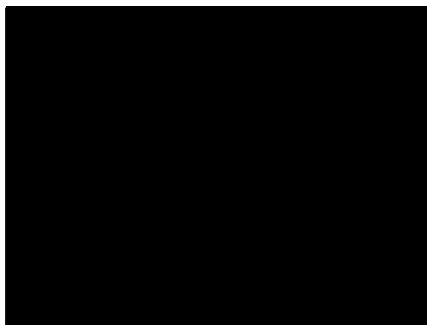




FMD Genotyping Report

Lab Reference WRL batch Number: WRLMEG/2025/000011 &15

Sender Details:



Date Received: 04/06/2025

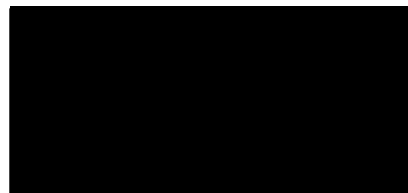
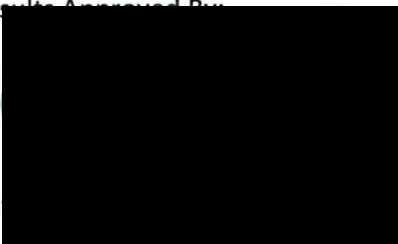
Country of Origin*: Israel

Work has now been completed in respect of the sequences recently submitted and the details are as attached. Please note that all our phylogenetic trees can be accessed via the internet at:
<http://www.wrlfmd.org/>

Results Approved By:

Official Stamp:

Date:



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



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



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

FMDV Genotyping Report

Generated from: FMDtype | FMDV Genotyping Tool

Downloaded on: 04 June 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLMEG/2025/000011 and 15]. (Accessed 04/06/25)

FMDV serotype: O

Country: Israel

Year: 2025

Batch: WRLMEG/2025/000011 and 15

No. of sequences: 8

Reported date: 04 June 2025

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

Email: reporting@pirbright.ac.uk

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FMDtype is supported through funding from

Virus sample: Snir534893/ISR/2025

Sample details

Reception Date:	2025-06-04
Sender reference:	Snir_534893
Location of origin:	Tel Dan, Snir, HaZafon
Country of origin:	Israel
Date of collection:	2025-05-24
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1071117	GER/1/2025	Water Buffalo	99.68	0	O	ME-SA	SA-2018	None
659138	TUR/Igdir/2024	Sheep	99.53	0	O	ME-SA	SA-2018	None
659061	Otarod_2008/IRN/2023	Cattle	98.58	0	O	ME-SA	SA-2018	None
484950	ICFMD/IND/79/2021	Cattle	98.10	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	98.10	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	98.10	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	98.10	0	O	ME-SA	SA-2018	None
484975	ICFMD/IND/270/2021	Goat	98.10	0	O	ME-SA	SA-2018	None
484976	ICFMD/IND/273/2021	Goat	98.10	0	O	ME-SA	SA-2018	None
484977	ICFMD/IND/275/2021	Goat	98.10	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	93.36	0	O	ME-SA	SA-2018	None
8590	IRN/31/2009	Cattle	91.14	0	O	ME-SA	PanAsia-2	FAR-09
8912	IRN/88/2009		90.68	0	O	ME-SA	PanAsia-2	ANT-10
8355	IRN/18/2010	Cattle	90.62	0	O	ME-SA	PanAsia-2	BAL-09
16370	TUR/257/2008		90.31	0	O	ME-SA	PanAsia-2	TER-08
8875	IRN/8/2005	Sheep	90.30	0	O	ME-SA	PanAsia-2	None
14504	SRL/2/97	Bovine	90.19	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		90.14	0	O	ME-SA	PanAsia-2	SAN-09
10481	LAO/2/2006	Cattle	89.87	0	O	ME-SA	PanAsia	None
8790	IRN/6/2015	Cattle	89.75	0	O	ME-SA	PanAsia-2	QOM-15

