

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

## Genotyping Report

FMDV serotype: O  
Country: Eritrea  
Year: 2017  
Batch: WRLFMD/2019/00031  
No. of sequences: 6  
Report date: 27th January 2020  
Report generated by: Nick Knowles  
Report checked by: Jemma Wadsworth



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Virus sample name:	ERI/1/2017
Sender reference:	102/17-1
Location of origin:	n/a
Country of origin:	Eritrea
Date of collection:	22/03/2017
Host species:	bovine
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/01/2020
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	17/01/2020
Created:	23/01/2020
Last updated:	23/01/2020

VIBASys IDs: sample 43706, genome 43707, sequence viba\_43708, sequencing info 43709

### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_43724	ERI/7/2017	porcine	100.0	0	O	EA-3		
viba_43716	ERI/3/2017	bovine	100.0	0	O	EA-3		
viba_43720	ERI/4/2017	bovine	100.0	0	O	EA-3		
viba_43712	ERI/2/2017	bovine	100.0	0	O	EA-3		
viba_43728	ERI/8/2017	porcine	100.0	0	O	EA-3		
viba_37029	SUD/1/2016	cattle	99.7	0	O	EA-3		
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_35740	ISR/15/2017	cattle	99.4	0	O	EA-3		
viba_35505	Giza 1/Egy/2017		99.4	0	O	EA-3		
viba_35675	PAT/13/2017	cattle	99.4	0	O	EA-3		

### 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_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_221	MAL/1/98		84.2	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.9	0	O	ME-SA		
viba_766	IRN/31/2009	cattle	83.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_85	UGA/3/2002		83.6	0	O	EA-2		

Virus sample name:	ERI/2/2017
Sender reference:	102/17-2
Location of origin:	n/a
Country of origin:	Eritrea
Date of collection:	22/03/2017
Host species:	bovine
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	09/01/2020
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	17/01/2020
Created:	23/01/2020
Last updated:	23/01/2020

VIBASys IDs: sample 43710, genome 43711, sequence viba\_43712, sequencing info 43713

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_43724	ERI/7/2017	porcine	100.0	0	O	EA-3		
viba_43716	ERI/3/2017	bovine	100.0	0	O	EA-3		
viba_43708	ERI/1/2017	bovine	100.0	0	O	EA-3		
viba_43720	ERI/4/2017	bovine	100.0	0	O	EA-3		
viba_43728	ERI/8/2017	porcine	100.0	0	O	EA-3		
viba_37029	SUD/1/2016	cattle	99.7	0	O	EA-3		
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_35740	ISR/15/2017	cattle	99.4	0	O	EA-3		
viba_35505	Giza 1/Egy/2017		99.4	0	O	EA-3		
viba_35675	PAT/13/2017	cattle	99.4	0	O	EA-3		

#### 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_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_221	MAL/1/98		84.2	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.9	0	O	ME-SA		
viba_766	IRN/31/2009	cattle	83.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_85	UGA/3/2002		83.6	0	O	EA-2		

Virus sample name:	ERI/3/2017
Sender reference:	102/17-3
Location of origin:	n/a
Country of origin:	Eritrea
Date of collection:	22/03/2017
Host species:	bovine
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/01/2020
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	17/01/2020
Created:	23/01/2020
Last updated:	23/01/2020

VIBASys IDs: sample 43714, genome 43715, sequence viba\_43716, sequencing info 43717

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_43724	ERI/7/2017	porcine	100.0	0	O	EA-3		
viba_43708	ERI/1/2017	bovine	100.0	0	O	EA-3		
viba_43720	ERI/4/2017	bovine	100.0	0	O	EA-3		
viba_43712	ERI/2/2017	bovine	100.0	0	O	EA-3		
viba_43728	ERI/8/2017	porcine	100.0	0	O	EA-3		
viba_37029	SUD/1/2016	cattle	99.7	0	O	EA-3		
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_35740	ISR/15/2017	cattle	99.4	0	O	EA-3		
viba_35505	Giza 1/Egy/2017		99.4	0	O	EA-3		
viba_35675	PAT/13/2017	cattle	99.4	0	O	EA-3		

