

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

Genotyping Report

FMDV serotype: A
Country: Turkey
Year: 2016
Batch: WRLMEG/2020/00024
No. of sequences: 13
Report date: 24th August 2020
Report generated by: Nick Knowles
Report checked by: Antonello Di Nardo



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Virus sample name:	TUR/43/2016.019
Sender reference:	A/TUR/43/2016.019
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	06/01/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45267, genome 45268, sequence viba_45269, sequencing info 45270	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45252	TUR/569/2015.962	cattle	99.8	0	A	ASIA	G-VII	
viba_45248	TUR/565/2015.962	cattle	99.8	0	A	ASIA	G-VII	
viba_25144	ARM/3/2015	cattle	99.7	0	A	ASIA	G-VII	
viba_45273	TUR/65/2016.038	cattle	99.7	0	A	ASIA	G-VII	
viba_45220	TUR/214/2015.865	cattle	99.7	0	A	ASIA	G-VII	
viba_32136	TUR/175/2015.712	cattle	99.7	0	A	ASIA	G-VII	
viba_45236	TUR/267/2015.904	cattle	99.7	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	99.7	0	A	ASIA	G-VII	
viba_32140	TUR/198/2015.808	cattle	99.7	0	A	ASIA	G-VII	
viba_45240	TUR/231/2015.904	cattle	99.7	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	90.3	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.8	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.7	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	84.6	0	A	ASIA	A22	
viba_682	IRN/2/87	bovine	82.9	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		82.9	0	A	EURO-SA	A12	
viba_20943	IRN/27/2013	cattle	82.8	0	A	ASIA	Iran-05	SIS-13
viba_589	Bangkok/TAI/60		82.5	0	A	ASIA	A15	
viba_403	TUR/1/2008	cattle	82.3	0	A	ASIA	Iran-05	ARD-07
viba_34671	BAL/PAK/05/2011	cattle	82.2	0	A	ASIA	Iran-05	BAL-11

Virus sample name:	TUR/65/2016.038
Sender reference:	A/TUR/65/2016.038
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	13/01/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020

VIBASys IDs: sample 45271, genome 45272, sequence viba_45273, sequencing info 45274

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_25144	ARM/3/2015	cattle	100.0	0	A	ASIA	G-VII	
viba_45220	TUR/214/2015.865	cattle	100.0	0	A	ASIA	G-VII	
viba_32136	TUR/175/2015.712	cattle	100.0	0	A	ASIA	G-VII	
viba_45236	TUR/267/2015.904	cattle	100.0	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	100.0	0	A	ASIA	G-VII	
viba_32140	TUR/198/2015.808	cattle	100.0	0	A	ASIA	G-VII	
viba_45240	TUR/231/2015.904	cattle	100.0	0	A	ASIA	G-VII	
viba_45216	TUR/209/2015.865	cattle	99.8	0	A	ASIA	G-VII	
viba_45256	TUR/679/2015.981	cattle	99.8	0	A	ASIA	G-VII	
viba_25858	IRN/27/2015	cattle	99.8	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	90.6	0	A	ASIA	G-VII	
viba_843	SAU/16/95		90.1	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.7	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	84.6	0	A	ASIA	A22	
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_20943	IRN/27/2013	cattle	82.8	0	A	ASIA	Iran-05	SIS-13
viba_308	IRN/9/2011	bovine	82.4	0	A	ASIA	Iran-05	QAZ-11
viba_414	AFG/6/2007	bovine	82.3	0	A	ASIA	Iran-05	AFG-07
viba_594	IRN/1/2011	bovine	82.3	0	A	ASIA	Iran-05	FAR-11

