

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

## Genotyping Report

FMDV serotype: A  
Country: Thailand  
Year: 2018, 2019  
Batch: WRLFMD/2019/00030  
No. of sequences: 16  
Report date: 23rd September 2019  
Report generated by: Nick Knowles  
Report checked by: Jemma Wadsworth



Copyright © 2019 The Pirbright Institute, Ash Road, Pirbright, Woking GU24 0NF, United Kingdom.

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

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

The contents of this report should not be reproduced without permission.

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/6/2018                              |
| Sender reference:                  | 106/18                                  |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 01/11/2018                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 14/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42772, genome 42773, sequence viba\_42774, sequencing info 42775

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|   |   |
|---|---|
| Virus sample name:  | TAI/7/2018                              |
| Sender reference:   | 109/18                                  |
| Location of origin:   | Ratchaburi                              |
| Country of origin:  | Thailand                                |
| Date of collection:   | 01/11/2018                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 14/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42776, genome 42777, sequence viba_42778, sequencing info 42779 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 85.8  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.7  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_682   | IRN/2/87           | bovine | 80.8  | 0        | A        | ASIA     | Iran-87 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 79.9  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_589   | Bangkok/TAI/60     |        | 79.8  | 0        | A        | ASIA     | A15     |            |

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/8/2018                              |
| Sender reference:                  | 114-1/18                                |
| Location of origin:                | Lumphon                                 |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 02/11/2018                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 14/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42780, genome 42781, sequence viba\_42782, sequencing info 42783

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.9  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 89.0  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.1  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 82.1  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.6  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.8  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.7  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.2  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 79.9  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_699   | UKG/119/32         |        | 79.7  | 0        | A        | EURO-SA  | A12     |            |

|   |   |
|---|---|
| Virus sample name:  | TAI/9/2018                              |
| Sender reference:   | 131/18                                  |
| Location of origin:   | Lumphon                                 |
| Country of origin:  | Thailand                                |
| Date of collection:   | 06/11/2018                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 14/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42784, genome 42785, sequence viba_42786, sequencing info 42787 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/10/2018                             |
| Sender reference:                  | 124/18                                  |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 07/11/2018                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 14/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42788, genome 42789, sequence viba\_42790, sequencing info 42791

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|   |   |
|---|---|
| Virus sample name:  | TAI/11/2018                             |
| Sender reference:   | 129/18                                  |
| Location of origin:   | Ratchaburi                              |
| Country of origin:  | Thailand                                |
| Date of collection:   | 12/11/2018                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 14/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42792, genome 42793, sequence viba_42794, sequencing info 42795 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|   |   |
|---|---|
| Virus sample name:  | TAI/16/2018   |
| Sender reference:   | 1/19  |
| Location of origin:   | Songkhla  |
| Country of origin:  | Thailand  |
| Date of collection:   | 25/12/2018  |
| Host species:   | cattle  |
| Serotype:   | A   |
| Topotype:   | ASIA  |
| Lineage:  | Sea-97  |
| Sublineage:   |   |
| Sequence length:  | 630   |
| Ambiguities:  | 0   |
| Material submitted for sequencing:  | BTy1  |
| Harvest date of material:   | 14/09/2019  |
| Primers:  | O-1C244F/EUR-2B52R; A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019  |
| Created:  | 23/09/2019  |
| Last updated:   | 23/09/2019  |
| VIBASys IDs: sample 42796, genome 42797, sequence viba_42798, sequencing info 42799 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |



|   |   |
|---|---|
| Virus sample name:  | TAI/17/2018                             |
| Sender reference:   | 15/19                                   |
| Location of origin:   | Prachuapkirikhan                        |
| Country of origin:  | Thailand                                |
| Date of collection:   | 26/12/2018                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 14/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42800, genome 42801, sequence viba_42802, sequencing info 42803 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|   |   |
|---|---|
| Virus sample name:  | TAI/1/2019                              |
| Sender reference:   | 6/19                                    |
| Location of origin:   | Nakhonratchasima                        |
| Country of origin:  | Thailand                                |
| Date of collection:   | 03/01/2019                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 12/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42804, genome 42805, sequence viba_42806, sequencing info 42807 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.9  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 85.8  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 82.0  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_336   | IRN/1/96           | bovine | 81.0  | 1        | A        | ASIA     | Iran-96 |            |
| viba_682   | IRN/2/87           | bovine | 81.0  | 0        | A        | ASIA     | Iran-87 |            |
| viba_843   | SAU/16/95          |        | 80.4  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.2  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.9  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|   |   |
|---|---|
| Virus sample name:  | TAI/2/2019                              |
| Sender reference:   | 7/19                                    |
| Location of origin:   | Nakhonratchasima                        |
| Country of origin:  | Thailand                                |
| Date of collection:   | 03/01/2019                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 12/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42808, genome 42809, sequence viba_42810, sequencing info 42811 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.4  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.1  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 82.1  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 82.0  | 0        | A        | ASIA     | G-VII   |            |
| viba_336   | IRN/1/96           | bovine | 81.1  | 1        | A        | ASIA     | Iran-96 |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_843   | SAU/16/95          |        | 80.8  | 0        | A        | ASIA     | G-VII   |            |
| viba_594   | IRN/1/2011         | bovine | 80.1  | 0        | A        | ASIA     | Iran-05 | FAR-11     |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/3/2019                              |
| Sender reference:                  | 8/19                                    |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 03/01/2019                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 12/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42812, genome 42813, sequence viba\_42814, sequencing info 42815