#### 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_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_221	MAL/1/98		84.2	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.9	0	O	ME-SA		
viba_766	IRN/31/2009	cattle	83.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_85	UGA/3/2002		83.6	0	O	EA-2		

Virus sample name:	ERI/4/2017
Sender reference:	102/17-4
Location of origin:	n/a
Country of origin:	Eritrea
Date of collection:	22/03/2017
Host species:	bovine
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	08/01/2020
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	17/01/2020
Created:	23/01/2020
Last updated:	23/01/2020

VIBASys IDs: sample 43718, genome 43719, sequence viba\_43720, sequencing info 43721

### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_43724	ERI/7/2017	porcine	100.0	0	O	EA-3		
viba_43716	ERI/3/2017	bovine	100.0	0	O	EA-3		
viba_43708	ERI/1/2017	bovine	100.0	0	O	EA-3		
viba_43712	ERI/2/2017	bovine	100.0	0	O	EA-3		
viba_43728	ERI/8/2017	porcine	100.0	0	O	EA-3		
viba_37029	SUD/1/2016	cattle	99.7	0	O	EA-3		
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_35740	ISR/15/2017	cattle	99.4	0	O	EA-3		
viba_35505	Giza 1/Egy/2017		99.4	0	O	EA-3		
viba_35675	PAT/13/2017	cattle	99.4	0	O	EA-3		

### 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_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_221	MAL/1/98		84.2	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.9	0	O	ME-SA		
viba_766	IRN/31/2009	cattle	83.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_85	UGA/3/2002		83.6	0	O	EA-2		

Virus sample name:	ERI/7/2017
Sender reference:	104/17-3
Location of origin:	n/a
Country of origin:	Eritrea
Date of collection:	27/03/2017
Host species:	porcine
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy2
Harvest date of material:	11/01/2020
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	17/01/2020
Created:	23/01/2020
Last updated:	23/01/2020
VIBASys IDs: sample 43722, genome 43723, sequence viba_43724, sequencing info 43725	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_43716	ERI/3/2017	bovine	100.0	0	O	EA-3		
viba_43708	ERI/1/2017	bovine	100.0	0	O	EA-3		
viba_43720	ERI/4/2017	bovine	100.0	0	O	EA-3		
viba_43712	ERI/2/2017	bovine	100.0	0	O	EA-3		
viba_43728	ERI/8/2017	porcine	100.0	0	O	EA-3		
viba_37029	SUD/1/2016	cattle	99.7	0	O	EA-3		
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_35740	ISR/15/2017	cattle	99.4	0	O	EA-3		
viba_35505	Giza 1/Egy/2017		99.4	0	O	EA-3		
viba_35675	PAT/13/2017	cattle	99.4	0	O	EA-3		

#### 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_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_221	MAL/1/98		84.2	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.9	0	O	ME-SA		
viba_766	IRN/31/2009	cattle	83.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_85	UGA/3/2002		83.6	0	O	EA-2		

Virus sample name:	ERI/8/2017
Sender reference:	104/17-4
Location of origin:	n/a
Country of origin:	Eritrea
Date of collection:	27/03/2017
Host species:	porcine
Serotype:	O
Topotype:	EA-3
Lineage:	
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1 09/01/2020 & RS1
Harvest date of material:	10/01/2020
Primers:	O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R
Received for sequencing:	17/01/2020
Created:	23/01/2020
Last updated:	23/01/2020
VIBASys IDs: sample 43726, genome 43727, sequence viba_43728, sequencing info 43729	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_43724	ERI/7/2017	porcine	100.0	0	O	EA-3		
viba_43716	ERI/3/2017	bovine	100.0	0	O	EA-3		
viba_43708	ERI/1/2017	bovine	100.0	0	O	EA-3		
viba_43720	ERI/4/2017	bovine	100.0	0	O	EA-3		
viba_43712	ERI/2/2017	bovine	100.0	0	O	EA-3		
viba_37029	SUD/1/2016	cattle	99.7	0	O	EA-3		
viba_34239	EGY/33/2017	cattle	99.5	0	O	EA-3		
viba_35740	ISR/15/2017	cattle	99.4	0	O	EA-3		
viba_35505	Giza 1/Egy/2017		99.4	0	O	EA-3		
viba_35675	PAT/13/2017	cattle	99.4	0	O	EA-3		