Virus sample name:	TUR/1198/2016.731
Sender reference:	A/TUR/1198/2016.731
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	23/09/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45275, genome 45276, sequence viba_45277, sequencing info 45278	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_25144	ARM/3/2015	cattle	99.1	0	A	ASIA	G-VII	
viba_45273	TUR/65/2016.038	cattle	99.1	0	A	ASIA	G-VII	
viba_45220	TUR/214/2015.865	cattle	99.1	0	A	ASIA	G-VII	
viba_32136	TUR/175/2015.712	cattle	99.1	0	A	ASIA	G-VII	
viba_45236	TUR/267/2015.904	cattle	99.1	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	99.1	0	A	ASIA	G-VII	
viba_32140	TUR/198/2015.808	cattle	99.1	0	A	ASIA	G-VII	
viba_45240	TUR/231/2015.904	cattle	99.1	0	A	ASIA	G-VII	
viba_45216	TUR/209/2015.865	cattle	98.9	0	A	ASIA	G-VII	
viba_45256	TUR/679/2015.981	cattle	98.9	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.6	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.5	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.4	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	84.1	0	A	ASIA	A22	
viba_699	UKG/119/32		83.2	0	A	EURO-SA	A12	
viba_682	IRN/2/87	bovine	82.7	0	A	ASIA	Iran-87	
viba_20943	IRN/27/2013	cattle	82.5	0	A	ASIA	Iran-05	SIS-13
viba_308	IRN/9/2011	bovine	82.1	0	A	ASIA	Iran-05	QAZ-11
viba_594	IRN/1/2011	bovine	82.0	0	A	ASIA	Iran-05	FAR-11
viba_403	TUR/1/2008	cattle	81.9	0	A	ASIA	Iran-05	ARD-07

Virus sample name:	TUR/1200/2016.731
Sender reference:	A/TUR/1200/2016.731
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	23/09/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45279, genome 45280, sequence viba_45281, sequencing info 45282	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45289	TUR/1223/2016.769	cattle	99.5	0	A	ASIA	G-VII	
viba_30930	TUR/1193/2016.731	cattle	99.1	0	A	ASIA	G-VII	
viba_45317	TUR/16 vaccine	cattle	99.1	0	A	ASIA	G-VII	
viba_45309	TUR/1370/2016.981	cattle	98.7	0	A	ASIA	G-VII	
viba_45285	TUR/1222/2016.769	cattle	98.4	0	A	ASIA	G-VII	
viba_32168	TUR/1218/2016.769	cattle	98.4	0	A	ASIA	G-VII	
viba_41735	TUR/1/2016	cattle	98.4	0	A	ASIA	G-VII	
viba_32172	TUR/1225/2016.769	cattle	98.3	0	A	ASIA	G-VII	
viba_45264	TUR/15 vaccine	cattle	98.3	0	A	ASIA	G-VII	
viba_45390	TUR/257/2017.462	cattle	98.3	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.2	0	A	ASIA	G-VII	
viba_843	SAU/16/95		88.5	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	83.7	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	83.4	1	A	ASIA	Iran-96	
viba_682	IRN/2/87	bovine	82.8	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		81.9	0	A	EURO-SA	A12	
viba_20943	IRN/27/2013	cattle	81.6	0	A	ASIA	Iran-05	SIS-13
viba_589	Bangkok/TAI/60		81.5	0	A	ASIA	A15	
viba_557	IRN/15/2012	bovine	81.2	0	A	ASIA	Iran-05	SIS-12
viba_594	IRN/1/2011	bovine	81.0	0	A	ASIA	Iran-05	FAR-11

Virus sample name:	TUR/1222/2016.769
Sender reference:	A/TUR/1222/2016.769
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	07/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45283, genome 45284, sequence viba_45285, sequencing info 45286	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_41735	TUR/1/2016	cattle	100.0	0	A	ASIA	G-VII	
viba_32168	TUR/1218/2016.769	cattle	99.7	0	A	ASIA	G-VII	
viba_32172	TUR/1225/2016.769	cattle	99.2	0	A	ASIA	G-VII	
viba_45264	TUR/15 vaccine	cattle	99.2	0	A	ASIA	G-VII	
viba_45390	TUR/257/2017.462	cattle	99.2	0	A	ASIA	G-VII	
viba_45342	TUR/75/2017.096	cattle	98.9	0	A	ASIA	G-VII	
viba_32148	TUR/305/2015.923	cattle	98.9	0	A	ASIA	G-VII	
viba_45297	TUR/1254/2016.788	cattle	98.9	0	A	ASIA	G-VII	
viba_45398	TUR/310/2017.615	cattle	98.9	0	A	ASIA	G-VII	
viba_41743	TUR/6/2017	cattle	98.9	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	90.0	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.5	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.2	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	84.2	1	A	ASIA	Iran-96	
viba_682	IRN/2/87	bovine	82.9	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		82.9	0	A	EURO-SA	A12	
viba_20943	IRN/27/2013	cattle	82.3	0	A	ASIA	Iran-05	SIS-13
viba_594	IRN/1/2011	bovine	81.9	0	A	ASIA	Iran-05	FAR-11
viba_13615	IRN/134/2010	cattle	81.9	0	A	ASIA	Iran-05	HER-10
viba_403	TUR/1/2008	cattle	81.7	0	A	ASIA	Iran-05	ARD-07