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/4/2019                              |
| Sender reference:                  | 9/19                                    |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 03/01/2019                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 12/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42816, genome 42817, sequence viba\_42818, sequencing info 42819

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 85.8  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.7  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.6  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.8  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.7  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.2  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 79.9  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_699   | UKG/119/32         |        | 79.7  | 0        | A        | EURO-SA  | A12     |            |

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/5/2019                              |
| Sender reference:                  | 10/19                                   |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 03/01/2019                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 12/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42820, genome 42821, sequence viba\_42822, sequencing info 42823

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|   |   |
|---|---|
| Virus sample name:  | TAI/6/2019                              |
| Sender reference:   | 12/19                                   |
| Location of origin:   | Nakhonratchasima                        |
| Country of origin:  | Thailand                                |
| Date of collection:   | 04/01/2019                              |
| Host species:   | cattle                                  |
| Serotype:   | A                                       |
| Topotype:   | ASIA                                    |
| Lineage:  | Sea-97                                  |
| Sublineage:   |   |
| Sequence length:  | 630                                     |
| Ambiguities:  | 0                                       |
| Material submitted for sequencing:  | BTy1                                    |
| Harvest date of material:   | 12/09/2019                              |
| Primers:  | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:  | 18/09/2019                              |
| Created:  | 23/09/2019                              |
| Last updated:   | 23/09/2019                              |
| VIBASys IDs: sample 42824, genome 42825, sequence viba_42826, sequencing info 42827 |   |

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |

|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/7/2019                              |
| Sender reference:                  | 13-1/19                                 |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 04/01/2019                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 12/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42828, genome 42829, sequence viba\_42830, sequencing info 42831

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 100.0 | 0        | A        | ASIA     | Sea-97  |            |
| viba_42778 | TAI/7/2018  | cattle | 99.8  | 0        | A        | ASIA     | Sea-97  |            |

#### 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_122   | TAI/7/2003         | bovine | 91.7  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.8  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 86.0  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.9  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.7  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 80.9  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.8  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.3  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 80.1  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_594   | IRN/1/2011         | bovine | 79.8  | 0        | A        | ASIA     | Iran-05 | FAR-11     |



|                                    |   |
|------------------------------------|---|
| Virus sample name:                 | TAI/8/2019                              |
| Sender reference:                  | 3/19                                    |
| Location of origin:                | Nakhonratchasima                        |
| Country of origin:                 | Thailand                                |
| Date of collection:                | 04/01/2019                              |
| Host species:                      | cattle                                  |
| Serotype:                          | A                                       |
| Topotype:                          | ASIA                                    |
| Lineage:                           | Sea-97                                  |
| Sublineage:                        |   |
| Sequence length:                   | 630                                     |
| Ambiguities:                       | 0                                       |
| Material submitted for sequencing: | BTy1                                    |
| Harvest date of material:          | 12/09/2019                              |
| Primers:                           | A-1C562F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:           | 18/09/2019                              |
| Created:                           | 23/09/2019                              |
| Last updated:                      | 23/09/2019                              |

VIBASys IDs: sample 42832, genome 42833, sequence viba\_42834, sequencing info 42835

#### Most Closely Related Sequences

| sequence   | virus name  | Host   | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_42822 | TAI/5/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42774 | TAI/6/2018  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42786 | TAI/9/2018  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42794 | TAI/11/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42830 | TAI/7/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42790 | TAI/10/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42826 | TAI/6/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42798 | TAI/16/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42802 | TAI/17/2018 | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |
| viba_42814 | TAI/3/2019  | cattle | 99.5  | 0        | A        | ASIA     | Sea-97  |            |