#### 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_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_221	MAL/1/98		84.2	0	O	EA-2		
viba_263	TAN/2/2004	bovine	83.9	0	O	EA-2		
viba_359	Manisa/TUR/69		83.9	0	O	ME-SA		
viba_766	IRN/31/2009	cattle	83.8	0	O	ME-SA	PanAsia-2	FAR-09
viba_85	UGA/3/2002		83.6	0	O	EA-2		

Report on FMDV O in Eritrea in 2017

Batch: WRLFMD/2019/00031



\*, not a WRLFMD Reference Number



## Analysis Parameters

VP1 subsequence extractor:	vp1_O
Query sequence set:	WRLFMD/2019/00031-Eritrea-O (6 sequences)
Sequence database set:	allseqs_O (4694 sequences)
Prototype sequence set:	!prototypes_O (49 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:	10
VIBASys version:	reflabs-1.1.2

## Sequences in the Phylogenetic Tree

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

label	accession	host(s)	lab	country	taxonomic information
ERI/2/2017	n/a	bovine	WRLFMD	Eritrea	EA-3
ERI/8/2017	n/a	porcine	WRLFMD	Eritrea	EA-3
ERI/4/2017	n/a	bovine	WRLFMD	Eritrea	EA-3
ERI/1/2017	n/a	bovine	WRLFMD	Eritrea	EA-3
ERI/3/2017	n/a	bovine	WRLFMD	Eritrea	EA-3
ERI/7/2017	n/a	porcine	WRLFMD	Eritrea	EA-3
EGY/32/2017	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
Fayoum 3/Egy/2017*	MF322690	n/a	MEVAC	Egypt	EA-3
Egy-RL72-AHRI/2017*	MH729316	cattle	AHRI	Egypt	EA-3
Egy-RL49-AHRI/2017*	MH729321	water buffalo	AHRI	Egypt	EA-3
Alexandria 1/Egy/2017*	MF322681	n/a	MEVAC	Egypt	EA-3
PAT/12/2017	n/a	sheep	WRLFMD	Palestinian AT	EA-3
West Bank/PAT/2017*	n/a	sheep	KVI	Palestinian AT	EA-3
PAT/1/2018	n/a	sheep	WRLFMD	Palestinian AT	EA-3
PAT/18/2017	n/a	sheep	WRLFMD	Palestinian AT	EA-3
PAT/15/2017	n/a	sheep	WRLFMD	Palestinian AT	EA-3
Ramallah/PAT/2017*	n/a	sheep	KVI	Palestinian AT	EA-3
ISR/16/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/18/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/17/2017	n/a	sheep	WRLFMD	Palestinian AT	EA-3
Bani Na'im/PAT/2017 B*	n/a	sheep	KVI	Palestinian AT	EA-3
PAT/16/2017	n/a	sheep	WRLFMD	Palestinian AT	EA-3
Bani Na'im/PAT/2017 C*	n/a	sheep	KVI	Palestinian AT	EA-3
Bani Na'im/PAT/2017 A*	n/a	sheep	KVI	Palestinian AT	EA-3
ISR/17/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/13/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/14/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
Yatta-Kraisah/PAT/2017*	n/a	cattle	KVI	Palestinian AT	EA-3
ISR/15/2017	n/a	cattle	WRLFMD	Israel	EA-3
Ayn al-Sahla/ISR/2017*	n/a	cattle	KVI	Israel	EA-3
PAT/1/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
ISR/4/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/5/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/4/2017	n/a	cattle	WRLFMD	Palestinian AT	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/8/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/3/2017	n/a	cattle	WRLFMD	Israel	EA-3