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

Virus sample: Neve_Tzuf_525878/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Neve_Tzuf_525878
Location of origin:	El Akbar - Judah and Samariah area Newe Tzuf, HaMerkaz
Country of origin:	Israel
Date of collection:	2025-01-07
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659133	Teibe_PA_522300-1/PAT/2024	Sheep	100.00	0	O	ME-SA	SA-2018	None
1071124	Mezer/ISR/2025	Cattle	100.00	0	O	ME-SA	SA-2018	None
1071119	Melea_527131/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071120	Hura_528355/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071121	Dmeide_529574/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071122	Tamra_529896/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071123	Zarzir_530693/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	97.16	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	97.16	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	97.16	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	93.21	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.35	0	O	ME-SA	PanAsia-2	BAL-09
8912	IRN/88/2009		90.20	0	O	ME-SA	PanAsia-2	ANT-10
8590	IRN/31/2009	Cattle	90.14	0	O	ME-SA	PanAsia-2	FAR-09
14504	SRL/2/97	Bovine	90.14	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		89.87	0	O	ME-SA	PanAsia-2	SAN-09
8875	IRN/8/2005	Sheep	89.72	0	O	ME-SA	PanAsia-2	None
16370	TUR/257/2008		89.71	0	O	ME-SA	PanAsia-2	TER-08
17602	UKG/35/2001		89.35	0	O	ME-SA	PanAsia	None
12780	PAK/58/2012	Cattle	89.26	0	O	ME-SA	PanAsia-2	ICT-12

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

Virus sample: Melea_527131/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Melea_527131
Location of origin:	Melea, HaZafon
Country of origin:	Israel
Date of collection:	2025-01-19
Host species:	sheep

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1071118	Neve_Tzuf_525878/ISR/2025	Cattle	99.84	0	O	ME-SA	SA-2018	None
1071120	Hura_528355/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071121	Dmeide_529574/ISR/2025	Cattle	99.84	0	O	ME-SA	SA-2018	None
1071122	Tamra_529896/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071124	Mezer/ISR/2025	Cattle	99.84	0	O	ME-SA	SA-2018	None
659133	Teibe_PA_522300-1/PAT/2024	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071123	Zarzir_530693/ISR/2025	Cattle	99.53	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	97.00	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	97.00	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	97.00	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	93.05	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.19	0	O	ME-SA	PanAsia-2	BAL-09
8912	IRN/88/2009		90.05	0	O	ME-SA	PanAsia-2	ANT-10
8590	IRN/31/2009	Cattle	89.98	0	O	ME-SA	PanAsia-2	FAR-09
14504	SRL/2/97	Bovine	89.98	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		89.71	0	O	ME-SA	PanAsia-2	SAN-09
8875	IRN/8/2005	Sheep	89.56	0	O	ME-SA	PanAsia-2	None
16370	TUR/257/2008		89.55	0	O	ME-SA	PanAsia-2	TER-08
17602	UKG/35/2001		89.19	0	O	ME-SA	PanAsia	None
12780	PAK/58/2012	Cattle	89.10	0	O	ME-SA	PanAsia-2	ICT-12

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

Virus sample: Hura_528355/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Hura_528355
Location of origin:	Hura, HaDarom
Country of origin:	Israel
Date of collection:	2025-02-13
Host species:	sheep

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1071119	Melea_527131/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071118	Neve_Tzuf_525878/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071121	Dmeide_529574/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071122	Tamra_529896/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071124	Mezer/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
659133	Teibe_PA_522300-1/PAT/2024	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071123	Zarzir_530693/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	96.84	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	96.84	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	96.84	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	92.89	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.03	0	O	ME-SA	PanAsia-2	BAL-09
8912	IRN/88/2009		89.89	0	O	ME-SA	PanAsia-2	ANT-10
8590	IRN/31/2009	Cattle	89.83	0	O	ME-SA	PanAsia-2	FAR-09
14504	SRL/2/97	Bovine	89.83	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		89.55	0	O	ME-SA	PanAsia-2	SAN-09
8875	IRN/8/2005	Sheep	89.40	0	O	ME-SA	PanAsia-2	None
16370	TUR/257/2008		89.39	0	O	ME-SA	PanAsia-2	TER-08
17602	UKG/35/2001		89.03	0	O	ME-SA	PanAsia	None
12780	PAK/58/2012	Cattle	88.94	0	O	ME-SA	PanAsia-2	ICT-12

