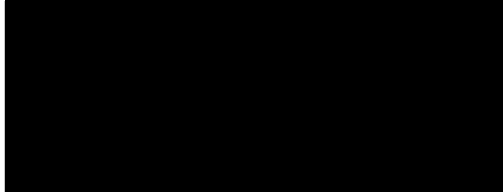




## FMD Genotyping Report

Lab Reference WRL batch Number: WRLFMD/2024/000009

Sender Details:



Date Received: 02/09/2024

Country of Origin\*: Indonesia

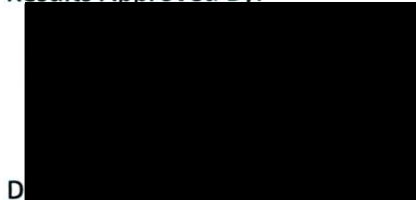
Work has now been completed in respect of the sequences recently submitted and the details are as attached. Please note that all our phylogenetic trees can be accessed via the internet at:

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

RT-PCR amplification using VP1 FMDV-O and FMDV-Universal primer sets was attempted on 16 samples typed as FMDV-GD (ISA/7/2022, ISA/1/2023, ISA/2/2023, ISA/4/2023, ISA/7/2023, ISA/11/2023, ISA/3/2024, ISA/16/2024, ISA/18/2024, ISA/19/2024 & ISA/22/2024). Complete VP1 sequences were obtained for four of these: ISA/7/2022, ISA/2/2023, ISA/4/2023 & ISA/18/2024.

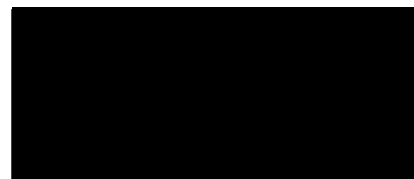
Results Approved By:

Official Stamp:



D

30/9/24



To help us improve the quality of our service, please send any suggestions or requests to the Reference Laboratory by email ([reflabsfeedback@pirbright.ac.uk](mailto:reflabsfeedback@pirbright.ac.uk)).

\* Data supplied by the customer

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

## Genotyping Report

|                      |                     |
|----------------------|---------------------|
| FMDV serotype:       | O                   |
| Country:             | Indonesia           |
| Year:                | 2022, 2023, 2024    |
| Batch:               | WRLFMD/2024/000009  |
| No. of sequences:    | 20                  |
| Report date:         | 24th September 2024 |
| Report generated by: | Nick Knowles        |
| Report checked by:   | Jemma Wadsworth     |



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

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

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|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
| Virus sample name:                                                                  | ISA/7/2022                                     |
| Sender reference:                                                                   | ISA/Bulukumba/A07220134-4/2022                 |
| Location of origin:                                                                 | Tembangan, Bulukumba, Sulawesi Selatan, Kajang |
| Country of origin:                                                                  | Indonesia                                      |
| Date of collection:                                                                 | 23/07/2022                                     |
| Host species:                                                                       | cattle                                         |
| Serotype:                                                                           | O                                              |
| Topotype:                                                                           | ME-SA                                          |
| Lineage:                                                                            | Ind-2001                                       |
| Sublineage:                                                                         | e                                              |
| Sequence length:                                                                    | 633                                            |
| Ambiguities:                                                                        | 0                                              |
| Material submitted for sequencing:                                                  | orig. fluid                                    |
| Harvest date of material:                                                           | n/a                                            |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R        |
| Received for sequencing:                                                            | 18/09/2024                                     |
| Created:                                                                            | 23/09/2024                                     |
| Last updated:                                                                       | 23/09/2024                                     |
| VIBASys IDs: sample 55584, genome 55585, sequence viba_55586, sequencing info 55587 |                                                |

### Most Closely Related Sequences

| sequence   | virus name                      | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|---------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_51546 | ISA/Gowa/A07220121/2022         |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51538 | ISA/Bantaeng/A07220112/2022     |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55522 | ISA/8/2022                      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51534 | ISA/Toraja_Utara/A07220106/2022 |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51247 | ISA/LTI/A06220466/2022          | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55590 | ISA/2/2023                      | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51542 | ISA/Bone/A07220116/2022         |        | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51263 | ISA/Klaten/A04222596/2022       | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51231 | ISA/Boyolali/A04222562/2022     | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51283 | ISA/Semarang/A04222614/2022     | 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  | 91.6  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_541   | OMN/7/2001  | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_705   | KUW/3/97    | bovine  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97    | bovine  | 89.4  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008  | gazelle | 89.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_650   | IRN/8/2005  | ovine   | 88.3  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_285   | UKG/35/2001 | porcine | 88.2  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_666   | IRN/18/2010 | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia-2 | BAL-09     |
| viba_9021  | LAO/2/2006  | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |

|                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| Virus sample name:                                                                  | ISA/8/2022                                      |
| Sender reference:                                                                   | ISA/Bulukumba/A07220134-5/2022                  |
| Location of origin:                                                                 | Tamatto, Bulukumba, Sulawesi Selatan, Ujung Loe |
| Country of origin:                                                                  | Indonesia                                       |
| Date of collection:                                                                 | 24/07/2022                                      |
| 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:                                                           | 04/09/2024                                      |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R         |
| Received for sequencing:                                                            | 16/09/2024                                      |
| Created:                                                                            | 18/09/2024                                      |
| Last updated:                                                                       | 18/09/2024                                      |
| VIBASys IDs: sample 55520, genome 55521, sequence viba_55522, sequencing info 55523 |                                                 |

