/22Z2080/2020_127	Cattle	97.31	0	0	EA-3	None	None
297628	OMN/22Z2081/2020_128	Cattle	97.31	0	0	EA-3	None	None
297631	OMN/22Z2057/2020_96	Cattle	97.31	0	0	EA-3	None	None
FMDV VP1 Prototype Sequences*								
5422	ETH/1/2007	Cattle	91.01	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	88.47	0	0	EA-3	None	None
10989	MUR/19/2016	Cattle	87.05	0	0	ME-SA	Ind-2001	e
10481	LAO/2/2006	Cattle	87.03	0	0	ME-SA	PanAsia	None
3294	BHU/3/2009	Cattle	86.73	0	0	ME-SA	Ind-2001	d
10350	KUW/3/97		86.08	0	0	ME-SA	Ind-2001	a
8875	IRN/8/2005	Sheep	86.03	0	0	ME-SA	PanAsia-2	None
11999	OMN/7/2001		85.76	0	0	ME-SA	Ind-2001	b
14798	SYR/18/62		85.62	0	0	WCSA-1	Syr-62	None
15944	Manisa/TUR/69_(01)		85.60	0	0	ME-SA	None	None

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

Virus sample: ETH/17/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	14831
Location of origin:	Sebeta, Sebeta, Southwest Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-07-27
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:	2025-09-23
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
296891	ETH/2/2020	Bovine	97.16	0	0	EA-3	None	None
297606	OMN/22Z2052/2020_89	Cattle	96.84	0	0	EA-3	None	None
485423	OMN/22Z002000/2018_21	Cattle	96.84	0	0	EA-3	None	None
297607	OMN/22Z1994/2020_14	Cattle	96.68	0	0	EA-3	None	None
297608	OMN/22Z2029/2020_64	Cattle	96.52	0	0	EA-3	None	None
297609	OMN/22Z2019/2020_54	Cattle	96.52	0	0	EA-3	None	None
297610	OMN/22Z2020/2020_55	Cattle	96.52	0	0	EA-3	None	None
297611	OMN/22Z2021/2020_56	Cattle	96.52	0	0	EA-3	None	None
297612	OMN/22Z2022/2020_57	Cattle	96.52	0	0	EA-3	None	None
297613	OMN/22Z2112/2020_182	Cattle	96.52	0	0	EA-3	None	None
FMDV VP1 Prototype Sequences*								
5422	ETH/1/2007	Cattle	90.05	0	0	EA-3	None	None
14697	SUD/2/86	Cattle	89.42	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	88.61	0	0	EA-3	None	None
10481	LAO/2/2006	Cattle	87.68	0	0	ME-SA	PanAsia	None
9747	K40/84	Cattle	86.75	0	0	EA-1	None	None
9823	K83/79		86.64	0	0	EA-1	None	None
7280	IND/53/79	Bovine	86.57	0	0	ME-SA	None	None
7532	IND/R2/75		86.51	0	0	ME-SA	None	None
5705	ETH/58/2005	Bovine	86.34	0	0	EA-4	None	None
17162	UGA/17/98	Cattle	85.85	0	0	EA-4	None	None

