

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

Genotyping Report

FMDV serotype: O
Country: Egypt
Year: 2017
Batch: WRLFMD/2017/00014
No. of sequences: 21
Report date: 11th August 2017
Report generated by: Nick Knowles
Report checked by: Kasia Bankowska



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

email: reporting@pirbright.ac.uk

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Virus sample name:	EGY/4/2017
Sender reference:	6 (RV/30)
Location of origin:	Nabaroh, Nabaroh, Dakahlia
Country of origin:	Egypt
Date of collection:	30/01/2017
Host species:	water buffalo
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	06/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34157, genome 34158, sequence viba_34159, sequencing info 34160	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34195	EGY/17/2017	cattle	99.8	0	O	EA-3		
viba_34219	EGY/27/2017	cattle	99.5	0	O	EA-3		
viba_34207	EGY/22/2017	water buffalo	99.5	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.5	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.5	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.5	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.5	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.5	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.4	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.4	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	87.8	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.4	0	O	EA-3		
viba_408	ETH/3/2004	cattle	84.0	0	O	EA-3		
viba_221	MAL/1/98		83.9	0	O	EA-2		
viba_617	IND/53/79	bovine	83.9	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.8	0	O	ME-SA	PanAsia	
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.6	0	O	EA-2		
viba_523	K83/79		83.1	0	O	EA-1		

Virus sample name:	EGY/6/2017
Sender reference:	8 (RL/178)
Location of origin:	Elraed, Ganain, Suez
Country of origin:	Egypt
Date of collection:	04/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34161, genome 34162, sequence viba_34163, sequencing info 34164	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	85.0	0	O	EA-3		
viba_617	IND/53/79	bovine	84.4	0	O	ME-SA		
viba_408	ETH/3/2004	cattle	84.3	0	O	EA-3		
viba_285	UKG/35/2001	porcine	83.9	0	O	ME-SA	PanAsia	
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_359	Manisa/TUR/69		83.5	0	O	ME-SA		
viba_302	CIV/8/99	bovine	83.5	0	O	WA		

Virus sample name:	EGY/7/2017
Sender reference:	10 (RL/183)
Location of origin:	Tolombat, Baniebed, Dakahlia
Country of origin:	Egypt
Date of collection:	05/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	13/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34165, genome 34166, sequence viba_34167, sequencing info 34168	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	100.0	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	100.0	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	100.0	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	100.0	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	100.0	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.8	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.8	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.8	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.8	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Virus sample name:	EGY/8/2017
Sender reference:	9 (RL/181)
Location of origin:	Sandahor, Banha, Qualubia
Country of origin:	Egypt
Date of collection:	06/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	13/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34169, genome 34170, sequence viba_34171, sequencing info 34172	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	100.0	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	100.0	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	100.0	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	100.0	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	100.0	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.8	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.8	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.8	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.8	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Virus sample name:	EGY/9/2017
Sender reference:	12 (RL/201)
Location of origin:	Awesh, Mansora, Dakahlia
Country of origin:	Egypt
Date of collection:	12/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	13/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34173, genome 34174, sequence viba_34175, sequencing info 34176	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	100.0	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	100.0	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	100.0	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	100.0	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	100.0	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.8	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.8	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.8	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.8	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Virus sample name:	EGY/10/2017
Sender reference:	13 (RL/203)
Location of origin:	Sela, Fayoum, Fayoum
Country of origin:	Egypt
Date of collection:	13/02/2017
Host species:	water buffalo
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	07/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34177, genome 34178, sequence viba_34179, sequencing info 34180	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.7	0	O	EA-3		
viba_617	IND/53/79	bovine	84.1	0	O	ME-SA		
viba_408	ETH/3/2004	cattle	84.0	0	O	EA-3		
viba_285	UKG/35/2001	porcine	83.9	0	O	ME-SA	PanAsia	
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.6	0	O	EA-2		
viba_359	Manisa/TUR/69		83.5	0	O	ME-SA		
viba_523	K83/79		83.3	0	O	EA-1		

