

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

## Genotyping Report

FMDV serotype: A  
Country: Afghanistan  
Year: 2017  
Batch: WRLFMD/2018/00012  
No. of sequences: 4  
Report date: 10th May 2018  
Report generated by: Nick Knowles  
Report checked by: Kasia Bankowska



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

email: [reporting@pirbright.ac.uk](mailto:reporting@pirbright.ac.uk)

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Virus sample name:	AFG/50/2017
Sender reference:	10835
Location of origin:	Kojagy, Sayed Khel, Parwan
Country of origin:	Afghanistan
Date of collection:	02/08/2017
Host species:	bovine
Serotype:	A
Topotype:	ASIA
Lineage:	Iran-05
Sublineage:	SIS-13
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	BTy1
Harvest date of material:	19/04/2018
Primers:	A-1C562F/EUR-2B52R; A-1C612F/EUR-2B52R
Received for sequencing:	02/05/2018
Created:	03/05/2018
Last updated:	03/05/2018
VIBASys IDs: sample 36557, genome 36558, sequence viba_36559, sequencing info 36560	

### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_36571	AFG/60/2017	bovine	100.0	0	A	ASIA	Iran-05	SIS-13
viba_36056	IRN/4/2018a	cattle	99.8	0	A	ASIA	Iran-05	SIS-13
viba_36032	IRN/6/2018	cattle	99.7	0	A	ASIA	Iran-05	SIS-13
viba_36048	IRN/23/2018	cattle	99.5	0	A	ASIA	Iran-05	SIS-13
viba_36060	IRN/4/2018b	cattle	99.5	0	A	ASIA	Iran-05	SIS-13
viba_36024	IRN/2/2018	cattle	99.1	0	A	ASIA	Iran-05	SIS-13
viba_34401	AFG/6/2017	cattle	97.0	0	A	ASIA	Iran-05	SIS-13
viba_34405	AFG/10/2017	cattle	96.8	0	A	ASIA	Iran-05	SIS-13
viba_34421	AFG/25/2017	cattle	96.8	0	A	ASIA	Iran-05	SIS-13
viba_34393	AFG/3/2017	cattle	96.8	0	A	ASIA	Iran-05	SIS-13

### Most Closely Related Prototype Sequences

see [http://www.wrlfmd.org/fmd\\_genotyping/prototypes.htm](http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_20943	IRN/27/2013	cattle	94.9	0	A	ASIA	Iran-05	SIS-13
viba_636	IRN/78/2009		91.9	0	A	ASIA	Iran-05	FAR-09
viba_331	AFG/10/2010		91.8	0	A	ASIA	Iran-05	HER-10
viba_414	AFG/6/2007	bovine	91.5	0	A	ASIA	Iran-05	AFG-07
viba_34671	BAL/PAK/05/2011	cattle	91.3	0	A	ASIA	Iran-05	BAL-11
viba_10508	PAK/7/2008	water buffalo	91.2	0	A	ASIA	Iran-05	SIN-08
viba_557	IRN/15/2012	bovine	90.8	0	A	ASIA	Iran-05	SIS-12
viba_594	IRN/1/2011	bovine	90.7	0	A	ASIA	Iran-05	FAR-11
viba_319	BAR/6/2008	bovine	90.5	0	A	ASIA	Iran-05	BAR-08
viba_34575	BAD/AFG/L2814/2009	cattle	90.3	0	A	ASIA	Iran-05	BAD-09

Virus sample name:	AFG/51/2017
Sender reference:	10722
Location of origin:	Guzara, Herat
Country of origin:	Afghanistan
Date of collection:	02/08/2017
Host species:	bovine
Serotype:	A
Topotype:	ASIA
Lineage:	Iran-05
Sublineage:	SIS-13
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	10% epi susp
Harvest date of material:	n/a
Primers:	FMD-3161F/FMD-4303R
Received for sequencing:	03/05/2018
Created:	04/05/2018
Last updated:	04/05/2018
VIBASys IDs: sample 36561, genome 36562, sequence viba_36563, sequencing info 36564	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_34401	AFG/6/2017	cattle	98.6	0	A	ASIA	Iran-05	SIS-13
viba_34405	AFG/10/2017	cattle	98.4	0	A	ASIA	Iran-05	SIS-13
viba_34421	AFG/25/2017	cattle	98.4	0	A	ASIA	Iran-05	SIS-13
viba_34393	AFG/3/2017	cattle	98.4	0	A	ASIA	Iran-05	SIS-13
viba_36567	AFG/58/2017	bovine	96.1	0	A	ASIA	Iran-05	SIS-13
viba_36571	AFG/60/2017	bovine	95.9	0	A	ASIA	Iran-05	SIS-13
viba_36559	AFG/50/2017	bovine	95.9	0	A	ASIA	Iran-05	SIS-13
viba_36032	IRN/6/2018	cattle	95.9	0	A	ASIA	Iran-05	SIS-13
viba_36060	IRN/4/2018b	cattle	95.7	0	A	ASIA	Iran-05	SIS-13
viba_36056	IRN/4/2018a	cattle	95.7	0	A	ASIA	Iran-05	SIS-13

