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

FMDV Genotyping Report

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FMDV serotype: O
Country: Vietnam
Year: 2023-2025
Batch: WRLFMD/2026/000010
No. of sequences: 26
Reported date: 14 July 2026

WRLFMD Website: https://www.wrlfmd.org/
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Virus sample: VIT/1/2023

Sample details

Reception Date:	2026-05-13
Sender reference:	23-3246
Location of origin:	Song Trau, Dong Nai Province
Country of origin:	Vietnam
Date of collection:	2023-11-19
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	CATHAY
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1 and WRL-LFBK2
Material Harvest Date:	9-06-20
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
18114	VIT/17-19073/2017	Pig	92.79	0	O	CATHAY	None	None
18223	VIT/22/2017	Pig	92.79	0	O	CATHAY	None	None
18258	VIT/26/2017	Pig	92.79	0	O	CATHAY	None	None
18129	VIT/18-5490/2018	Pig	92.63	0	O	CATHAY	None	None
18516	VIT/8/2018	Pig	92.63	0	O	CATHAY	None	None
18144	VIT/19-005/2019	Pig	91.99	0	O	CATHAY	None	None
18130	VIT/18CD-1610.2/2018	Pig	91.67	0	O	CATHAY	None	None
18209	VIT/21/2018	Pig	91.67	0	O	CATHAY	None	None
18128	VIT/18-3766/2018	Pig	91.03	0	O	CATHAY	None	None
18466	VIT/6/2018	Pig	91.03	0	O	CATHAY	None	None
FMDV VP1 Prototype Sequences*								
6195	HKN/6/83	Bovine	82.69	2	O	CATHAY	None	None
12427	PAK/16/2010	Cattle	79.97	0	O	ME-SA	PanAsia-2	PUN-10
16377	TUR/264/2009		79.65	0	O	ME-SA	PanAsia-2	SAN-09
16370	TUR/257/2008		79.33	0	O	ME-SA	PanAsia-2	SAN-09

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

Virus sample: VIT/1/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS02
Location of origin:	Thinh Minh, Hoa Binh Province
Country of origin:	Vietnam
Date of collection:	2024-01-12
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-09
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	95.42	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	95.42	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	95.10	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	93.75	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.27	0	O	SEA	Mya-98	None
18067	VIT/14/2019	Pig	93.11	0	O	SEA	Mya-98	None
18376	VIT/4/2019	Pig	93.11	0	O	SEA	Mya-98	None
18467	VIT/6/2019	Pig	93.11	0	O	SEA	Mya-98	None
854845	19-1857-O-VTN-9-2019	Pig	93.11	0	O	SEA	Mya-98	None
854848	19-1871-O-VTN-11-2019	Pig	93.11	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		88.78	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.61	0	O	SEA	Tai-87	None
7532	IND/R2/75		83.25	0	O	ME-SA	None	None
15944	Manisa/TUR/69_(O1)		83.14	0	O	ME-SA	None	None
14465	SRL/1/2019	Cattle	81.93	0	O	ME-SA	SA-2018	None
14466	SRL/1/78		80.42	0	O	WCSA-1	Srl-77	None
5705	ETH/58/2005	Bovine	79.87	0	O	EA-4	None	None

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

Virus sample: VIT/3/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS07
Location of origin:	Thanh Yen, Dien Bien Province
Country of origin:	Vietnam
Date of collection:	2024-02-28
Host species:	water buffalo

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-09
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
297339	MAY/9/2020	Cattle	98.58	0	O	ME-SA	Ind-2001	e
297343	MAY/127/2020	Cattle	98.58	0	O	ME-SA	Ind-2001	e
18111	VIT/17/2019	Pig	98.42	0	O	ME-SA	Ind-2001	e
18250	VIT/25/2019	Pig	98.42	0	O	ME-SA	Ind-2001	e
18268	VIT/27/2019	Cattle	98.42	0	O	ME-SA	Ind-2001	e
18275	VIT/28/2019	Water Buffalo	98.42	0	O	ME-SA	Ind-2001	e
18377	VIT/4/2020	Cattle	98.42	0	O	ME-SA	Ind-2001	e
18495	VIT/7/2020	Pig	98.42	0	O	ME-SA	Ind-2001	e
297323	LAO/2/2020	Cattle	98.42	0	O	ME-SA	Ind-2001	e
297324	LAO/3/2020	Cattle	98.42	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	95.10	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	93.36	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		91.48	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		91.17	0	O	ME-SA	Ind-2001	a
17330	UAE/4/2008	Gazelle	90.05	0	O	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	89.57	0	O	ME-SA	Srl-97	None
12855	PAK/7/2016	Cattle	88.96	0	O	ME-SA	PanAsia-2	PUN-16
12780	PAK/58/2012	Cattle	88.77	0	O	ME-SA	PanAsia-2	ICT-12
8590	IRN/31/2009	Cattle	88.31	0	O	ME-SA	PanAsia-2	FAR-09
17602	UKG/35/2001		88.17	0	O	ME-SA	PanAsia	None

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

Virus sample: VIT/5/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS10
Location of origin:	Ban Lam, Son La Province
Country of origin:	Vietnam
Date of collection:	2024-03-21
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	PanAsia
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-09
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
10447	LAO/1/2018	Cattle	96.21	0	O	ME-SA	PanAsia	None
18302	VIT/3/2018	Cattle	96.21	0	O	ME-SA	PanAsia	None
854838	18-2570-O-VTN-1-2019	Cattle	96.21	0	O	ME-SA	PanAsia	None
854839	18-3187-O-VTN-2-2019	Pig	96.21	0	O	ME-SA	PanAsia	None
855050	VIT/LA-P16-7/2018_pro	Water Buffalo	96.21	0	O	ME-SA	PanAsia	None
855076	VIT/DT-P109-4/2017_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
855586	VIT/18-2570/2018	Cattle	96.21	0	O	ME-SA	PanAsia	None
855674	VIT/DT-P168-2/2017_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
15491	TAI/12/2017	Cattle	96.05	0	O	ME-SA	PanAsia	None
17928	BaTri/VIT/17-19372	Cattle	96.05	0	O	ME-SA	PanAsia	None
FMDV VP1 Prototype Sequences*								
17602	UKG/35/2001		91.00	0	O	ME-SA	PanAsia	None
14504	SRL/2/97	Bovine	90.84	0	O	ME-SA	Srl-97	None
10350	KUW/3/97		90.52	0	O	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	90.36	0	O	ME-SA	Ind-2001	d
10989	MUR/19/2016	Cattle	90.08	0	O	ME-SA	Ind-2001	e
11999	OMN/7/2001		89.59	0	O	ME-SA	Ind-2001	b
10481	LAO/2/2006	Cattle	89.57	0	O	ME-SA	PanAsia	None
16377	TUR/264/2009		89.42	0	O	ME-SA	PanAsia-2	SAN-09
17330	UAE/4/2008	Gazelle	89.42	0	O	ME-SA	Ind-2001	c
8875	IRN/8/2005	Sheep	89.26	0	O	ME-SA	PanAsia-2	None

