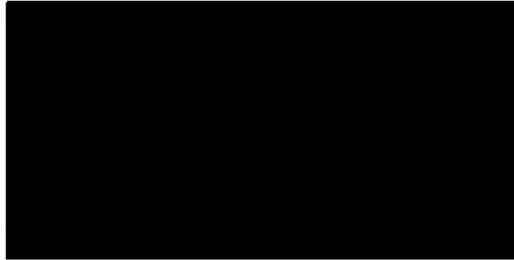




FMD Genotyping Report

Lab Reference WRL batch Number: WRLMEG/2025/000036

Sender Details:



Date Received: 07/11/2025

Country of Origin*: Turkiye

This report is prepared on behalf of the Şap Enstitüsü (Ankara, Türkiye) for a VP1 sequence submitted to the WRLFMD on 7th November 2025.

Please note that all our phylogenetic trees can be accessed via the internet at: <http://www.wrlfmd.org/>

Results Approved By:



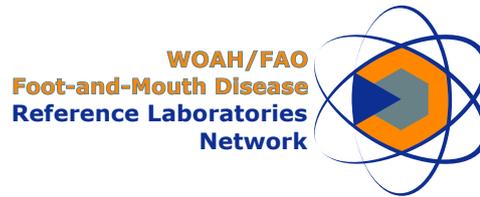
Official Stamp:



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: 07 November 2025

Citation: WRLFMD. 2025. FMDV Genotyping Report [WRLMEG/2025/000036]. (Accessed 07/11/25)

FMDV serotype: SAT1

Country: Turkiye

Year: 2025

Batch: WRLMEG/2025/000036

No. of sequences: 1

Reported date: 07 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: TUR/Igdir/1217/25

Sample details

Reception Date:	2025-11-07
Sender reference:	SAT1/TUR/Igdir/1217/25
Location of origin:	Karasu, Aralik, Igdir
Country of origin:	Turkiye
Date of collection:	2025-09-08
Host species:	cattle

Genotyping details

Serotype:	SAT1
Topotype:	III
Lineage:	None
Sublineage:	None

Sequencing details

Material submitted for sequencing:	NA
Material Harvest Date:	NA
Sequence length:	657
Ambiguities:	0