Virus sample name:	EGY/11/2017
Sender reference:	14 (RL/207)
Location of origin:	Berkaelsab, Monofia
Country of origin:	Egypt
Date of collection:	14/02/2017
Host species:	water buffalo
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	14/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34181, genome 34182, sequence viba_34183, sequencing info 34184	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	100.0	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	100.0	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	100.0	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	100.0	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	100.0	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.8	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.8	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.8	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.8	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Virus sample name:	EGY/13/2017
Sender reference:	16 (RL/224)
Location of origin:	Grees, Ashmon, Monofia
Country of origin:	Egypt
Date of collection:	15/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34185, genome 34186, sequence viba_34187, sequencing info 34188	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	85.0	0	O	EA-3		
viba_408	ETH/3/2004	cattle	84.3	0	O	EA-3		
viba_617	IND/53/79	bovine	84.1	0	O	ME-SA		
viba_221	MAL/1/98		83.9	0	O	EA-2		
viba_85	UGA/3/2002		83.9	0	O	EA-2		
viba_285	UKG/35/2001	porcine	83.9	0	O	ME-SA	PanAsia	
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.5	0	O	ME-SA		
viba_302	CIV/8/99	bovine	83.5	0	O	WA		

Virus sample name:	EGY/16/2017
Sender reference:	19 (RL/243)
Location of origin:	Entag Farm, Nobarria, Alexandria
Country of origin:	Egypt
Date of collection:	22/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	13/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34189, genome 34190, sequence viba_34191, sequencing info 34192	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.7	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.5	0	O	EA-3		
viba_854	ETH/1/2007	cattle	85.0	0	O	EA-3		
viba_617	IND/53/79	bovine	84.4	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.3	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.3	0	O	EA-3		
viba_359	Manisa/TUR/69		83.8	0	O	ME-SA		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_523	K83/79		83.6	0	O	EA-1		
viba_263	TAN/2/2004	bovine	83.6	0	O	EA-2		

Virus sample name:	EGY/17/2017
Sender reference:	20 (RL/260)
Location of origin:	Shalofa, Ganain, Suez
Country of origin:	Egypt
Date of collection:	27/02/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34193, genome 34194, sequence viba_34195, sequencing info 34196	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34159	EGY/4/2017	water buffalo	99.8	0	O	EA-3		
viba_34219	EGY/27/2017	cattle	99.7	0	O	EA-3		
viba_34207	EGY/22/2017	water buffalo	99.7	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.7	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.7	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.7	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.7	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.7	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.5	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.5	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.0	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.5	0	O	EA-3		
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_221	MAL/1/98		83.9	0	O	EA-2		
viba_617	IND/53/79	bovine	83.9	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.8	0	O	ME-SA	PanAsia	
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.6	0	O	EA-2		
viba_523	K83/79		83.1	0	O	EA-1		

Virus sample name:	EGY/19/2017
Sender reference:	22 (RL/301)
Location of origin:	Aish, Ganob, Port Said
Country of origin:	Egypt
Date of collection:	08/03/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34197, genome 34198, sequence viba_34199, sequencing info 34200	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34223	EGY/28/2017	cattle	100.0	0	O	EA-3		
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	85.0	0	O	EA-3		
viba_408	ETH/3/2004	cattle	84.3	0	O	EA-3		
viba_617	IND/53/79	bovine	84.1	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.9	0	O	ME-SA	PanAsia	
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_359	Manisa/TUR/69		83.5	0	O	ME-SA		
viba_302	CIV/8/99	bovine	83.5	0	O	WA		

Virus sample name:	EGY/21/2017
Sender reference:	24 (RL/326)
Location of origin:	Abodraz, Fowa, Kafr El Sheikh
Country of origin:	Egypt
Date of collection:	13/03/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	15/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34201, genome 34202, sequence viba_34203, sequencing info 34204	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	85.0	0	O	EA-3		
viba_617	IND/53/79	bovine	84.4	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.3	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.0	0	O	EA-3		
viba_359	Manisa/TUR/69		83.8	0	O	ME-SA		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.6	0	O	EA-2		
viba_523	K83/79		83.3	0	O	EA-1		

