

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

Genotyping Report

FMDV serotype: O
Country: Nigeria
Year: 2020, 2021
Batch: WRLFMD/2021/00016
No. of sequences: 43
Report date: 20th December 2021
Report generated by: Nick Knowles
Report checked by: Jemma Wadsworth



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| | |
|------------------------------------|---|
| Virus sample name: | NIG/37/2020 |
| Sender reference: | PL/KK/1/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 29/10/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49421, genome 49422, sequence viba_49423, sequencing info 49424

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/38/2020 |
| Sender reference: | PL/KK/2/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 30/10/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49425, genome 49426, sequence viba_49427, sequencing info 49428

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/39/2020 |
| Sender reference: | PL/KK/3/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 29/10/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49429, genome 49430, sequence viba_49431, sequencing info 49432

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.7 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.5 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_85 | UGA/3/2002 | | 83.9 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_576 | IND/R2/75 | | 83.4 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/40/2020 |
| Sender reference: | PL/KK/4/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 03/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49433, genome 49434, sequence viba_49435, sequencing info 49436

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/41/2020 |
| Sender reference: | PL/KK/5/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 03/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49437, genome 49438, sequence viba_49439, sequencing info 49440

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49443 | NIG/42/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.2 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.8 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.0 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.5 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 83.8 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.6 | 0 | O | EA-2 | | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_523 | K83/79 | | 83.6 | 0 | O | EA-1 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/42/2020 |
| Sender reference: | PL/KK/6/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 03/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49441, genome 49442, sequence viba_49443, sequencing info 49444

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49439 | NIG/41/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.2 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.8 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.0 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.5 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 83.8 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.6 | 0 | O | EA-2 | | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_523 | K83/79 | | 83.6 | 0 | O | EA-1 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/43/2020 |
| Sender reference: | PL/KK/7/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 03/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49445, genome 49446, sequence viba_49447, sequencing info 49448

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49455 | NIG/45/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/44/2020 |
| Sender reference: | PL/KK/8/2020 |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 04/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49449, genome 49450, sequence viba_49451, sequencing info 49452

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/45/2020 |
| Sender reference: | P2/S3/KK |
| Location of origin: | Kanke, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 06/10/2020 |
| Host species: | sheep |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 04/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49453, genome 49454, sequence viba_49455, sequencing info 49456

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49495 | NIG/62/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|---|---|
| Virus sample name: | NIG/46/2020 |
| Sender reference: | PL/BK/1/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 07/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 04/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49457, genome 49458, sequence viba_49459, sequencing info 49460 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|---------------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49463 | NIG/47/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49471 | NIG/49/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49467 | NIG/48/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_42928 | PL/IDH/3/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_42924 | PL/IDF/1/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_37755 | BKF/15/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37567 | SEN/1/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37583 | SEN/9/2018 | cattle | 96.4 | 0 | O | EA-3 | | |
| viba_42932 | PL/NV/2018/NIG/2018 | bovine | 96.4 | 0 | O | EA-3 | | |
| viba_37575 | SEN/4/2018 | cattle | 96.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 87.9 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_408 | ETH/3/2004 | cattle | 84.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_621 | ETH/58/2005 | bovine | 83.7 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_359 | Manisa/TUR/69 | | 83.3 | 0 | O | ME-SA | | |
| viba_85 | UGA/3/2002 | | 83.2 | 0 | O | EA-2 | | |
| viba_860 | IRN/6/2015 | cattle | 83.2 | 0 | O | ME-SA | PanAsia-2 | QOM-15 |

| | |
|---|---|
| Virus sample name: | NIG/47/2020 |
| Sender reference: | PL/BK/2/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 07/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 05/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49461, genome 49462, sequence viba_49463, sequencing info 49464 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|---------------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49459 | NIG/46/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49471 | NIG/49/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49467 | NIG/48/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_42928 | PL/IDH/3/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_42924 | PL/IDF/1/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_37755 | BKF/15/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37567 | SEN/1/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37583 | SEN/9/2018 | cattle | 96.4 | 0 | O | EA-3 | | |
| viba_42932 | PL/NV/2018/NIG/2018 | bovine | 96.4 | 0 | O | EA-3 | | |
| viba_37575 | SEN/4/2018 | cattle | 96.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 87.9 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_408 | ETH/3/2004 | cattle | 84.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_621 | ETH/58/2005 | bovine | 83.7 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_359 | Manisa/TUR/69 | | 83.3 | 0 | O | ME-SA | | |
| viba_85 | UGA/3/2002 | | 83.2 | 0 | O | EA-2 | | |
| viba_860 | IRN/6/2015 | cattle | 83.2 | 0 | O | ME-SA | PanAsia-2 | QOM-15 |

