

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

Genotyping Report

FMDV serotype: A
Country: Niger
Year: 2019, 2020
Batch: WRLMEG/2021/00005
No. of sequences: 18
Report date: 30th March 2021
Report generated by: Nick Knowles
Report checked by: Jemma Wadsworth

This report has been prepared on behalf of the European Union Reference Laboratory (EURL), FAO Reference Centre & OIE Reference Laboratory for Foot-and-Mouth Disease chez Agence nationale de sécurité sanitaire – ANSES, Maisons-Alfort, Île-de-France, France and covers VP1 sequences submitted to the WRLFMD on 30/03/2021.



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

email: reporting@pirbright.ac.uk

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Virus sample name:	NGR/20Z007092/19
Sender reference:	20Z007092
Location of origin:	Winde Bago, Dosso Region
Country of origin:	Niger
Date of collection:	30/10/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47709, genome 47710, sequence viba_47711, sequencing info 47712	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007094/19
Sender reference:	20Z007094
Location of origin:	Winde Bago, Dosso Region
Country of origin:	Niger
Date of collection:	30/10/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47713, genome 47714, sequence viba_47715, sequencing info 47716	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007101/19
Sender reference:	20Z007101
Location of origin:	Winde Bago, Dosso Region
Country of origin:	Niger
Date of collection:	30/10/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47717, genome 47718, sequence viba_47719, sequencing info 47720	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007102/19
Sender reference:	20Z007102
Location of origin:	Winde Bago, Dosso Region
Country of origin:	Niger
Date of collection:	30/10/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47721, genome 47722, sequence viba_47723, sequencing info 47724	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007114/19
Sender reference:	20Z007114
Location of origin:	Sorey, Niamey Region
Country of origin:	Niger
Date of collection:	21/11/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47725, genome 47726, sequence viba_47727, sequencing info 47728	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007121/20
Sender reference:	20Z007121
Location of origin:	Bobiel, Niamey Region
Country of origin:	Niger
Date of collection:	12/01/2020
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47729, genome 47730, sequence viba_47731, sequencing info 47732	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007130/19
Sender reference:	20Z007130
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47733, genome 47734, sequence viba_47735, sequencing info 47736	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007131/19
Sender reference:	20Z007131
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47737, genome 47738, sequence viba_47739, sequencing info 47740	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007132/19
Sender reference:	20Z007132
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47741, genome 47742, sequence viba_47743, sequencing info 47744	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007133/19
Sender reference:	20Z007133
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47745, genome 47746, sequence viba_47747, sequencing info 47748	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007134/19
Sender reference:	20Z007134
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47749, genome 47750, sequence viba_47751, sequencing info 47752	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007135/19
Sender reference:	20Z007135
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47753, genome 47754, sequence viba_47755, sequencing info 47756	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007136/19
Sender reference:	20Z007136
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	24/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47757, genome 47758, sequence viba_47759, sequencing info 47760	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007147/19
Sender reference:	20Z007147
Location of origin:	Bago, Dosso Region
Country of origin:	Niger
Date of collection:	30/10/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47761, genome 47762, sequence viba_47763, sequencing info 47764	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007148/19
Sender reference:	20Z007148
Location of origin:	Sorey, Niamey Region
Country of origin:	Niger
Date of collection:	21/11/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47765, genome 47766, sequence viba_47767, sequencing info 47768	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007150/19
Sender reference:	20Z007150
Location of origin:	Kourterey, Niamey Region
Country of origin:	Niger
Date of collection:	25/12/2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47769, genome 47770, sequence viba_47771, sequencing info 47772	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	99.4	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	99.4	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		80.9	0	A	AFRICA	G-III	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_688	EGY/1/72	bovine	80.5	0	A	AFRICA	G-II	
viba_589	Bangkok/TAI/60		80.3	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.4	1	A	ASIA	Iran-96	
viba_98	Alem/ARG/81		78.2	0	A	EURO-SA	A81	

Virus sample name:	NGR/20Z007201/19
Sender reference:	20Z007201
Location of origin:	n/a
Country of origin:	Niger
Date of collection:	2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47773, genome 47774, sequence viba_47775, sequencing info 47776	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47779	NGR/20Z007203/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Virus sample name:	NGR/20Z007203/19
Sender reference:	20Z007203
Location of origin:	n/a
Country of origin:	Niger
Date of collection:	2019
Host species:	bovine
Serotype:	A
Topotype:	AFRICA
Lineage:	G-IV
Sublineage:	
Sequence length:	630
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	31/03/2021
Last updated:	31/03/2021
VIBASys IDs: sample 47777, genome 47778, sequence viba_47779, sequencing info 47780	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_47723	NGR/20Z007102/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47715	NGR/20Z007094/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47775	NGR/20Z007201/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47719	NGR/20Z007101/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47743	NGR/20Z007132/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47747	NGR/20Z007133/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47727	NGR/20Z007114/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47735	NGR/20Z007130/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47767	NGR/20Z007148/19	bovine	100.0	0	A	AFRICA	G-IV	
viba_47763	NGR/20Z007147/19	bovine	100.0	0	A	AFRICA	G-IV	