Virus sample name:	EGY/22/2017
Sender reference:	25 (RL/340)
Location of origin:	Kilo 17, Ganob, Port Said
Country of origin:	Egypt
Date of collection:	19/03/2017
Host species:	water buffalo
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	16/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34205, genome 34206, sequence viba_34207, sequencing info 34208	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34171	EGY/8/2017	cattle	100.0	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	100.0	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	100.0	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	100.0	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	100.0	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.8	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.8	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.8	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.8	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Virus sample name:	EGY/25/2017
Sender reference:	11 (RL/406)
Location of origin:	El Rabeaa, Meet Sweb, Dakahlia
Country of origin:	Egypt
Date of collection:	30/03/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	20/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34209, genome 34210, sequence viba_34211, sequencing info 34212	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	100.0	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	100.0	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	100.0	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	100.0	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	100.0	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.8	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.8	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.8	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.8	0	O	EA-3		
viba_34203	EGY/21/2017	cattle	99.8	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Virus sample name:	EGY/26/2017
Sender reference:	28 (RL/408)
Location of origin:	Abodraz, Fowa, Kafr El Sheikh
Country of origin:	Egypt
Date of collection:	01/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	20/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34213, genome 34214, sequence viba_34215, sequencing info 34216	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_34207	EGY/22/2017	water buffalo	99.4	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.4	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.4	0	O	EA-3		
viba_34195	EGY/17/2017	cattle	99.4	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.4	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.4	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.4	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.2	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.2	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.0	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.5	0	O	EA-3		
viba_221	MAL/1/98		84.0	0	O	EA-2		
viba_617	IND/53/79	bovine	83.9	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.8	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	83.8	0	O	EA-3		
viba_85	UGA/3/2002		83.5	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.5	0	O	EA-2		
viba_523	K83/79		83.4	0	O	EA-1		
viba_359	Manisa/TUR/69		83.3	0	O	ME-SA		

Virus sample name:	EGY/27/2017
Sender reference:	29 (RL/426)
Location of origin:	Banimohamed, Etaelbarod, Behaira
Country of origin:	Egypt
Date of collection:	05/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	07/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34217, genome 34218, sequence viba_34219, sequencing info 34220	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34195	EGY/17/2017	cattle	99.7	0	O	EA-3		
viba_34159	EGY/4/2017	water buffalo	99.5	0	O	EA-3		
viba_34207	EGY/22/2017	water buffalo	99.4	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.4	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.4	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.4	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.4	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.4	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.2	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.2	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	87.7	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.2	0	O	EA-3		
viba_408	ETH/3/2004	cattle	83.8	0	O	EA-3		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_617	IND/53/79	bovine	83.6	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.5	0	O	ME-SA	PanAsia	
viba_359	Manisa/TUR/69		83.3	0	O	ME-SA		
viba_85	UGA/3/2002		83.3	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.3	0	O	EA-2		
viba_302	CIV/8/99	bovine	83.0	0	O	WA		

Virus sample name:	EGY/28/2017
Sender reference:	30 (RL/433)
Location of origin:	Kalamon, Dakhla, New Vally
Country of origin:	Egypt
Date of collection:	11/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	07/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34221, genome 34222, sequence viba_34223, sequencing info 34224	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34199	EGY/19/2017	cattle	100.0	0	O	EA-3		
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	85.0	0	O	EA-3		
viba_408	ETH/3/2004	cattle	84.3	0	O	EA-3		
viba_617	IND/53/79	bovine	84.1	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.9	0	O	ME-SA	PanAsia	
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_359	Manisa/TUR/69		83.5	0	O	ME-SA		
viba_302	CIV/8/99	bovine	83.5	0	O	WA		

Virus sample name:	EGY/30/2017
Sender reference:	31 (RL/440)
Location of origin:	Ezab Kasr, Dakhla, New Vally
Country of origin:	Egypt
Date of collection:	15/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	20/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34225, genome 34226, sequence viba_34227, sequencing info 34228	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.8	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.8	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.8	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.8	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.8	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.8	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.7	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.7	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.7	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.7	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.2	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.7	0	O	EA-3		
viba_617	IND/53/79	bovine	84.1	0	O	ME-SA		
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_285	UKG/35/2001	porcine	83.9	0	O	ME-SA	PanAsia	
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_85	UGA/3/2002		83.6	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.6	0	O	EA-2		
viba_359	Manisa/TUR/69		83.5	0	O	ME-SA		
viba_302	CIV/8/99	bovine	83.5	0	O	WA		

Virus sample name:	EGY/31/2017
Sender reference:	33 (RV/41)
Location of origin:	Borg Elarab, Alexandria
Country of origin:	Egypt
Date of collection:	16/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	19/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34229, genome 34230, sequence viba_34231, sequencing info 34232	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.5	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.5	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.5	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.5	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.5	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.5	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.4	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.4	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.4	0	O	EA-3		
viba_32344	PAT/4/2017	cattle	99.4	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	87.8	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.4	0	O	EA-3		
viba_617	IND/53/79	bovine	83.8	0	O	ME-SA		
viba_221	MAL/1/98		83.6	0	O	EA-2		
viba_285	UKG/35/2001	porcine	83.6	0	O	ME-SA	PanAsia	
viba_85	UGA/3/2002		83.5	0	O	EA-2		
viba_408	ETH/3/2004	cattle	83.5	0	O	EA-3		
viba_263	TAN/2/2004	bovine	83.5	0	O	EA-2		
viba_359	Manisa/TUR/69		83.1	0	O	ME-SA		
viba_302	CIV/8/99	bovine	83.0	0	O	WA		