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

Virus sample: VIT/6/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS12
Location of origin:	Sap Vat, Son La Province
Country of origin:	Vietnam
Date of collection:	2024-03-28
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-09
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
297339	MAY/9/2020	Cattle	98.42	0	O	ME-SA	Ind-2001	e
297343	MAY/127/2020	Cattle	98.42	0	O	ME-SA	Ind-2001	e
18111	VIT/17/2019	Pig	98.26	0	O	ME-SA	Ind-2001	e
18250	VIT/25/2019	Pig	98.26	0	O	ME-SA	Ind-2001	e
18268	VIT/27/2019	Cattle	98.26	0	O	ME-SA	Ind-2001	e
18275	VIT/28/2019	Water Buffalo	98.26	0	O	ME-SA	Ind-2001	e
18377	VIT/4/2020	Cattle	98.26	0	O	ME-SA	Ind-2001	e
18495	VIT/7/2020	Pig	98.26	0	O	ME-SA	Ind-2001	e
297323	LAO/2/2020	Cattle	98.26	0	O	ME-SA	Ind-2001	e
297324	LAO/3/2020	Cattle	98.26	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.94	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	93.21	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		91.33	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		91.01	0	O	ME-SA	Ind-2001	a
17330	UAE/4/2008	Gazelle	89.89	0	O	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	89.42	0	O	ME-SA	Srl-97	None
12855	PAK/7/2016	Cattle	88.80	0	O	ME-SA	PanAsia-2	PUN-16
12780	PAK/58/2012	Cattle	88.61	0	O	ME-SA	PanAsia-2	ICT-12
8590	IRN/31/2009	Cattle	88.47	0	O	ME-SA	PanAsia-2	FAR-09
17602	UKG/35/2001		88.01	0	O	ME-SA	PanAsia	None

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

Virus sample: VIT/7/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS11
Location of origin:	Tan Xuan, Son La Province
Country of origin:	Vietnam
Date of collection:	2024-03-29
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	PanAsia
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-09
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
855050	VIT/LA-P16-7/2018_pro	Water Buffalo	96.68	0	O	ME-SA	PanAsia	None
18124	VIT/18/2017	Bovine	96.52	0	O	ME-SA	PanAsia	None
855029	VIT/DT-P116-3/2017_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
855032	VIT/DT-P184-2/2017_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
855058	VIT/TN-P02-4/2017_pro	Water Buffalo	96.52	0	O	ME-SA	PanAsia	None
855065	VIT/TN-P10-7/2018_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
855077	VIT/DT-P163-2/2017_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
855079	VIT/DT-P174-2/2017_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
855092	VIT/TN-P06-3/2017_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
855615	VIT/DT-P31-4/2019_pro	Cattle	96.52	0	O	ME-SA	PanAsia	None
FMDV VP1 Prototype Sequences*								
14504	SRL/2/97	Bovine	91.15	0	O	ME-SA	Srl-97	None
17602	UKG/35/2001		90.84	0	O	ME-SA	PanAsia	None
10350	KUW/3/97		90.36	0	O	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	89.89	0	O	ME-SA	Ind-2001	d
16377	TUR/264/2009		89.73	0	O	ME-SA	PanAsia-2	SAN-09
10989	MUR/19/2016	Cattle	89.61	0	O	ME-SA	Ind-2001	e
10481	LAO/2/2006	Cattle	89.42	0	O	ME-SA	PanAsia	None
11999	OMN/7/2001		89.42	0	O	ME-SA	Ind-2001	b
212	AFG/30/2010		89.29	0	O	ME-SA	PanAsia-2	KHO-10
17330	UAE/4/2008	Gazelle	89.26	0	O	ME-SA	Ind-2001	c

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

Virus sample: VIT/8/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS13
Location of origin:	Tan Linh, Ha Noi Province
Country of origin:	Vietnam
Date of collection:	2024-04-01
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-10
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	95.10	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	95.10	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	94.79	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	94.07	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.59	0	O	SEA	Mya-98	None
856125	SKR/AS/67/2015	Pig	93.43	0	O	SEA	Mya-98	None
14303	SKR/2014-JC02D111		93.27	0	O	SEA	Mya-98	None
14350	SKR_Jincheon_2014_D1-11_Crust	Pig	93.27	0	O	SEA	Mya-98	None
854806	SKR/YI/34N1/2015	Pig	93.27	0	O	SEA	Mya-98	None
856114	SKR/YI/34/2015	Pig	93.27	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		89.10	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.94	0	O	SEA	Tai-87	None
7532	IND/R2/75		83.57	0	O	ME-SA	None	None
15944	Manisa/TUR/69_(O1)		82.82	0	O	ME-SA	None	None
14465	SRL/1/2019	Cattle	82.25	0	O	ME-SA	SA-2018	None
14466	SRL/1/78		80.42	0	O	WCSA-1	Srl-77	None