Virus sample name:	TUR/1223/2016.769
Sender reference:	A/TUR/1223/2016.769
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	07/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45287, genome 45288, sequence viba_45289, sequencing info 45290	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45281	TUR/1200/2016.731	cattle	99.5	0	A	ASIA	G-VII	
viba_30930	TUR/1193/2016.731	cattle	99.5	0	A	ASIA	G-VII	
viba_45317	TUR/16 vaccine	cattle	99.5	0	A	ASIA	G-VII	
viba_45309	TUR/1370/2016.981	cattle	99.2	0	A	ASIA	G-VII	
viba_45285	TUR/1222/2016.769	cattle	98.9	0	A	ASIA	G-VII	
viba_32168	TUR/1218/2016.769	cattle	98.9	0	A	ASIA	G-VII	
viba_41735	TUR/1/2016	cattle	98.9	0	A	ASIA	G-VII	
viba_32172	TUR/1225/2016.769	cattle	98.7	0	A	ASIA	G-VII	
viba_45264	TUR/15 vaccine	cattle	98.7	0	A	ASIA	G-VII	
viba_45390	TUR/257/2017.462	cattle	98.7	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.5	0	A	ASIA	G-VII	
viba_843	SAU/16/95		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	83.8	1	A	ASIA	Iran-96	
viba_682	IRN/2/87	bovine	83.3	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		82.2	0	A	EURO-SA	A12	
viba_20943	IRN/27/2013	cattle	81.9	0	A	ASIA	Iran-05	SIS-13
viba_589	Bangkok/TAI/60		81.8	0	A	ASIA	A15	
viba_594	IRN/1/2011	bovine	81.5	0	A	ASIA	Iran-05	FAR-11
viba_13615	IRN/134/2010	cattle	81.5	0	A	ASIA	Iran-05	HER-10

Virus sample name:	TUR/1230/2016.769
Sender reference:	A/TUR/1230/2016.769
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	07/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45291, genome 45292, sequence viba_45293, sequencing info 45294	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45301	TUR/1261/2016.808	cattle	99.8	0	A	ASIA	G-VII	
viba_45260	TUR/657/2015.981	cattle	99.4	0	A	ASIA	G-VII	
viba_25144	ARM/3/2015	cattle	99.2	0	A	ASIA	G-VII	
viba_45273	TUR/65/2016.038	cattle	99.2	0	A	ASIA	G-VII	
viba_45220	TUR/214/2015.865	cattle	99.2	0	A	ASIA	G-VII	
viba_32136	TUR/175/2015.712	cattle	99.2	0	A	ASIA	G-VII	
viba_45236	TUR/267/2015.904	cattle	99.2	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	99.2	0	A	ASIA	G-VII	
viba_32140	TUR/198/2015.808	cattle	99.2	0	A	ASIA	G-VII	
viba_45240	TUR/231/2015.904	cattle	99.2	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	90.4	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.9	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.6	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	84.2	0	A	ASIA	A22	
viba_682	IRN/2/87	bovine	82.4	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		82.3	0	A	EURO-SA	A12	
viba_319	BAR/6/2008	bovine	82.0	0	A	ASIA	Iran-05	BAR-08
viba_475	IRN/22/99		81.8	0	A	ASIA	Iran-99	
viba_20943	IRN/27/2013	cattle	81.8	0	A	ASIA	Iran-05	SIS-13
viba_308	IRN/9/2011	bovine	81.8	0	A	ASIA	Iran-05	QAZ-11