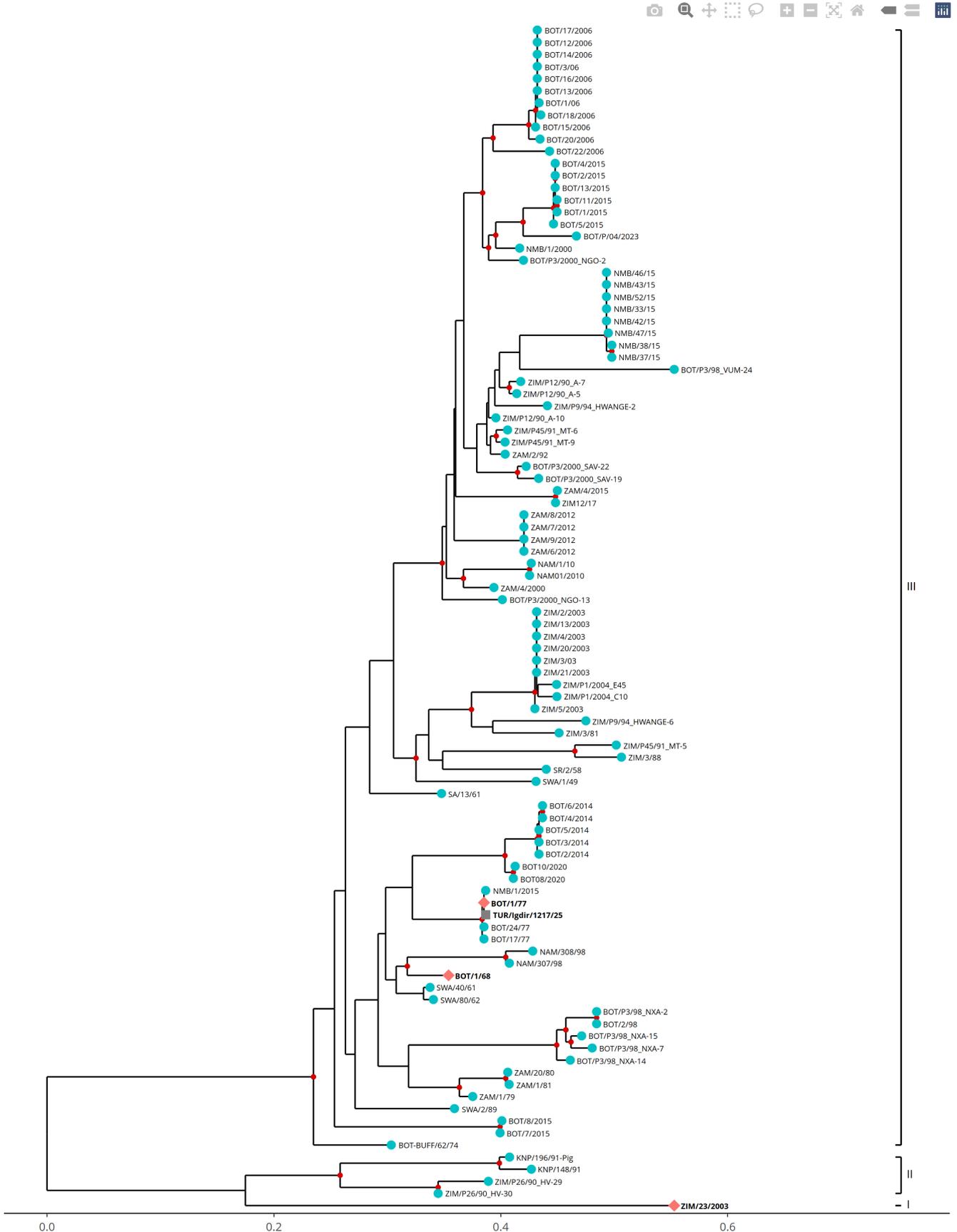
Most Closely Related FMDV Isolates

Sequence ID	Virus Name	Host	% Id	#Ambig.	Serotype	Topotype	Lineage	Sublineage
FMDV VP1 Sequences								
11357	NMB/1/2015	Bovine	99.70	0	SAT1	III	None	None
3453	BOT/17/77	Greater Kudu	99.54	0	SAT1	III	None	None
3478	BOT/24/77	Cattle	99.54	0	SAT1	III	None	None
14377	SWA/80/62		90.72	0	SAT1	III	None	None
14375	SWA/40/61		90.70	0	SAT1	III	None	None
3603	BOT08/2020	Bovine	89.18	0	SAT1	III	None	None
3604	BOT10/2020	Bovine	89.02	0	SAT1	III	None	None
18794	ZAM/1/79		88.89	0	SAT1	III	None	None
18795	ZAM/1/81	Cattle	88.58	1	SAT1	III	None	None
18840	ZAM/20/80	Cattle	88.58	0	SAT1	III	None	None
FMDV VP1 Prototype Sequences*								
3416	BOT/1/77	Cattle	99.85	0	SAT1	III	None	None
3410	BOT/1/68	Cattle	91.01	0	SAT1	III	None	None
19096	ZIM/23/2003	African Buffalo	74.10	0	SAT1	I	None	None

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

Tree

■ Uploaded sequence ● Database sequence ◆ Reference sequence



Analysis Parameters

Query sequence set: WRLMEG/2025/000036
Number of related sequences reported: 94
Number of prototype sequences in tree: 3
Minimal VP1 subsequence match length: 610
Sequence alignment length: 668