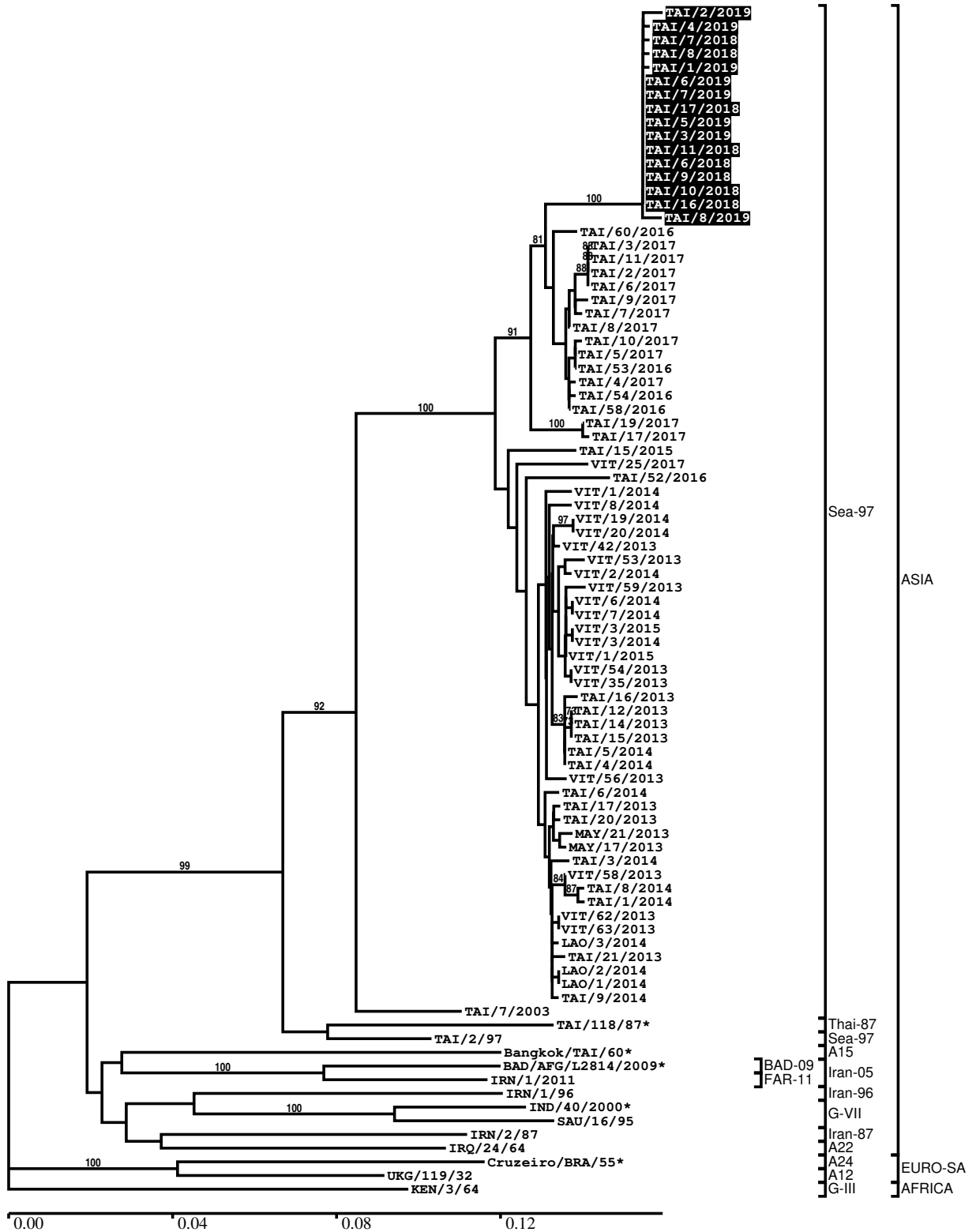
#### Most Closely Related Prototype Sequences

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_122   | TAI/7/2003         | bovine | 91.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_625   | TAI/2/97           |        | 88.6  | 0        | A        | ASIA     | Sea-97  |            |
| viba_630   | TAI/118/87         |        | 85.8  | 0        | A        | ASIA     | Thai-87 |            |
| viba_677   | IRQ/24/64          | bovine | 81.7  | 0        | A        | ASIA     | A22     |            |
| viba_864   | IND/40/2000        | cattle | 81.6  | 0        | A        | ASIA     | G-VII   |            |
| viba_682   | IRN/2/87           | bovine | 81.1  | 0        | A        | ASIA     | Iran-87 |            |
| viba_336   | IRN/1/96           | bovine | 80.7  | 1        | A        | ASIA     | Iran-96 |            |
| viba_843   | SAU/16/95          |        | 80.2  | 0        | A        | ASIA     | G-VII   |            |
| viba_34575 | BAD/AFG/L2814/2009 | cattle | 79.9  | 0        | A        | ASIA     | Iran-05 | BAD-09     |
| viba_699   | UKG/119/32         |        | 79.7  | 0        | A        | EURO-SA  | A12     |            |