### Most Closely Related Sequences

| sequence   | virus name                      | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|---------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_51546 | ISA/Gowa/A07220121/2022         |        | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51538 | ISA/Bantaeng/A07220112/2022     |        | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51534 | ISA/Toraja_Utara/A07220106/2022 |        | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51247 | ISA/LTI/A06220466/2022          | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55590 | ISA/2/2023                      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51542 | ISA/Bone/A07220116/2022         |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55586 | ISA/7/2022                      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51263 | ISA/Klaten/A04222596/2022       | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51231 | ISA/Boyolali/A04222562/2022     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51283 | ISA/Semarang/A04222614/2022     | 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  | 91.8  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_541   | OMN/7/2001  | bovine  | 91.5  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_705   | KUW/3/97    | bovine  | 90.7  | 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 | 89.4  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_650   | IRN/8/2005  | ovine   | 88.5  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_285   | UKG/35/2001 | porcine | 88.3  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_666   | IRN/18/2010 | cattle  | 88.2  | 0        | O        | ME-SA    | PanAsia-2 | BAL-09     |
| viba_9021  | LAO/2/2006  | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia   |            |

|                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| Virus sample name:                                                                  | ISA/9/2022                                      |
| Sender reference:                                                                   | ISA/Maros/A07220140-1/2022                      |
| Location of origin:                                                                 | Moncongloe, Maros, Sulawesi Selatan, Moncongloe |
| Country of origin:                                                                  | Indonesia                                       |
| Date of collection:                                                                 | 24/07/2022                                      |
| 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:                                                           | 04/09/2024                                      |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R         |
| Received for sequencing:                                                            | 16/09/2024                                      |
| Created:                                                                            | 18/09/2024                                      |
| Last updated:                                                                       | 18/09/2024                                      |
| VIBASys IDs: sample 55524, genome 55525, sequence viba_55526, sequencing info 55527 |                                                 |

### Most Closely Related Sequences

| sequence   | virus name                      | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|---------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_51546 | ISA/Gowa/A07220121/2022         |        | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51538 | ISA/Bantaeng/A07220112/2022     |        | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55522 | ISA/8/2022                      | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51534 | ISA/Toraja_Utara/A07220106/2022 |        | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51247 | ISA/LTI/A06220466/2022          | cattle | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55590 | ISA/2/2023                      | cattle | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51542 | ISA/Bone/A07220116/2022         |        | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55586 | ISA/7/2022                      | cattle | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51263 | ISA/Klaten/A04222596/2022       | cattle | 99.2  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51231 | ISA/Boyolali/A04222562/2022     | 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  | 94.6  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_293   | BHU/3/2009    | cattle  | 91.3  | 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  | 90.2  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 89.4  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 89.0  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_650   | IRN/8/2005    | ovine   | 88.6  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_666   | IRN/18/2010   | cattle  | 88.6  | 0        | O        | ME-SA    | PanAsia-2 | BAL-09     |
| viba_359   | Manisa/TUR/69 |         | 88.2  | 0        | O        | ME-SA    |           |            |
| viba_285   | UKG/35/2001   | porcine | 88.2  | 0        | O        | ME-SA    | PanAsia   |            |

|                                                                                     |                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------|
| Virus sample name:                                                                  | ISA/2/2023                                |
| Sender reference:                                                                   | ISA/Donggala/A07230003-25/2023            |
| Location of origin:                                                                 | Rerang, Donggala, Sulawesi Tengah, Damsoi |
| Country of origin:                                                                  | Indonesia                                 |
| Date of collection:                                                                 | 10/01/2023                                |
| Host species:                                                                       | cattle                                    |
| Serotype:                                                                           | O                                         |
| Topotype:                                                                           | ME-SA                                     |
| Lineage:                                                                            | Ind-2001                                  |
| Sublineage:                                                                         | e                                         |
| Sequence length:                                                                    | 633                                       |
| Ambiguities:                                                                        | 0                                         |
| Material submitted for sequencing:                                                  | orig. fluid                               |
| Harvest date of material:                                                           | n/a                                       |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R   |
| Received for sequencing:                                                            | 18/09/2024                                |
| Created:                                                                            | 23/09/2024                                |
| Last updated:                                                                       | 23/09/2024                                |
| VIBASys IDs: sample 55588, genome 55589, sequence viba_55590, sequencing info 55591 |                                           |

### Most Closely Related Sequences

| sequence   | virus name                      | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|---------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_51546 | ISA/Gowa/A07220121/2022         |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51538 | ISA/Bantaeng/A07220112/2022     |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55522 | ISA/8/2022                      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51534 | ISA/Toraja_Utara/A07220106/2022 |        | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51247 | ISA/LTI/A06220466/2022          | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51542 | ISA/Bone/A07220116/2022         |        | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55586 | ISA/7/2022                      | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51263 | ISA/Klaten/A04222596/2022       | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51231 | ISA/Boyolali/A04222562/2022     | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51283 | ISA/Semarang/A04222614/2022     | 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  | 91.6  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_541   | OMN/7/2001  | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_705   | KUW/3/97    | bovine  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97    | bovine  | 89.4  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008  | gazelle | 89.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_650   | IRN/8/2005  | ovine   | 88.3  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_285   | UKG/35/2001 | porcine | 88.2  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_666   | IRN/18/2010 | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia-2 | BAL-09     |
| viba_9021  | LAO/2/2006  | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |

|                                                                                     |                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|
| Virus sample name:                                                                  | ISA/4/2023                              |
| Sender reference:                                                                   | ISA/Nganjuk/PVT/Sw-I/2023               |
| Location of origin:                                                                 | Patihan, Nganjuk, Jawa Timur, Loceret   |
| Country of origin:                                                                  | Indonesia                               |
| Date of collection:                                                                 | 24/01/2023                              |
| Host species:                                                                       | cattle                                  |
| Serotype:                                                                           | O                                       |
| Topotype:                                                                           | ME-SA                                   |
| Lineage:                                                                            | Ind-2001                                |
| Sublineage:                                                                         | e                                       |
| Sequence length:                                                                    | 633                                     |
| Ambiguities:                                                                        | 0                                       |
| Material submitted for sequencing:                                                  | orig. fluid                             |
| Harvest date of material:                                                           | n/a                                     |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:                                                            | 18/09/2024                              |
| Created:                                                                            | 23/09/2024                              |
| Last updated:                                                                       | 23/09/2024                              |
| VIBASys IDs: sample 55592, genome 55593, sequence viba_55594, sequencing info 55595 |                                         |