#### Most Closely Related Prototype Sequences

see [http://www.wrlfmd.org/fmd\\_genotyping/prototypes.htm](http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_20943	IRN/27/2013	cattle	95.3	0	A	ASIA	Iran-05	SIS-13
viba_636	IRN/78/2009		92.9	0	A	ASIA	Iran-05	FAR-09
viba_414	AFG/6/2007	bovine	91.8	0	A	ASIA	Iran-05	AFG-07
viba_10508	PAK/7/2008	water buffalo	91.8	0	A	ASIA	Iran-05	SIN-08
viba_331	AFG/10/2010		91.3	0	A	ASIA	Iran-05	HER-10
viba_594	IRN/1/2011	bovine	90.8	0	A	ASIA	Iran-05	FAR-11
viba_319	BAR/6/2008	bovine	90.8	0	A	ASIA	Iran-05	BAR-08
viba_133	IRN/1/2005	cattle	90.5	0	A	ASIA	Iran-05	
viba_403	TUR/1/2008	cattle	90.4	0	A	ASIA	Iran-05	ARD-07
viba_34671	BAL/PAK/05/2011	cattle	90.4	0	A	ASIA	Iran-05	BAL-11

Virus sample name:	AFG/58/2017
Sender reference:	11293
Location of origin:	Dashet, Charkh, Logar
Country of origin:	Afghanistan
Date of collection:	19/10/2017
Host species:	bovine
Serotype:	A
Topotype:	ASIA
Lineage:	Iran-05
Sublineage:	SIS-13
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	10% epi susp
Harvest date of material:	n/a
Primers:	FMD-3161F/FMD-4303R
Received for sequencing:	03/05/2018
Created:	04/05/2018
Last updated:	04/05/2018
VIBASys IDs: sample 36565, genome 36566, sequence viba_36567, sequencing info 36568	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_36563	AFG/51/2017	bovine	96.1	0	A	ASIA	Iran-05	SIS-13
viba_34401	AFG/6/2017	cattle	95.6	0	A	ASIA	Iran-05	SIS-13
viba_34405	AFG/10/2017	cattle	95.4	0	A	ASIA	Iran-05	SIS-13
viba_34421	AFG/25/2017	cattle	95.4	0	A	ASIA	Iran-05	SIS-13
viba_34393	AFG/3/2017	cattle	95.4	0	A	ASIA	Iran-05	SIS-13
viba_36056	IRN/4/2018a	cattle	93.7	0	A	ASIA	Iran-05	SIS-13
viba_36048	IRN/23/2018	cattle	93.4	0	A	ASIA	Iran-05	SIS-13
viba_20947	IRN/28/2013	cattle	93.2	0	A	ASIA	Iran-05	SIS-13
viba_22454	PAK/14/2014	cattle	93.2	0	A	ASIA	Iran-05	SIS-13
viba_22410	PAK/10/2014	cattle	93.2	0	A	ASIA	Iran-05	SIS-13

#### Most Closely Related Prototype Sequences

see [http://www.wrlfmd.org/fmd\\_genotyping/prototypes.htm](http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_20943	IRN/27/2013	cattle	93.2	0	A	ASIA	Iran-05	SIS-13
viba_636	IRN/78/2009		90.5	0	A	ASIA	Iran-05	FAR-09
viba_414	AFG/6/2007	bovine	89.1	0	A	ASIA	Iran-05	AFG-07
viba_10508	PAK/7/2008	water buffalo	88.9	0	A	ASIA	Iran-05	SIN-08
viba_331	AFG/10/2010		88.9	0	A	ASIA	Iran-05	HER-10
viba_319	BAR/6/2008	bovine	88.5	0	A	ASIA	Iran-05	BAR-08
viba_594	IRN/1/2011	bovine	88.3	0	A	ASIA	Iran-05	FAR-11
viba_34671	BAL/PAK/05/2011	cattle	88.3	0	A	ASIA	Iran-05	BAL-11
viba_403	TUR/1/2008	cattle	88.0	0	A	ASIA	Iran-05	ARD-07
viba_133	IRN/1/2005	cattle	88.0	0	A	ASIA	Iran-05	

