

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

Genotyping Report

FMDV serotype: A
Country: Egypt
Year: 2020, 2021, 2022
Batch: WRLFMD/2022/00090
No. of sequences: 15
Report date: 16th February 2023
Report generated by: Nick Knowles
Report checked by: Jemma Wadsworth

A/EGY/7/2020 and A/EGY/2/2022 were originally reported as FMDV-GD, however, following RT-PCR of the VP1 region, complete VP1 sequences were obtained. In the case of EGY/3/2022 only partial VP1 sequence was obtained showing it belonged to the A/AFRICA/G-IV lineage; these results are not reported here.



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www: <http://www.wrlfmd.org/>

email: reporting@pirbright.ac.uk

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Virus sample name:	EGY/2/2020
Sender reference:	2
Location of origin:	Mansoura, Dakahlia
Country of origin:	Egypt
Date of collection:	28/07/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK2
Harvest date of material:	12/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52488, genome 52489, sequence viba_52490, sequencing info 52491	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52498	EGY/9/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	99.5	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	99.4	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	99.4	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	99.1	0	A	AFRICA	G-IV	
viba_52538	EGY/7/2021	cattle	99.1	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.4	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.2	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.9	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.7	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.4	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	81.0	0	A	AFRICA	G-II	
viba_785	KEN/3/64		80.7	0	A	AFRICA	G-III	
viba_677	IRQ/24/64	bovine	80.7	0	A	ASIA	A22	
viba_435	Allier/FRA/60		80.1	0	A	EURO-SA	A5	
viba_475	IRN/22/99		80.1	0	A	ASIA	Iran-99	

Virus sample name:	EGY/7/2020
Sender reference:	7
Location of origin:	El Mansha, Sohag
Country of origin:	Egypt
Date of collection:	08/09/2020
Host species:	water buffalo
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	10% epi susp
Harvest date of material:	n/a
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52492, genome 52493, sequence viba_52494, sequencing info 52495	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52498	EGY/9/2020	cattle	100.0	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52530	EGY/1/2021	water buffalo	98.9	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	98.9	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.9	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.3	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.1	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.8	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.5	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.2	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.5	0	A	ASIA	A22	
viba_785	KEN/3/64		80.3	0	A	AFRICA	G-III	
viba_475	IRN/22/99		80.0	0	A	ASIA	Iran-99	
viba_435	Allier/FRA/60		79.9	0	A	EURO-SA	A5	

Virus sample name:	EGY/9/2020
Sender reference:	9
Location of origin:	Abu El Matamir, Beheira
Country of origin:	Egypt
Date of collection:	05/10/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	11/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52496, genome 52497, sequence viba_52498, sequencing info 52499	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52494	EGY/7/2020	water buffalo	100.0	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52530	EGY/1/2021	water buffalo	98.9	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	98.9	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.9	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.3	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.1	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.8	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.5	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.2	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.5	0	A	ASIA	A22	
viba_785	KEN/3/64		80.3	0	A	AFRICA	G-III	
viba_475	IRN/22/99		80.0	0	A	ASIA	Iran-99	
viba_435	Allier/FRA/60		79.9	0	A	EURO-SA	A5	

Virus sample name:	EGY/13/2020
Sender reference:	13
Location of origin:	Abu Qirgas, Minya
Country of origin:	Egypt
Date of collection:	08/11/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	11/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52500, genome 52501, sequence viba_52502, sequencing info 52503

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52506	EGY/14/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	98.6	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	98.4	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	98.4	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	98.4	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.3	0	A	AFRICA	G-IV	
viba_52530	EGY/1/2021	water buffalo	97.8	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		83.8	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		82.4	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	81.5	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.1	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	80.9	0	A	AFRICA	G-VI	
viba_677	IRQ/24/64	bovine	80.9	0	A	ASIA	A22	
viba_688	EGY/1/72	bovine	80.9	0	A	AFRICA	G-II	
viba_785	KEN/3/64		80.2	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		80.1	0	A	EURO-SA	A5	
viba_699	UKG/119/32		79.8	0	A	EURO-SA	A12	