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

Virus sample: ETH/18/2024

Sample details

Reception Date:	2025-09-11
Sender reference:	14822
Location of origin:	Sebeta, Sebeta, Southwest Shewa, Oromia
Country of origin:	Ethiopia
Date of collection:	2024-07-27
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:	2025-09-24
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
296891	ETH/2/2020	Bovine	97.16	0	0	EA-3	None	None
297606	OMN/22Z2052/2020_89	Cattle	96.84	0	0	EA-3	None	None
485423	OMN/22Z002000/2018_21	Cattle	96.84	0	0	EA-3	None	None
297607	OMN/22Z1994/2020_14	Cattle	96.68	0	0	EA-3	None	None
297608	OMN/22Z2029/2020_64	Cattle	96.52	0	0	EA-3	None	None
297609	OMN/22Z2019/2020_54	Cattle	96.52	0	0	EA-3	None	None
297610	OMN/22Z2020/2020_55	Cattle	96.52	0	0	EA-3	None	None
297611	OMN/22Z2021/2020_56	Cattle	96.52	0	0	EA-3	None	None
297612	OMN/22Z2022/2020_57	Cattle	96.52	0	0	EA-3	None	None
297613	OMN/22Z2112/2020_182	Cattle	96.52	0	0	EA-3	None	None
FMDV VP1 Prototype Sequences*								
5422	ETH/1/2007	Cattle	90.05	0	0	EA-3	None	None
14697	SUD/2/86	Cattle	89.42	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	88.61	0	0	EA-3	None	None
10481	LAO/2/2006	Cattle	87.68	0	0	ME-SA	PanAsia	None
9747	K40/84	Cattle	86.75	0	0	EA-1	None	None
9823	K83/79		86.64	0	0	EA-1	None	None
7280	IND/53/79	Bovine	86.57	0	0	ME-SA	None	None
7532	IND/R2/75		86.51	0	0	ME-SA	None	None
5705	ETH/58/2005	Bovine	86.34	0	0	EA-4	None	None
17162	UGA/17/98	Cattle	85.85	0	0	EA-4	None	None

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

Virus sample: ETH/8/2025

Sample details

Reception Date:	2025-09-11
Sender reference:	5538
Location of origin:	Adadle, Adadle, Shebele, Somali
Country of origin:	Ethiopia
Date of collection:	2025-01-22
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:	2025-10-03
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
296891	ETH/2/2020	Bovine	96.52	0	0	EA-3	None	None
297606	OMN/22Z2052/2020_89	Cattle	96.52	0	0	EA-3	None	None
485423	OMN/22Z002000/2018_21	Cattle	96.52	0	0	EA-3	None	None
297607	OMN/22Z1994/2020_14	Cattle	96.37	0	0	EA-3	None	None
297608	OMN/22Z2029/2020_64	Cattle	96.21	0	0	EA-3	None	None
297609	OMN/22Z2019/2020_54	Cattle	96.21	0	0	EA-3	None	None
297610	OMN/22Z2020/2020_55	Cattle	96.21	0	0	EA-3	None	None
297611	OMN/22Z2021/2020_56	Cattle	96.21	0	0	EA-3	None	None
297612	OMN/22Z2022/2020_57	Cattle	96.21	0	0	EA-3	None	None
297613	OMN/22Z2112/2020_182	Cattle	96.21	0	0	EA-3	None	None
FMDV VP1 Prototype Sequences*								
5422	ETH/1/2007	Cattle	89.73	0	0	EA-3	None	None
5575	ETH/3/2004	Cattle	88.92	0	0	EA-3	None	None
14697	SUD/2/86	Cattle	88.78	0	0	EA-3	None	None
10481	LAO/2/2006	Cattle	87.82	0	0	ME-SA	PanAsia	None
7280	IND/53/79	Bovine	86.57	0	0	ME-SA	None	None
9747	K40/84	Cattle	86.57	0	0	EA-1	None	None
9823	K83/79		86.46	0	0	EA-1	None	None
7532	IND/R2/75		86.33	0	0	ME-SA	None	None
5705	ETH/58/2005	Bovine	86.16	0	0	EA-4	None	None
15944	Manisa/TUR/69_(01)		85.92	0	0	ME-SA	None	None

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

Analysis Parameters

Query sequence set: WRLFMD/2025/000016
Number of related sequences reported: 90
Number of prototype sequences in tree: 9
Minimal VP1 subsequence match length: 610
Sequence alignment length: 635