### Most Closely Related Sequences

| sequence   | virus name                     | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|--------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55035 | ISA/Nganjuk/PVT/Sw-1/2023      | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55534 | ISA/6/2023                     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55039 | ISA/Bojonegoro/PVT/Pls-14/2023 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55047 | ISA/Gresik/PVT/Sw-11/2023      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55530 | ISA/5/2023                     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55538 | ISA/8/2023                     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55043 | ISA/Bojonegoro/PVT/Pls-2/2023  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55031 | ISA/Nganjuk/PVT/Pls-5/2023     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51203 | ISA/DeliSerdang/A01220762/2022 | cattle | 98.6  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51291 | ISA/HSU/A0522099-5/2022        | goat   | 98.6  | 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  | 95.4  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_293   | BHU/3/2009  | cattle  | 92.4  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97    | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_541   | OMN/7/2001  | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_397   | UAE/4/2008  | gazelle | 89.7  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_27877 | SRL/2/97    | bovine  | 89.3  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_285   | UKG/35/2001 | porcine | 88.3  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_9021  | LAO/2/2006  | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_38646 | SYR/18/62   |         | 87.9  | 0        | O        | WCSA-1   | Syr-62    |            |
| viba_650   | IRN/8/2005  | ovine   | 87.7  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|
| Virus sample name:                                                                  | ISA/5/2023                              |
| Sender reference:                                                                   | ISA/Klaten/A04230205-KL24a-c/2023       |
| Location of origin:                                                                 | Cawan, Klaten, Jawa Tengah, Jatinom     |
| Country of origin:                                                                  | Indonesia                               |
| Date of collection:                                                                 | 25/01/2023                              |
| 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:                                                           | 05/09/2024                              |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:                                                            | 16/09/2024                              |
| Created:                                                                            | 18/09/2024                              |
| Last updated:                                                                       | 18/09/2024                              |
| VIBASys IDs: sample 55528, genome 55529, sequence viba_55530, sequencing info 55531 |                                         |

### Most Closely Related Sequences

| sequence   | virus name                     | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|--------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55534 | ISA/6/2023                     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55039 | ISA/Bojonegoro/PVT/Pls-14/2023 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55047 | ISA/Gresik/PVT/Sw-11/2023      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55035 | ISA/Nganjuk/PVT/Sw-1/2023      | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55538 | ISA/8/2023                     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55594 | ISA/4/2023                     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55043 | ISA/Bojonegoro/PVT/Pls-2/2023  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55031 | ISA/Nganjuk/PVT/Pls-5/2023     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51203 | ISA/DeliSerdang/A01220762/2022 | cattle | 98.6  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51291 | ISA/HSU/A0522099-5/2022        | goat   | 98.6  | 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  | 92.4  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97    | bovine  | 91.6  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_541   | OMN/7/2001  | bovine  | 91.6  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_397   | UAE/4/2008  | gazelle | 89.9  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_27877 | SRL/2/97    | bovine  | 89.6  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_285   | UKG/35/2001 | porcine | 88.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_9021  | LAO/2/2006  | cattle  | 88.3  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_38646 | SYR/18/62   |         | 87.9  | 0        | O        | WCSA-1   | Syr-62    |            |
| viba_650   | IRN/8/2005  | ovine   | 87.7  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------|
| Virus sample name:                                                                  | ISA/6/2023                                |
| Sender reference:                                                                   | ISA/Gresik/PVT/Sw-II/2023                 |
| Location of origin:                                                                 | Gosari, Gresik, Jawa Timur, Ujung Pangkah |
| Country of origin:                                                                  | Indonesia                                 |
| Date of collection:                                                                 | 26/01/2023                                |
| 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:                                                           | 05/09/2024                                |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R   |
| Received for sequencing:                                                            | 16/09/2024                                |
| Created:                                                                            | 18/09/2024                                |
| Last updated:                                                                       | 18/09/2024                                |
| VIBASys IDs: sample 55532, genome 55533, sequence viba_55534, sequencing info 55535 |                                           |

### Most Closely Related Sequences

| sequence   | virus name                     | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|--------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55039 | ISA/Bojonegoro/PVT/Pls-14/2023 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55047 | ISA/Gresik/PVT/Sw-11/2023      | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55530 | ISA/5/2023                     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55035 | ISA/Nganjuk/PVT/Sw-1/2023      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55538 | ISA/8/2023                     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55594 | ISA/4/2023                     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55043 | ISA/Bojonegoro/PVT/Pls-2/2023  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55031 | ISA/Nganjuk/PVT/Pls-5/2023     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51203 | ISA/DeliSerdang/A01220762/2022 | cattle | 98.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51291 | ISA/HSU/A0522099-5/2022        | goat   | 98.7  | 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  | 95.6  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_293   | BHU/3/2009  | cattle  | 92.6  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97    | bovine  | 91.5  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_541   | OMN/7/2001  | bovine  | 91.5  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_397   | UAE/4/2008  | gazelle | 89.7  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_27877 | SRL/2/97    | bovine  | 89.4  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_285   | UKG/35/2001 | porcine | 88.5  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_9021  | LAO/2/2006  | cattle  | 88.2  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005  | ovine   | 87.9  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_38646 | SYR/18/62   |         | 87.9  | 0        | O        | WCSA-1   | Syr-62    |            |

|                                                                                     |                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|
| Virus sample name:                                                                  | ISA/8/2023                              |
| Sender reference:                                                                   | ISA/Nganjuk/A04230426-NK30-33/2023      |
| Location of origin:                                                                 | Putukrejo, Nganjuk, Jawa Timur, Loceret |
| Country of origin:                                                                  | Indonesia                               |
| Date of collection:                                                                 | 13/02/2023                              |
| 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:                                                           | 05/09/2024                              |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:                                                            | 16/09/2024                              |
| Created:                                                                            | 18/09/2024                              |
| Last updated:                                                                       | 18/09/2024                              |
| VIBASys IDs: sample 55536, genome 55537, sequence viba_55538, sequencing info 55539 |                                         |

