

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

Genotyping Report

FMDV serotype: O
Country: Thailand
Year: 2022, 2023
Batch: WRLFMD/2023/000070
No. of sequences: 17
Report date: 26th September 2023
Report generated by: Nick Knowles
Report checked by: Jemma Wadsworth



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

email: reporting@pirbright.ac.uk

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| | |
|---|--|
| Virus sample name: | TAI/4/2022 |
| Sender reference: | 65B00085-0001 R3B4 |
| Location of origin: | Sila Loi, Sam Roi Yot, Prachuap Khiri Khan, Western Region |
| Country of origin: | Thailand |
| Date of collection: | 11/08/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54018, genome 54019, sequence viba_54020, sequencing info 54021 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54028 | TAI/6/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.1 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 98.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 98.9 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.6 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.3 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.4 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.7 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.9 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.5 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.4 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.2 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 86.9 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 86.9 | 0 | O | ME-SA | PanAsia | |

| | |
|---|---|
| Virus sample name: | TAI/5/2022 |
| Sender reference: | 65B00092-0001 R3B2 |
| Location of origin: | Lam Phaya Klang, Muak Lek, Saraburi, Central Region |
| Country of origin: | Thailand |
| Date of collection: | 17/08/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54022, genome 54023, sequence viba_54024, sequencing info 54025 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54036 | TAI/8/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.4 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.6 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.7 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.7 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.9 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.5 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.4 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.4 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.1 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.1 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|--|
| Virus sample name: | TAI/6/2022 |
| Sender reference: | 65B00093-0002 R3B6 |
| Location of origin: | Chai Rat, Bang Saphan Noi, Prachuap Khiri Khan, Western Region |
| Country of origin: | Thailand |
| Date of collection: | 18/08/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54026, genome 54027, sequence viba_54028, sequencing info 54029

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54076 | TAI/19/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54020 | TAI/4/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.4 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.6 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.7 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 90.1 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.3 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.8 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.5 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.2 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.2 | 0 | O | ME-SA | PanAsia | |

| | |
|---|---|
| Virus sample name: | TAI/7/2022 |
| Sender reference: | 65B00108-0001 R3B4 |
| Location of origin: | Huai Sai, Mueang Prachuab Khiri Khan, Prachuab Khiri Khan, Western Region |
| Country of origin: | Thailand |
| Date of collection: | 26/08/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54030, genome 54031, sequence viba_54032, sequencing info 54033 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54036 | TAI/8/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.5 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.2 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.4 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.5 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.6 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.8 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.3 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.2 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.0 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 86.9 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 86.9 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|---|
| Virus sample name: | TAI/8/2022 |
| Sender reference: | 65B00114-0001 R2B3 |
| Location of origin: | Chanthuek, Pak Chong, Nakhon Ratchasima, North eastern Region |
| Country of origin: | Thailand |
| Date of collection: | 05/09/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54034, genome 54035, sequence viba_54036, sequencing info 54037

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54024 | TAI/5/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.8 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.5 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 95.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.7 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.9 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.9 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.1 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.6 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.5 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.4 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.2 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.2 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|---|
| Virus sample name: | TAI/9/2022 |
| Sender reference: | 65B00115-0001 R1B3 |
| Location of origin: | Ao Nang, Mueang Krabi, Krabi, Southern Region |
| Country of origin: | Thailand |
| Date of collection: | 05/09/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54038, genome 54039, sequence viba_54040, sequencing info 54041

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54052 | TAI/12/2022 | cattle | 100.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 100.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54068 | TAI/17/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 95.3 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.9 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 91.0 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 90.1 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.3 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.8 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.5 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.4 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.4 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|--|
| Virus sample name: | TAI/10/2022 |
| Sender reference: | 65B00120-0002 R3B3 |
| Location of origin: | Sap Anan, Tha Sae, Chumphon, Southern Region |
| Country of origin: | Thailand |
| Date of collection: | 08/09/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54042, genome 54043, sequence viba_54044, sequencing info 54045