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

Virus sample: VIT/9/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS14
Location of origin:	Bac Son, Ha Noi Province
Country of origin:	Vietnam
Date of collection:	2024-04-09
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-10
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	95.42	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	95.42	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	95.10	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	93.75	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.27	0	O	SEA	Mya-98	None
18067	VIT/14/2019	Pig	93.11	0	O	SEA	Mya-98	None
18376	VIT/4/2019	Pig	93.11	0	O	SEA	Mya-98	None
18467	VIT/6/2019	Pig	93.11	0	O	SEA	Mya-98	None
854845	19-1857-O-VTN-9-2019	Pig	93.11	0	O	SEA	Mya-98	None
854848	19-1871-O-VTN-11-2019	Pig	93.11	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		88.78	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.61	0	O	SEA	Tai-87	None
7532	IND/R2/75		83.25	0	O	ME-SA	None	None
15944	Manisa/TUR/69_(O1)		83.14	0	O	ME-SA	None	None
14465	SRL/1/2019	Cattle	81.93	0	O	ME-SA	SA-2018	None
14466	SRL/1/78		80.42	0	O	WCSA-1	Srl-77	None
5705	ETH/58/2005	Bovine	79.87	0	O	EA-4	None	None

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

Virus sample: VIT/10/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS15
Location of origin:	Muong Leo, Son La Province
Country of origin:	Vietnam
Date of collection:	2024-04-09
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	PanAsia
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-10
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
855050	VIT/LA-P16-7/2018_pro	Water Buffalo	96.37	0	O	ME-SA	PanAsia	None
855076	VIT/DT-P109-4/2017_pro	Cattle	96.37	0	O	ME-SA	PanAsia	None
17968	VIT/1/2018	Bovine	96.21	0	O	ME-SA	PanAsia	None
18124	VIT/18/2017	Bovine	96.21	0	O	ME-SA	PanAsia	None
855029	VIT/DT-P116-3/2017_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
855032	VIT/DT-P184-2/2017_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
855058	VIT/TN-P02-4/2017_pro	Water Buffalo	96.21	0	O	ME-SA	PanAsia	None
855065	VIT/TN-P10-7/2018_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
855077	VIT/DT-P163-2/2017_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
855078	VIT/DT-P172-2/2017_pro	Cattle	96.21	0	O	ME-SA	PanAsia	None
FMDV VP1 Prototype Sequences*								
17602	UKG/35/2001		91.15	0	O	ME-SA	PanAsia	None
14504	SRL/2/97	Bovine	90.84	0	O	ME-SA	Srl-97	None
10350	KUW/3/97		90.36	0	O	ME-SA	Ind-2001	a
10481	LAO/2/2006	Cattle	90.05	0	O	ME-SA	PanAsia	None
16377	TUR/264/2009		89.89	0	O	ME-SA	PanAsia-2	SAN-09
10989	MUR/19/2016	Cattle	89.76	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	89.73	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		89.43	0	O	ME-SA	Ind-2001	b
16370	TUR/257/2008		89.26	0	O	ME-SA	PanAsia-2	SAN-09
17330	UAE/4/2008	Gazelle	89.26	0	O	ME-SA	Ind-2001	c

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

Virus sample: VIT/11/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS17
Location of origin:	Lang Giang, Lao Cai Province
Country of origin:	Vietnam
Date of collection:	2024-04-21
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	PanAsia
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-10
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
10447	LAO/1/2018	Cattle	96.37	0	O	ME-SA	PanAsia	None
18302	VIT/3/2018	Cattle	96.37	0	O	ME-SA	PanAsia	None
854838	18-2570-O-VTN-1-2019	Cattle	96.37	0	O	ME-SA	PanAsia	None
854839	18-3187-O-VTN-2-2019	Pig	96.37	0	O	ME-SA	PanAsia	None
855050	VIT/LA-P16-7/2018_pro	Water Buffalo	96.37	0	O	ME-SA	PanAsia	None
855076	VIT/DT-P109-4/2017_pro	Cattle	96.37	0	O	ME-SA	PanAsia	None
855586	VIT/18-2570/2018	Cattle	96.37	0	O	ME-SA	PanAsia	None
855674	VIT/DT-P168-2/2017_pro	Cattle	96.37	0	O	ME-SA	PanAsia	None
15491	TAI/12/2017	Cattle	96.21	0	O	ME-SA	PanAsia	None
17928	BaTri/VIT/17-19372	Cattle	96.21	0	O	ME-SA	PanAsia	None
FMDV VP1 Prototype Sequences*								
17602	UKG/35/2001		91.15	0	O	ME-SA	PanAsia	None
14504	SRL/2/97	Bovine	90.84	0	O	ME-SA	Srl-97	None
10350	KUW/3/97		90.36	0	O	ME-SA	Ind-2001	a
3294	BHU/3/2009	Cattle	90.05	0	O	ME-SA	Ind-2001	d
10989	MUR/19/2016	Cattle	89.76	0	O	ME-SA	Ind-2001	e
10481	LAO/2/2006	Cattle	89.73	0	O	ME-SA	PanAsia	None
16377	TUR/264/2009		89.73	0	O	ME-SA	PanAsia-2	SAN-09
11999	OMN/7/2001		89.43	0	O	ME-SA	Ind-2001	b
212	AFG/30/2010		89.29	0	O	ME-SA	PanAsia-2	KHO-10
8875	IRN/8/2005	Sheep	89.26	0	O	ME-SA	PanAsia-2	None

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

Virus sample: VIT/13/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-1834
Location of origin:	Khanh Trung, Khanh Hoa Province
Country of origin:	Vietnam
Date of collection:	2024-07-17
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-10
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
18111	VIT/17/2019	Pig	97.16	0	O	ME-SA	Ind-2001	e
18250	VIT/25/2019	Pig	97.16	0	O	ME-SA	Ind-2001	e
18268	VIT/27/2019	Cattle	97.16	0	O	ME-SA	Ind-2001	e
18275	VIT/28/2019	Water Buffalo	97.16	0	O	ME-SA	Ind-2001	e
18282	VIT/29/2019	Water Buffalo	97.16	0	O	ME-SA	Ind-2001	e
18334	VIT/34/2019	Cattle	97.16	0	O	ME-SA	Ind-2001	e
18495	VIT/7/2020	Pig	97.16	0	O	ME-SA	Ind-2001	e
297323	LAO/2/2020	Cattle	97.16	0	O	ME-SA	Ind-2001	e
297324	LAO/3/2020	Cattle	97.16	0	O	ME-SA	Ind-2001	e
297325	LAO/4/2020	Cattle	97.16	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.16	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	92.73	0	O	ME-SA	Ind-2001	d
10350	KUW/3/97		90.39	0	O	ME-SA	Ind-2001	a
11999	OMN/7/2001		90.22	0	O	ME-SA	Ind-2001	b
17330	UAE/4/2008	Gazelle	89.73	0	O	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	88.31	0	O	ME-SA	Srl-97	None
12855	PAK/7/2016	Cattle	88.17	0	O	ME-SA	PanAsia-2	PUN-16
12780	PAK/58/2012	Cattle	88.13	0	O	ME-SA	PanAsia-2	ICT-12
8590	IRN/31/2009	Cattle	87.99	0	O	ME-SA	PanAsia-2	FAR-09
17602	UKG/35/2001		87.86	0	O	ME-SA	PanAsia	None