Report on FMDV A in Thailand in 2018, 2019

Batch: WRLFMD/2019/00030



\*, not a WRLFMD Reference Number

## Analysis Parameters

|  |   |
|--|---|
| VP1 subsequence extractor:             | vp1_A                                       |
| Query sequence set:                    | WRLFMD/2019/00030-Thailand-A (16 sequences) |
| Sequence database set:                 | allseqs_A (2051 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 |
|-------------|-----------|---------------|--------|----------|-----------------------|
| TAI/2/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/4/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/7/2018  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/8/2018  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/1/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/6/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/7/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/17/2018 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/5/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/3/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/11/2018 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/6/2018  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/9/2018  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/10/2018 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/16/2018 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/8/2019  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/60/2016 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/3/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/11/2017 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/2/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/6/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/9/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/7/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/8/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/10/2017 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/5/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/53/2016 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/4/2017  | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/54/2016 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/58/2016 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/19/2017 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/17/2017 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| TAI/15/2015 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| VIT/25/2017 | n/a       | water buffalo | WRLFMD | Vietnam  | ASIA/Sea-97           |
| TAI/52/2016 | n/a       | cattle        | WRLFMD | Thailand | ASIA/Sea-97           |
| VIT/1/2014  | n/a       | cattle        | WRLFMD | Vietnam  | ASIA/Sea-97           |

*continued on next page*

| label               | accession | host(s)       | lab      | country        | taxonomic information |
|---------------------|-----------|---------------|----------|----------------|-----------------------|
| VIT/8/2014          | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/19/2014         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/20/2014         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/42/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/53/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/2/2014          | n/a       | water buffalo | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/59/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/6/2014          | n/a       | porcine       | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/7/2014          | n/a       | porcine       | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/3/2015          | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/3/2014          | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/1/2015          | n/a       | porcine       | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/54/2013         | n/a       | water buffalo | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/35/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| TAI/16/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/12/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/14/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/15/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/5/2014          | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/4/2014          | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| VIT/56/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| TAI/6/2014          | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/17/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/20/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| MAY/21/2013         | n/a       | cattle        | WRLFMD   | Malaysia       | ASIA/Sea-97           |
| MAY/17/2013         | n/a       | cattle        | WRLFMD   | Malaysia       | ASIA/Sea-97           |
| TAI/3/2014          | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| VIT/58/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| TAI/8/2014          | n/a       | water buffalo | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/1/2014          | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| VIT/62/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| VIT/63/2013         | n/a       | cattle        | WRLFMD   | Vietnam        | ASIA/Sea-97           |
| LAO/3/2014          | n/a       | cattle        | WRLFMD   | Laos           | ASIA/Sea-97           |
| TAI/21/2013         | n/a       | cattle        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| LAO/2/2014          | n/a       | cattle        | WRLFMD   | Laos           | ASIA/Sea-97           |
| LAO/1/2014          | n/a       | cattle        | WRLFMD   | Laos           | ASIA/Sea-97           |
| TAI/9/2014          | n/a       | water buffalo | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/7/2003          | HQ116312  | bovine        | WRLFMD   | Thailand       | ASIA/Sea-97           |
| TAI/118/87*         | EF208777  | n/a           | WRLFMD   | Thailand       | ASIA/Thai-87          |
| TAI/2/97            | EF208778  | n/a           | WRLFMD   | Thailand       | ASIA/Sea-97           |
| Bangkok/TAI/60*     | AY593755  | n/a           | PIADC    | Thailand       | ASIA/A15              |
| BAD/AFG/L2814/2009* | HQ439296  | cattle        | LINDHOLM | Afghanistan    | ASIA/Iran-05/BAD-09   |
| IRN/1/2011          | KY091292  | bovine        | WRLFMD   | Iran           | ASIA/Iran-05/FAR-11   |
| IRN/1/96            | EF208771  | bovine        | WRLFMD   | Iran           | ASIA/Iran-96          |
| IND/40/2000*        | AF390646  | cattle        | PD-FMD   | India          | ASIA/G-VII            |
| SAU/16/95           | EU553874  | n/a           | WRLFMD   | Saudi Arabia   | ASIA/G-VII            |
| IRN/2/87            | EF208770  | bovine        | WRLFMD   | Iran           | ASIA/Iran-87          |
| IRQ/24/64           | AY593763  | bovine        | PIADC    | Iraq           | ASIA/A22              |
| 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