### Most Closely Related Sequences

| sequence   | virus name                     | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|--------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55534 | ISA/6/2023                     | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55039 | ISA/Bojonegoro/PVT/Pls-14/2023 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55047 | ISA/Gresik/PVT/Sw-11/2023      | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55530 | ISA/5/2023                     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55035 | ISA/Nganjuk/PVT/Sw-1/2023      | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55594 | ISA/4/2023                     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55043 | ISA/Bojonegoro/PVT/Pls-2/2023  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55031 | ISA/Nganjuk/PVT/Pls-5/2023     | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51203 | ISA/DeliSerdang/A01220762/2022 | cattle | 98.6  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51291 | ISA/HSU/A0522099-5/2022        | goat   | 98.6  | 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  | 95.4  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_293   | BHU/3/2009  | cattle  | 92.4  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97    | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_541   | OMN/7/2001  | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_397   | UAE/4/2008  | gazelle | 89.6  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_27877 | SRL/2/97    | bovine  | 89.3  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_285   | UKG/35/2001 | porcine | 88.3  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_9021  | LAO/2/2006  | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005  | ovine   | 87.7  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_666   | IRN/18/2010 | cattle  | 87.7  | 0        | O        | ME-SA    | PanAsia-2 | BAL-09     |

|                                                                                     |                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|
| Virus sample name:                                                                  | ISA/14/2023                             |
| Sender reference:                                                                   | ISA/Barru/A07220171-7/2022              |
| Location of origin:                                                                 | Barru, Barru, Sulawesi Selatan, Barru   |
| Country of origin:                                                                  | Indonesia                               |
| Date of collection:                                                                 | 21/08/2023                              |
| 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:                                                           | 05/09/2024                              |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:                                                            | 16/09/2024                              |
| Created:                                                                            | 18/09/2024                              |
| Last updated:                                                                       | 18/09/2024                              |
| VIBASys IDs: sample 55540, genome 55541, sequence viba_55542, sequencing info 55543 |                                         |

### Most Closely Related Sequences

| sequence   | virus name                      | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|---------------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_51546 | ISA/Gowa/A07220121/2022         |        | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51538 | ISA/Bantaeng/A07220112/2022     |        | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55522 | ISA/8/2022                      | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51534 | ISA/Toraja_Utara/A07220106/2022 |        | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51247 | ISA/LTI/A06220466/2022          | cattle | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55590 | ISA/2/2023                      | cattle | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51542 | ISA/Bone/A07220116/2022         |        | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55586 | ISA/7/2022                      | cattle | 99.4  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51263 | ISA/Klaten/A04222596/2022       | cattle | 99.2  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_51231 | ISA/Boyolali/A04222562/2022     | 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  | 91.6  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_541   | OMN/7/2001  | bovine  | 91.3  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_705   | KUW/3/97    | bovine  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97    | bovine  | 89.4  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008  | gazelle | 89.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_650   | IRN/8/2005  | ovine   | 88.3  | 0        | O        | ME-SA    | PanAsia-2 |            |
| viba_285   | UKG/35/2001 | porcine | 88.2  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_9021  | LAO/2/2006  | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_666   | IRN/18/2010 | cattle  | 87.8  | 0        | O        | ME-SA    | PanAsia-2 | BAL-09     |