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54036 | TAI/8/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.5 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.2 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.7 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.9 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.9 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.1 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.6 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.2 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_9021 | LAO/2/2006 | cattle | 87.2 | 0 | O | ME-SA | PanAsia | |
| viba_719 | IRN/88/2009 | | 87.0 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_285 | UKG/35/2001 | porcine | 86.9 | 0 | O | ME-SA | PanAsia | |

| | |
|---|---|
| Virus sample name: | TAI/11/2022 |
| Sender reference: | 65B00127-0001 R2B3 |
| Location of origin: | Lam Phaya Klang, Muak Lek, Saraburi, Central Region |
| Country of origin: | Thailand |
| Date of collection: | 13/09/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 08/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54046, genome 54047, sequence viba_54048, sequencing info 54049 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54052 | TAI/12/2022 | cattle | 100.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 100.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54068 | TAI/17/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 95.3 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.9 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 91.0 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 90.1 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.3 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.8 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.5 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.4 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.4 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|--|
| Virus sample name: | TAI/12/2022 |
| Sender reference: | 65B00139-0006 R3B1 |
| Location of origin: | Nong Yang Suea, Muak Lek, Saraburi, Central Region |
| Country of origin: | Thailand |
| Date of collection: | 19/09/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54050, genome 54051, sequence viba_54052, sequencing info 54053

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54048 | TAI/11/2022 | cattle | 100.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 100.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.7 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54068 | TAI/17/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 95.3 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.9 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 91.0 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 90.1 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.3 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.8 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.5 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.4 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.4 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|---|
| Virus sample name: | TAI/13/2022 |
| Sender reference: | 65B00141-0003 R3B3 |
| Location of origin: | Hin Lek Fai, Hua Hin, Prachuap Khiri Khan, Western Region |
| Country of origin: | Thailand |
| Date of collection: | 28/09/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 1 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54054, genome 54055, sequence viba_54056, sequencing info 54057

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54052 | TAI/12/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.4 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54068 | TAI/17/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.6 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.7 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.7 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.9 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.5 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.5 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.2 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.1 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.1 | 0 | O | ME-SA | PanAsia | |

| | |
|---|---|
| Virus sample name: | TAI/15/2022 |
| Sender reference: | 65B00165-0001 R3B4 |
| Location of origin: | Khok Tum, Mueang Lopburi, Lopburi, Central Region |
| Country of origin: | Thailand |
| Date of collection: | 06/10/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 1 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54058, genome 54059, sequence viba_54060, sequencing info 54061 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54036 | TAI/8/2022 | cattle | 99.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.4 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.6 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.7 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.7 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.9 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.5 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.4 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.2 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.1 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 87.1 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|---|
| Virus sample name: | TAI/16/2022 |
| Sender reference: | 65B00167-0001 R3B3 |
| Location of origin: | Don Krabueang, Ban Pong, Ratchaburi, Western Region |
| Country of origin: | Thailand |
| Date of collection: | 10/10/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | SEA |
| Lineage: | Tai-87 |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54062, genome 54063, sequence viba_54064, sequencing info 54065

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|------------|---------------|-------|----------|----------|----------|---------|------------|
| viba_68 | TAI/189/87 | bovine | 98.7 | 0 | O | SEA | Tai-87 | |
| viba_38517 | LAO/1/87 | water buffalo | 98.4 | 0 | O | SEA | Tai-87 | |
| viba_38521 | LAO/1/88 | bovine | 98.1 | 0 | O | SEA | Tai-87 | |
| viba_38574 | MAY/5/92 | cattle | 95.6 | 0 | O | SEA | Tai-87 | |
| viba_38570 | MAY/1/92 | cattle | 95.6 | 0 | O | SEA | Tai-87 | |
| viba_38578 | MAY/5/93 | cattle | 94.9 | 0 | O | SEA | Tai-87 | |
| viba_15637 | MYA/1/2010 | cattle | 91.9 | 0 | O | SEA | | |
| viba_15641 | MYA/2/2010 | cattle | 91.9 | 0 | O | SEA | | |
| viba_38473 | BUR/2/77 | cattle | 91.8 | 0 | O | SEA | Bur-77 | |
| viba_38566 | MAY/1/84 | cattle | 91.6 | 0 | O | SEA | May-78 | |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------------|-------|----------|----------|----------|-----------|------------|
| viba_38517 | LAO/1/87 | water buffalo | 98.4 | 0 | O | SEA | Tai-87 | |
| viba_38473 | BUR/2/77 | cattle | 91.8 | 0 | O | SEA | Bur-77 | |
| viba_199 | MYA/7/98 | bovine | 91.5 | 0 | O | SEA | Mya-98 | |
| viba_38526 | MAY/1/78 | bovine | 90.8 | 0 | O | SEA | May-78 | |
| viba_694 | CAM/3/98 | bovine | 88.5 | 0 | O | SEA | Cam-94 | |
| viba_285 | UKG/35/2001 | porcine | 87.4 | 0 | O | ME-SA | PanAsia | |
| viba_576 | IND/R2/75 | | 87.4 | 0 | O | ME-SA | | |
| viba_354 | PAK/16/2010 | cattle | 87.2 | 0 | O | ME-SA | PanAsia-2 | PUN-10 |
| viba_9021 | LAO/2/2006 | cattle | 86.9 | 0 | O | ME-SA | PanAsia | |
| viba_766 | IRN/31/2009 | cattle | 86.8 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |

| | |
|------------------------------------|--|
| Virus sample name: | TAI/17/2022 |
| Sender reference: | 65B00207-0002 R3B3 |
| Location of origin: | Tha Maka, Tha Maka, Kanchanaburi, Western Region |
| Country of origin: | Thailand |
| Date of collection: | 28/10/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54066, genome 54067, sequence viba_54068, sequencing info 54069

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54052 | TAI/12/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.2 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.2 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54080 | TAI/20/2022 | cattle | 99.1 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.4 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.5 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.6 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.9 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.2 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.4 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_9021 | LAO/2/2006 | cattle | 87.4 | 0 | O | ME-SA | PanAsia | |
| viba_719 | IRN/88/2009 | | 87.4 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_617 | IND/53/79 | bovine | 87.2 | 0 | O | ME-SA | | |

| | |
|---|---|
| Virus sample name: | TAI/18/2022 |
| Sender reference: | 65B00218-0001 R3B3 |
| Location of origin: | Pa Ko Dam, Mae Lao, Chiang Rai, Northern Region |
| Country of origin: | Thailand |
| Date of collection: | 04/11/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54070, genome 54071, sequence viba_54072, sequencing info 54073 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54084 | TAI/1/2023 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50870 | MAY/1577/2021(1) | cattle | 97.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50874 | MAY/1577/2021(6) | cattle | 97.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50866 | MAY/1576/2021(3) | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51144 | TAI/2/2021 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51611 | MAY/498/2022 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51203 | ISA/DeliSerdang/A01220762/2022 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51199 | ISA/Langkat/A01220761/2022 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50766 | TAI/30/21 | bovine | 96.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51291 | ISA/HSU/A0522099-5/2022 | goat | 96.5 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|---------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 95.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 91.9 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 91.6 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 91.0 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.6 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 89.1 | 0 | O | ME-SA | Ind-2001 | c |
| viba_38646 | SYR/18/62 | | 88.0 | 0 | O | WCSEA-1 | Syr-62 | |
| viba_285 | UKG/35/2001 | porcine | 88.0 | 0 | O | ME-SA | PanAsia | |
| viba_359 | Manisa/TUR/69 | | 88.0 | 0 | O | ME-SA | | |
| viba_650 | IRN/8/2005 | ovine | 87.7 | 0 | O | ME-SA | PanAsia-2 | |

| | |
|---|---|
| Virus sample name: | TAI/19/2022 |
| Sender reference: | 65B00277-0001 R3B3 |
| Location of origin: | Dong Mada, Mae Lao, Chiang Rai, Northern Region |
| Country of origin: | Thailand |
| Date of collection: | 20/12/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54074, genome 54075, sequence viba_54076, sequencing info 54077 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54028 | TAI/6/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54036 | TAI/8/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.4 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54020 | TAI/4/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.7 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.5 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.9 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.3 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.6 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.5 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_285 | UKG/35/2001 | porcine | 87.4 | 0 | O | ME-SA | PanAsia | |
| viba_719 | IRN/88/2009 | | 87.4 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 87.2 | 0 | O | ME-SA | PanAsia | |

| | |
|------------------------------------|--|
| Virus sample name: | TAI/20/2022 |
| Sender reference: | 65B00291-0001 R3B3 |
| Location of origin: | Don Dueng, Ban Mi, Lopburi, Central Region |
| Country of origin: | Thailand |
| Date of collection: | 20/12/2022 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |