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

Virus sample: VIT/14/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-2033
Location of origin:	Vinh An, Dong Nai Province
Country of origin:	Vietnam
Date of collection:	2024-08-08
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2026-06-13
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485481	TAI/9/2022	Cattle	98.42	0	O	ME-SA	Ind-2001	e
485483	TAI/11/2022	Cattle	98.42	0	O	ME-SA	Ind-2001	e
485484	TAI/12/2022	Cattle	98.42	0	O	ME-SA	Ind-2001	e
485480	TAI/8/2022	Cattle	98.26	0	O	ME-SA	Ind-2001	e
485477	TAI/5/2022	Cattle	98.10	0	O	ME-SA	Ind-2001	e
485485	TAI/13/2022	Cattle	98.10	1	O	ME-SA	Ind-2001	e
485486	TAI/15/2022	Cattle	98.10	1	O	ME-SA	Ind-2001	e
485479	TAI/7/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485482	TAI/10/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485488	TAI/17/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.94	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	92.73	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		91.01	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		90.54	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	89.89	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	89.42	0	O	ME-SA	Ind-2001	c
12780	PAK/58/2012	Cattle	89.08	0	O	ME-SA	PanAsia-2	ICT-12
12855	PAK/7/2016	Cattle	88.80	0	O	ME-SA	PanAsia-2	PUN-16
17602	UKG/35/2001		88.33	0	O	ME-SA	PanAsia	None
8912	IRN/88/2009		88.18	0	O	ME-SA	PanAsia-2	ANT-10

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

Virus sample: VIT/17/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS55
Location of origin:	Ban Thi, Bac Kan Province
Country of origin:	Vietnam
Date of collection:	2024-11-18
Host species:	water buffalo

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485481	TAI/9/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485483	TAI/11/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485484	TAI/12/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485480	TAI/8/2022	Cattle	97.79	0	O	ME-SA	Ind-2001	e
485477	TAI/5/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485478	TAI/6/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485485	TAI/13/2022	Cattle	97.63	1	O	ME-SA	Ind-2001	e
485486	TAI/15/2022	Cattle	97.63	1	O	ME-SA	Ind-2001	e
485488	TAI/17/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485490	TAI/19/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	95.10	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.63	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		90.06	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		89.75	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	88.78	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	88.63	0	O	ME-SA	Ind-2001	c
12780	PAK/58/2012	Cattle	88.29	0	O	ME-SA	PanAsia-2	ICT-12
12855	PAK/7/2016	Cattle	88.13	0	O	ME-SA	PanAsia-2	PUN-16
17602	UKG/35/2001		87.54	0	O	ME-SA	PanAsia	None
8590	IRN/31/2009	Cattle	87.36	0	O	ME-SA	PanAsia-2	FAR-09

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

Virus sample: VIT/18/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS56
Location of origin:	Bo Ly, Vinh Phuc Province
Country of origin:	Vietnam
Date of collection:	2024-11-21
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	94.94	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	94.94	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	94.63	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	93.91	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.43	0	O	SEA	Mya-98	None
856125	SKR/AS/67/2015	Pig	92.95	0	O	SEA	Mya-98	None
14303	SKR/2014-JC02D111		92.79	0	O	SEA	Mya-98	None
14350	SKR_Jincheon_2014_D1-11_Crust	Pig	92.79	0	O	SEA	Mya-98	None
18667	VN24/2015	Pig	92.79	0	O	SEA	Mya-98	None
854806	SKR/YI/34N1/2015	Pig	92.79	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		88.63	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.46	0	O	SEA	Tai-87	None
14466	SRL/1/78		79.94	0	O	WCSA-1	Srl-77	None

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

Virus sample: VIT/19/2024

Sample details

Reception Date:	2026-05-13
Sender reference:	24-FS106
Location of origin:	Thien Tan, Lang Son Province
Country of origin:	Vietnam
Date of collection:	2024-12-28
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	94.94	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	94.94	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	94.63	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	94.23	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.75	0	O	SEA	Mya-98	None
18667	VN24/2015	Pig	93.11	0	O	SEA	Mya-98	None
18067	VIT/14/2019	Pig	92.95	0	O	SEA	Mya-98	None
18376	VIT/4/2019	Pig	92.95	0	O	SEA	Mya-98	None
18467	VIT/6/2019	Pig	92.95	0	O	SEA	Mya-98	None
854845	19-1857-O-VTN-9-2019	Pig	92.95	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		88.63	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.46	0	O	SEA	Tai-87	None
14466	SRL/1/78		79.78	0	O	WCSA-1	Srl-77	None

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

Virus sample: VIT/1/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS7
Location of origin:	Thinh Minh, Hoa Binh Province
Country of origin:	Vietnam
Date of collection:	2025-01-08
Host species:	water buffalo

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485481	TAI/9/2022	Cattle	97.79	0	O	ME-SA	Ind-2001	e
485483	TAI/11/2022	Cattle	97.79	0	O	ME-SA	Ind-2001	e
485484	TAI/12/2022	Cattle	97.79	0	O	ME-SA	Ind-2001	e
485480	TAI/8/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485477	TAI/5/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485478	TAI/6/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485485	TAI/13/2022	Cattle	97.47	1	O	ME-SA	Ind-2001	e
485486	TAI/15/2022	Cattle	97.47	1	O	ME-SA	Ind-2001	e
485488	TAI/17/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485490	TAI/19/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.94	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.47	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		89.90	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		89.59	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	88.63	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	88.47	0	O	ME-SA	Ind-2001	c
12780	PAK/58/2012	Cattle	88.13	0	O	ME-SA	PanAsia-2	ICT-12
12855	PAK/7/2016	Cattle	87.97	0	O	ME-SA	PanAsia-2	PUN-16
17602	UKG/35/2001		87.70	0	O	ME-SA	PanAsia	None
8590	IRN/31/2009	Cattle	87.20	0	O	ME-SA	PanAsia-2	FAR-09