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

Virus sample: Dmeide_529574/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Dmeide_529574
Location of origin:	Dmeide, HaZafon
Country of origin:	Israel
Date of collection:	2025-03-03
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1071119	Melea_527131/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
659133	Teibe_PA_522300-1/PAT/2024	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071118	Neve_Tzuf_525878/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071120	Hura_528355/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071122	Tamra_529896/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071124	Mezer/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071123	Zarzir_530693/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	96.84	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	96.84	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	96.84	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	92.89	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.03	0	O	ME-SA	PanAsia-2	BAL-09
8912	IRN/88/2009		89.89	0	O	ME-SA	PanAsia-2	ANT-10
8590	IRN/31/2009	Cattle	89.83	0	O	ME-SA	PanAsia-2	FAR-09
14504	SRL/2/97	Bovine	89.83	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		89.55	0	O	ME-SA	PanAsia-2	SAN-09
8875	IRN/8/2005	Sheep	89.40	0	O	ME-SA	PanAsia-2	None
16370	TUR/257/2008		89.39	0	O	ME-SA	PanAsia-2	TER-08
17602	UKG/35/2001		89.03	0	O	ME-SA	PanAsia	None
12780	PAK/58/2012	Cattle	88.94	0	O	ME-SA	PanAsia-2	ICT-12

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

Virus sample: Tamra_529896/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Tamra_529896
Location of origin:	Tamra (Yizreel), HaZafon
Country of origin:	Israel
Date of collection:	2025-03-05
Host species:	sheep

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1071119	Melea_527131/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071118	Neve_Tzuf_525878/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071120	Hura_528355/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071121	Dmeide_529574/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071124	Mezer/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
659133	Teibe_PA_522300-1/PAT/2024	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071123	Zarzir_530693/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	97.16	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	97.16	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	97.16	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	93.21	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.35	0	O	ME-SA	PanAsia-2	BAL-09
8912	IRN/88/2009		90.20	0	O	ME-SA	PanAsia-2	ANT-10
8590	IRN/31/2009	Cattle	90.14	0	O	ME-SA	PanAsia-2	FAR-09
14504	SRL/2/97	Bovine	90.14	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		89.87	0	O	ME-SA	PanAsia-2	SAN-09
16370	TUR/257/2008		89.71	0	O	ME-SA	PanAsia-2	TER-08
8875	IRN/8/2005	Sheep	89.40	0	O	ME-SA	PanAsia-2	None
12780	PAK/58/2012	Cattle	89.26	0	O	ME-SA	PanAsia-2	ICT-12
12855	PAK/7/2016	Cattle	89.26	0	O	ME-SA	PanAsia-2	PUN-16

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

Virus sample: Zarzir_530693/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Zarzir_530693
Location of origin:	Zarzir, HaZafon
Country of origin:	Israel
Date of collection:	2025-03-19
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
1071119	Melea_527131/ISR/2025	Sheep	99.53	0	O	ME-SA	SA-2018	None
1071118	Neve_Tzuf_525878/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
1071120	Hura_528355/ISR/2025	Sheep	99.37	0	O	ME-SA	SA-2018	None
1071121	Dmeide_529574/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
1071122	Tamra_529896/ISR/2025	Sheep	99.37	0	O	ME-SA	SA-2018	None
1071124	Mezer/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
659133	Teibe_PA_522300-1/PAT/2024	Sheep	99.36	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	96.52	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	96.52	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	96.52	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	92.58	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.03	0	O	ME-SA	PanAsia-2	BAL-09
8590	IRN/31/2009	Cattle	90.00	0	O	ME-SA	PanAsia-2	FAR-09
16377	TUR/264/2009		89.87	0	O	ME-SA	PanAsia-2	SAN-09
14504	SRL/2/97	Bovine	89.83	0	O	ME-SA	Srl-97	None
8875	IRN/8/2005	Sheep	89.72	0	O	ME-SA	PanAsia-2	None
16370	TUR/257/2008		89.71	0	O	ME-SA	PanAsia-2	TER-08
8912	IRN/88/2009		89.57	0	O	ME-SA	PanAsia-2	ANT-10
17602	UKG/35/2001		89.35	0	O	ME-SA	PanAsia	None
212	AFG/30/2010		89.19	0	O	ME-SA	PanAsia-2	KHO-10

