

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

Genotyping Report

FMDV serotype: A
Country: Saudi Arabia
Year: 2016
Batch: WRLFMD/2017/00002
No. of sequences: 7
Report date: 23rd March 2017
Report generated by: Nick Knowles
Report checked by: Kasia Bankowska



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Virus sample name:	SAU/21/2016
Sender reference:	G1
Location of origin:	Mekkah
Country of origin:	Saudi Arabia
Date of collection:	19/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	05/03/2017
Primers:	A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32182, genome 32183, sequence viba_32184, sequencing info 32185	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32188	SAU/22/2016	cattle	99.8	0	A	ASIA	G-VII	
viba_32192	SAU/24/2016	cattle	99.7	0	A	ASIA	G-VII	
viba_25842	IRN/21/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25846	IRN/22/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25242	SAU/4/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25238	SAU/3/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25854	IRN/25/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25818	IRN/12/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	98.3	0	A	ASIA	G-VII	
viba_32140	TUR /198/2015.808	cattle	98.3	0	A	ASIA	G-VII	

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_843	SAU/16/95		90.1	0	A	ASIA	G-VII	
viba_864	IND/40/2000	cattle	89.8	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.9	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	84.6	1	A	ASIA	Iran-96	
viba_589	Bangkok/TAI/60		83.2	0	A	ASIA	A15	
viba_699	UKG/119/32		83.2	0	A	EURO-SA	A12	
viba_682	IRN/2/87	bovine	83.0	0	A	ASIA	Iran-87	
viba_308	IRN/9/2011	bovine	82.6	0	A	ASIA	Iran-05	QAZ-11
viba_475	IRN/22/99		82.3	0	A	ASIA	Iran-99	
viba_403	TUR/1/2008	cattle	82.2	0	A	ASIA	Iran-05	ARD-07

Virus sample name:	SAU/22/2016
Sender reference:	G2
Location of origin:	Mekkah
Country of origin:	Saudi Arabia
Date of collection:	19/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	04/03/2017
Primers:	A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32186, genome 32187, sequence viba_32188, sequencing info 32189	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32192	SAU/24/2016	cattle	99.8	0	A	ASIA	G-VII	
viba_32184	SAU/21/2016	cattle	99.8	0	A	ASIA	G-VII	
viba_25842	IRN/21/2015	cattle	98.7	0	A	ASIA	G-VII	
viba_25846	IRN/22/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25242	SAU/4/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25238	SAU/3/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25854	IRN/25/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25818	IRN/12/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_32140	TUR /198/2015.808	cattle	98.4	0	A	ASIA	G-VII	

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_843	SAU/16/95		90.3	0	A	ASIA	G-VII	
viba_864	IND/40/2000	cattle	89.9	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	85.1	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	84.7	1	A	ASIA	Iran-96	
viba_699	UKG/119/32		83.4	0	A	EURO-SA	A12	
viba_589	Bangkok/TAI/60		83.3	0	A	ASIA	A15	
viba_682	IRN/2/87	bovine	83.2	0	A	ASIA	Iran-87	
viba_308	IRN/9/2011	bovine	82.7	0	A	ASIA	Iran-05	QAZ-11
viba_475	IRN/22/99		82.4	0	A	ASIA	Iran-99	
viba_403	TUR/1/2008	cattle	82.3	0	A	ASIA	Iran-05	ARD-07

Virus sample name:	SAU/24/2016
Sender reference:	G6
Location of origin:	Mekkah
Country of origin:	Saudi Arabia
Date of collection:	19/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy2
Harvest date of material:	07/03/2017
Primers:	A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32190, genome 32191, sequence viba_32192, sequencing info 32193	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32188	SAU/22/2016	cattle	99.8	0	A	ASIA	G-VII	
viba_32184	SAU/21/2016	cattle	99.7	0	A	ASIA	G-VII	
viba_25842	IRN/21/2015	cattle	98.6	0	A	ASIA	G-VII	
viba_25846	IRN/22/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25242	SAU/4/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25238	SAU/3/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25854	IRN/25/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25818	IRN/12/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	98.3	0	A	ASIA	G-VII	
viba_32140	TUR /198/2015.808	cattle	98.3	0	A	ASIA	G-VII	