VIBASys IDs: sample 54078, genome 54079, sequence viba_54080, sequencing info 54081

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54036 | TAI/8/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54024 | TAI/5/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54052 | TAI/12/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54060 | TAI/15/2022 | cattle | 99.5 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54048 | TAI/11/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54040 | TAI/9/2022 | cattle | 99.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54044 | TAI/10/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54032 | TAI/7/2022 | cattle | 99.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_54056 | TAI/13/2022 | cattle | 99.2 | 1 | O | ME-SA | Ind-2001 | e |
| viba_54076 | TAI/19/2022 | cattle | 99.2 | 0 | O | ME-SA | Ind-2001 | e |

Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 94.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 92.4 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 90.5 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 89.6 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 88.8 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 88.3 | 0 | O | ME-SA | Ind-2001 | c |
| viba_766 | IRN/31/2009 | cattle | 87.2 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_719 | IRN/88/2009 | | 87.0 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_9021 | LAO/2/2006 | cattle | 86.9 | 0 | O | ME-SA | PanAsia | |
| viba_285 | UKG/35/2001 | porcine | 86.9 | 0 | O | ME-SA | PanAsia | |

| | |
|---|--|
| Virus sample name: | TAI/1/2023 |
| Sender reference: | 66B00009-0001 R3B3 |
| Location of origin: | Thon Hong, Phrom Khiri, Nakhon Si Thammarat, Southern Region |
| Country of origin: | Thailand |
| Date of collection: | 05/01/2023 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | ME-SA |
| Lineage: | Ind-2001 |
| Sublineage: | e |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 12/09/2023 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 18/09/2023 |
| Created: | 25/09/2023 |
| Last updated: | 25/09/2023 |
| VIBASys IDs: sample 54082, genome 54083, sequence viba_54084, sequencing info 54085 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_54072 | TAI/18/2022 | cattle | 99.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50870 | MAY/1577/2021(1) | cattle | 97.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50874 | MAY/1577/2021(6) | cattle | 97.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50866 | MAY/1576/2021(3) | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51144 | TAI/2/2021 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51611 | MAY/498/2022 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51203 | ISA/DeliSerdang/A01220762/2022 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51199 | ISA/Langkat/A01220761/2022 | cattle | 96.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_50766 | TAI/30/21 | bovine | 96.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_51291 | ISA/HSU/A0522099-5/2022 | goat | 96.5 | 0 | O | ME-SA | Ind-2001 | e |