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

Virus sample: Mezer/ISR/2025

Sample details

Reception Date:	2025-04-17
Sender reference:	Mezer
Location of origin:	Mezer, Haifa
Country of origin:	Israel
Date of collection:	2025-04-08
Host species:	cattle

Genotyping details

Serotype:	O
Topotype:	ME-SA
Lineage:	SA-2018
Sublineage:	None

Sequencing details

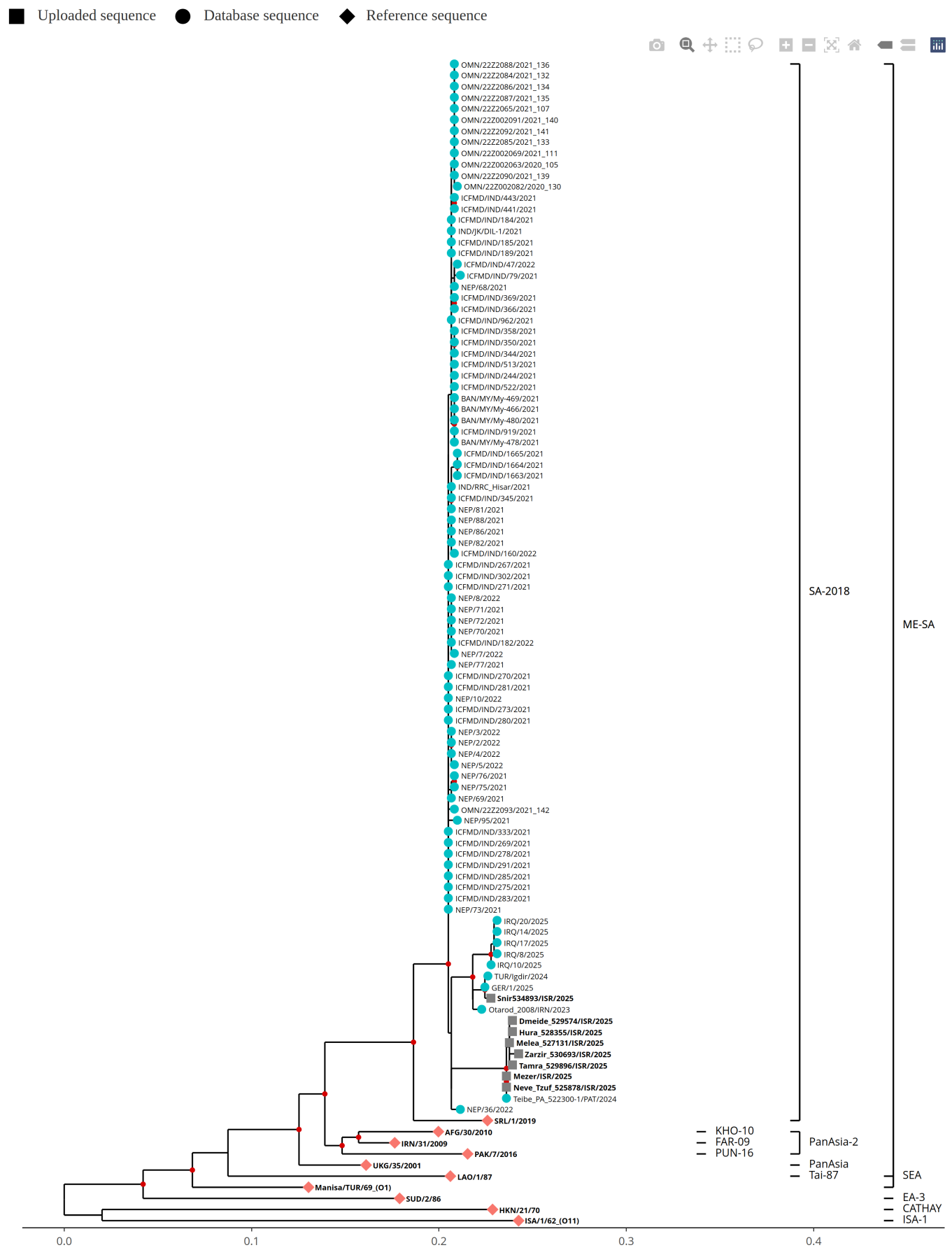
Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	636
Ambiguities:	0

Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
659133	Teibe_PA_522300-1/PAT/2024	Sheep	100.00	0	O	ME-SA	SA-2018	None
1071118	Neve_Tzuf_525878/ISR/2025	Cattle	100.00	0	O	ME-SA	SA-2018	None
1071119	Melea_527131/ISR/2025	Sheep	99.84	0	O	ME-SA	SA-2018	None
1071120	Hura_528355/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071121	Dmeide_529574/ISR/2025	Cattle	99.68	0	O	ME-SA	SA-2018	None
1071122	Tamra_529896/ISR/2025	Sheep	99.68	0	O	ME-SA	SA-2018	None
1071123	Zarzir_530693/ISR/2025	Cattle	99.37	0	O	ME-SA	SA-2018	None
484970	ICFMD/IND/280/2021	Sheep	97.16	0	O	ME-SA	SA-2018	None
484971	ICFMD/IND/271/2021	Goat	97.16	0	O	ME-SA	SA-2018	None
484974	ICFMD/IND/269/2021	Goat	97.16	0	O	ME-SA	SA-2018	None
FMDV VP1 Prototype Sequences*								
14465	SRL/1/2019	Cattle	93.21	0	O	ME-SA	SA-2018	None
8355	IRN/18/2010	Cattle	90.35	0	O	ME-SA	PanAsia-2	BAL-09
8912	IRN/88/2009		90.20	0	O	ME-SA	PanAsia-2	ANT-10
8590	IRN/31/2009	Cattle	90.14	0	O	ME-SA	PanAsia-2	FAR-09
14504	SRL/2/97	Bovine	90.14	0	O	ME-SA	Srl-97	None
16377	TUR/264/2009		89.87	0	O	ME-SA	PanAsia-2	SAN-09
8875	IRN/8/2005	Sheep	89.72	0	O	ME-SA	PanAsia-2	None
16370	TUR/257/2008		89.71	0	O	ME-SA	PanAsia-2	TER-08
17602	UKG/35/2001		89.35	0	O	ME-SA	PanAsia	None
12780	PAK/58/2012	Cattle	89.26	0	O	ME-SA	PanAsia-2	ICT-12