Virus sample name:	TUR/1254/2016.788
Sender reference:	A/TUR/1254/2016.788
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	14/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45295, genome 45296, sequence viba_45297, sequencing info 45298	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_32172	TUR/1225/2016.769	cattle	99.7	0	A	ASIA	G-VII	
viba_45390	TUR/257/2017.462	cattle	99.7	0	A	ASIA	G-VII	
viba_45285	TUR/1222/2016.769	cattle	98.9	0	A	ASIA	G-VII	
viba_32168	TUR/1218/2016.769	cattle	98.9	0	A	ASIA	G-VII	
viba_41735	TUR/1/2016	cattle	98.9	0	A	ASIA	G-VII	
viba_45264	TUR/15 vaccine	cattle	98.7	0	A	ASIA	G-VII	
viba_45342	TUR/75/2017.096	cattle	98.4	0	A	ASIA	G-VII	
viba_45289	TUR/1223/2016.769	cattle	98.4	0	A	ASIA	G-VII	
viba_25144	ARM/3/2015	cattle	98.3	0	A	ASIA	G-VII	
viba_45273	TUR/65/2016.038	cattle	98.3	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	90.6	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.6	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	85.2	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	84.6	1	A	ASIA	Iran-96	
viba_682	IRN/2/87	bovine	83.2	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		83.2	0	A	EURO-SA	A12	
viba_20943	IRN/27/2013	cattle	82.9	0	A	ASIA	Iran-05	SIS-13
viba_594	IRN/1/2011	bovine	82.5	0	A	ASIA	Iran-05	FAR-11
viba_13615	IRN/134/2010	cattle	82.3	0	A	ASIA	Iran-05	HER-10
viba_414	AFG/6/2007	bovine	82.2	0	A	ASIA	Iran-05	AFG-07

Virus sample name:	TUR/1261/2016.808
Sender reference:	A/TUR/1261/2016.808
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	21/10/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45299, genome 45300, sequence viba_45301, sequencing info 45302	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45293	TUR/1230/2016.769	cattle	99.8	0	A	ASIA	G-VII	
viba_45260	TUR/657/2015.981	cattle	99.2	0	A	ASIA	G-VII	
viba_25144	ARM/3/2015	cattle	99.1	0	A	ASIA	G-VII	
viba_45273	TUR/65/2016.038	cattle	99.1	0	A	ASIA	G-VII	
viba_45220	TUR/214/2015.865	cattle	99.1	0	A	ASIA	G-VII	
viba_32136	TUR/175/2015.712	cattle	99.1	0	A	ASIA	G-VII	
viba_45236	TUR/267/2015.904	cattle	99.1	0	A	ASIA	G-VII	
viba_25136	ARM/1/2015	cattle	99.1	0	A	ASIA	G-VII	
viba_32140	TUR/198/2015.808	cattle	99.1	0	A	ASIA	G-VII	
viba_45240	TUR/231/2015.904	cattle	99.1	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	90.4	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.9	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.6	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	84.2	0	A	ASIA	A22	
viba_699	UKG/119/32		82.5	0	A	EURO-SA	A12	
viba_682	IRN/2/87	bovine	82.4	0	A	ASIA	Iran-87	
viba_319	BAR/6/2008	bovine	82.0	0	A	ASIA	Iran-05	BAR-08
viba_475	IRN/22/99		81.8	0	A	ASIA	Iran-99	
viba_20943	IRN/27/2013	cattle	81.8	0	A	ASIA	Iran-05	SIS-13
viba_308	IRN/9/2011	bovine	81.8	0	A	ASIA	Iran-05	QAZ-11