Virus sample name:	EGY/14/2020
Sender reference:	14
Location of origin:	Abu Qirgas, Minya
Country of origin:	Egypt
Date of collection:	08/11/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	11/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52504, genome 52505, sequence viba_52506, sequencing info 52507

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52502	EGY/13/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	98.9	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52530	EGY/1/2021	water buffalo	98.1	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.0	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		82.6	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	81.8	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.4	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.3	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	81.2	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	81.0	0	A	ASIA	A22	
viba_785	KEN/3/64		80.5	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		80.2	0	A	EURO-SA	A5	
viba_699	UKG/119/32		80.0	0	A	EURO-SA	A12	

Virus sample name:	EGY/17/2020
Sender reference:	17
Location of origin:	El Marg, Cairo
Country of origin:	Egypt
Date of collection:	19/11/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	12/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52508, genome 52509, sequence viba_52510, sequencing info 52511	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52514	EGY/18/2020	cattle	100.0	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	99.7	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	98.9	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52538	EGY/7/2021	cattle	98.9	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.3	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.2	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.8	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.5	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.2	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.7	0	A	ASIA	A22	
viba_785	KEN/3/64		80.3	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		80.2	0	A	EURO-SA	A5	
viba_475	IRN/22/99		80.0	0	A	ASIA	Iran-99	

Virus sample name:	EGY/18/2020
Sender reference:	18
Location of origin:	El Marg, Cairo
Country of origin:	Egypt
Date of collection:	19/11/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	12/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52512, genome 52513, sequence viba_52514, sequencing info 52515

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52510	EGY/17/2020	cattle	100.0	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	99.7	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	99.7	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	98.9	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52538	EGY/7/2021	cattle	98.9	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.3	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.2	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.8	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.5	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.2	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.7	0	A	ASIA	A22	
viba_785	KEN/3/64		80.3	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		80.2	0	A	EURO-SA	A5	
viba_475	IRN/22/99		80.0	0	A	ASIA	Iran-99	

Virus sample name:	EGY/19/2020
Sender reference:	19
Location of origin:	El Marg, Cairo
Country of origin:	Egypt
Date of collection:	19/11/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	16/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52516, genome 52517, sequence viba_52518, sequencing info 52519

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52522	EGY/20/2020	cattle	100.0	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	99.5	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.4	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	98.7	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52538	EGY/7/2021	cattle	98.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.1	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.4	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.6	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.7	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.4	0	A	AFRICA	G-VI	
viba_677	IRQ/24/64	bovine	80.8	0	A	ASIA	A22	
viba_688	EGY/1/72	bovine	80.7	0	A	AFRICA	G-II	
viba_785	KEN/3/64		80.4	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		80.4	0	A	EURO-SA	A5	
viba_217	Cruzeiro/BRA/55	bovine	80.1	0	A	EURO-SA	A24	

Virus sample name:	EGY/20/2020
Sender reference:	20
Location of origin:	El Marg, Cairo
Country of origin:	Egypt
Date of collection:	19/11/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	12/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52520, genome 52521, sequence viba_52522, sequencing info 52523

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52518	EGY/19/2020	cattle	100.0	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	99.8	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	99.5	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	99.5	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.4	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52534	EGY/5/2021	cattle	98.7	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52538	EGY/7/2021	cattle	98.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.1	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		83.4	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.6	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.7	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.4	0	A	AFRICA	G-VI	
viba_677	IRQ/24/64	bovine	80.8	0	A	ASIA	A22	
viba_688	EGY/1/72	bovine	80.7	0	A	AFRICA	G-II	
viba_785	KEN/3/64		80.4	0	A	AFRICA	G-III	
viba_435	Allier/FRA/60		80.4	0	A	EURO-SA	A5	
viba_217	Cruzeiro/BRA/55	bovine	80.1	0	A	EURO-SA	A24	