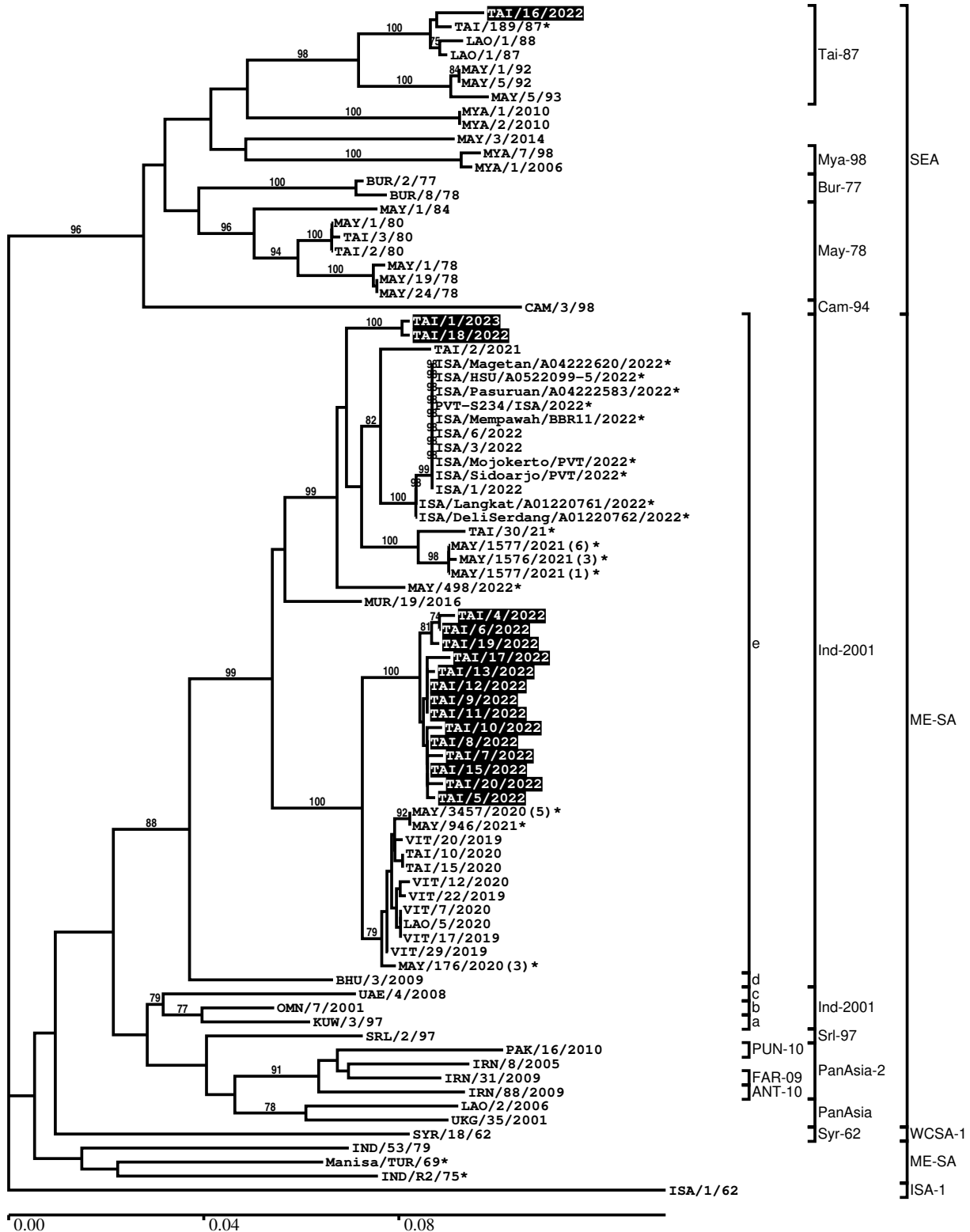
Most Closely Related Prototype Sequences

see <http://www.wrlfmd.org/fmdv-genome/fmd-prototype-strains>

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|---------------|---------|-------|----------|----------|----------|-----------|------------|
| viba_30238 | MUR/19/2016 | cattle | 95.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_293 | BHU/3/2009 | cattle | 91.9 | 0 | O | ME-SA | Ind-2001 | d |
| viba_541 | OMN/7/2001 | bovine | 91.6 | 0 | O | ME-SA | Ind-2001 | b |
| viba_705 | KUW/3/97 | bovine | 91.0 | 0 | O | ME-SA | Ind-2001 | a |
| viba_27877 | SRL/2/97 | bovine | 89.6 | 0 | O | ME-SA | Srl-97 | |
| viba_397 | UAE/4/2008 | gazelle | 89.1 | 0 | O | ME-SA | Ind-2001 | c |
| viba_38646 | SYR/18/62 | | 88.0 | 0 | O | WCSEA-1 | Syr-62 | |
| viba_285 | UKG/35/2001 | porcine | 88.0 | 0 | O | ME-SA | PanAsia | |
| viba_719 | IRN/88/2009 | | 88.0 | 0 | O | ME-SA | PanAsia-2 | ANT-10 |
| viba_359 | Manisa/TUR/69 | | 88.0 | 0 | O | ME-SA | | |

Report on FMDV O in Thailand in 2022, 2023

Batch: WRLFMD/2023/000070



*, not a WRLFMD Reference Number

Analysis Parameters

| | |
|--|--|
| VP1 subsequence extractor: | vp1_O |
| Query sequence set: | WRLFMD/2023/000070-Thailand-O (17 sequences) |
| Sequence database set: | allseqs_O (6121 sequences) |
| Prototype sequence set: | !prototypes_O (58 sequences) |
| Number of related sequences reported: | 10 |
| Minimal VP1 subsequence match length | 600 |
| Sequence alignment method: | muscle (default parameters) |
| Sequence alignment length: | 636 |
| Phylogeny reconstruction method: | fdnadist, fneighbor |
| Number of bootstrap samples: | 1000 |
| Random seed for bootstrapping: | 1 |
| Displaying bootstrap values above: | 70.0% |
| Number of sequences in tree capped at: | 100 |
| Number of prototype sequences in tree: | 21 |
| VIBASys version: | reflabs-1.1.2 |