Virus sample name:	AFG/60/2017
Sender reference:	11300
Location of origin:	Rokha, Panjshir
Country of origin:	Afghanistan
Date of collection:	14/11/2017
Host species:	bovine
Serotype:	A
Topotype:	ASIA
Lineage:	Iran-05
Sublineage:	SIS-13
Sequence length:	633
Ambiguities:	0
Material submitted for sequencing:	10% epi susp
Harvest date of material:	n/a
Primers:	FMD-3161F/FMD-4303R
Received for sequencing:	03/05/2018
Created:	04/05/2018
Last updated:	04/05/2018
VIBASys IDs: sample 36569, genome 36570, sequence viba_36571, sequencing info 36572	

#### Most Closely Related Sequences

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_36559	AFG/50/2017	bovine	100.0	0	A	ASIA	Iran-05	SIS-13
viba_36056	IRN/4/2018a	cattle	99.8	0	A	ASIA	Iran-05	SIS-13
viba_36032	IRN/6/2018	cattle	99.7	0	A	ASIA	Iran-05	SIS-13
viba_36048	IRN/23/2018	cattle	99.5	0	A	ASIA	Iran-05	SIS-13
viba_36060	IRN/4/2018b	cattle	99.5	0	A	ASIA	Iran-05	SIS-13
viba_36024	IRN/2/2018	cattle	99.1	0	A	ASIA	Iran-05	SIS-13
viba_34401	AFG/6/2017	cattle	97.0	0	A	ASIA	Iran-05	SIS-13
viba_34405	AFG/10/2017	cattle	96.8	0	A	ASIA	Iran-05	SIS-13
viba_34421	AFG/25/2017	cattle	96.8	0	A	ASIA	Iran-05	SIS-13
viba_34393	AFG/3/2017	cattle	96.8	0	A	ASIA	Iran-05	SIS-13

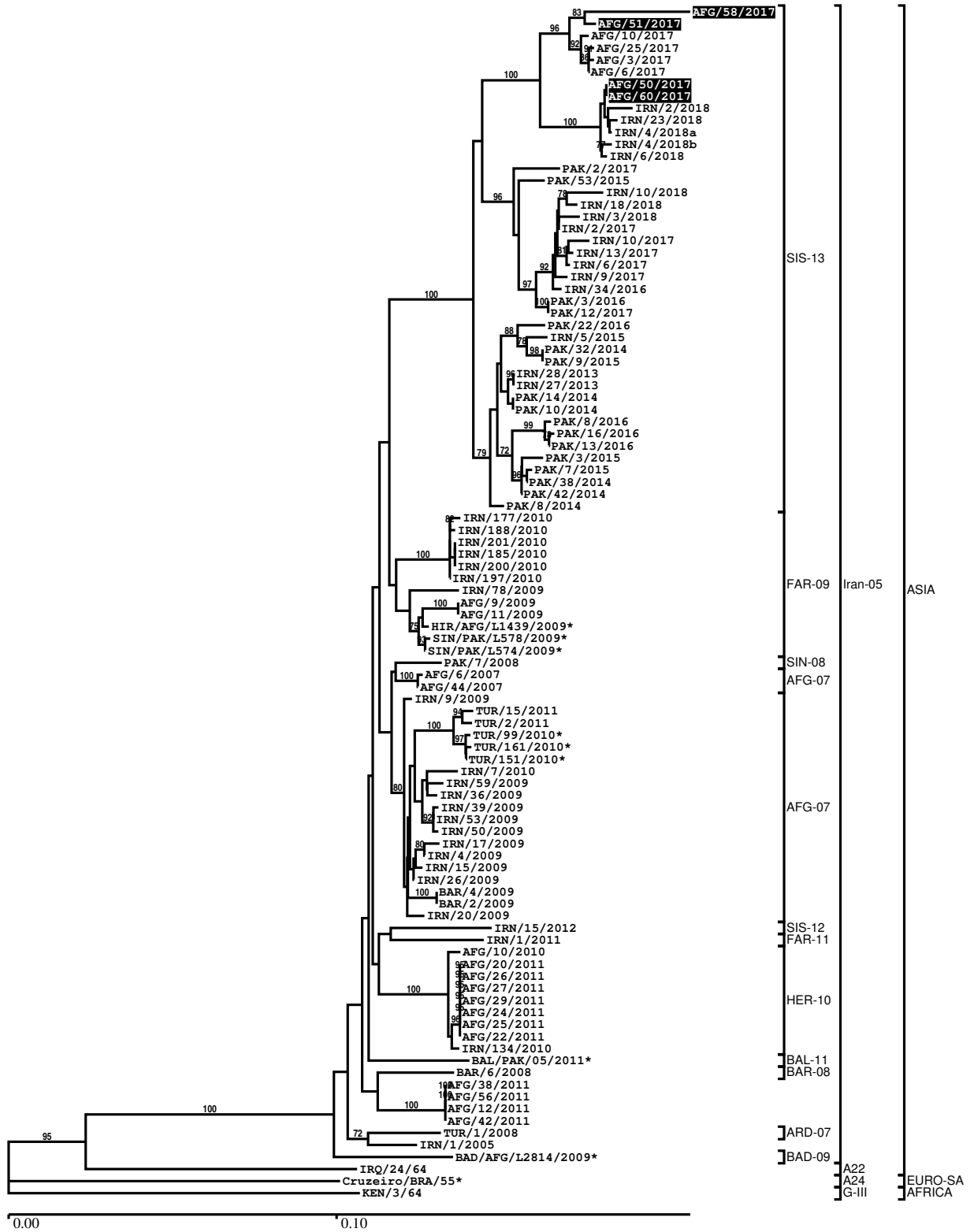
#### Most Closely Related Prototype Sequences