|                                                                                     |                                          |
|-------------------------------------------------------------------------------------|------------------------------------------|
| Virus sample name:                                                                  | ISA/4/2024                               |
| Sender reference:                                                                   | ISA/Boyolali/AR340101240031-SO_KT13/2024 |
| Location of origin:                                                                 | Tibayan, Klaten, Jawa Tengah, Jatinom    |
| Country of origin:                                                                  | Indonesia                                |
| Date of collection:                                                                 | 22/02/2024                               |
| 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:                                                           | 06/09/2024                               |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R  |
| Received for sequencing:                                                            | 16/09/2024                               |
| Created:                                                                            | 18/09/2024                               |
| Last updated:                                                                       | 18/09/2024                               |
| VIBASys IDs: sample 55544, genome 55545, sequence viba_55546, sequencing info 55547 |                                          |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.7  | 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  | 94.0  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 89.9  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.3  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 88.2  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.6  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.4  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| Virus sample name:                                                                  | ISA/5/2024                                      |
| Sender reference:                                                                   | ISA/Subang/AR320601240017/2024                  |
| Location of origin:                                                                 | Sumurgintung, Subang, Jawa Barat, Pagaden Barat |
| Country of origin:                                                                  | Indonesia                                       |
| Date of collection:                                                                 | 22/02/2024                                      |
| Host species:                                                                       | cattle                                          |
| Serotype:                                                                           | O                                               |
| Topotype:                                                                           | ME-SA                                           |
| Lineage:                                                                            | Ind-2001                                        |
| Sublineage:                                                                         | e                                               |
| Sequence length:                                                                    | 633                                             |
| Ambiguities:                                                                        | 0                                               |
| Material submitted for sequencing:                                                  | WRL-LFBK2                                       |
| Harvest date of material:                                                           | 11/09/2024                                      |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R         |
| Received for sequencing:                                                            | 16/09/2024                                      |
| Created:                                                                            | 18/09/2024                                      |
| Last updated:                                                                       | 18/09/2024                                      |
| VIBASys IDs: sample 55548, genome 55549, sequence viba_55550, sequencing info 55551 |                                                 |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.8  | 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  | 94.2  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.5  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 88.0  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.5  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------|
| Virus sample name:                                                                  | ISA/6/2024                                 |
| Sender reference:                                                                   | ISA/Pasuruan/PVT/Saliva-6b/2024            |
| Location of origin:                                                                 | Mojotengah, Pasuruan, Jawa Timur, Sukorejo |
| Country of origin:                                                                  | Indonesia                                  |
| Date of collection:                                                                 | 24/02/2024                                 |
| Host species:                                                                       | cattle                                     |
| Serotype:                                                                           | O                                          |
| Topotype:                                                                           | ME-SA                                      |
| Lineage:                                                                            | Ind-2001                                   |
| Sublineage:                                                                         | e                                          |
| Sequence length:                                                                    | 633                                        |
| Ambiguities:                                                                        | 0                                          |
| Material submitted for sequencing:                                                  | WRL-LFBK2                                  |
| Harvest date of material:                                                           | 11/09/2024                                 |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R    |
| Received for sequencing:                                                            | 16/09/2024                                 |
| Created:                                                                            | 18/09/2024                                 |
| Last updated:                                                                       | 18/09/2024                                 |
| VIBASys IDs: sample 55552, genome 55553, sequence viba_55554, sequencing info 55555 |                                            |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.8  | 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  | 94.2  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.5  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 88.0  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.5  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------|
| Virus sample name:                                                                  | ISA/7/2024                                 |
| Sender reference:                                                                   | ISA/Pasuruan/PVT/Pr-2b/2024                |
| Location of origin:                                                                 | Mojotengah, Pasuruan, Jawa Timur, Sukorejo |
| Country of origin:                                                                  | Indonesia                                  |
| Date of collection:                                                                 | 24/02/2024                                 |
| 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:                                                           | 07/09/2024                                 |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R    |
| Received for sequencing:                                                            | 16/09/2024                                 |
| Created:                                                                            | 18/09/2024                                 |
| Last updated:                                                                       | 18/09/2024                                 |
| VIBASys IDs: sample 55556, genome 55557, sequence viba_55558, sequencing info 55559 |                                            |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55566 | ISA/11/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.7  | 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  | 94.3  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.9  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.8  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.2  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.6  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.6  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 88.2  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.7  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| Virus sample name:                                                                  | ISA/9/2024                                      |
| Sender reference:                                                                   | ISA/Kediri/PVT/Sw-7/2024                        |
| Location of origin:                                                                 | Tiron/Sumberbendo, Kediri, Jawa Timur, Banyakan |
| Country of origin:                                                                  | Indonesia                                       |
| Date of collection:                                                                 | 24/02/2024                                      |
| Host species:                                                                       | cattle                                          |
| Serotype:                                                                           | O                                               |
| Topotype:                                                                           | ME-SA                                           |
| Lineage:                                                                            | Ind-2001                                        |
| Sublineage:                                                                         | e                                               |
| Sequence length:                                                                    | 633                                             |
| Ambiguities:                                                                        | 0                                               |
| Material submitted for sequencing:                                                  | WRL-LFBK2                                       |
| Harvest date of material:                                                           | 11/09/2024                                      |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R         |
| Received for sequencing:                                                            | 16/09/2024                                      |
| Created:                                                                            | 18/09/2024                                      |
| Last updated:                                                                       | 18/09/2024                                      |
| VIBASys IDs: sample 55560, genome 55561, sequence viba_55562, sequencing info 55563 |                                                 |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55566 | ISA/11/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55582 | ISA/20/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | 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  | 94.2  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_397   | UAE/4/2008    | gazelle | 88.6  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_359   | Manisa/TUR/69 |         | 88.0  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.6  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.4  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.2  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| Virus sample name:                                                                  | ISA/11/2024                                     |
| Sender reference:                                                                   | ISA/Lumajang/AR340101240041-L21-22/2024         |
| Location of origin:                                                                 | Sumbersari, Lumajang, Jawa Timur, Rowo Kangkung |
| Country of origin:                                                                  | Indonesia                                       |
| Date of collection:                                                                 | 04/03/2024                                      |
| 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:                                                           | 07/09/2024                                      |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R         |
| Received for sequencing:                                                            | 16/09/2024                                      |
| Created:                                                                            | 18/09/2024                                      |
| Last updated:                                                                       | 18/09/2024                                      |
| VIBASys IDs: sample 55564, genome 55565, sequence viba_55566, sequencing info 55567 |                                                 |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55578 | ISA/15/2024                 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.8  | 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  | 94.2  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.5  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 88.0  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.5  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                              |
|-------------------------------------------------------------------------------------|----------------------------------------------|
| Virus sample name:                                                                  | ISA/12/2024                                  |
| Sender reference:                                                                   | ISA/Sleman/PR340101240560-3/2024             |
| Location of origin:                                                                 | Purwobinangun, Sleman, D.I Yogyakarta, Pakem |
| Country of origin:                                                                  | Indonesia                                    |
| Date of collection:                                                                 | 04/03/2024                                   |
| 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:                                                           | 07/09/2024                                   |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R      |
| Received for sequencing:                                                            | 16/09/2024                                   |
| Created:                                                                            | 18/09/2024                                   |
| Last updated:                                                                       | 18/09/2024                                   |
| VIBASys IDs: sample 55568, genome 55569, sequence viba_55570, sequencing info 55571 |                                              |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | 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  | 93.8  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.4  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.5  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 87.7  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.6  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.4  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.2  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
| Virus sample name:                                                                  | ISA/13/2024                                    |
| Sender reference:                                                                   | ISA/Kab. Garut/AR320601240024-(1-6,Pool1)/2024 |
| Location of origin:                                                                 | Cigawir, Kab. Garut, Jawa Barat, Selaawi       |
| Country of origin:                                                                  | Indonesia                                      |
| Date of collection:                                                                 | 05/03/2024                                     |
| Host species:                                                                       | cattle                                         |
| Serotype:                                                                           | O                                              |
| Topotype:                                                                           | ME-SA                                          |
| Lineage:                                                                            | Ind-2001                                       |
| Sublineage:                                                                         | e                                              |
| Sequence length:                                                                    | 633                                            |
| Ambiguities:                                                                        | 0                                              |
| Material submitted for sequencing:                                                  | WRL-LFBK2                                      |
| Harvest date of material:                                                           | 11/09/2024                                     |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R        |
| Received for sequencing:                                                            | 16/09/2024                                     |
| Created:                                                                            | 18/09/2024                                     |
| Last updated:                                                                       | 18/09/2024                                     |
| VIBASys IDs: sample 55572, genome 55573, sequence viba_55574, sequencing info 55575 |                                                |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.7  | 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  | 94.0  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 89.9  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_9021  | LAO/2/2006    | cattle  | 88.0  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_359   | Manisa/TUR/69 |         | 88.0  | 0        | O        | ME-SA    |           |            |
| viba_285   | UKG/35/2001   | porcine | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.7  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------|
| Virus sample name:                                                                  | ISA/15/2024                             |
| Sender reference:                                                                   | ISA/Boyolali/AR340101240047-By4-7/2024  |
| Location of origin:                                                                 | Gubug, Boyolali, Jawa Tengah, Cepogo    |
| Country of origin:                                                                  | Indonesia                               |
| Date of collection:                                                                 | 07/03/2024                              |
| 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:                                                           | 07/09/2024                              |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing:                                                            | 16/09/2024                              |
| Created:                                                                            | 18/09/2024                              |
| Last updated:                                                                       | 18/09/2024                              |
| VIBASys IDs: sample 55576, genome 55577, sequence viba_55578, sequencing info 55579 |                                         |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 100.0 | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55598 | ISA/18/2024                 | cattle | 99.8  | 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  | 94.2  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.5  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.5  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 88.0  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.9  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.5  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
| Virus sample name:                                                                  | ISA/18/2024                                     |
| Sender reference:                                                                   | ISA/Sumedang/AR320601240041-(7-10, Pool2)//2024 |
| Location of origin:                                                                 | Cilayung, Sumedang, Jawa Barat, Jatinangor      |
| Country of origin:                                                                  | Indonesia                                       |
| Date of collection:                                                                 | 28/03/2024                                      |
| Host species:                                                                       | cattle                                          |
| Serotype:                                                                           | O                                               |
| Topotype:                                                                           | ME-SA                                           |
| Lineage:                                                                            | Ind-2001                                        |
| Sublineage:                                                                         | e                                               |
| Sequence length:                                                                    | 633                                             |
| Ambiguities:                                                                        | 0                                               |
| Material submitted for sequencing:                                                  | orig. fluid                                     |
| Harvest date of material:                                                           | n/a                                             |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R         |
| Received for sequencing:                                                            | 18/09/2024                                      |
| Created:                                                                            | 23/09/2024                                      |
| Last updated:                                                                       | 23/09/2024                                      |
| VIBASys IDs: sample 55596, genome 55597, sequence viba_55598, sequencing info 55599 |                                                 |