Virus sample name:	TUR/1320/2016.885
Sender reference:	A/TUR/1320/2016.885
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	18/11/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45303, genome 45304, sequence viba_45305, sequencing info 45306	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45346	TUR/90/2017.096	cattle	99.8	0	A	ASIA	G-VII	
viba_45338	TUR/73/2017.077	cattle	99.7	0	A	ASIA	G-VII	
viba_45330	TUR/37/2017.038	cattle	99.7	0	A	ASIA	G-VII	
viba_45334	TUR/46/2017.058	cattle	99.7	0	A	ASIA	G-VII	
viba_45438	TUR/17 vaccine	cattle	99.7	0	A	ASIA	G-VII	
viba_45322	TUR/15/2017.019	cattle	99.7	0	A	ASIA	G-VII	
viba_45370	TUR/207/2017.192	cattle	99.5	0	A	ASIA	G-VII	
viba_45326	TUR/16/2017.019	cattle	99.5	0	A	ASIA	G-VII	
viba_45358	TUR/166/2017.192	cattle	99.5	0	A	ASIA	G-VII	
viba_45366	TUR/180/2017.192	cattle	99.5	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.7	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.0	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	83.8	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	83.6	1	A	ASIA	Iran-96	
viba_682	IRN/2/87	bovine	83.2	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		82.0	0	A	EURO-SA	A12	
viba_20943	IRN/27/2013	cattle	81.4	0	A	ASIA	Iran-05	SIS-13
viba_557	IRN/15/2012	bovine	81.3	0	A	ASIA	Iran-05	SIS-12
viba_98	Alem/ARG/81		81.1	0	A	EURO-SA	A81	
viba_13615	IRN/134/2010	cattle	81.1	0	A	ASIA	Iran-05	HER-10

Virus sample name:	TUR/1370/2016.981
Sender reference:	A/TUR/1370/2016.981
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	24/12/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45307, genome 45308, sequence viba_45309, sequencing info 45310	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_30930	TUR/1193/2016.731	cattle	99.7	0	A	ASIA	G-VII	
viba_45317	TUR/16 vaccine	cattle	99.7	0	A	ASIA	G-VII	
viba_45289	TUR/1223/2016.769	cattle	99.2	0	A	ASIA	G-VII	
viba_45281	TUR/1200/2016.731	cattle	98.7	0	A	ASIA	G-VII	
viba_45285	TUR/1222/2016.769	cattle	98.4	0	A	ASIA	G-VII	
viba_45394	TUR/301/2017.538	cattle	98.4	0	A	ASIA	G-VII	
viba_32168	TUR/1218/2016.769	cattle	98.4	0	A	ASIA	G-VII	
viba_41735	TUR/1/2016	cattle	98.4	0	A	ASIA	G-VII	
viba_32172	TUR/1225/2016.769	cattle	98.3	0	A	ASIA	G-VII	
viba_45264	TUR/15 vaccine	cattle	98.3	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.5	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.0	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.1	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	83.9	0	A	ASIA	A22	
viba_699	UKG/119/32		82.6	0	A	EURO-SA	A12	
viba_682	IRN/2/87	bovine	82.1	0	A	ASIA	Iran-87	
viba_20943	IRN/27/2013	cattle	81.8	0	A	ASIA	Iran-05	SIS-13
viba_594	IRN/1/2011	bovine	81.4	0	A	ASIA	Iran-05	FAR-11
viba_13615	IRN/134/2010	cattle	81.3	0	A	ASIA	Iran-05	HER-10
viba_791	IRN/125/2010	bovine	81.2	0	A	ASIA	Iran-05	SIS-10