see [http://www.wrlfmd.org/fmd\\_genotyping/prototypes.htm](http://www.wrlfmd.org/fmd_genotyping/prototypes.htm)

sequence	virus name	Host	% Id.	# Ambig.	serotype	topotype	lineage	sublineage
viba_20943	IRN/27/2013	cattle	94.9	0	A	ASIA	Iran-05	SIS-13
viba_636	IRN/78/2009		91.9	0	A	ASIA	Iran-05	FAR-09
viba_331	AFG/10/2010		91.8	0	A	ASIA	Iran-05	HER-10
viba_414	AFG/6/2007	bovine	91.5	0	A	ASIA	Iran-05	AFG-07
viba_34671	BAL/PAK/05/2011	cattle	91.3	0	A	ASIA	Iran-05	BAL-11
viba_10508	PAK/7/2008	water buffalo	91.2	0	A	ASIA	Iran-05	SIN-08
viba_557	IRN/15/2012	bovine	90.8	0	A	ASIA	Iran-05	SIS-12
viba_594	IRN/1/2011	bovine	90.7	0	A	ASIA	Iran-05	FAR-11
viba_319	BAR/6/2008	bovine	90.5	0	A	ASIA	Iran-05	BAR-08
viba_34575	BAD/AFG/L2814/2009	cattle	90.3	0	A	ASIA	Iran-05	BAD-09

Report on FMDV A in Afghanistan in 2017

Batch: WRLFMD/2018/00012



\*, not a WRLFMD Reference Number

## Analysis Parameters

VP1 subsequence extractor:	vp1_A
Query sequence set:	WRLFMD/2018/00012-Afghanistan-A (4 sequences)
Sequence database set:	allseqs_A (1827 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:	12
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
AFG/58/2017	n/a	bovine	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/51/2017	n/a	bovine	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/10/2017	n/a	cattle	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/25/2017	n/a	cattle	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/3/2017	n/a	cattle	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/6/2017	n/a	cattle	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/50/2017	n/a	bovine	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
AFG/60/2017	n/a	bovine	WRLFMD	Afghanistan	ASIA/Iran-05/SIS-13
IRN/2/2018	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/23/2018	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/4/2018a	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/4/2018b	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/6/2018	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
PAK/2/2017	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/53/2015	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
IRN/10/2018	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/18/2018	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/3/2018	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/2/2017	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/10/2017	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/13/2017	n/a	sheep	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/6/2017	n/a	sheep	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/9/2017	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/34/2016	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
PAK/3/2016	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/12/2017	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/22/2016	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
IRN/5/2015	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
PAK/32/2014	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/9/2015	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
IRN/28/2013	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
IRN/27/2013	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/SIS-13
PAK/14/2014	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/10/2014	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/8/2016	n/a	water buffalo	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/16/2016	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13