### Most Closely Related Sequences

| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55566 | ISA/11/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.8  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55558 | ISA/7/2024                  | cattle | 99.7  | 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  | 94.0  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.5  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 89.9  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_27877 | SRL/2/97      | bovine  | 88.3  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_397   | UAE/4/2008    | gazelle | 88.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_359   | Manisa/TUR/69 |         | 87.8  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.7  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.6  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.4  | 0        | O        | ME-SA    | PanAsia-2 |            |

|                                                                                     |                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Virus sample name:                                                                  | ISA/20/2024                                                        |
| Sender reference:                                                                   | ISA/Banjarbaru/A0524200-S1/2024                                    |
| Location of origin:                                                                 | Landasan Ulin Utara, Banjarbaru, Kalimantan Selatan, Landasan Ulin |
| Country of origin:                                                                  | Indonesia                                                          |
| Date of collection:                                                                 | 16/05/2024                                                         |
| Host species:                                                                       | cattle                                                             |
| Serotype:                                                                           | O                                                                  |
| Topotype:                                                                           | ME-SA                                                              |
| Lineage:                                                                            | Ind-2001                                                           |
| Sublineage:                                                                         | e                                                                  |
| Sequence length:                                                                    | 633                                                                |
| Ambiguities:                                                                        | 0                                                                  |
| Material submitted for sequencing:                                                  | WRL-LFBK2                                                          |
| Harvest date of material:                                                           | 11/09/2024                                                         |
| Primers:                                                                            | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R                            |
| Received for sequencing:                                                            | 16/09/2024                                                         |
| Created:                                                                            | 18/09/2024                                                         |
| Last updated:                                                                       | 18/09/2024                                                         |
| VIBASys IDs: sample 55580, genome 55581, sequence viba_55582, sequencing info 55583 |                                                                    |