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

Tree



Analysis Parameters

Query sequence set: WRLMEG/2025/000011 and 15

Number of related sequences reported: 87

Number of prototype sequences in tree: 10

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
IRQ/8/2025	None	Cattle	WRLFMD	Iraq	O/ME-SA/SA-2018	
IRQ/10/2025	None	Cattle	WRLFMD	Iraq	O/ME-SA/SA-2018	
IRQ/14/2025	None	Water Buffalo	WRLFMD	Iraq	O/ME-SA/SA-2018	
IRQ/17/2025	None	Cattle	WRLFMD	Iraq	O/ME-SA/SA-2018	
IRQ/20/2025	None	Cattle	WRLFMD	Iraq	O/ME-SA/SA-2018	
GER/1/2025	None	Water Buffalo	WRLFMD	Germany	O/ME-SA/SA-2018	
BAN/MY/My-466/2021 *	OP320455	Cattle	UNIV-DHAKA	Bangladesh	O/ME-SA/SA-2018	
BAN/MY/My-469/2021 *	OP320456	Cattle	UNIV-DHAKA	Bangladesh	O/ME-SA/SA-2018	
BAN/MY/My-478/2021 *	OP320457	Cattle	UNIV-DHAKA	Bangladesh	O/ME-SA/SA-2018	
BAN/MY/My-480/2021 *	OP320458	Cattle	UNIV-DHAKA	Bangladesh	O/ME-SA/SA-2018	
OMN/22Z2065/2021_107 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2084/2021_132 *	None	Sheep	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2085/2021_133 *	None	Sheep	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2086/2021_134 *	None	Sheep	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2087/2021_135 *	None	Sheep	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2088/2021_136 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2090/2021_139 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2092/2021_141 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z2093/2021_142 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
ICFMD/IND/79/2021 *	QO847005	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/189/2021 *	QO847007	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/244/2021 *	QO847010		ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/280/2021 *	QO846957	Sheep	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/271/2021 *	QO846958	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/269/2021 *	QO847012	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/270/2021 *	QO847013	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/273/2021 *	QO847014	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/275/2021 *	QO847015	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/278/2021 *	QO847016	Sheep	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/281/2021 *	QO847017	Sheep	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/283/2021 *	QO847018	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/285/2021 *	QO847019	Sheep	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/333/2021 *	QO847022	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/291/2021 *	QO846955	Goat	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/267/2021 *	QO847011	Sheep	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/350/2021 *	QO846961	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/345/2021 *	QO846954	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/366/2021 *	QO846959	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/358/2021 *	QO847025	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/441/2021 *	QO846962	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/443/2021 *	QO847027	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/513/2021 *	QO847029	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/522/2021 *	QO846963	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/919/2021 *	QO847041	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/369/2021 *	QO847026	Pig	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/962/2021 *	QO847043	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/302/2021 *	QO846956	Sheep	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/184/2021 *	QO846960	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/185/2021 *	QO847006	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/344/2021 *	QO847023	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/1663/2021 *	QO847047	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/1664/2021 *	QO847048	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/1665/2021 *	QO847049	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/47/2022 *	QO847051	Pig	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/160/2022 *	QO847052	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
ICFMD/IND/182/2022 *	QO847053	Cattle	ICAR-DFMD	India	O/ME-SA/SA-2018	
NEP/68/2021	PQ654450	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/69/2021	PQ654451	Pig	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/70/2021	PQ654452	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/71/2021	PQ654453	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/72/2021	PQ654454	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/73/2021	PQ654455	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference
NEP/75/2021	PQ654457	Water Buffalo	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/76/2021	PQ654458	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/77/2021	PQ654459	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/81/2021	PQ654460	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/82/2021	PQ654461	Water Buffalo	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/86/2021	PQ654465	Pig	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/88/2021	PQ654467	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/95/2021	PQ654468	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/2/2022	PQ654470	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/3/2022	PQ654471	Goat	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/4/2022	PQ654472	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/5/2022	PQ654473	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/7/2022	PQ654474	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/8/2022	PQ654475	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/10/2022	PQ654476	Cattle	WRLFMD	Nepal	O/ME-SA/SA-2018	
NEP/36/2022	PQ654485	Pig	WRLFMD	Nepal	O/ME-SA/SA-2018	
OMN/22Z002063/2020_105 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z002082/2020_130 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z002069/2021_111 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
OMN/22Z002091/2021_140 *	None	Cattle	ANSES	Oman	O/ME-SA/SA-2018	
Otarod_2008/IRN/2023 *	OR991332	Cattle	UNIV-TEHRAN	Iran	O/ME-SA/SA-2018	
Teibe_PA_522300-1/PAT/2024 *	None	Sheep	KVI	State of Palestine (Palestinian Autonomous Territories)		O/ME-SA/SA-2018
TUR/Igdir/2024 *	None	Sheep	FMDI	Turkiye	O/ME-SA/SA-2018	
IND/JK/DIL-1/2021 *	OQ835514	Sheep	DIL-NOWSHERA	India	O/ME-SA/SA-2018	
IND/RRC_Hisar/2021 *	OR085630	Cattle	LUVAS	India	O/ME-SA/SA-2018	

* Not a WRLFMD Reference Number;

^ Not Available