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

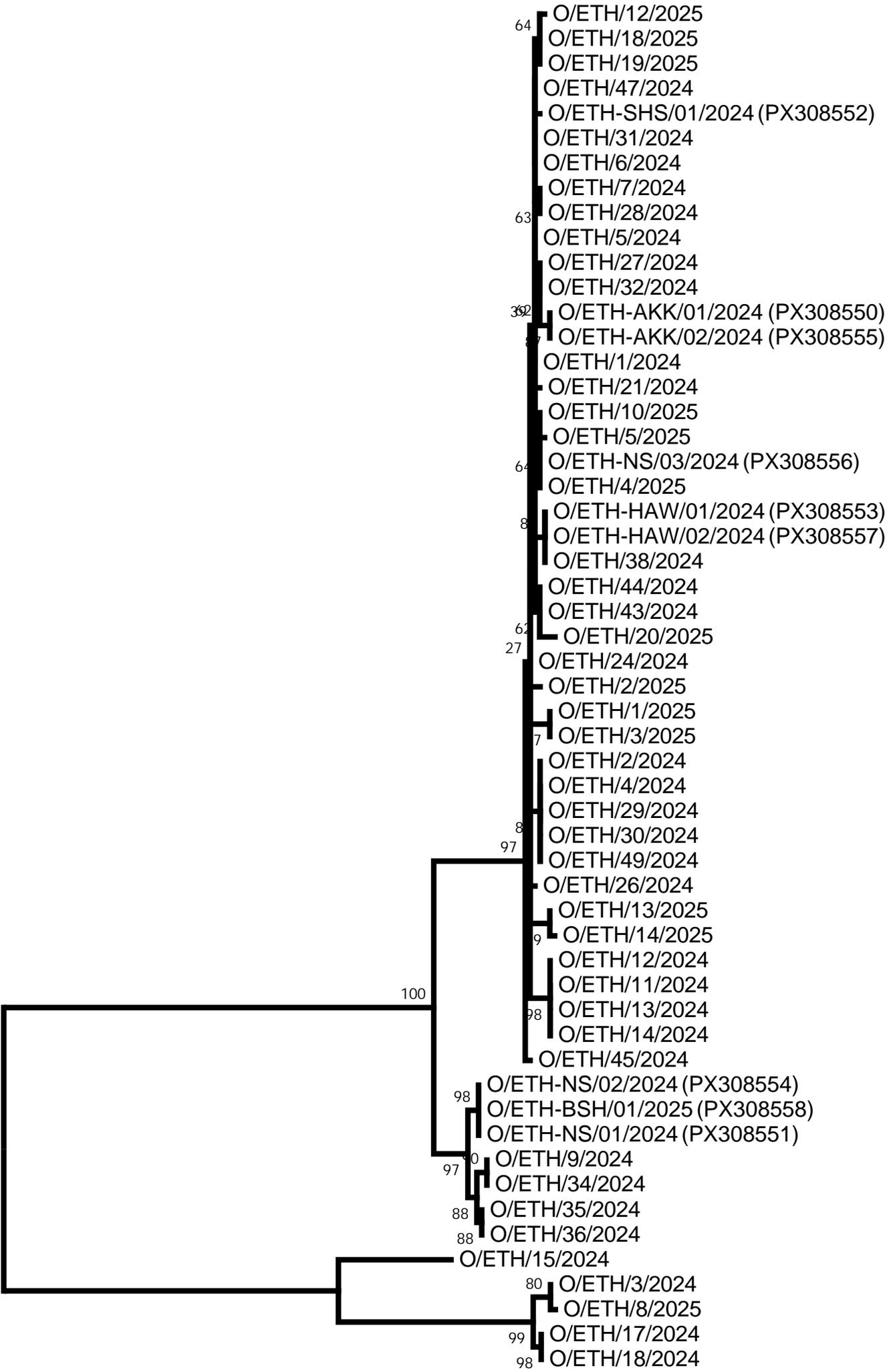
Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
KEN/3/98	OM221259	Bovine	WRLFMD	Kenya	O/EA-3	None
KEN/7/98	KF135266	Bovine	WRLFMD	Kenya	O/EA-3	23931583
NYE/16/85	OM221277	Bovine	WRLFMD	North Yemen	O/EA-3	None
NYE/56/89	OM221280	Bovine	WRLFMD	North Yemen	O/EA-3	None
NYE/9/90	OM221281	Sheep	WRLFMD	North Yemen	O/EA-3	None
SUD/3/89	GU566038		WRLFMD	Sudan	O/EA-3	20626708
SUD/4/89	GU566039		WRLFMD	Sudan	O/EA-3	20626708
YEM/1/82	OM221294	Goat	WRLFMD	Yemen	O/EA-3	None
YEM/10/2008	OM221316	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/22/2003	OM221298	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/23/2009	OM221331	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/24/2009	OM221332	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/28/2003	OM221299	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/29/2006	OM221310	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/3/2006	OM221308	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/3/92	OM221296		WRLFMD	Yemen	O/EA-3	None
YEM/34/2009	OM221335	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/36/2009	OM221337	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/37/2009	OM221338	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/4/2006 *	KJ831682	Cattle	TPI	Yemen	O/EA-3	27448206
YEM/4/2008	OM221311	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/4/95	OM221297		WRLFMD	Yemen	O/EA-3	None
YEM/48/2004	OM221304	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/5/2008	OM221312	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/6/2008	OM221313	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/7/2008	OM221314	Cattle	WRLFMD	Yemen	O/EA-3	None
YEM/8/2008	OM221315	Cattle	WRLFMD	Yemen	O/EA-3	None
BAR/17/2021	None	Cattle	WRLFMD	Bahrain	O/EA-3	None
BAR/18/2021	None	Cattle	WRLFMD	Bahrain	O/EA-3	None
BAR/20/2021	None	Cattle	WRLFMD	Bahrain	O/EA-3	None
ETH/29/2019	PQ847891	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/2/2020	PQ847892	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/10/2020	PQ847895	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/11/2020	PQ847896	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/15/2020	PQ847898	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/16/2020	PQ847899	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/17/2020	PQ847900	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/2/2021	PQ847902	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/4/2021	PQ847903	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/5/2021	PQ847904	Bovine	WRLFMD	Ethiopia	O/EA-3	None