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_843	SAU/16/95		90.1	0	A	ASIA	G-VII	
viba_864	IND/40/2000	cattle	89.8	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.9	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	84.6	1	A	ASIA	Iran-96	
viba_589	Bangkok/TAI/60		83.2	0	A	ASIA	A15	
viba_699	UKG/119/32		83.2	0	A	EURO-SA	A12	
viba_682	IRN/2/87	bovine	83.0	0	A	ASIA	Iran-87	
viba_308	IRN/9/2011	bovine	82.6	0	A	ASIA	Iran-05	QAZ-11
viba_475	IRN/22/99		82.3	0	A	ASIA	Iran-99	
viba_403	TUR/1/2008	cattle	82.2	0	A	ASIA	Iran-05	ARD-07

Virus sample name:	SAU/37/2016
Sender reference:	K3
Location of origin:	Kharj
Country of origin:	Saudi Arabia
Date of collection:	29/12/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	03/03/2017
Primers:	A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32194, genome 32195, sequence viba_32196, sequencing info 32197	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32208	SAU/42/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_30460	SAU/20/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_30456	SAU/19/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_32204	SAU/41/2016	cattle	99.4	0	A	ASIA	G-VII	
viba_32200	SAU/40/2016	cattle	99.2	0	A	ASIA	G-VII	
viba_25979	SAU/21/2015	bovine	98.4	0	A	ASIA	G-VII	
viba_25863	SAU/7/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25975	SAU/17/2015	ovine	98.3	0	A	ASIA	G-VII	
viba_25247	SAU/5/2015	cattle	98.3	0	A	ASIA	G-VII	
viba_25971	SAU/16/2015	ovine	98.3	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.5	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.2	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.1	0	A	ASIA	A22	
viba_589	Bangkok/TAI/60		83.3	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	83.0	1	A	ASIA	Iran-96	
viba_308	IRN/9/2011	bovine	82.3	0	A	ASIA	Iran-05	QAZ-11
viba_682	IRN/2/87	bovine	82.0	0	A	ASIA	Iran-87	
viba_403	TUR/1/2008	cattle	81.8	0	A	ASIA	Iran-05	ARD-07
viba_331	AFG/10/2010		81.8	0	A	ASIA	Iran-05	HER-10
viba_699	UKG/119/32		81.8	0	A	EURO-SA	A12	

Virus sample name:	SAU/40/2016
Sender reference:	BM1
Location of origin:	Kharj
Country of origin:	Saudi Arabia
Date of collection:	29/12/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy2
Harvest date of material:	07/03/2017
Primers:	A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32198, genome 32199, sequence viba_32200, sequencing info 32201	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32204	SAU/41/2016	cattle	99.8	0	A	ASIA	G-VII	
viba_32208	SAU/42/2016	cattle	99.2	0	A	ASIA	G-VII	
viba_32196	SAU/37/2016	cattle	99.2	0	A	ASIA	G-VII	
viba_30460	SAU/20/2016	cattle	99.2	0	A	ASIA	G-VII	
viba_30456	SAU/19/2016	cattle	99.2	0	A	ASIA	G-VII	
viba_25979	SAU/21/2015	bovine	98.3	0	A	ASIA	G-VII	
viba_25863	SAU/7/2015	cattle	98.3	0	A	ASIA	G-VII	
viba_25975	SAU/17/2015	ovine	98.1	0	A	ASIA	G-VII	
viba_25247	SAU/5/2015	cattle	98.1	0	A	ASIA	G-VII	
viba_25971	SAU/16/2015	ovine	98.1	0	A	ASIA	G-VII	

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_843	SAU/16/95		89.3	0	A	ASIA	G-VII	
viba_864	IND/40/2000	cattle	89.0	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.0	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	83.1	1	A	ASIA	Iran-96	
viba_589	Bangkok/TAI/60		82.8	0	A	ASIA	A15	
viba_682	IRN/2/87	bovine	82.1	0	A	ASIA	Iran-87	
viba_403	TUR/1/2008	cattle	81.7	0	A	ASIA	Iran-05	ARD-07
viba_699	UKG/119/32		81.7	0	A	EURO-SA	A12	
viba_308	IRN/9/2011	bovine	81.5	0	A	ASIA	Iran-05	QAZ-11
viba_331	AFG/10/2010		81.3	0	A	ASIA	Iran-05	HER-10