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

Virus sample: VIT/3/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS15
Location of origin:	Khanh Yen, Lao Cai Province
Country of origin:	Vietnam
Date of collection:	2025-02-04
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	94.63	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	94.63	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	94.31	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	93.59	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.11	0	O	SEA	Mya-98	None
18667	VN24/2015	Pig	92.79	0	O	SEA	Mya-98	None
18067	VIT/14/2019	Pig	92.63	0	O	SEA	Mya-98	None
18376	VIT/4/2019	Pig	92.63	0	O	SEA	Mya-98	None
18467	VIT/6/2019	Pig	92.63	0	O	SEA	Mya-98	None
854845	19-1857-O-VTN-9-2019	Pig	92.63	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		88.31	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.46	0	O	SEA	Tai-87	None
14466	SRL/1/78		79.94	0	O	WCSA-1	Srl-77	None

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

Virus sample: VIT/4/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS17
Location of origin:	Huong Mai, Bac Giang Province
Country of origin:	Vietnam
Date of collection:	2025-02-06
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	SEA
Lineage:	Mya-98
Sublineage:	None

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
13443	Primorskiy/RUS/1/2019	Pig	94.79	0	O	SEA	Mya-98	None
13444	Primorskiy/RUS/2/2019	Pig	94.79	0	O	SEA	Mya-98	None
13446	Primorskiy/RUS/3/2019	Pig	94.47	0	O	SEA	Mya-98	None
18652	VN1/2014	Pig	93.75	0	O	SEA	Mya-98	None
18665	VN22/2015	Pig	93.27	0	O	SEA	Mya-98	None
856125	SKR/AS/67/2015	Pig	93.11	0	O	SEA	Mya-98	None
14303	SKR/2014-JC02D111		92.95	0	O	SEA	Mya-98	None
14350	SKR_Jincheon_2014_D1-11_Crust	Pig	92.95	0	O	SEA	Mya-98	None
854806	SKR/YI/34N1/2015	Pig	92.95	0	O	SEA	Mya-98	None
856114	SKR/YI/34/2015	Pig	92.95	0	O	SEA	Mya-98	None
FMDV VP1 Prototype Sequences*								
11282	MYA/7/98		88.47	0	O	SEA	Mya-98	None
10451	LAO/1/87	Water Buffalo	84.30	0	O	SEA	Tai-87	None
14466	SRL/1/78		79.78	0	O	WCSA-1	Srl-77	None

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

Virus sample: VIT/5/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS23
Location of origin:	Co Dung, Hai Duong Province
Country of origin:	Vietnam
Date of collection:	2025-02-08
Host species:	pig

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485481	TAI/9/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485483	TAI/11/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485484	TAI/12/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485480	TAI/8/2022	Cattle	97.79	0	O	ME-SA	Ind-2001	e
485491	TAI/20/2022	Cattle	97.79	0	O	ME-SA	Ind-2001	e
485477	TAI/5/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485478	TAI/6/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485485	TAI/13/2022	Cattle	97.63	1	O	ME-SA	Ind-2001	e
485486	TAI/15/2022	Cattle	97.63	1	O	ME-SA	Ind-2001	e
485488	TAI/17/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	95.10	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.63	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		90.06	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		89.75	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	88.78	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	88.31	0	O	ME-SA	Ind-2001	c
12780	PAK/58/2012	Cattle	87.97	0	O	ME-SA	PanAsia-2	ICT-12
17602	UKG/35/2001		87.86	0	O	ME-SA	PanAsia	None
12855	PAK/7/2016	Cattle	87.82	0	O	ME-SA	PanAsia-2	PUN-16
8590	IRN/31/2009	Cattle	87.36	0	O	ME-SA	PanAsia-2	FAR-09

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

Virus sample: VIT/6/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS21
Location of origin:	Xuan Nha, Son La Province
Country of origin:	Vietnam
Date of collection:	2025-02-19
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-11
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485481	TAI/9/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485483	TAI/11/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485484	TAI/12/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485480	TAI/8/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485491	TAI/20/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485477	TAI/5/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
485478	TAI/6/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
485485	TAI/13/2022	Cattle	97.31	1	O	ME-SA	Ind-2001	e
485486	TAI/15/2022	Cattle	97.31	1	O	ME-SA	Ind-2001	e
485488	TAI/17/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.79	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.31	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		89.75	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		89.43	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	88.47	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	87.99	0	O	ME-SA	Ind-2001	c
12780	PAK/58/2012	Cattle	87.66	0	O	ME-SA	PanAsia-2	ICT-12
12855	PAK/7/2016	Cattle	87.50	0	O	ME-SA	PanAsia-2	PUN-16
8790	IRN/6/2015	Cattle	87.08	0	O	ME-SA	PanAsia-2	QOM-15
8590	IRN/31/2009	Cattle	87.05	0	O	ME-SA	PanAsia-2	FAR-09

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

Virus sample: VIT/7/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS22
Location of origin:	Long Luong, Son La Province
Country of origin:	Vietnam
Date of collection:	2025-03-05
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK2
Material Harvest Date:	2026-06-13
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
485481	TAI/9/2022	Cattle	98.26	0	O	ME-SA	Ind-2001	e
485483	TAI/11/2022	Cattle	98.26	0	O	ME-SA	Ind-2001	e
485484	TAI/12/2022	Cattle	98.26	0	O	ME-SA	Ind-2001	e
485480	TAI/8/2022	Cattle	98.10	0	O	ME-SA	Ind-2001	e
485491	TAI/20/2022	Cattle	98.10	0	O	ME-SA	Ind-2001	e
485477	TAI/5/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485478	TAI/6/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
485485	TAI/13/2022	Cattle	97.95	1	O	ME-SA	Ind-2001	e
485486	TAI/15/2022	Cattle	97.95	1	O	ME-SA	Ind-2001	e
485488	TAI/17/2022	Cattle	97.95	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	95.10	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.78	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		90.22	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		89.90	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	88.94	0	O	ME-SA	Srl-97	None
17330	UAE/4/2008	Gazelle	88.47	0	O	ME-SA	Ind-2001	c
12780	PAK/58/2012	Cattle	88.29	0	O	ME-SA	PanAsia-2	ICT-12
12855	PAK/7/2016	Cattle	88.13	0	O	ME-SA	PanAsia-2	PUN-16
17602	UKG/35/2001		87.70	0	O	ME-SA	PanAsia	None
8590	IRN/31/2009	Cattle	87.52	0	O	ME-SA	PanAsia-2	FAR-09