Sequences in the Phylogenetic Tree

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

| label | accession | host(s) | lab | country | taxonomic information |
|------------------------------|-----------|---------------|----------|-----------|-----------------------|
| TAI/16/2022 | n/a | cattle | WRLFMD | Thailand | SEA/Tai-87 |
| TAI/189/87* | KY091288 | bovine | TRRL | Thailand | SEA/Tai-87 |
| LAO/1/88 | MK390899 | bovine | WRLFMD | Laos | SEA/Tai-87 |
| LAO/1/87 | MK390898 | water buffalo | WRLFMD | Laos | SEA/Tai-87 |
| MAY/1/92 | MK390911 | cattle | WRLFMD | Malaysia | SEA/Tai-87 |
| MAY/5/92 | MK390912 | cattle | WRLFMD | Malaysia | SEA/Tai-87 |
| MAY/5/93 | MK390913 | cattle | WRLFMD | Malaysia | SEA/Tai-87 |
| MYA/1/2010 | n/a | cattle | WRLFMD | Myanmar | SEA |
| MYA/2/2010 | n/a | cattle | WRLFMD | Myanmar | SEA |
| MAY/3/2014 | n/a | cattle | WRLFMD | Malaysia | SEA |
| MYA/7/98 | DQ164925 | bovine | WRLFMD | Myanmar | SEA/Mya-98 |
| MYA/1/2006 | JQ070316 | porcine | WRLFMD | Myanmar | SEA/Mya-98 |
| BUR/2/77 | MK390887 | cattle | WRLFMD | Burma | SEA/Bur-77 |
| BUR/8/78 | MK390889 | cattle | WRLFMD | Burma | SEA/Bur-77 |
| MAY/1/84 | MK390910 | cattle | WRLFMD | Malaysia | SEA/May-78 |
| MAY/1/80 | MK390904 | cattle | WRLFMD | Malaysia | SEA/May-78 |
| TAI/3/80 | MK390938 | cattle | WRLFMD | Thailand | SEA/May-78 |
| TAI/2/80 | MK390937 | porcine | WRLFMD | Thailand | SEA/May-78 |
| MAY/1/78 | MK390900 | bovine | WRLFMD | Malaysia | SEA/May-78 |
| MAY/19/78 | MK390901 | cattle | WRLFMD | Malaysia | SEA/May-78 |
| MAY/24/78 | MK390902 | cattle | WRLFMD | Malaysia | SEA/May-78 |
| CAM/3/98 | AJ294910 | bovine | WRLFMD | Cambodia | SEA/Cam-94 |
| TAI/1/2023 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/18/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/2/2021 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| ISA/Magetan/A04222620/2022* | ON854956 | cattle | DICWY | Indonesia | ME-SA/Ind-2001/e |
| ISA/HSU/A0522099-5/2022* | ON854957 | goat | DICWY | Indonesia | ME-SA/Ind-2001/e |
| ISA/Pasuruan/A04222583/2022* | ON854943 | cattle | DICWY | Indonesia | ME-SA/Ind-2001/e |
| PVT-S234/ISA/2022* | n/a | cattle | Pusvetma | Indonesia | ME-SA/Ind-2001/e |
| ISA/Mempawah/BBR11/2022* | ON854947 | goat | DICWY | Indonesia | ME-SA/Ind-2001/e |
| ISA/6/2022 | n/a | cattle | WRLFMD | Indonesia | ME-SA/Ind-2001/e |
| ISA/3/2022 | n/a | cattle | WRLFMD | Indonesia | ME-SA/Ind-2001/e |
| ISA/Mojokerto/PVT/2022* | ON854938 | cattle | DICWY | Indonesia | ME-SA/Ind-2001/e |
| ISA/Sidoarjo/PVT/2022* | ON854937 | cattle | DICWY | Indonesia | ME-SA/Ind-2001/e |
| ISA/1/2022 | n/a | cattle | WRLFMD | Indonesia | ME-SA/Ind-2001/e |
| ISA/Langkat/A01220761/2022* | ON854934 | cattle | DICWY | Indonesia | ME-SA/Ind-2001/e |