Virus sample name:	EGY/21/2020
Sender reference:	21
Location of origin:	El Ethad, Dakahlia
Country of origin:	Egypt
Date of collection:	30/12/2020
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	12/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52524, genome 52525, sequence viba_52526, sequencing info 52527	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52530	EGY/1/2021	water buffalo	99.2	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	99.1	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52502	EGY/13/2020	cattle	98.3	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		83.9	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	82.4	0	A	AFRICA	G-V	
viba_347	KEN/42/66		82.4	0	A	AFRICA	G-I	
viba_173	UGA/13/66	bovine	80.9	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	80.6	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.5	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.3	0	A	ASIA	A22	
viba_785	KEN/3/64		79.9	0	A	AFRICA	G-III	
viba_475	IRN/22/99		79.7	0	A	ASIA	Iran-99	
viba_435	Allier/FRA/60		79.3	0	A	EURO-SA	A5	

Virus sample name:	EGY/1/2021
Sender reference:	22
Location of origin:	El Senbellawein, Dakahlia
Country of origin:	Egypt
Date of collection:	18/01/2021
Host species:	water buffalo
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	12/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52528, genome 52529, sequence viba_52530, sequencing info 52531

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52526	EGY/21/2020	cattle	99.2	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	98.9	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	98.6	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	98.4	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	98.4	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	98.4	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.1	0	A	AFRICA	G-IV	
viba_52502	EGY/13/2020	cattle	97.8	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.1	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		82.3	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.1	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	80.6	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	80.4	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.2	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	79.9	0	A	ASIA	A22	
viba_785	KEN/3/64		79.6	0	A	AFRICA	G-III	
viba_475	IRN/22/99		79.4	0	A	ASIA	Iran-99	
viba_435	Allier/FRA/60		79.0	0	A	EURO-SA	A5	

Virus sample name:	EGY/5/2021
Sender reference:	26
Location of origin:	Sakha, Kafr El Sheikh
Country of origin:	Egypt
Date of collection:	25/04/2021
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	13/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52532, genome 52533, sequence viba_52534, sequencing info 52535	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52538	EGY/7/2021	cattle	100.0	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	98.9	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.3	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.1	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.0	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		82.9	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.6	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.2	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.0	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.6	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.1	0	A	ASIA	A22	
viba_785	KEN/3/64		80.0	0	A	AFRICA	G-III	
viba_475	IRN/22/99		79.9	0	A	ASIA	Iran-99	
viba_699	UKG/119/32		79.4	0	A	EURO-SA	A12	

Virus sample name:	EGY/7/2021
Sender reference:	28
Location of origin:	Sakha, Kafr El Sheikh
Country of origin:	Egypt
Date of collection:	26/04/2021
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	13/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52536, genome 52537, sequence viba_52538, sequencing info 52539	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_52534	EGY/5/2021	cattle	100.0	0	A	AFRICA	G-IV	
viba_52490	EGY/2/2020	cattle	99.1	0	A	AFRICA	G-IV	
viba_52498	EGY/9/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52514	EGY/18/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52494	EGY/7/2020	water buffalo	98.9	0	A	AFRICA	G-IV	
viba_52510	EGY/17/2020	cattle	98.9	0	A	AFRICA	G-IV	
viba_52518	EGY/19/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52522	EGY/20/2020	cattle	98.7	0	A	AFRICA	G-IV	
viba_52526	EGY/21/2020	cattle	98.3	0	A	AFRICA	G-IV	
viba_52506	EGY/14/2020	cattle	98.1	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.0	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		82.9	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	82.6	0	A	AFRICA	G-V	
viba_173	UGA/13/66	bovine	81.2	0	A	AFRICA	G-VII	
viba_609	GHA/16/73	bovine	81.0	0	A	AFRICA	G-VI	
viba_688	EGY/1/72	bovine	80.6	0	A	AFRICA	G-II	
viba_677	IRQ/24/64	bovine	80.1	0	A	ASIA	A22	
viba_785	KEN/3/64		80.0	0	A	AFRICA	G-III	
viba_475	IRN/22/99		79.9	0	A	ASIA	Iran-99	
viba_699	UKG/119/32		79.4	0	A	EURO-SA	A12	