### Most Closely Related Sequences

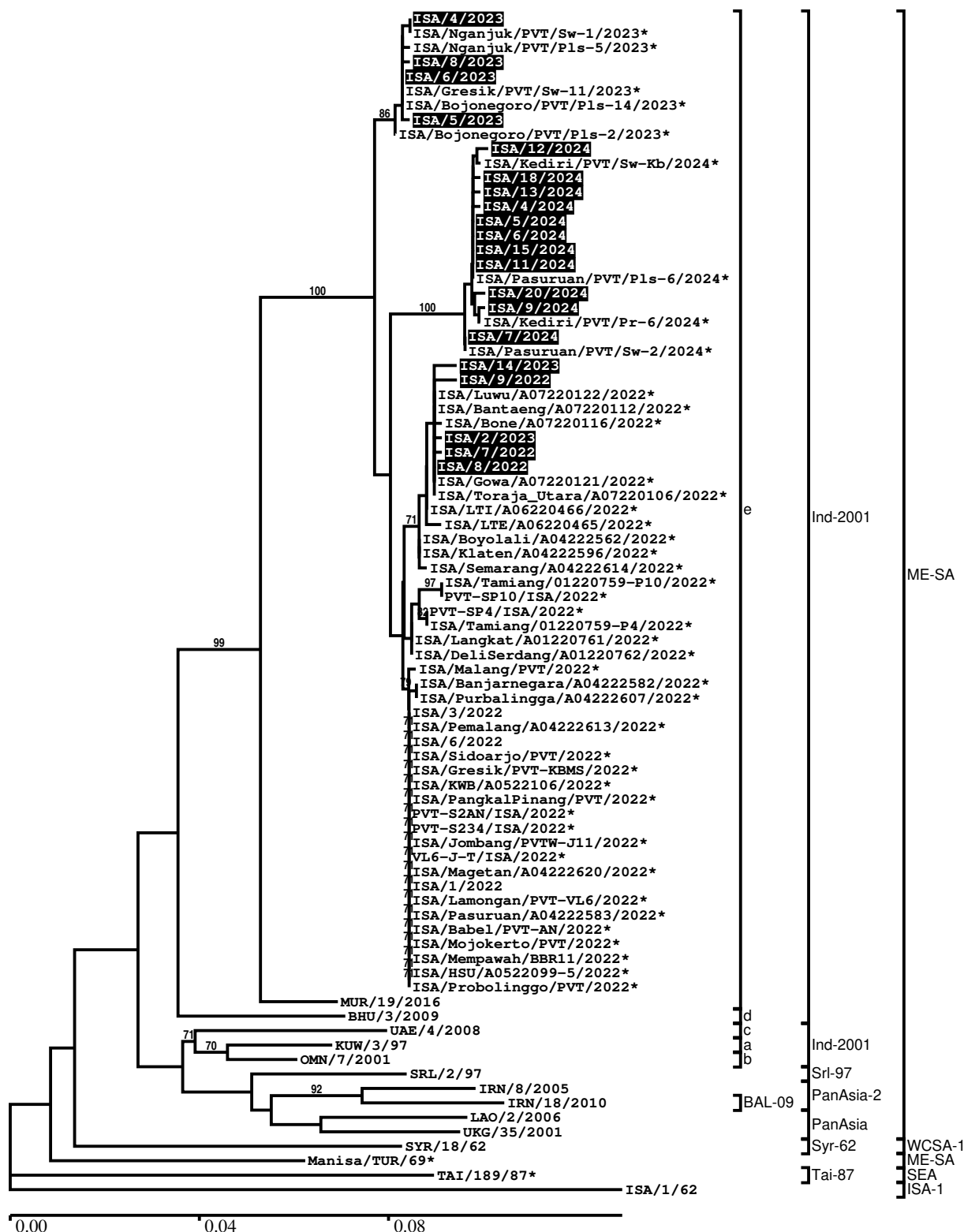
| sequence   | virus name                  | Host   | % Id. | # Ambig. | serotype | topotype | lineage  | sublineage |
|------------|-----------------------------|--------|-------|----------|----------|----------|----------|------------|
| viba_55562 | ISA/9/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55566 | ISA/11/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55578 | ISA/15/2024                 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55554 | ISA/6/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55063 | ISA/Pasuruan/PVT/Pls-6/2024 | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55550 | ISA/5/2024                  | cattle | 99.7  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55067 | ISA/Pasuruan/PVT/Sw-2/2024  | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55055 | ISA/Kediri/PVT/Pr-6/2024    | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55546 | ISA/4/2024                  | cattle | 99.5  | 0        | O        | ME-SA    | Ind-2001 | e          |
| viba_55574 | ISA/13/2024                 | 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  | 94.2  | 0        | O        | ME-SA    | Ind-2001  | e          |
| viba_541   | OMN/7/2001    | bovine  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | b          |
| viba_293   | BHU/3/2009    | cattle  | 90.7  | 0        | O        | ME-SA    | Ind-2001  | d          |
| viba_705   | KUW/3/97      | bovine  | 90.1  | 0        | O        | ME-SA    | Ind-2001  | a          |
| viba_397   | UAE/4/2008    | gazelle | 88.3  | 0        | O        | ME-SA    | Ind-2001  | c          |
| viba_27877 | SRL/2/97      | bovine  | 88.2  | 0        | O        | ME-SA    | Srl-97    |            |
| viba_359   | Manisa/TUR/69 |         | 87.7  | 0        | O        | ME-SA    |           |            |
| viba_9021  | LAO/2/2006    | cattle  | 87.6  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_285   | UKG/35/2001   | porcine | 87.4  | 0        | O        | ME-SA    | PanAsia   |            |
| viba_650   | IRN/8/2005    | ovine   | 87.2  | 0        | O        | ME-SA    | PanAsia-2 |            |