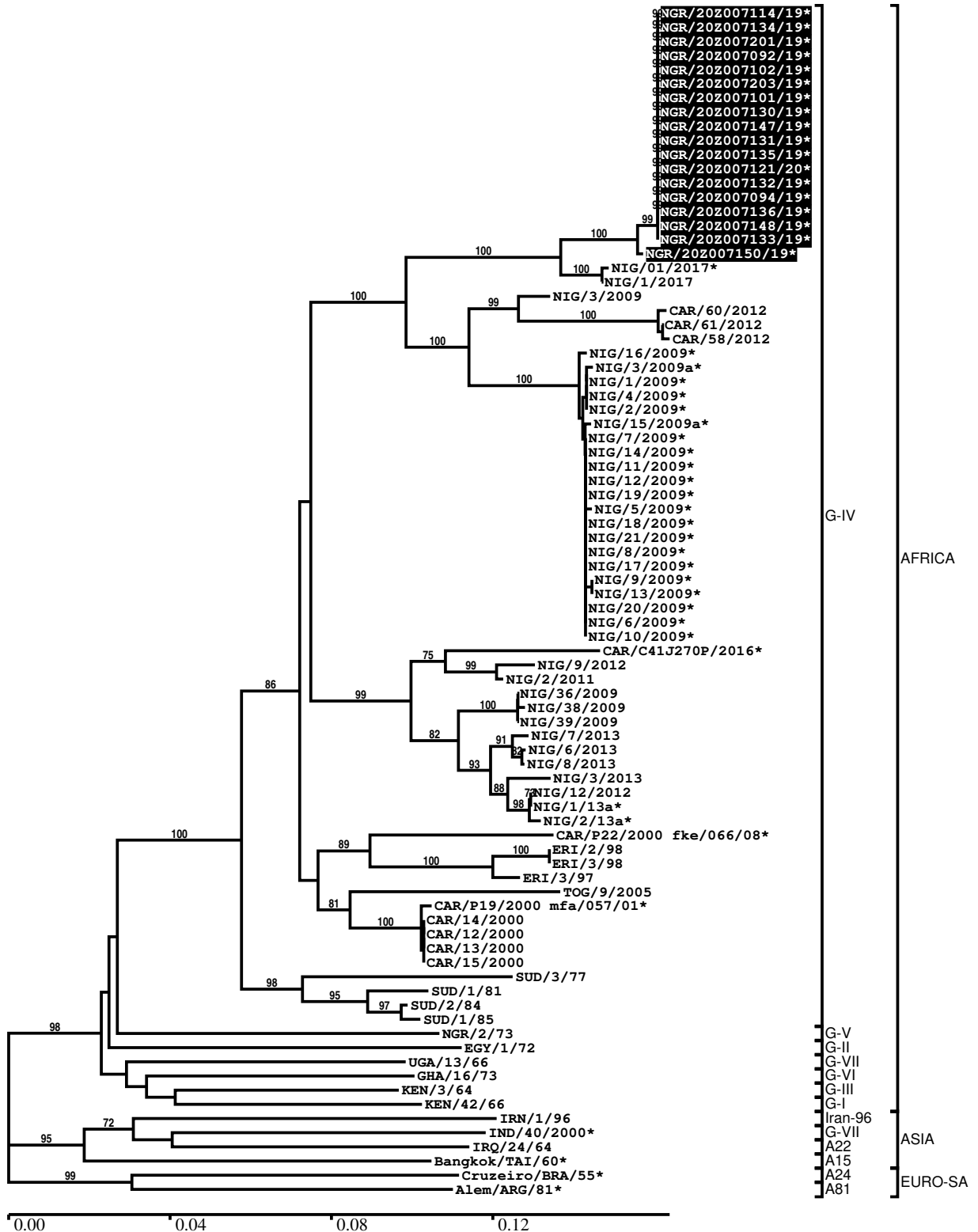
Most Closely Related Prototype Sequences

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		85.4	0	A	AFRICA	G-IV	
viba_535	NGR/2/73	bovine	83.6	0	A	AFRICA	G-V	
viba_609	GHA/16/73	bovine	83.2	0	A	AFRICA	G-VI	
viba_173	UGA/13/66	bovine	81.3	0	A	AFRICA	G-VII	
viba_785	KEN/3/64		81.2	0	A	AFRICA	G-III	
viba_688	EGY/1/72	bovine	80.8	0	A	AFRICA	G-II	
viba_347	KEN/42/66		80.8	0	A	AFRICA	G-I	
viba_589	Bangkok/TAI/60		80.8	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	79.5	1	A	ASIA	Iran-96	
viba_864	IND/40/2000	cattle	78.7	0	A	ASIA	G-VII	