Virus sample name:	SAU/41/2016
Sender reference:	BM2
Location of origin:	Kharj
Country of origin:	Saudi Arabia
Date of collection:	29/12/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	07/03/2017
Primers:	A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32202, genome 32203, sequence viba_32204, sequencing info 32205	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32200	SAU/40/2016	cattle	99.8	0	A	ASIA	G-VII	
viba_32208	SAU/42/2016	cattle	99.4	0	A	ASIA	G-VII	
viba_32196	SAU/37/2016	cattle	99.4	0	A	ASIA	G-VII	
viba_30460	SAU/20/2016	cattle	99.4	0	A	ASIA	G-VII	
viba_30456	SAU/19/2016	cattle	99.4	0	A	ASIA	G-VII	
viba_25979	SAU/21/2015	bovine	98.1	0	A	ASIA	G-VII	
viba_25863	SAU/7/2015	cattle	98.1	0	A	ASIA	G-VII	
viba_25975	SAU/17/2015	ovine	97.9	0	A	ASIA	G-VII	
viba_25247	SAU/5/2015	cattle	97.9	0	A	ASIA	G-VII	
viba_25971	SAU/16/2015	ovine	97.9	0	A	ASIA	G-VII	

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_843	SAU/16/95		89.5	0	A	ASIA	G-VII	
viba_864	IND/40/2000	cattle	89.2	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.1	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	83.3	1	A	ASIA	Iran-96	
viba_589	Bangkok/TAI/60		83.0	0	A	ASIA	A15	
viba_682	IRN/2/87	bovine	82.0	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		81.8	0	A	EURO-SA	A12	
viba_308	IRN/9/2011	bovine	81.6	0	A	ASIA	Iran-05	QAZ-11
viba_403	TUR/1/2008	cattle	81.5	0	A	ASIA	Iran-05	ARD-07
viba_331	AFG/10/2010		81.5	0	A	ASIA	Iran-05	HER-10

Virus sample name:	SAU/42/2016
Sender reference:	K6
Location of origin:	Kharj
Country of origin:	Saudi Arabia
Date of collection:	29/12/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	03/03/2017
Primers:	A-1C612F/EUR-2B52R
Received for sequencing:	21/03/2017
Created:	23/03/2017
Last updated:	23/03/2017
VIBASys IDs: sample 32206, genome 32207, sequence viba_32208, sequencing info 32209	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32196	SAU/37/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_30460	SAU/20/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_30456	SAU/19/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_32204	SAU/41/2016	cattle	99.4	0	A	ASIA	G-VII	
viba_32200	SAU/40/2016	cattle	99.2	0	A	ASIA	G-VII	
viba_25979	SAU/21/2015	bovine	98.4	0	A	ASIA	G-VII	
viba_25863	SAU/7/2015	cattle	98.4	0	A	ASIA	G-VII	
viba_25975	SAU/17/2015	ovine	98.3	0	A	ASIA	G-VII	
viba_25247	SAU/5/2015	cattle	98.3	0	A	ASIA	G-VII	
viba_25971	SAU/16/2015	ovine	98.3	0	A	ASIA	G-VII	