Virus sample name:	TUR/1392/2016.999
Sender reference:	A/TUR/1392/2016.999
Location of origin:	n/a
Country of origin:	Turkey
Date of collection:	30/12/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45311, genome 45312, sequence viba_45313, sequencing info 45314	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_45438	TUR/17 vaccine	cattle	99.7	0	A	ASIA	G-VII	
viba_45322	TUR/15/2017.019	cattle	99.7	0	A	ASIA	G-VII	
viba_45326	TUR/16/2017.019	cattle	99.5	0	A	ASIA	G-VII	
viba_45366	TUR/180/2017.192	cattle	99.5	0	A	ASIA	G-VII	
viba_45346	TUR/90/2017.096	cattle	99.5	0	A	ASIA	G-VII	
viba_45338	TUR/73/2017.077	cattle	99.4	0	A	ASIA	G-VII	
viba_45330	TUR/37/2017.038	cattle	99.4	0	A	ASIA	G-VII	
viba_45382	TUR/236/2017.346	cattle	99.4	0	A	ASIA	G-VII	
viba_45305	TUR/1320/2016.885	cattle	99.4	0	A	ASIA	G-VII	
viba_45370	TUR/207/2017.192	cattle	99.2	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.6	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.2	0	A	ASIA	G-VII	
viba_677	IRQ/24/64	bovine	84.0	0	A	ASIA	A22	
viba_336	IRN/1/96	bovine	83.8	1	A	ASIA	Iran-96	
viba_682	IRN/2/87	bovine	83.0	0	A	ASIA	Iran-87	
viba_699	UKG/119/32		81.8	0	A	EURO-SA	A12	
viba_13615	IRN/134/2010	cattle	81.6	0	A	ASIA	Iran-05	HER-10
viba_20943	IRN/27/2013	cattle	81.3	0	A	ASIA	Iran-05	SIS-13
viba_557	IRN/15/2012	bovine	81.1	0	A	ASIA	Iran-05	SIS-12
viba_403	TUR/1/2008	cattle	80.9	0	A	ASIA	Iran-05	ARD-07

Virus sample name:	TUR/16 vaccine
Sender reference:	A/TUR/16
Location of origin:	Kastamonu province
Country of origin:	Turkey
Date of collection:	09/2016
Host species:	cattle
Serotype:	A
Topotype:	ASIA
Lineage:	G-VII
Sublineage:	
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	n/a
Harvest date of material:	n/a
Primers:	n/a
Received for sequencing:	n/a
Created:	24/08/2020
Last updated:	24/08/2020
VIBASys IDs: sample 45315, genome 45316, sequence viba_45317, sequencing info 45318	

Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_30930	TUR/1193/2016.731	cattle	100.0	0	A	ASIA	G-VII	
viba_45309	TUR/1370/2016.981	cattle	99.7	0	A	ASIA	G-VII	
viba_45289	TUR/1223/2016.769	cattle	99.5	0	A	ASIA	G-VII	
viba_45281	TUR/1200/2016.731	cattle	99.1	0	A	ASIA	G-VII	
viba_45285	TUR/1222/2016.769	cattle	98.7	0	A	ASIA	G-VII	
viba_45394	TUR/301/2017.538	cattle	98.7	0	A	ASIA	G-VII	
viba_32168	TUR/1218/2016.769	cattle	98.7	0	A	ASIA	G-VII	
viba_41735	TUR/1/2016	cattle	98.7	0	A	ASIA	G-VII	
viba_32172	TUR/1225/2016.769	cattle	98.6	0	A	ASIA	G-VII	
viba_45264	TUR/15 vaccine	cattle	98.6	0	A	ASIA	G-VII	

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_864	IND/40/2000	cattle	89.5	0	A	ASIA	G-VII	
viba_843	SAU/16/95		89.0	0	A	ASIA	G-VII	
viba_336	IRN/1/96	bovine	84.1	1	A	ASIA	Iran-96	
viba_677	IRQ/24/64	bovine	83.9	0	A	ASIA	A22	
viba_699	UKG/119/32		82.8	0	A	EURO-SA	A12	
viba_682	IRN/2/87	bovine	82.3	0	A	ASIA	Iran-87	
viba_20943	IRN/27/2013	cattle	81.9	0	A	ASIA	Iran-05	SIS-13
viba_594	IRN/1/2011	bovine	81.5	0	A	ASIA	Iran-05	FAR-11
viba_13615	IRN/134/2010	cattle	81.5	0	A	ASIA	Iran-05	HER-10
viba_403	TUR/1/2008	cattle	81.4	0	A	ASIA	Iran-05	ARD-07