*continued on next page*

label	accession	host(s)	lab	country	taxonomic information
PAK/13/2016	n/a	water buffalo	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/3/2015	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/7/2015	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/38/2014	n/a	cattle	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/42/2014	n/a	water buffalo	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
PAK/8/2014	n/a	water buffalo	WRLFMD	Pakistan	ASIA/Iran-05/SIS-13
IRN/177/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/FAR-09
IRN/188/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/FAR-09
IRN/201/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/FAR-09
IRN/185/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/FAR-09
IRN/200/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/FAR-09
IRN/197/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/FAR-09
IRN/78/2009	KY091291	n/a	WRLFMD	Iran	ASIA/Iran-05/FAR-09
AFG/9/2009	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/FAR-09
AFG/11/2009	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/FAR-09
HIR/AFG/L1439/2009*	HQ439278	cattle	LINDHOLM	Afghanistan	ASIA/Iran-05/FAR-09
SIN/PAK/L578/2009*	HQ439245	cattle	LINDHOLM	Pakistan	ASIA/Iran-05/FAR-09
SIN/PAK/L574/2009*	HQ439244	cattle	LINDHOLM	Pakistan	ASIA/Iran-05/FAR-09
PAK/7/2008	n/a	water buffalo	WRLFMD	Pakistan	ASIA/Iran-05/SIN-08
AFG/6/2007	FJ755007	bovine	WRLFMD	Afghanistan	ASIA/Iran-05/AFG-07
AFG/44/2007	FJ755009	cattle	WRLFMD	Afghanistan	ASIA/Iran-05/AFG-07
IRN/9/2009	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
TUR/15/2011	n/a	cattle	WRLFMD	Turkey	ASIA/Iran-05/AFG-07
TUR/2/2011	n/a	cattle	WRLFMD	Turkey	ASIA/Iran-05/AFG-07
TUR/99/2010*	n/a	n/a	FMDI-Ankara	Turkey	ASIA/Iran-05/AFG-07
TUR/161/2010*	n/a	n/a	FMDI-Ankara	Turkey	ASIA/Iran-05/AFG-07
TUR/151/2010*	n/a	n/a	FMDI-Ankara	Turkey	ASIA/Iran-05/AFG-07
IRN/7/2010	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/59/2009	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/36/2009	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/39/2009	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/53/2009	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/50/2009	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/17/2009	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/4/2009	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/15/2009	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/26/2009	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
BAR/4/2009	n/a	cattle	WRLFMD	Bahrain	ASIA/Iran-05/AFG-07
BAR/2/2009	n/a	cattle	WRLFMD	Bahrain	ASIA/Iran-05/AFG-07
IRN/20/2009	n/a	n/a	WRLFMD	Iran	ASIA/Iran-05/AFG-07
IRN/15/2012	KY091297	bovine	WRLFMD	Iran	ASIA/Iran-05/SIS-12
IRN/1/2011	KY091292	bovine	WRLFMD	Iran	ASIA/Iran-05/FAR-11
AFG/10/2010	KY091293	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/20/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/26/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/27/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/29/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/24/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/25/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
AFG/22/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05/HER-10
IRN/134/2010	n/a	cattle	WRLFMD	Iran	ASIA/Iran-05/HER-10
BAL/PAK/05/2011*	KT832824	cattle	Univ Malakand	Pakistan	ASIA/Iran-05/BAL-11
BAR/6/2008	FJ755010	bovine	WRLFMD	Bahrain	ASIA/Iran-05/BAR-08
AFG/38/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05
AFG/56/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05
AFG/12/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05
AFG/42/2011	n/a	n/a	WRLFMD	Afghanistan	ASIA/Iran-05
TUR/1/2008	FJ755133	cattle	WRLFMD	Turkey	ASIA/Iran-05/ARD-07
IRN/1/2005	EF208769	cattle	WRLFMD	Iran	ASIA/Iran-05
BAD/AFG/L2814/2009*	HQ439296	cattle	LINDHOLM	Afghanistan	ASIA/Iran-05/BAD-09
IRQ/24/64	AY593763	bovine	PIADC	Iraq	ASIA/A22
Cruzeiro/BRA/55*	AY593768	bovine	PIADC	Brazil	EURO-SA/A24
KEN/3/64	AY593761	n/a	PIADC	Kenya	AFRICA/G-III

\*, not a WRLFMD Reference Number  
n/a, not available