Report on FMDV A in Niger in 2019, 2020

Batch: WRLMEG/2021/00005



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor: vp1_A
 Query sequence set: WRLMEG/2021/00005-Niger-A (18 sequences)
 Sequence database set: allseqs_A (2251 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: 11
 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
NGR/20Z007114/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007134/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007201/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007092/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007102/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007203/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007101/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007130/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007147/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007131/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007135/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007121/20*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007132/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007094/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007136/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007148/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007133/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NGR/20Z007150/19*	n/a	bovine	ANSES	Niger	AFRICA/G-IV
NIG/01/2017*	MT211641	cattle	Sciensano	Nigeria	AFRICA/G-IV
NIG/1/2017	n/a	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/3/2009	KX258049	cattle	WRLFMD	Nigeria	AFRICA/G-IV
CAR/60/2012	KX266278	bovine	WRLFMD	Cameroon	AFRICA/G-IV
CAR/61/2012	KX266279	bovine	WRLFMD	Cameroon	AFRICA/G-IV
CAR/58/2012	KX266277	bovine	WRLFMD	Cameroon	AFRICA/G-IV
NIG/16/2009*	JN680724	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/3/2009a*	JN680711	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/1/2009*	JN680709	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/4/2009*	JN680712	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/2/2009*	JN680710	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/15/2009a*	JN680723	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/7/2009*	JN680715	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/14/2009*	JN680722	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/11/2009*	JN680719	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/12/2009*	JN680720	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/19/2009*	JN680727	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/5/2009*	JN680713	cattle	PIADC	Nigeria	AFRICA/G-IV

continued on next page

label	accession	host(s)	lab	country	taxonomic information
NIG/18/2009*	JN680726	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/21/2009*	JN680729	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/8/2009*	JN680716	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/17/2009*	JN680725	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/9/2009*	JN680717	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/13/2009*	JN680721	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/20/2009*	JN680728	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/6/2009*	JN680714	cattle	PIADC	Nigeria	AFRICA/G-IV
NIG/10/2009*	JN680718	cattle	PIADC	Nigeria	AFRICA/G-IV
CAR/C41J270P/2016*	MG873204	cattle	PIADC	Cameroon	AFRICA/G-IV
NIG/9/2012	KX258055	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/2/2011	KX258053	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/36/2009	KX258050	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/38/2009	KX258051	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/39/2009	KX258052	cattle	WRLFMD	Nigeria	AFRICA/G-IV
NIG/7/2013	KX258060	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/6/2013	KX258059	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/8/2013	KX258061	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/3/2013	KX258058	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/12/2012	KX258057	bovine	WRLFMD	Nigeria	AFRICA/G-IV
NIG/1/13a*	KY584070	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
NIG/2/13a*	KY584071	bovine	CODA-CERVA	Nigeria	AFRICA/G-IV
CAR/P22/2000 fke/066/08*	n/a	n/a	WRLFMD	Cameroon	AFRICA/G-IV
ERI/2/98	KX258044	n/a	WRLFMD	Eritrea	AFRICA/G-IV
ERI/3/98	KX258045	n/a	WRLFMD	Eritrea	AFRICA/G-IV
ERI/3/97	KX258043	n/a	WRLFMD	Eritrea	AFRICA/G-IV
TOG/9/2005	KX258062	cattle	WRLFMD	Togo	AFRICA/G-IV
CAR/P19/2000 mfa/057/01*	n/a	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/14/2000	KX258132	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/12/2000	KX258130	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/13/2000	KX258131	n/a	WRLFMD	Cameroon	AFRICA/G-IV
CAR/15/2000	EF208755	n/a	WRLFMD	Cameroon	AFRICA/G-IV
SUD/3/77	GU566064	n/a	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/81	GU566065	n/a	WRLFMD	Sudan	AFRICA/G-IV
SUD/2/84	GU566067	n/a	WRLFMD	Sudan	AFRICA/G-IV
SUD/1/85	GU566068	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
GHA/16/73	KF561698	bovine	WRLFMD	Ghana	AFRICA/G-VI
KEN/3/64	AY593761	n/a	PIADC	Kenya	AFRICA/G-III
KEN/42/66	KF561699	n/a	WRLFMD	Kenya	AFRICA/G-I
IRN/1/96	EF208771	bovine	WRLFMD	Iran	ASIA/Iran-96
IND/40/2000*	AF390646	cattle	PD-FMD	India	ASIA/G-VII
IRQ/24/64	AY593763	bovine	PIADC	Iraq	ASIA/A22
Bangkok/TAI/60*	AY593755	n/a	PIADC	Thailand	ASIA/A15
Cruzeiro/BRA/55*	AY593768	bovine	PIADC	Brazil	EURO-SA/A24
Alem/ARG/81*	AJ306219	n/a	INTA-Argentina	Argentina	EURO-SA/A81

*, not a WRLFMD Reference Number

n/a, not available