Virus sample name:	EGY/1/2022
Sender reference:	33
Location of origin:	Monufia, Monufia
Country of origin:	Egypt
Date of collection:	21/04/2022
Host species:	cattle
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	16/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023

VIBASys IDs: sample 52540, genome 52541, sequence viba_52542, sequencing info 52543

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_51759	SUD/2/2022	cattle	99.8	0	A	AFRICA	G-IV	
viba_51763	SUD/3/2022	cattle	99.4	0	A	AFRICA	G-IV	
viba_51755	SUD/1/2022	cattle	99.4	0	A	AFRICA	G-IV	
viba_51767	SUD/4/2022	cattle	99.1	0	A	AFRICA	G-IV	
viba_51771	SUD/5/2022	cattle	99.1	0	A	AFRICA	G-IV	
viba_29558	EGY/8/2015	cattle	95.7	0	A	AFRICA	G-IV	
viba_30354	Ismailia 3/Egy/2016	cattle	95.7	0	A	AFRICA	G-IV	
viba_30350	Ismailia 2/Egy/2016	cattle	95.7	0	A	AFRICA	G-IV	
viba_30346	Ismailia 1/Egy/2016	cattle	95.7	0	A	AFRICA	G-IV	
viba_29562	EGY/3/2016	cattle	95.7	0	A	AFRICA	G-IV	

Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_178	SUD/3/77		84.5	0	A	AFRICA	G-IV	
viba_347	KEN/42/66		84.1	0	A	AFRICA	G-I	
viba_535	NGR/2/73	bovine	83.5	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	82.6	0	A	AFRICA	G-VI	
viba_785	KEN/3/64		81.6	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	81.5	0	A	AFRICA	G-II	
viba_173	UGA/13/66	bovine	80.9	0	A	AFRICA	G-VII	
viba_682	IRN/2/87	bovine	80.1	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		80.1	0	A	EURO-SA	A12	
viba_475	IRN/22/99		80.0	0	A	ASIA	Iran-99	

Virus sample name:	EGY/2/2022
Sender reference:	32
Location of origin:	Giza, Giza
Country of origin:	Egypt
Date of collection:	09/06/2022
Host species:	cattle
Serotype:	A
Topotype:	EURO-SA
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	WRL-LFBK1
Harvest date of material:	17/01/2023
Primers:	A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	13/02/2023
Created:	15/02/2023
Last updated:	15/02/2023
VIBASys IDs: sample 52544, genome 52545, sequence viba_52546, sequencing info 52547	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_51675	EGY/AHRI/RL385/2022	cattle	99.8	0	A	EURO-SA		
viba_36676	Barinas/Ven/07	bovine	89.4	0	A	EURO-SA		
viba_36700	Barinas/Ven/11a	bovine	89.4	0	A	EURO-SA		
viba_36692	Merida/Ven/08	bovine	89.0	2	A	EURO-SA		
viba_44700	Barinas/Ven/04(a)		88.8	0	A	EURO-SA		
viba_44680	Barinas/Ven/03		88.8	0	A	EURO-SA		
viba_44748	Apure/Ven/06		88.8	0	A	EURO-SA		
viba_44736	Merida/Ven/05(a)		88.8	1	A	EURO-SA		
viba_36660	Apure/Ven/06/b	bovine	88.6	0	A	EURO-SA		
viba_36656	Barinas/Ven/06a	bovine	88.6	0	A	EURO-SA		