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

Virus sample: VIT/9/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS35
Location of origin:	Cong Chinh, Thanh Hoa Province
Country of origin:	Vietnam
Date of collection:	2025-08-15
Host species:	water buffalo

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-12
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1482454	MYA/2/2020	Pig	96.84	0	O	ME-SA	Ind-2001	e
1482455	MYA/4/2022	Cattle	96.84	0	O	ME-SA	Ind-2001	e
1482456	MYA/5/2022	Cattle	96.84	0	O	ME-SA	Ind-2001	e
1482457	MYA/6/2022	Cattle	96.84	0	O	ME-SA	Ind-2001	e
1482460	MYA/10/2022	Cattle	96.68	0	O	ME-SA	Ind-2001	e
1482461	MYA/11/2022	Cattle	96.68	0	O	ME-SA	Ind-2001	e
1482464	MYA/15/2022	Cattle	96.68	0	O	ME-SA	Ind-2001	e
485489	TAI/18/2022	Cattle	96.37	0	O	ME-SA	Ind-2001	e
485492	TAI/1/2023	Cattle	96.37	0	O	ME-SA	Ind-2001	e
1482459	MYA/9/2022	Cattle	96.37	1	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	93.68	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	90.20	0	O	ME-SA	Ind-2001	d
10350	KUW/3/97		89.90	0	O	ME-SA	Ind-2001	a
11999	OMN/7/2001		89.90	0	O	ME-SA	Ind-2001	b
17330	UAE/4/2008	Gazelle	88.47	0	O	ME-SA	Ind-2001	c
14504	SRL/2/97	Bovine	88.15	0	O	ME-SA	Srl-97	None
12855	PAK/7/2016	Cattle	87.66	0	O	ME-SA	PanAsia-2	PUN-16
17602	UKG/35/2001		87.54	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		87.40	0	O	ME-SA	PanAsia-2	KHO-10
10481	LAO/2/2006	Cattle	87.36	0	O	ME-SA	PanAsia	None

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

Virus sample: VIT/10/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS39
Location of origin:	Truc Lam, Thanh Hoa Province
Country of origin:	Vietnam
Date of collection:	2025-11-30
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-12
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1482454	MYA/2/2020	Pig	97.47	0	O	ME-SA	Ind-2001	e
1482455	MYA/4/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482456	MYA/5/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482457	MYA/6/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485489	TAI/18/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
485492	TAI/1/2023	Cattle	97.31	0	O	ME-SA	Ind-2001	e
1482459	MYA/9/2022	Cattle	97.31	1	O	ME-SA	Ind-2001	e
1482460	MYA/10/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
1482461	MYA/11/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
1482464	MYA/15/2022	Cattle	97.31	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.94	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.47	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		91.17	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		90.54	0	O	ME-SA	Ind-2001	a
17602	UKG/35/2001		89.12	0	O	ME-SA	PanAsia	None
14504	SRL/2/97	Bovine	88.63	0	O	ME-SA	Srl-97	None
10481	LAO/2/2006	Cattle	88.31	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		88.19	0	O	ME-SA	PanAsia-2	KHO-10
8875	IRN/8/2005	Sheep	88.01	0	O	ME-SA	PanAsia-2	None
15944	Manisa/TUR/69_(O1)		87.99	0	O	ME-SA	None	None

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

Virus sample: VIT/11/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-H048
Location of origin:	Bac Cam Ranh, Khanh Hoa Province
Country of origin:	Vietnam
Date of collection:	2025-12-02
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-12
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1482454	MYA/2/2020	Pig	97.63	0	O	ME-SA	Ind-2001	e
1482455	MYA/4/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
1482456	MYA/5/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
1482457	MYA/6/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485489	TAI/18/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485492	TAI/1/2023	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482459	MYA/9/2022	Cattle	97.47	1	O	ME-SA	Ind-2001	e
1482460	MYA/10/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482461	MYA/11/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482464	MYA/15/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	95.10	0	O	ME-SA	Ind-2001	e
11999	OMN/7/2001		91.48	0	O	ME-SA	Ind-2001	b
3294	BHU/3/2009	Cattle	91.15	0	O	ME-SA	Ind-2001	d
10350	KUW/3/97		90.85	0	O	ME-SA	Ind-2001	a
14504	SRL/2/97	Bovine	89.57	0	O	ME-SA	Srl-97	None
17602	UKG/35/2001		89.12	0	O	ME-SA	PanAsia	None
10481	LAO/2/2006	Cattle	88.63	0	O	ME-SA	PanAsia	None
8875	IRN/8/2005	Sheep	88.33	0	O	ME-SA	PanAsia-2	None
15944	Manisa/TUR/69_(O1)		88.31	0	O	ME-SA	None	None
212	AFG/30/2010		88.19	0	O	ME-SA	PanAsia-2	KHO-10

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

Virus sample: VIT/12/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS149
Location of origin:	Hong Minh, Hung Yen Province
Country of origin:	Vietnam
Date of collection:	2025-12-31
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-13
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1482454	MYA/2/2020	Pig	97.63	0	O	ME-SA	Ind-2001	e
1482455	MYA/4/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
1482456	MYA/5/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
1482457	MYA/6/2022	Cattle	97.63	0	O	ME-SA	Ind-2001	e
485489	TAI/18/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
485492	TAI/1/2023	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482459	MYA/9/2022	Cattle	97.47	1	O	ME-SA	Ind-2001	e
1482460	MYA/10/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482461	MYA/11/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
1482464	MYA/15/2022	Cattle	97.47	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	95.10	0	O	ME-SA	Ind-2001	e
11999	OMN/7/2001		91.64	0	O	ME-SA	Ind-2001	b
3294	BHU/3/2009	Cattle	91.63	0	O	ME-SA	Ind-2001	d
10350	KUW/3/97		90.69	0	O	ME-SA	Ind-2001	a
17602	UKG/35/2001		89.12	0	O	ME-SA	PanAsia	None
14504	SRL/2/97	Bovine	88.94	0	O	ME-SA	Srl-97	None
15944	Manisa/TUR/69_(O1)		88.31	0	O	ME-SA	None	None
212	AFG/30/2010		88.19	0	O	ME-SA	PanAsia-2	KHO-10
8875	IRN/8/2005	Sheep	88.01	0	O	ME-SA	PanAsia-2	None
10481	LAO/2/2006	Cattle	87.99	0	O	ME-SA	PanAsia	None