Virus sample name:	EGY/32/2017
Sender reference:	34 (RV/43)
Location of origin:	Fowa, Kafr El Sheikh
Country of origin:	Egypt
Date of collection:	18/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	19/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34233, genome 34234, sequence viba_34235, sequencing info 34236	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.5	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.5	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.5	0	O	EA-3		
viba_34195	EGY/17/2017	cattle	99.5	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.5	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.5	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.5	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.4	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.4	0	O	EA-3		
viba_32331	ISR/8/2017	cattle	99.4	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.0	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.5	0	O	EA-3		
viba_617	IND/53/79	bovine	84.1	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	83.8	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	83.8	0	O	EA-3		
viba_221	MAL/1/98		83.7	0	O	EA-2		
viba_85	UGA/3/2002		83.5	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.5	0	O	EA-2		
viba_359	Manisa/TUR/69		83.3	0	O	ME-SA		
viba_523	K83/79		83.1	0	O	EA-1		

Virus sample name:	EGY/33/2017
Sender reference:	35 (RL/454)
Location of origin:	Elsaraw, Faraskor, Domiatte
Country of origin:	Egypt
Date of collection:	23/04/2017
Host species:	cattle
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	20/07/2017
Primers:	O-1C244F/EUR-2B52R; O-1C272F/EUR-2B52R
Received for sequencing:	07/08/2017
Created:	11/08/2017
Last updated:	11/08/2017
VIBASys IDs: sample 34237, genome 34238, sequence viba_34239, sequencing info 34240	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34207	EGY/22/2017	water buffalo	99.5	0	O	EA-3		
viba_34171	EGY/8/2017	cattle	99.5	0	O	EA-3		
viba_34167	EGY/7/2017	cattle	99.5	0	O	EA-3		
viba_34215	EGY/26/2017	cattle	99.5	0	O	EA-3		
viba_34195	EGY/17/2017	cattle	99.5	0	O	EA-3		
viba_34183	EGY/11/2017	water buffalo	99.5	0	O	EA-3		
viba_34211	EGY/25/2017	cattle	99.5	0	O	EA-3		
viba_34175	EGY/9/2017	cattle	99.5	0	O	EA-3		
viba_34191	EGY/16/2017	cattle	99.4	0	O	EA-3		
viba_32340	PAT/2/2017	cattle	99.4	0	O	EA-3		

Most Closely Related Prototype Sequences

see http://www.wrlfmd.org/fmd_genotyping/prototypes.htm

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_116	SUD/2/86	bovine	88.3	0	O	EA-3		
viba_854	ETH/1/2007	cattle	84.8	0	O	EA-3		
viba_617	IND/53/79	bovine	84.2	0	O	ME-SA		
viba_285	UKG/35/2001	porcine	84.1	0	O	ME-SA	PanAsia	
viba_408	ETH/3/2004	cattle	84.1	0	O	EA-3		
viba_221	MAL/1/98		83.9	0	O	EA-2		
viba_85	UGA/3/2002		83.8	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.8	0	O	EA-2		
viba_359	Manisa/TUR/69		83.6	0	O	ME-SA		
viba_523	K83/79		83.4	0	O	EA-1		

Report on FMDV O in Egypt in 2017

Batch: WRLFMD/2017/00014



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor:	vp1_O
Query sequence set:	WRLFMD/2017/00014-Egypt-O (21 sequences)
Sequence database set:	allseqs_O (3583 sequences)
Prototype sequence set:	!prototypes_O (47 sequences)
Number of related sequences reported:	10
Minimal VP1 subsequence match length	600
Sequence alignment method:	muscle (default parameters)
Sequence alignment length:	636
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:	master-1.1.0-17-gf69a4d1