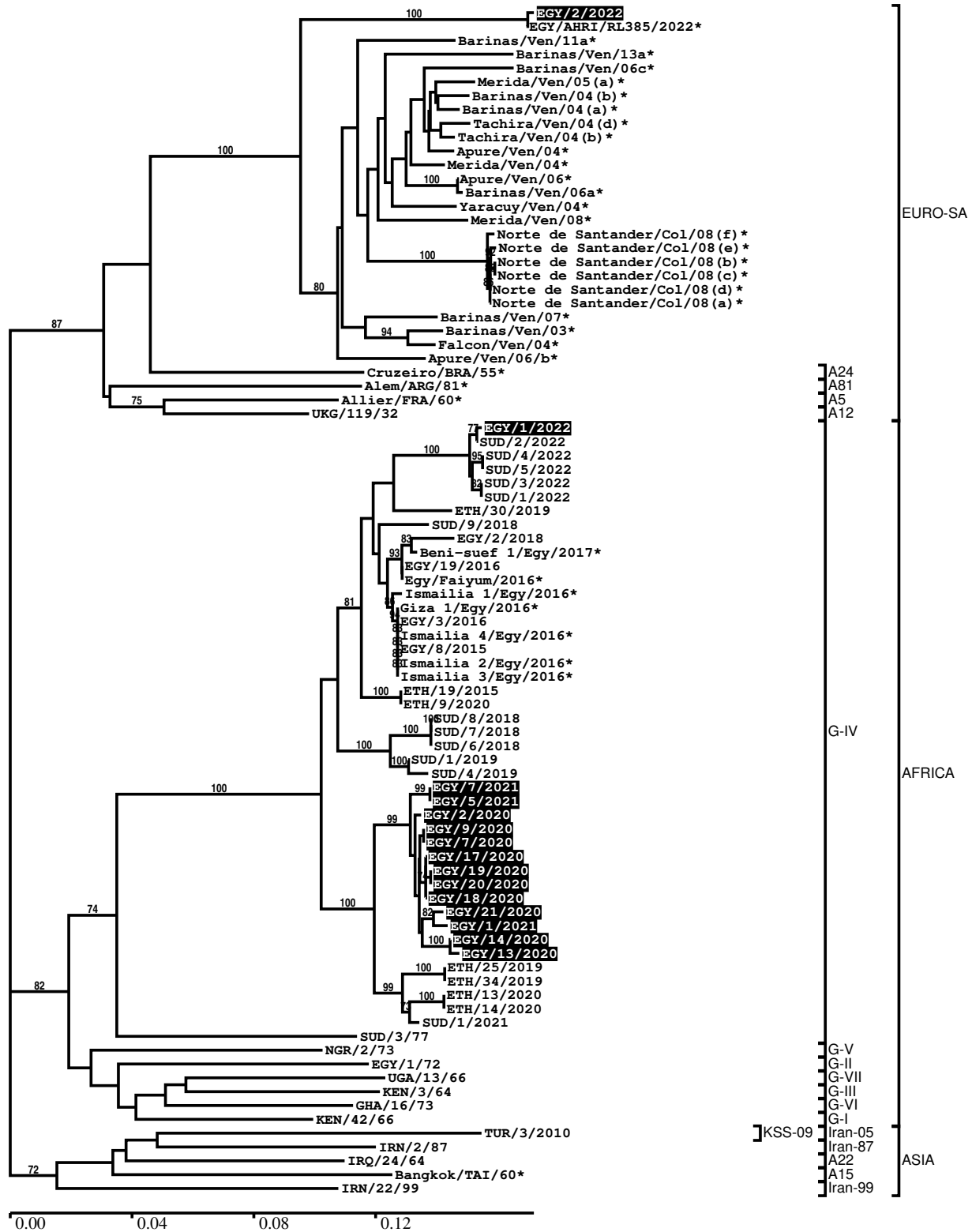
Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_217	Cruzeiro/BRA/55	bovine	83.8	0	A	EURO-SA	A24	
viba_699	UKG/119/32		80.7	0	A	EURO-SA	A12	
viba_589	Bangkok/TAI/60		79.5	0	A	ASIA	A15	
viba_98	Alem/ARG/81		79.3	0	A	EURO-SA	A81	
viba_785	KEN/3/64		78.9	0	A	AFRICA	G-III	
viba_173	UGA/13/66	bovine	78.9	0	A	AFRICA	G-VII	
viba_486	TUR/3/2010	cattle	78.8	0	A	ASIA	Iran-05	KSS-09
viba_609	GHA/16/73	bovine	78.7	0	A	AFRICA	G-VI	
viba_535	NGR/2/73	bovine	78.7	0	A	AFRICA	G-V	
viba_688	EGY/1/72	bovine	78.4	0	A	AFRICA	G-II	