continued on next page

| label | accession | host(s) | lab | country | taxonomic information |
|---------------------------------|-----------|---------------|--------|----------------------|------------------------|
| ISA/DeliSerdang/A01220762/2022* | ON854935 | cattle | DICWY | Indonesia | ME-SA/Ind-2001/e |
| TAI/30/21* | n/a | bovine | TRRL | Thailand | ME-SA/Ind-2001/e |
| MAY/1577/2021(6)* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| MAY/1576/2021(3)* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| MAY/1577/2021(1)* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| MAY/498/2022* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| MUR/19/2016 | MG972510 | cattle | WRLFMD | Mauritius | ME-SA/Ind-2001/e |
| TAI/4/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/6/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/19/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/17/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/13/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/12/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/9/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/11/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/10/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/8/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/7/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/15/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/20/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/5/2022 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| MAY/3457/2020(5)* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| MAY/946/2021* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| VIT/20/2019 | n/a | water buffalo | WRLFMD | Vietnam | ME-SA/Ind-2001/e |
| TAI/10/2020 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| TAI/15/2020 | n/a | cattle | WRLFMD | Thailand | ME-SA/Ind-2001/e |
| VIT/12/2020 | n/a | cattle | WRLFMD | Vietnam | ME-SA/Ind-2001/e |
| VIT/22/2019 | n/a | cattle | WRLFMD | Vietnam | ME-SA/Ind-2001/e |
| VIT/7/2020 | n/a | porcine | WRLFMD | Vietnam | ME-SA/Ind-2001/e |
| LAO/5/2020 | n/a | cattle | WRLFMD | Laos | ME-SA/Ind-2001/e |
| VIT/17/2019 | n/a | porcine | WRLFMD | Vietnam | ME-SA/Ind-2001/e |
| VIT/29/2019 | n/a | water buffalo | WRLFMD | Vietnam | ME-SA/Ind-2001/e |
| MAY/176/2020(3)* | n/a | cattle | MNFMDL | Malaysia | ME-SA/Ind-2001/e |
| BHU/3/2009 | KM921814 | cattle | WRLFMD | Bhutan | ME-SA/Ind-2001/d |
| UAE/4/2008 | KM921876 | gazelle | WRLFMD | United Arab Emirates | ME-SA/Ind-2001/c |
| OMN/7/2001 | DQ164941 | bovine | WRLFMD | Oman | ME-SA/Ind-2001/b |
| KUW/3/97 | DQ164904 | bovine | WRLFMD | Kuwait | ME-SA/Ind-2001/a |
| SRL/2/97 | AJ303531 | bovine | WRLFMD | Sri Lanka | ME-SA/Sri-97 |
| PAK/16/2010 | KY091285 | cattle | WRLFMD | Pakistan | ME-SA/PanAsia-2/PUN-10 |
| IRN/8/2005 | KY091281 | ovine | WRLFMD | Iran | ME-SA/PanAsia-2 |
| IRN/31/2009 | KY091284 | cattle | WRLFMD | Iran | ME-SA/PanAsia-2/FAR-09 |
| IRN/88/2009 | KY091282 | n/a | WRLFMD | Iran | ME-SA/PanAsia-2/ANT-10 |
| LAO/2/2006 | EU667451 | cattle | WRLFMD | Laos | ME-SA/PanAsia |
| UKG/35/2001 | AJ539141 | porcine | PIADC | United Kingdom | ME-SA/PanAsia |
| SYR/18/62 | MK390935 | n/a | WRLFMD | Syria | WCSA-1/Syr-62 |
| IND/53/79 | AF292107 | bovine | PD-FMD | India | ME-SA |
| Manisa/TUR/69* | AY593823 | n/a | PIADC | Turkey | ME-SA |
| IND/R2/75* | AF204276 | n/a | PD-FMD | India | ME-SA |
| ISA/1/62 | AJ303500 | n/a | WRLFMD | Indonesia | ISA-1 |

*, not a WRLFMD Reference Number

n/a, not available