**Batch: WRLFMD/2024/000009**



\*, not a WRLFMD Reference Number

## Analysis Parameters

|                                        |                                               |
|----------------------------------------|-----------------------------------------------|
| VP1 subsequence extractor:             | vp1_O                                         |
| Query sequence set:                    | WRLFMD/2024/000009-Indonesia-O (20 sequences) |
| Sequence database set:                 | allseqs_O (6268 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: | 12                                            |
| 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 |
|----------------------------------|-----------|---------|----------|-----------|-----------------------|
| ISA/4/2023                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Nganjuk/PVT/Sw-1/2023*       | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Nganjuk/PVT/Pls-5/2023*      | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/8/2023                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/6/2023                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Gresik/PVT/Sw-11/2023*       | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Bojonegoro/PVT/Pls-14/2023*  | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/5/2023                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Bojonegoro/PVT/Pls-2/2023*   | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/12/2024                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Kediri/PVT/Sw-Kb/2024*       | n/a       | goat    | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/18/2024                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/13/2024                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/4/2024                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/5/2024                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/6/2024                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/15/2024                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/11/2024                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Pasuruan/PVT/Pls-6/2024*     | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/20/2024                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/9/2024                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Kediri/PVT/Pr-6/2024*        | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/7/2024                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Pasuruan/PVT/Sw-2/2024*      | n/a       | cattle  | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/14/2023                      | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/9/2022                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Luwu/A07220122/2022*         | n/a       | n/a     | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Bantaeng/A07220112/2022*     | n/a       | n/a     | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Bone/A07220116/2022*         | n/a       | n/a     | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/2/2023                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/7/2022                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/8/2022                       | n/a       | cattle  | WRLFMD   | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Gowa/A07220121/2022*         | n/a       | n/a     | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/Toraja_Utara/A07220106/2022* | n/a       | n/a     | PUSVETMA | Indonesia | ME-SA/Ind-2001/e      |
| ISA/LTI/A06220466/2022*          | ON854946  | cattle  | DICWY    | Indonesia | ME-SA/Ind-2001/e      |
| ISA/LTE/A06220465/2022*          | ON854945  | cattle  | DICWY    | Indonesia | ME-SA/Ind-2001/e      |

*continued on next page*

| label                            | accession | host(s) | lab      | country              | taxonomic information  |
|----------------------------------|-----------|---------|----------|----------------------|------------------------|
| ISA/Boyolali/A04222562/2022*     | ON854942  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Klaten/A04222596/2022*       | ON854950  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Semarang/A04222614/2022*     | ON854955  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Tamiang/01220759-P10/2022*   | ON783874  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| PVT-SP10/ISA/2022*               | n/a       | cattle  | Pusvetma | Indonesia            | ME-SA/Ind-2001/e       |
| PVT-SP4/ISA/2022*                | n/a       | cattle  | Pusvetma | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Tamiang/01220759-P4/2022*    | ON783873  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Langkat/A01220761/2022*      | ON854934  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/DeliSerdang/A01220762/2022*  | ON854935  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Malang/PVT/2022*             | ON854941  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Banjarnegara/A04222582/2022* | ON854949  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Purbalingga/A04222607/2022*  | ON854953  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/3/2022                       | n/a       | cattle  | WRLFMD   | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Pemalang/A04222613/2022*     | ON854954  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/6/2022                       | n/a       | cattle  | WRLFMD   | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Sidoarjo/PVT/2022*           | ON854937  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Gresik/PVT-KBMS/2022*        | ON854952  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/KWB/A0522106/2022*           | ON854948  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/PangkalPinang/PVT/2022*      | ON854944  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| PVT-S2AN/ISA/2022*               | n/a       | cattle  | Pusvetma | Indonesia            | ME-SA/Ind-2001/e       |
| PVT-S234/ISA/2022*               | n/a       | cattle  | Pusvetma | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Jombang/PVTW-J11/2022*       | ON854951  | goat    | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| VL6-J-T/ISA/2022*                | n/a       | n/a     | Pusvetma | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Magetan/A04222620/2022*      | ON854956  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/1/2022                       | n/a       | cattle  | WRLFMD   | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Lamongan/PVT-VL6/2022*       | ON854936  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Pasuruan/A04222583/2022*     | ON854943  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Babel/PVT-AN/2022*           | ON854939  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Mojokerto/PVT/2022*          | ON854938  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Mempawah/BBR11/2022*         | ON854947  | goat    | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/HSU/A0522099-5/2022*         | ON854957  | goat    | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| ISA/Probolinggo/PVT/2022*        | ON854940  | cattle  | DICWY    | Indonesia            | ME-SA/Ind-2001/e       |
| MUR/19/2016                      | MG972510  | cattle  | WRLFMD   | Mauritius            | 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       |
| KUW/3/97                         | DQ164904  | bovine  | WRLFMD   | Kuwait               | ME-SA/Ind-2001/a       |
| OMN/7/2001                       | DQ164941  | bovine  | WRLFMD   | Oman                 | ME-SA/Ind-2001/b       |
| SRL/2/97                         | AJ303531  | bovine  | WRLFMD   | Sri Lanka            | ME-SA/Sri-97           |
| IRN/8/2005                       | KY091281  | ovine   | WRLFMD   | Iran                 | ME-SA/PanAsia-2        |
| IRN/18/2010                      | KY091283  | cattle  | WRLFMD   | Iran                 | ME-SA/PanAsia-2/BAL-09 |
| 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          |
| Manisa/TUR/69*                   | AY593823  | n/a     | PIADC    | Turkiye              | ME-SA                  |
| TAI/189/87*                      | KY091288  | bovine  | TRRL     | Thailand             | SEA/Tai-87             |
| ISA/1/62                         | AJ303500  | n/a     | WRLFMD   | Indonesia            | ISA-1                  |

\*, not a WRLFMD Reference Number

n/a, not available