Report on FMDV A in Egypt in 2020, 2021, 2022

Batch: WRLFMD/2022/00090



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor:	vp1_A
Query sequence set:	WRLFMD/2022/00090-Egypt-A (15 sequences)
Sequence database set:	allseqs_A (2377 sequences)
Prototype sequence set:	!prototypes_A (40 sequences)
Number of related sequences reported:	10
Minimal VP1 subsequence match length	600
Sequence alignment method:	muscle (default parameters)
Sequence alignment length:	633
Phylogeny reconstruction method:	fdnadist, fneighbor
Number of bootstrap samples:	1000
Random seed for bootstrapping:	1
Displaying bootstrap values above:	70.0%
Number of sequences in tree capped at:	100
Number of prototype sequences in tree:	16
VIBASys version:	reflabs-1.1.2

Sequences in the Phylogenetic Tree

All sequences in the tree are in taxonomic group FMDV/A

label	accession	host(s)	lab	country	taxonomic information
EGY/2/2022	n/a	cattle	WRLFMD	Egypt	EURO-SA
EGY/AHRI/RL385/2022*	OP093730	cattle	AHRI	Egypt	EURO-SA
Barinas/Ven/11a*	KX150534	bovine	UCLA-Ven	Venezuela	EURO-SA
Barinas/Ven/13a*	KU234721	bovine	UCLA-Ven	Venezuela	EURO-SA
Barinas/Ven/06c*	KX150525	bovine	UCLA-Ven	Venezuela	EURO-SA
Merida/Ven/05(a)*	JQ082950	n/a	PAFMDC	Venezuela	EURO-SA
Barinas/Ven/04(b)*	JQ082946	n/a	PAFMDC	Venezuela	EURO-SA
Barinas/Ven/04(a)*	JQ082941	n/a	PAFMDC	Venezuela	EURO-SA
Tachira/Ven/04(d)*	JQ082947	n/a	PAFMDC	Venezuela	EURO-SA
Tachira/Ven/04(b)*	JQ082940	n/a	PAFMDC	Venezuela	EURO-SA
Apure/Ven/04*	JQ082948	n/a	PAFMDC	Venezuela	EURO-SA
Merida/Ven/04*	JQ082943	n/a	PAFMDC	Venezuela	EURO-SA
Apure/Ven/06*	JQ082953	n/a	PAFMDC	Venezuela	EURO-SA
Barinas/Ven/06a*	KX150523	bovine	UCLA-Ven	Venezuela	EURO-SA
Yaracuy/Ven/04*	JQ082944	n/a	PAFMDC	Venezuela	EURO-SA
Merida/Ven/08*	KX150532	bovine	UCLA-Ven	Venezuela	EURO-SA
Norte de Santander/Col/08(f)*	JQ082928	n/a	PAFMDC	Colombia	EURO-SA
Norte de Santander/Col/08(e)*	JQ082927	n/a	PAFMDC	Colombia	EURO-SA
Norte de Santander/Col/08(b)*	JQ082924	n/a	PAFMDC	Colombia	EURO-SA
Norte de Santander/Col/08(c)*	JQ082925	n/a	PAFMDC	Colombia	EURO-SA
Norte de Santander/Col/08(d)*	JQ082926	n/a	PAFMDC	Colombia	EURO-SA
Norte de Santander/Col/08(a)*	JQ082923	n/a	PAFMDC	Colombia	EURO-SA
Barinas/Ven/07*	KX150528	bovine	UCLA-Ven	Venezuela	EURO-SA
Barinas/Ven/03*	JQ082936	n/a	PAFMDC	Venezuela	EURO-SA
Falcon/Ven/04*	JQ082945	n/a	PAFMDC	Venezuela	EURO-SA
Apure/Ven/06/b*	KX150522	bovine	UCLA-Ven	Venezuela	EURO-SA
Cruzeiro/BRA/55*	AY593768	bovine	PIADC	Brazil	EURO-SA/A24
Alem/ARG/81*	AJ306219	n/a	INTA-	Argentina	EURO-SA/A81
Allier/FRA/60*	AY593780	n/a	Argentina PIADC	France	EURO-SA/A5
UKG/119/32	M10975	n/a	PIADC	United Kingdom	EURO-SA/A12
EGY/1/2022	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
SUD/2/2022	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/4/2022	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/5/2022	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV