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

Virus sample: VIT/13/2025

Sample details

Reception Date:	2026-05-13
Sender reference:	25-FS157
Location of origin:	Hong Minh, Hung Yen Province
Country of origin:	Vietnam
Date of collection:	2025-12-31
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	Ind-2001
Sublineage:	e

Sequencing details

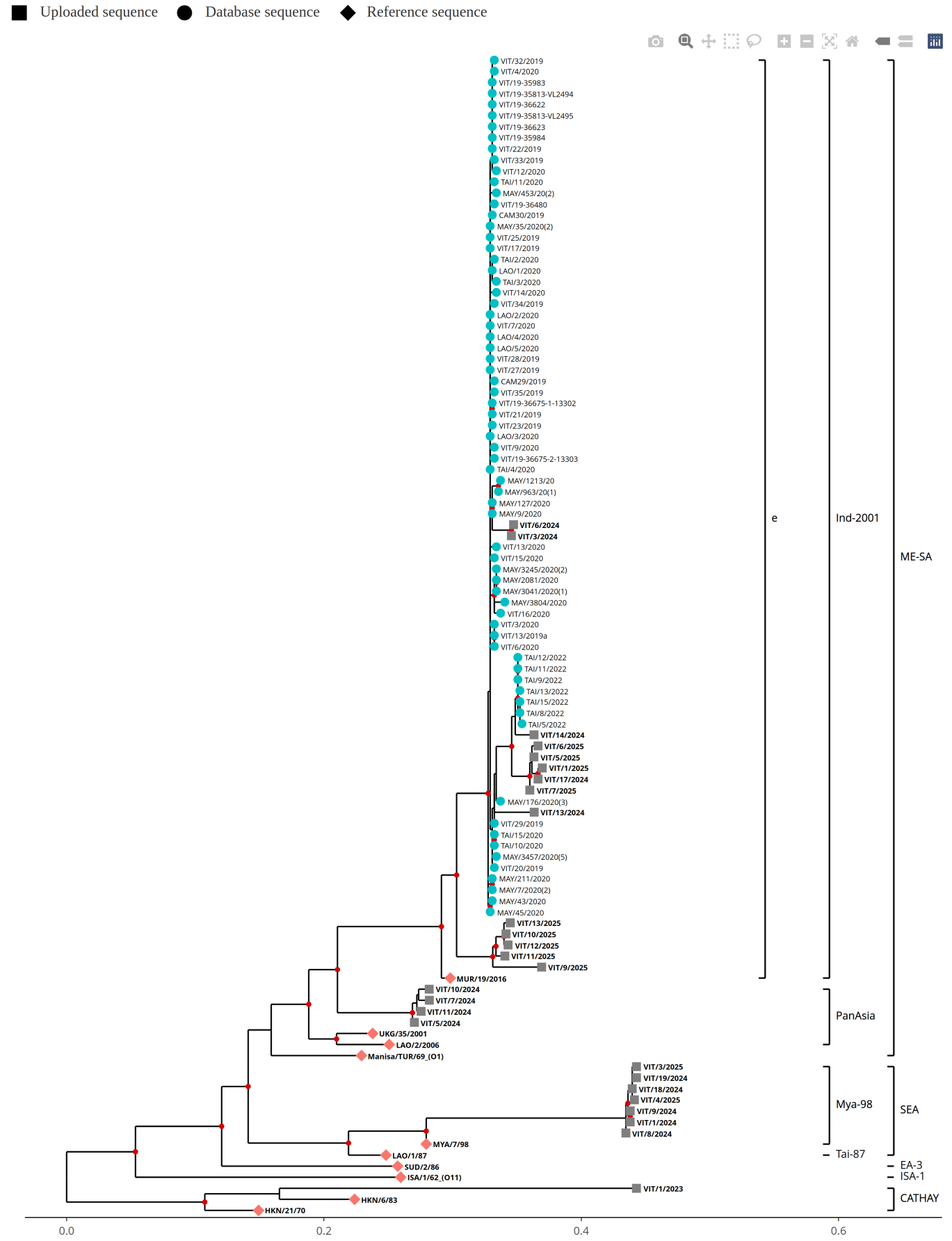
Material submitted for sequencing:	WRL-LFBK1
Material Harvest Date:	2026-06-13
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1482454	MYA/2/2020	Pig	97.16	0	O	ME-SA	Ind-2001	e
1482455	MYA/4/2022	Cattle	97.16	0	O	ME-SA	Ind-2001	e
1482456	MYA/5/2022	Cattle	97.16	0	O	ME-SA	Ind-2001	e
1482457	MYA/6/2022	Cattle	97.16	0	O	ME-SA	Ind-2001	e
485489	TAI/18/2022	Cattle	97.00	0	O	ME-SA	Ind-2001	e
485492	TAI/1/2023	Cattle	97.00	0	O	ME-SA	Ind-2001	e
1482459	MYA/9/2022	Cattle	97.00	1	O	ME-SA	Ind-2001	e
1482460	MYA/10/2022	Cattle	97.00	0	O	ME-SA	Ind-2001	e
1482461	MYA/11/2022	Cattle	97.00	0	O	ME-SA	Ind-2001	e
1482464	MYA/15/2022	Cattle	97.00	0	O	ME-SA	Ind-2001	e
FMDV VP1 Prototype Sequences*								
10989	MUR/19/2016	Cattle	94.63	0	O	ME-SA	Ind-2001	e
3294	BHU/3/2009	Cattle	91.47	0	O	ME-SA	Ind-2001	d
11999	OMN/7/2001		90.85	0	O	ME-SA	Ind-2001	b
10350	KUW/3/97		90.22	0	O	ME-SA	Ind-2001	a
17602	UKG/35/2001		88.49	0	O	ME-SA	PanAsia	None
14504	SRL/2/97	Bovine	88.31	0	O	ME-SA	Srl-97	None
10481	LAO/2/2006	Cattle	87.99	0	O	ME-SA	PanAsia	None
15944	Manisa/TUR/69_(O1)		87.68	0	O	ME-SA	None	None
12780	PAK/58/2012	Cattle	87.66	0	O	ME-SA	PanAsia-2	ICT-12
212	AFG/30/2010		87.56	0	O	ME-SA	PanAsia-2	KHO-10