Sequences in the Phylogenetic Tree

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

label	accession	host(s)	lab	country	taxonomic information
EGY/26/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/33/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/32/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/27/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/4/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
EGY/17/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/13/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/16/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/22/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
EGY/19/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/28/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/25/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/31/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/11/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
EGY/7/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/9/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/6/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/8/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/30/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/10/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
EGY/21/2017	n/a	cattle	WRLFMD	Egypt	EA-3
PAT/10/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/2/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/5/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/7/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
West Bank/PAT/2017*	n/a	sheep	KVI	Palestinian AT	EA-3
Ramallah/PAT/2017*	n/a	sheep	KVI	Palestinian AT	EA-3
Yatta-Kraisah/PAT/2017*	n/a	cattle	KVI	Palestinian AT	EA-3
Ayn al-Sahla/ISR/2017*	n/a	cattle	KVI	Israel	EA-3
Bani Na'im/PAT/2017 C*	n/a	sheep	KVI	Palestinian AT	EA-3
Bani Na'im/PAT/2017 B*	n/a	sheep	KVI	Palestinian AT	EA-3
Bani Na'im/PAT/2017 A*	n/a	sheep	KVI	Palestinian AT	EA-3
PAT/9/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
ISR/6/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/4/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
ISR/5/2017	n/a	cattle	WRLFMD	Israel	EA-3

continued on next page

label	accession	host(s)	lab	country	taxonomic information
ISR/1/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/2/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/4/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/6/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/1/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
ISR/7/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/3/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/8/2017	n/a	cattle	WRLFMD	Israel	EA-3
ETH/3/2017	n/a	cattle	WRLFMD	Ethiopia	EA-3
ETH/2/2017	n/a	cattle	WRLFMD	Ethiopia	EA-3
ETH/4/2017	n/a	cattle	WRLFMD	Ethiopia	EA-3
ETH/5/2017	n/a	cattle	WRLFMD	Ethiopia	EA-3
SUD/4/2013	n/a	cattle	WRLFMD	Sudan	EA-3
EGY/3/2015	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/10/2015	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/8/2016	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/9/2015	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/18/2016	n/a	cattle	WRLFMD	Egypt	EA-3
Ismailia 9/Egy/2016*	KX447135	cattle	Suez Canal Univ	Egypt	EA-3
EGY/5/2016	n/a	cattle	WRLFMD	Egypt	EA-3
Ismailia 6/Egy/2016*	KX447129	cattle	Suez Canal Univ	Egypt	EA-3
EGY/14/2015	n/a	cattle	WRLFMD	Egypt	EA-3
Ismailia 4/Egy/2016*	KX447127	cattle	Suez Canal Univ	Egypt	EA-3
Ismailia 3/Egy/2016*	KX447126	cattle	Suez Canal Univ	Egypt	EA-3
Ismailia 2/Egy/2016*	KX447125	cattle	Suez Canal Univ	Egypt	EA-3
EGY/17/2016	n/a	cattle	WRLFMD	Egypt	EA-3
Giza 2/Egy/2016*	KX447132	cattle	Suez Canal Univ	Egypt	EA-3
EGY/14/2016	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/13/2015	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/9/2016	n/a	cattle	WRLFMD	Egypt	EA-3
Ismailia 11/Egy/2016*	KX447138	cattle	Suez Canal Univ	Egypt	EA-3
Ismailia 5/Egy/2016*	KX447128	cattle	Suez Canal Univ	Egypt	EA-3
SUD/2/86	DQ165075	bovine	WRLFMD	Sudan	EA-3
TAN/2/2004	KF561679	bovine	WRLFMD	Tanzania	EA-2
UGA/3/2002	DQ165077	n/a	WRLFMD	Uganda	EA-2
MAL/1/98	DQ165074	n/a	WRLFMD	Malawi	EA-2
ETH/3/2004	FJ798109	cattle	WRLFMD	Ethiopia	EA-3
ETH/1/2007	FJ798137	cattle	WRLFMD	Ethiopia	EA-3
CIV/8/99	AJ303485	bovine	WRLFMD	Cote d'Ivoire	WA
K83/79*	AJ303511	n/a	WRLFMD	Kenya	EA-1
TAI/189/87*	KY091288	bovine	TRRL	Thailand	SEA
UKG/35/2001	AJ539141	porcine	PIADC	United Kingdom	ME-SA/PanAsia
Manisa/TUR/69*	AY593823	n/a	PIADC	Turkey	ME-SA
IND/53/79	AF292107	bovine	PD-FMD	India	ME-SA
ISA/1/62	AJ303500	n/a	WRLFMD	Indonesia	ISA-1

*, not a WRLFMD Reference Number

n/a, not available