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label	accession	host(s)	lab	country	taxonomic information
SUD/3/2022	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/2022	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
ETH/30/2019	n/a	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
SUD/9/2018	MK422594	cattle	WRLFMD	Sudan	AFRICA/G-IV
EGY/2/2018	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
Beni-suef 1/Egy/2017*	MF322693	n/a	MEVAC	Egypt	AFRICA/G-IV
EGY/19/2016	MK572799	cattle	WRLFMD	Egypt	AFRICA/G-IV
Egy/Faiyum/2016*	MG552843	cattle	AHRI	Egypt	AFRICA/G-IV
Ismailia 1/Egy/2016*	KX446996	cattle	Suez Canal Univ	Egypt	AFRICA/G-IV
Giza 1/Egy/2016*	KX447000	cattle	Suez Canal Univ	Egypt	AFRICA/G-IV
EGY/3/2016	MK422574	cattle	WRLFMD	Egypt	AFRICA/G-IV
Ismailia 4/Egy/2016*	KX446999	cattle	Suez Canal Univ	Egypt	AFRICA/G-IV
EGY/8/2015	MK422573	cattle	WRLFMD	Egypt	AFRICA/G-IV
Ismailia 2/Egy/2016*	KX446997	cattle	Suez Canal Univ	Egypt	AFRICA/G-IV
Ismailia 3/Egy/2016*	KX446998	cattle	Suez Canal Univ	Egypt	AFRICA/G-IV
ETH/19/2015	MN987497	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
ETH/9/2020	n/a	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
SUD/8/2018	MK422593	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/7/2018	MK422592	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/6/2018	MK422591	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/2019	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/4/2019	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
EGY/7/2021	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/5/2021	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/2/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/9/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/7/2020	n/a	water buffalo	WRLFMD	Egypt	AFRICA/G-IV
EGY/17/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/19/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/20/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/18/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/21/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/1/2021	n/a	water buffalo	WRLFMD	Egypt	AFRICA/G-IV
EGY/14/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
EGY/13/2020	n/a	cattle	WRLFMD	Egypt	AFRICA/G-IV
ETH/25/2019	n/a	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
ETH/34/2019	n/a	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
ETH/13/2020	n/a	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
ETH/14/2020	n/a	bovine	WRLFMD	Ethiopia	AFRICA/G-IV
SUD/1/2021	n/a	cattle	WRLFMD	Sudan	AFRICA/G-IV
SUD/3/77	GU566064	n/a	WRLFMD	Sudan	AFRICA/G-IV
NGR/2/73	KF561704	bovine	WRLFMD	Niger	AFRICA/G-V
EGY/1/72	EF208756	bovine	WRLFMD	Egypt	AFRICA/G-II
UGA/13/66	KF561705	bovine	WRLFMD	Uganda	AFRICA/G-VII
KEN/3/64	AY593761	n/a	PIADC	Kenya	AFRICA/G-III
GHA/16/73	KF561698	bovine	WRLFMD	Ghana	AFRICA/G-VI
KEN/42/66	KF561699	n/a	WRLFMD	Kenya	AFRICA/G-I
TUR/3/2010	KY091294	cattle	WRLFMD	Turkey	ASIA/Iran-05/KSS-09
IRN/2/87	EF208770	bovine	WRLFMD	Iran	ASIA/Iran-87
IRQ/24/64	AY593763	bovine	PIADC	Iraq	ASIA/A22
Bangkok/TAI/60*	AY593755	n/a	PIADC	Thailand	ASIA/A15
IRN/22/99	EF208772	n/a	WRLFMD	Iran	ASIA/Iran-99

*, not a WRLFMD Reference Number
n/a, not available