Report on FMDV A in Turkey in 2016

Batch: WRLMEG/2020/00024



*, not a WRLFMD Reference Number

Analysis Parameters

VP1 subsequence extractor: vp1_A
 Query sequence set: WRLMEG/2020/00024-Turkey-A (13 sequences)
 Sequence database set: allseqs_A (2195 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: 19
 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
TUR/1320/2016.885*	MT681234	cattle	FMDI	Turkey	ASIA/G-VII
TUR/90/2017.096*	MT681250	cattle	FMDI	Turkey	ASIA/G-VII
TUR/396/2017.846*	MT681262	cattle	FMDI	Turkey	ASIA/G-VII
TUR/169/2017.192*	MT681253	cattle	FMDI	Turkey	ASIA/G-VII
TUR/207/2017.192*	MT681255	cattle	FMDI	Turkey	ASIA/G-VII
TUR/73/2017.077*	MT681249	cattle	FMDI	Turkey	ASIA/G-VII
TUR/37/2017.038*	MT681247	cattle	FMDI	Turkey	ASIA/G-VII
TUR/148/2017.154*	MT681251	cattle	FMDI	Turkey	ASIA/G-VII
TUR/166/2017.192*	MT681252	cattle	FMDI	Turkey	ASIA/G-VII
TUR/11/2017	n/a	cattle	WRLFMD	Turkey	ASIA/G-VII
TUR/363/2017.769*	MT681261	cattle	FMDI	Turkey	ASIA/G-VII
TUR/210/2017.250*	MT681256	cattle	FMDI	Turkey	ASIA/G-VII
TUR/46/2017.058*	MT681248	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1392/2016.999*	MT681244	cattle	FMDI	Turkey	ASIA/G-VII
TUR/16/2017.019*	MT681246	cattle	FMDI	Turkey	ASIA/G-VII
TUR/15/2017.019*	MT681245	cattle	FMDI	Turkey	ASIA/G-VII
TUR/17 vaccine*	MT681265	cattle	FMDI	Turkey	ASIA/G-VII
TUR/180/2017.192*	MT681254	cattle	FMDI	Turkey	ASIA/G-VII
TUR/236/2017.346*	MT681238	cattle	FMDI	Turkey	ASIA/G-VII
TUR/310/2017.615*	MT681258	cattle	FMDI	Turkey	ASIA/G-VII
TUR/6/2017	n/a	cattle	WRLFMD	Turkey	ASIA/G-VII
TUR/315/2017.615*	MT681260	cattle	FMDI	Turkey	ASIA/G-VII
TUR/312/2017.615*	MT681259	cattle	FMDI	Turkey	ASIA/G-VII
TUR/16 vaccine*	MT681264	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1370/2016.981*	MT681235	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1193/2016.731*	KY982329	cattle	FMDI	Turkey	ASIA/G-VII
TUR/301/2017.538*	MT681240	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1200/2016.731*	MT681230	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1223/2016.769*	MT681231	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1254/2016.788*	MT681233	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1225/2016.769*	KY982332	cattle	FMDI	Turkey	ASIA/G-VII
TUR/257/2017.462*	MT681239	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1222/2016.769*	MT681232	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1/2016	n/a	cattle	WRLFMD	Turkey	ASIA/G-VII
TUR/1218/2016.769*	KY982331	cattle	FMDI	Turkey	ASIA/G-VII
TUR/233/2017.308*	MT681257	cattle	FMDI	Turkey	ASIA/G-VII