OMN/22Z2052/2020_89 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z1994/2020_14 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2029/2020_64 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2019/2020_54 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2020/2020_55 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2021/2020_56 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2022/2020_57 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2112/2020_182 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2113/2020_183 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2114/2020_184 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2083/2020_131 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2078/2020_125 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2079/2020_126 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2080/2020_127 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2081/2020_128 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2054/2020_93 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2055/2020_94 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2057/2020_96 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2058/2020_97 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z2062/2020_103 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z002000/2018_21 *	None	Cattle	ANSES	Oman	O/EA-3	None
OMN/22Z002115/2020_185 *	None	Cattle	ANSES	Oman	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
ETH/1/2005	FJ798106	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/1/2011	MN987390	Pig	WRLFMD	Ethiopia	O/EA-3	None
ETH/1/79	HM211077	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/11/2005	FJ798107	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/13/2008	MN987353	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/15/2008	MN987354	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/19/2008	MN987355	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/2/2011	MN987391	Pig	WRLFMD	Ethiopia	O/EA-3	None
ETH/2/93 *	KJ831667	Bovine	TPI	Ethiopia	O/EA-3	27448206
ETH/23/2008	MN987358	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/24/2008	MN987359	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/25/2008	MN987360	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/26/2007	FJ798138		WRLFMD	Ethiopia	O/EA-3	19788808
ETH/27/2007	FJ798139	Cattle	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/28/2007	FJ798140	Cattle	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/3/2012	MN987409	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/31/2008	MN987362	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/32/2008	MN987363	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/4/2012	MN987410	Cattle	WRLFMD	Ethiopia	O/EA-3	None
ETH/54/2005	FJ798118	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/56/2005	FJ798120	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/57/2005	FJ798121	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/6/2015	MN987423	Bovine	WRLFMD	Ethiopia	O/EA-3	None
ETH/63/2005	FJ798122	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/64/2005	FJ798123	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/66/2005	FJ798125	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
ETH/67/2005	FJ798126	Bovine	WRLFMD	Ethiopia	O/EA-3	19788808
KEN/1/99	KF135267	Bovine	WRLFMD	Kenya	O/EA-3	23931583

* Not a WRLFMD Reference Number;

† Not Available



EA-2

EA-3

0.05