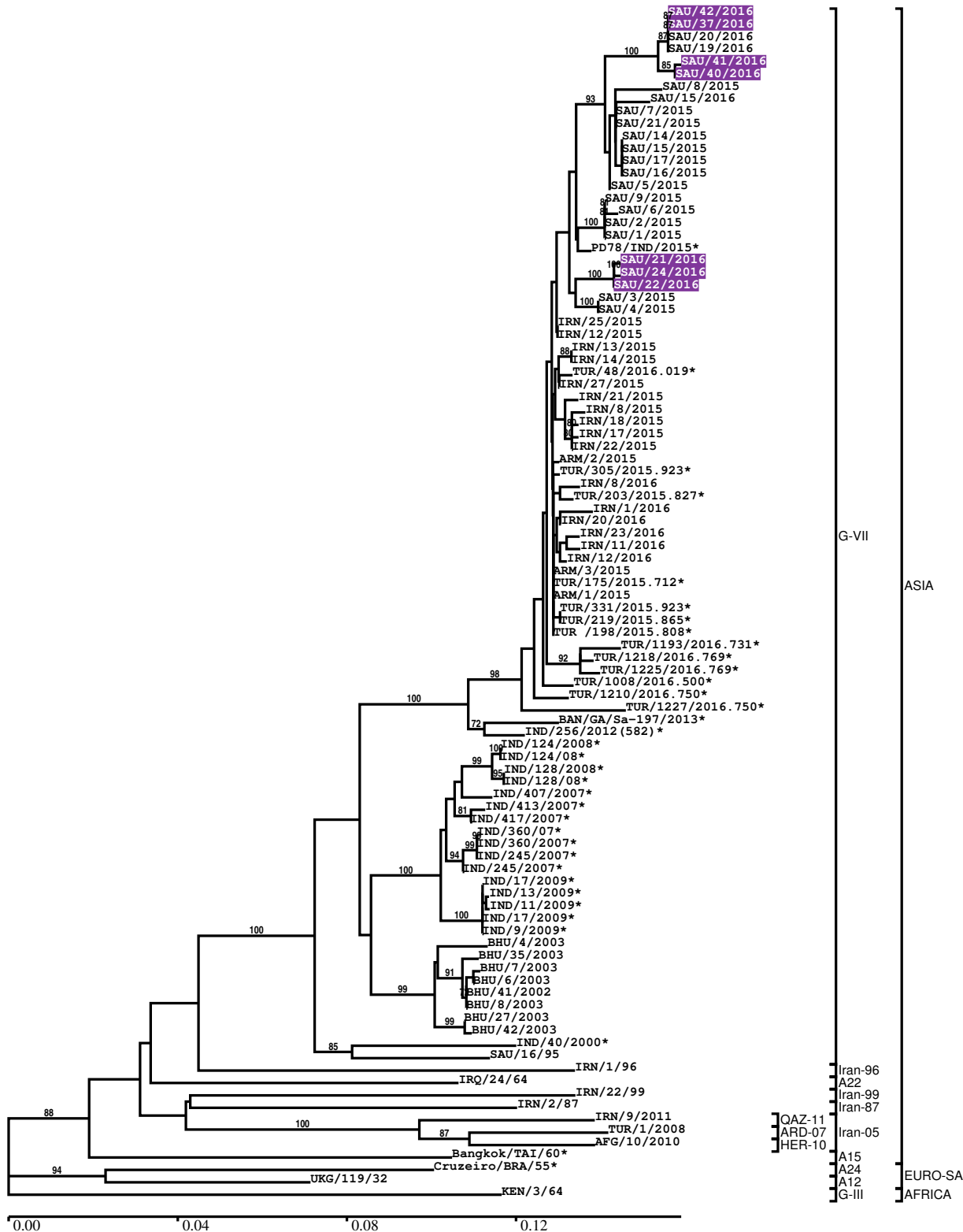
Most Closely Related Prototype Sequences

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

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_864	IND/40/2000	cattle	89.5	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.2	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.1	0	A	ASIA	A22	
viba_589	Bangkok/TAI/60		83.3	0	A	ASIA	A15	
viba_336	IRN/1/96	bovine	83.0	1	A	ASIA	Iran-96	
viba_308	IRN/9/2011	bovine	82.3	0	A	ASIA	Iran-05	QAZ-11
viba_682	IRN/2/87	bovine	82.0	0	A	ASIA	Iran-87	
viba_403	TUR/1/2008	cattle	81.8	0	A	ASIA	Iran-05	ARD-07
viba_331	AFG/10/2010		81.8	0	A	ASIA	Iran-05	HER-10
viba_699	UKG/119/32		81.8	0	A	EURO-SA	A12	

Report on FMDV A in Saudi Arabia in 2016

Batch: WRLFMD/2017/00002



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor:	vp1_A
Query sequence set:	WRLFMD/2017/00002-Saudi Arabia-A (7 sequences)
Sequence database set:	allseqs_A (1614 sequences)
Prototype sequence set:	!prototypes_A (34 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:	master-1.1.0-17-gf69a4d1

Sequences in the Phylogenetic Tree

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

label	accession	host(s)	lab	country	taxonomic information
SAU/42/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/37/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/20/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/19/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/41/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/40/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/8/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/15/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/7/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/21/2015	n/a	bovine	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/14/2015	n/a	ovine	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/15/2015	n/a	ovine	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/17/2015	n/a	ovine	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/16/2015	n/a	ovine	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/5/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/9/2015	n/a	bovine	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/6/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/2/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/1/2015	KU127247	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
PD78/IND/2015*	n/a	n/a	PD-FMD	India	ASIA/G-VII
SAU/21/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/24/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/22/2016	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/3/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
SAU/4/2015	n/a	cattle	WRLFMD	Saudi Arabia	ASIA/G-VII
IRN/25/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/12/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/13/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/14/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
TUR/48/2016.019*	n/a	sheep	FMDI	Turkey	ASIA/G-VII
IRN/27/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/21/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/8/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/18/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/17/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/22/2015	n/a	cattle	WRLFMD	Iran	ASIA/G-VII