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
NAM/1/10 *	KJ999923	Cattle	OVI	Namibia	SAT1/III	None
NAM/307/98 *	AY770519	African Buffalo	OVI	Namibia	SAT1/III	17161881
NAM/308/98 *	KJ999922	African Buffalo	OVI	Namibia	SAT1/III	None
NAM01/2010 *	KU821590	Cattle	CODA-CERVA	Namibia	SAT1	27151795
NMB/1/2000	None	Bovine	WRLFMD	Namibia	SAT1/III	None
NMB/1/2015	None	Bovine	WRLFMD	Namibia	SAT1/III	None
NMB/33/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/37/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/38/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/42/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/43/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/46/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/47/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
NMB/52/15 *	None	Cattle	BVI	Namibia	SAT1/III	None
SA/13/61 *	AY593842	Cattle	PIADC	South Africa	SAT1/III	15858032
KNP/148/91 *	GU194495	African Buffalo	OVI	South Africa (Kruger National Park)	SAT1/II	None
SWA/1/49 *	AY593840		PIADC	South West Africa	SAT1/III	15858032
SWA/2/89	MH053322	African Buffalo	WRLFMD	South West Africa	SAT1/III	29652800
SWA/40/61 *	AY593843		PIADC	South West Africa	SAT1/III	15858032
SWA/80/62	None		WRLFMD	South West Africa	SAT1/III	None
SR/2/58 *	AY593841	Cattle	PIADC	Southern Rhodesia	SAT1/III	15858032
ZAM/1/79	None		WRLFMD	Zambia	SAT1/III	None
ZAM/1/81	None	Cattle	WRLFMD	Zambia	SAT1/III	None
ZAM/20/80	None	Cattle	WRLFMD	Zambia	SAT1/III	None
ZAM/4/2000	None	Bovine	WRLFMD	Zambia	SAT1/III	None
ZAM/6/2012	None	Bovine	WRLFMD	Zambia	SAT1/III	None
ZAM/7/2012	None	Bovine	WRLFMD	Zambia	SAT1/III	None
ZAM/8/2012	None	Bovine	WRLFMD	Zambia	SAT1/III	None
ZAM/9/2012	None	Bovine	WRLFMD	Zambia	SAT1/III	None
ZIM/13/2003	None		WRLFMD	Zimbabwe	SAT1/III	None
ZIM/2/2003	None	Bovine	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/20/2003	None	Cattle	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/21/2003	None	Cattle	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/3/03 *	KJ999926	Cattle	OVI	Zimbabwe	SAT1/III	None
ZIM/3/81	None	Cattle	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/3/88	MT385529	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/4/2003	None		WRLFMD	Zimbabwe	SAT1/III	None
ZIM/5/2003	None		WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P1/2004_C10	None	Cattle	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P1/2004_E45	None	Cattle	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P12/90_A-10	MT385532	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P12/90_A-5	MT385530	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P12/90_A-7	MT385531	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P26/90_HV-29	MT385541	African Buffalo	WRLFMD	Zimbabwe	SAT1/II	None
ZIM/P26/90_HV-30	MT385542	African Buffalo	WRLFMD	Zimbabwe	SAT1/II	None
ZIM/P45/91_MT-5	MT385594	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P45/91_MT-6	MT385595	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P45/91_MT-9	MT385596	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P9/94_HWANGE-2	MT385604	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM/P9/94_HWANGE-6	MT385605	African Buffalo	WRLFMD	Zimbabwe	SAT1/III	None
ZIM12/17 *	None	Bovine	BVI	Zimbabwe	SAT1/III	None
ZAM/4/2015	None	Cattle	WRLFMD	Zambia	SAT1/III	None
ZAM/2/92	None	Bovine	WRLFMD	Zambia	SAT1/III	None
BOT/1/06 *	KJ999919	Cattle	OVI	Botswana	SAT1	None
BOT/1/2015	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/11/2015 *	None	Cattle	BVI	Botswana	SAT1/III	None
BOT/12/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/13/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/13/2015 *	None	Cattle	BVI	Botswana	SAT1/III	None
BOT/14/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/15/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/16/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None

FMDV VP1 Sequences included in the Phylogenetic Tree (continued)

Sequence Name	GenBank Accession	Host	Ref Lab	Country	FMDV Taxonomy	Pubmed Reference Number
BOT/17/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/17/77	KF219687	Greater Kudu	WRLFMD	Botswana	SAT1/III	None
BOT/18/2006	None	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/2/2014	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/2/2015	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/2/98 *	KJ999918	Cattle	OVI	Botswana	SAT1	None
BOT/20/2006	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/22/2006	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/24/77	KF219688	Cattle	WRLFMD	Botswana	SAT1/III	None
BOT/3/06 *	KJ999920	Cattle	OVI	Botswana	SAT1/III	None
BOT/3/2014	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/4/2014	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/4/2015	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/5/2014 *	None	Cattle	BVI	Botswana	SAT1/III	None
BOT/5/2015	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/6/2014 *	None	Cattle	BVI	Botswana	SAT1/III	None
BOT/7/2015	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/8/2015	None	Bovine	WRLFMD	Botswana	SAT1/III	None
BOT/P3/2000_NGO-13	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/2000_NGO-2	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/2000_SAV-19	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/2000_SAV-22	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/98_NXA-14	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/98_NXA-15	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/98_NXA-2	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/98_NXA-7	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT/P3/98_VUM-24	None	African Buffalo	WRLFMD	Botswana	SAT1/III	None
BOT08/2020 *	None	Bovine	BVI	Botswana	SAT1/III	None
BOT10/2020 *	None	Bovine	BVI	Botswana	SAT1/III	None
BOT-BUFF/62/74	MH053319	African Buffalo	WRLFMD	Botswana	SAT1/III	29652800
BOT/P/04/2023 *	None	African Buffalo	BVI	Botswana	SAT1/III	None
KNP/196/91-Pig *	MN442539	African Buffalo	OVI	South Africa	SAT1/II	None

* Not a WRLFMD Reference Number;

^ Not Available