continued on next page

label	accession	host(s)	lab	country	taxonomic information
TUR/75/2017.096*	MT681236	cattle	FMDI	Turkey	ASIA/G-VII
TUR/15 vaccine*	MT681263	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1198/2016.731*	MT681218	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1261/2016.808*	MT681210	cattle	FMDI	Turkey	ASIA/G-VII
TUR/1230/2016.769*	MT681224	cattle	FMDI	Turkey	ASIA/G-VII
TUR/657/2015.981*	MT681228	cattle	FMDI	Turkey	ASIA/G-VII
TUR/43/2016.019*	MT681213	cattle	FMDI	Turkey	ASIA/G-VII
TUR/569/2015.962*	MT681215	cattle	FMDI	Turkey	ASIA/G-VII
TUR/565/2015.962*	MT681214	cattle	FMDI	Turkey	ASIA/G-VII
TUR/65/2016.038*	MT681223	cattle	FMDI	Turkey	ASIA/G-VII
TUR/679/2015.981*	MT681211	cattle	FMDI	Turkey	ASIA/G-VII
TUR/248/2015.904*	MT681221	cattle	FMDI	Turkey	ASIA/G-VII
TUR/209/2015.865*	MT681212	cattle	FMDI	Turkey	ASIA/G-VII
TUR/175/2015.712*	KY982321	cattle	FMDI	Turkey	ASIA/G-VII
ARM/1/2015*	KY982279	cattle	ARRIAH	Armenia	ASIA/G-VII
IRN/20/2016	KY982296	cattle	WRLFMD	Iran	ASIA/G-VII
TUR/231/2015.904*	MT681229	cattle	FMDI	Turkey	ASIA/G-VII
TUR/305/2015.923*	KY982325	cattle	FMDI	Turkey	ASIA/G-VII
IRN/12/2016	KY982295	cattle	WRLFMD	Iran	ASIA/G-VII
TUR/198/2015.808*	KY982322	cattle	FMDI	Turkey	ASIA/G-VII
ARM/3/2015*	KY982281	cattle	ARRIAH	Armenia	ASIA/G-VII
TUR/331/2015.923*	KY982326	cattle	FMDI	Turkey	ASIA/G-VII
TUR/219/2015.865*	KY982324	cattle	FMDI	Turkey	ASIA/G-VII
TUR/214/2015.865*	MT681219	cattle	FMDI	Turkey	ASIA/G-VII
TUR/267/2015.904*	MT681226	cattle	FMDI	Turkey	ASIA/G-VII
IRN/25/2015	KY982290	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/12/2015	KY982283	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/13/2015	KY982284	cattle	WRLFMD	Iran	ASIA/G-VII
IRN/27/2015	KY982291	cattle	WRLFMD	Iran	ASIA/G-VII
TUR/243/2015.904*	MT681220	cattle	FMDI	Turkey	ASIA/G-VII
ARM/2/2015*	KY982280	cattle	ARRIAH	Armenia	ASIA/G-VII
TUR/274/2015.923*	MT681227	cattle	FMDI	Turkey	ASIA/G-VII
SAU/16/95	EU553874	n/a	WRLFMD	Saudi Arabia	ASIA/G-VII
IND/40/2000*	AF390646	cattle	PD-FMD	India	ASIA/G-VII
IRN/1/96	EF208771	bovine	WRLFMD	Iran	ASIA/Iran-96
IRN/22/99	EF208772	n/a	WRLFMD	Iran	ASIA/Iran-99
IRN/9/2011	KY091295	bovine	WRLFMD	Iran	ASIA/Iran-05/QAZ-11
IRN/27/2013	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/15/2012	KY091297	bovine	WRLFMD	Iran	ASIA/Iran-05/SIS-12
IRN/134/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/HER-10
IRN/1/2011	KY091292	bovine	WRLFMD	Iran	ASIA/Iran-05/FAR-11
IRN/125/2010	KY091296	bovine	WRLFMD	Iran	ASIA/Iran-05/SIS-10
AFG/6/2007	FJ755007	bovine	WRLFMD	Afghanistan	ASIA/Iran-05/AFG-07
BAR/6/2008	FJ755010	bovine	WRLFMD	Bahrain	ASIA/Iran-05/BAR-08
BAL/PAK/05/2011*	KT832824	cattle	Univ Malakand	Pakistan	ASIA/Iran-05/BAL-11
TUR/1/2008	FJ755133	cattle	WRLFMD	Turkey	ASIA/Iran-05/ARD-07
IRN/2/87	EF208770	bovine	WRLFMD	Iran	ASIA/Iran-87
IRQ/24/64	AY593763	bovine	PIADC	Iraq	ASIA/A22
Bangkok/TAI/60*	AY593755	n/a	PIADC	Thailand	ASIA/A15
Alem/ARG/81*	AJ306219	n/a	INTA-Argentina	Argentina	EURO-SA/A81
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