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label	accession	host(s)	lab	country	taxonomic information
ARM/2/2015	n/a	cattle	ARRIAH	Armenia	ASIA/G-VII
TUR/305/2015.923*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
IRN/8/2016	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
TUR/203/2015.827*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
IRN/1/2016	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/20/2016	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/23/2016	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/11/2016	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/12/2016	n/a	cattle	WRLFMD	Iran	ASIA/G-VII
ARM/3/2015	n/a	cattle	ARRIAH	Armenia	ASIA/G-VII
TUR/175/2015.712*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
ARM/1/2015	n/a	cattle	ARRIAH	Armenia	ASIA/G-VII
TUR/331/2015.923*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/219/2015.865*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR /198/2015.808*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1193/2016.731*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1218/2016.769*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1225/2016.769*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1008/2016.500*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1210/2016.750*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1227/2016.750*	n/a	cattle	FMDI	Turkey	ASIA/G-VII
BAN/GA/Sa-197/2013*	KJ754939	cattle	University of Dhaka	Bangladesh	ASIA/G-VII
IND/256/2012(582)*	n/a	n/a	PD-FMD	India	ASIA/G-VII
IND/124/2008*	HQ127711	cattle	PD-FMD	India	ASIA/G-VII
IND/124/08*	FJ617244	bovine	PD-FMD	India	ASIA/G-VII
IND/128/2008*	HQ127712	cattle	PD-FMD	India	ASIA/G-VII
IND/128/08*	FJ617246	bovine	PD-FMD	India	ASIA/G-VII
IND/407/2007*	HQ127706	cattle	PD-FMD	India	ASIA/G-VII
IND/413/2007*	HQ127707	cattle	PD-FMD	India	ASIA/G-VII
IND/417/2007*	HQ127708	cattle	PD-FMD	India	ASIA/G-VII
IND/360/07*	FJ617243	bovine	PD-FMD	India	ASIA/G-VII
IND/360/2007*	HQ127705	cattle	PD-FMD	India	ASIA/G-VII
IND/245/2007*	HQ832590	cattle	PD-FMD	India	ASIA/G-VII
IND/245/2007*	HQ127704	cattle	PD-FMD	India	ASIA/G-VII
IND/17/2009*	HQ127719	cattle	PD-FMD	India	ASIA/G-VII
IND/13/2009*	HQ127718	cattle	PD-FMD	India	ASIA/G-VII
IND/11/2009*	HQ127717	cattle	PD-FMD	India	ASIA/G-VII
IND/17/2009*	HQ832592	cattle	PD-FMD	India	ASIA/G-VII
IND/9/2009*	HQ127716	cattle	PD-FMD	India	ASIA/G-VII
BHU/4/2003	n/a	n/a	WRLFMD	Bhutan	ASIA/G-VII
BHU/35/2003	n/a	n/a	WRLFMD	Bhutan	ASIA/G-VII
BHU/7/2003	FJ755012	cattle	WRLFMD	Bhutan	ASIA/G-VII
BHU/6/2003	n/a	n/a	WRLFMD	Bhutan	ASIA/G-VII
BHU/41/2002	EU414525	bovine	WRLFMD	Bhutan	ASIA/G-VII
BHU/8/2003	n/a	n/a	WRLFMD	Bhutan	ASIA/G-VII
BHU/27/2003	FJ755013	cattle	WRLFMD	Bhutan	ASIA/G-VII
BHU/42/2003	n/a	n/a	WRLFMD	Bhutan	ASIA/G-VII
IND/40/2000*	AF390646	cattle	PD-FMD	India	ASIA/G-VII
SAU/16/95	EU553874	n/a	WRLFMD	Saudi Arabia	ASIA/G-VII
IRN/1/96	EF208771	bovine	WRLFMD	Iran	ASIA/Iran-96
IRQ/24/64	AY593763	bovine	PIADC	Iraq	ASIA/A22
IRN/22/99	EF208772	n/a	WRLFMD	Iran	ASIA/Iran-99
IRN/2/87	EF208770	bovine	WRLFMD	Iran	ASIA/Iran-87
IRN/9/2011	KY091295	bovine	WRLFMD	Iran	ASIA/Iran-05/QAZ-11
TUR/1/2008	FJ755133	cattle	WRLFMD	Turkey	ASIA/Iran-05/ARD-07
AFG/10/2010	KY091293	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
Bangkok/TAI/60*	AY593755	n/a	PIADC	Thailand	ASIA/A15
Cruzeiro/BRA/55*	AY593768	bovine	PIADC	Brazil	EURO-SA/A24
UKG/119/32	M10975	n/a	PIADC	United Kingdom	EURO-SA/A12
KEN/3/64	AY593761	n/a	PIADC	Kenya	AFRICA/G-III

*, not a WRLFMD Reference Number

n/a, not available