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

Tree


Uploaded sequence
Database sequence
Reference sequence
VIT/32/2019
VIT/4/2020
VIT/19-35983
VIT/19-35813-VL2494
VIT/19-36622
VIT/19-35813-VL2495
VIT/19-36623
VIT/19-35984
VIT/22/2019
VIT/33/2019
VIT/12/2020
TAI/11/2020
MAY/453/20(2)
VIT/19-36480
CAM30/2019
MAY/35/2020(2)
VIT/25/2019
VIT/17/2019
TAI/2/2020
LAO/1/2020
TAI/3/2020
VIT/14/2020
VIT/34/2019
LAO/2/2020
VIT/7/2020
LAO/4/2020
LAO/5/2020
VIT/28/2019
VIT/27/2019
CAM29/2019
VIT/35/2019
VIT/19-36675-1-13302
VIT/21/2019
VIT/23/2019
LAO/3/2020
VIT/9/2020
VIT/19-36675-2-13303
TAI/4/2020
MAY/1213/20
MAY/963/20(1)
MAY/127/2020
MAY/9/2020
VIT/6/2024
VIT/3/2024
VIT/13/2020
VIT/15/2020
MAY/3245/2020(2)
MAY/2081/2020
MAY/3041/2020(1)
MAY/3804/2020
VIT/16/2020
VIT/3/2020
VIT/13/2019a
VIT/6/2020
TAI/12/2022
TAI/11/2022
TAI/9/2022
TAI/13/2022
TAI/15/2022
TAI/8/2022
TAI/5/2022
VIT/14/2024
VIT/6/2025
VIT/5/2025
VIT/1/2025
VIT/17/2024
VIT/7/2025
MAY/176/2020(3)
VIT/13/2024
VIT/29/2019
TAI/15/2020
TAI/10/2020
MAY/3457/2020(5)
VIT/20/2019
MAY/211/2020
MAY/7/2020(2)
MAY/43/2020
MAY/45/2020
VIT/13/2025
VIT/10/2025
VIT/12/2025
VIT/11/2025
VIT/9/2025
MUR/19/2016
VIT/10/2024
VIT/7/2024
VIT/11/2024
VIT/5/2024
UKG/35/2001
LAO/2/2006
Manisa/TUR/69_(O1)
VIT/3/2025
VIT/19/2024
VIT/18/2024
VIT/4/2025
VIT/9/2024
VIT/1/2024
VIT/8/2024
MYA/7/98
LAO/1/87
SUD/2/86
ISA/1/62_(O11)
VIT/1/2023
HKN/6/83
HKN/21/70
e
Ind-2001
PanAsia
Mya-98
Tai-87
ME-SA
SEA
EA-3
ISA-1
CATHAY
0.0
0.2
0.4
0.6

Analysis Parameters

Query sequence set: WRLFMD/2026/000010
Number of related sequences reported: 69
Number of prototype sequences in tree: 10
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
VIT/12/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/13/2019a	None	Pig	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/13/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/14/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/17/2019	None	Pig	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-35813-VL2494 *	None	Cattle	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-35813-VL2495 *	None	Cattle	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-35983 *	None	Cattle	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-35984 *	None	Cattle	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-36480 *	None	Cattle	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-36622 *	None	Cattle	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-36623 *	None	Pig	RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-36675-1-13302 *	None		RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/19-36675-2-13303 *	None		RAHO6	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/20/2019	None	Water Buffalo	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/21/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/22/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/23/2019	None	Water Buffalo	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/25/2019	None	Pig	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/27/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/28/2019	None	Water Buffalo	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/29/2019	None	Water Buffalo	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/3/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/32/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/33/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/34/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/35/2019	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/4/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/6/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/7/2020	None	Pig	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/9/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
CAM29/2019 *	MZ634455	Cattle	APQA	Cambodia	O/ME-SA/Ind-2001/e	None
CAM30/2019 *	MZ634456	Cattle	APQA	Cambodia	O/ME-SA/Ind-2001/e	None
LAO/1/2020	None	Cattle	WRLFMD	Laos	O/ME-SA/Ind-2001/e	None
LAO/2/2020	None	Cattle	WRLFMD	Laos	O/ME-SA/Ind-2001/e	None
LAO/3/2020	None	Cattle	WRLFMD	Laos	O/ME-SA/Ind-2001/e	None
LAO/4/2020	None	Cattle	WRLFMD	Laos	O/ME-SA/Ind-2001/e	None
LAO/5/2020	None	Cattle	WRLFMD	Laos	O/ME-SA/Ind-2001/e	None
MAY/453/20(2) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/963/20(1) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/1213/20 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/7/2020(2) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/9/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/43/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/45/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/35/2020(2) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/127/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/176/2020(3) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/211/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/2081/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/3041/2020(1) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/3245/2020(2) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/3457/2020(5) *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
MAY/3804/2020 *	None	Cattle	MNFMDL	Malaysia	O/ME-SA/Ind-2001/e	None
TAI/2/2020	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/3/2020	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/4/2020	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/10/2020	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/11/2020	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/15/2020	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
VIT/15/2020	None	Cattle	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None
VIT/16/2020	None	Water Buffalo	WRLFMD	Vietnam	O/ME-SA/Ind-2001/e	None

FMDV VP1 Sequences included in the Phylogenetic Tree *(continued)*

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
TAI/5/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/8/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/9/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/11/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/12/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/13/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None
TAI/15/2022	None	Cattle	WRLFMD	Thailand	O/ME-SA/Ind-2001/e	None

* Not a WRLFMD Reference Number;
- Not Available