ISR/6/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/9/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/6/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
ISR/7/2017	n/a	cattle	WRLFMD	Israel	EA-3
PAT/7/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/5/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/2/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
PAT/10/2017	n/a	cattle	WRLFMD	Palestinian AT	EA-3
EGY/16/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/25/2017	n/a	cattle	WRLFMD	Egypt	EA-3
Fayoum 4/Egy/2017*	MF322691	n/a	MEVAC	Egypt	EA-3
Fayoum 2/Egy/2017*	MF322689	n/a	MEVAC	Egypt	EA-3
EGY/8/2017	n/a	cattle	WRLFMD	Egypt	EA-3
Egy-RL66-AHRI/2017*	MH729317	cattle	AHRI	Egypt	EA-3
Giza 1/Egy/2017*	MF322682	n/a	MEVAC	Egypt	EA-3
Gharbia 1/Egy/2017*	MF322685	n/a	MEVAC	Egypt	EA-3
EGY/22/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
Egy/Port Said/2016*	MG552846	cattle	AHRI	Egypt	EA-3
EGY/21/2017	n/a	cattle	WRLFMD	Egypt	EA-3
Behira 2/Egy/2017*	MF322687	n/a	MEVAC	Egypt	EA-3
EGY/13/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/7/2017	n/a	cattle	WRLFMD	Egypt	EA-3
Egy-RL91-AHRI/2017*	MH729320	cattle	AHRI	Egypt	EA-3
Sharkia 1/Egy/2017*	MF322684	n/a	MEVAC	Egypt	EA-3
EGY/28/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/19/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/9/2017	n/a	cattle	WRLFMD	Egypt	EA-3
Behira 1/Egy/2017*	MF322686	n/a	MEVAC	Egypt	EA-3
EGY/6/2017	n/a	cattle	WRLFMD	Egypt	EA-3
EGY/11/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
EGY/10/2017	n/a	water buffalo	WRLFMD	Egypt	EA-3
EGY/30/2017	n/a	cattle	WRLFMD	Egypt	EA-3
SUD/5/2017	MK422567	cattle	WRLFMD	Sudan	EA-3
SUD/15/2017	MK422569	cattle	WRLFMD	Sudan	EA-3
SUD/1/2016	MK422563	cattle	WRLFMD	Sudan	EA-3
EGY/26/2017	n/a	cattle	WRLFMD	Egypt	EA-3
Alexandria 1/Egy/2016*	MF322680	n/a	MEVAC	Egypt	EA-3
EGY/33/2017	n/a	cattle	WRLFMD	Egypt	EA-3
ETH/5/2017	MN987455	cattle	WRLFMD	Ethiopia	EA-3
ETH/4/2017	MN987454	cattle	WRLFMD	Ethiopia	EA-3
ETH/3/2017	MN987453	cattle	WRLFMD	Ethiopia	EA-3
SUD/3/2017	MK422565	cattle	WRLFMD	Sudan	EA-3
SUD/7/2017	MK422568	cattle	WRLFMD	Sudan	EA-3
SUD/2/2017	MK422564	cattle	WRLFMD	Sudan	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/1/2007	FJ798137	cattle	WRLFMD	Ethiopia	EA-3
ETH/3/2004	FJ798109	cattle	WRLFMD	Ethiopia	EA-3
TAI/189/87*	KY091288	bovine	TRRL	Thailand	SEA
UKG/35/2001	AJ539141	porcine	PIADC	United Kingdom	ME-SA/PanAsia
IRN/31/2009	KY091284	cattle	WRLFMD	Iran	ME-SA/PanAsia-2/FAR-09
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