| | |
|---|---|
| Virus sample name: | NIG/48/2020 |
| Sender reference: | PL/BK/3/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 07/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 05/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49465, genome 49466, sequence viba_49467, sequencing info 49468 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|---------------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49463 | NIG/47/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49459 | NIG/46/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49471 | NIG/49/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_42928 | PL/IDH/3/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_42924 | PL/IDF/1/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_37755 | BKF/15/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37567 | SEN/1/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37583 | SEN/9/2018 | cattle | 96.4 | 0 | O | EA-3 | | |
| viba_42932 | PL/NV/2018/NIG/2018 | bovine | 96.4 | 0 | O | EA-3 | | |
| viba_37575 | SEN/4/2018 | cattle | 96.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 87.9 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_408 | ETH/3/2004 | cattle | 84.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_621 | ETH/58/2005 | bovine | 83.7 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_359 | Manisa/TUR/69 | | 83.3 | 0 | O | ME-SA | | |
| viba_85 | UGA/3/2002 | | 83.2 | 0 | O | EA-2 | | |
| viba_860 | IRN/6/2015 | cattle | 83.2 | 0 | O | ME-SA | PanAsia-2 | QOM-15 |

| | |
|---|---|
| Virus sample name: | NIG/49/2020 |
| Sender reference: | PL/BK/4/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 07/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 05/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49469, genome 49470, sequence viba_49471, sequencing info 49472 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|---------------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49463 | NIG/47/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49459 | NIG/46/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49467 | NIG/48/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_42928 | PL/IDH/3/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_42924 | PL/IDF/1/NIG/2017 | bovine | 96.5 | 0 | O | EA-3 | | |
| viba_37755 | BKF/15/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37567 | SEN/1/2018 | cattle | 96.5 | 0 | O | EA-3 | | |
| viba_37583 | SEN/9/2018 | cattle | 96.4 | 0 | O | EA-3 | | |
| viba_42932 | PL/NV/2018/NIG/2018 | bovine | 96.4 | 0 | O | EA-3 | | |
| viba_37575 | SEN/4/2018 | cattle | 96.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 87.9 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_408 | ETH/3/2004 | cattle | 84.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.9 | 0 | O | ME-SA | Ind-2001 | e |
| viba_621 | ETH/58/2005 | bovine | 83.7 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_359 | Manisa/TUR/69 | | 83.3 | 0 | O | ME-SA | | |
| viba_85 | UGA/3/2002 | | 83.2 | 0 | O | EA-2 | | |
| viba_860 | IRN/6/2015 | cattle | 83.2 | 0 | O | ME-SA | PanAsia-2 | QOM-15 |

| | |
|---|---|
| Virus sample name: | NIG/52/2020 |
| Sender reference: | PL/BK/7/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 08/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 09/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49473, genome 49474, sequence viba_49475, sequencing info 49476 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49487 | NIG/55/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49483 | NIG/54/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49479 | NIG/53/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.1 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.1 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 84.9 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.2 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_68 | TAI/189/87 | bovine | 83.5 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.4 | 0 | O | SEA | Mya-98 | |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/53/2020 |
| Sender reference: | PL/BK/8/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 08/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 09/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49477, genome 49478, sequence viba_49479, sequencing info 49480

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49487 | NIG/55/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49483 | NIG/54/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49475 | NIG/52/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.1 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.1 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.1 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.1 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 98.9 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 98.9 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 84.7 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.1 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_199 | MYA/7/98 | bovine | 83.6 | 0 | O | SEA | Mya-98 | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_68 | TAI/189/87 | bovine | 83.5 | 0 | O | SEA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/54/2020 |
| Sender reference: | PL/BK/9/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 08/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 09/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49481, genome 49482, sequence viba_49483, sequencing info 49484

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49487 | NIG/55/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49475 | NIG/52/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49479 | NIG/53/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.1 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.1 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 84.9 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.2 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_68 | TAI/189/87 | bovine | 83.5 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.4 | 0 | O | SEA | Mya-98 | |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/55/2020 |
| Sender reference: | PL/BK/10/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 08/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 09/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49485, genome 49486, sequence viba_49487, sequencing info 49488

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49483 | NIG/54/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49475 | NIG/52/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49479 | NIG/53/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.1 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.1 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 84.9 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.2 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_68 | TAI/189/87 | bovine | 83.5 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.4 | 0 | O | SEA | Mya-98 | |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |

| | |
|---|---|
| Virus sample name: | NIG/58/2020 |
| Sender reference: | PL/BK/13/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 08/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 09/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49489, genome 49490, sequence viba_49491, sequencing info 49492 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49526 | NIG/92/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49542 | NIG/96/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.2 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.6 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.1 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_85 | UGA/3/2002 | | 83.6 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.3 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_68 | TAI/189/87 | bovine | 83.3 | 0 | O | SEA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/62/2020 |
| Sender reference: | PL/KOM/2/2020 |
| Location of origin: | Jos South, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 10/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 10/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 22/11/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49493, genome 49494, sequence viba_49495, sequencing info 49496

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49447 | NIG/43/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49443 | NIG/42/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49439 | NIG/41/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49431 | NIG/39/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.7 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_576 | IND/R2/75 | | 83.6 | 0 | O | ME-SA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/73/2020 |
| Sender reference: | PL/BS/1/2020 |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 13/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 24/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49497, genome 49498, sequence viba_49499, sequencing info 49500

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49511 | NIG/77/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.6 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.3 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.3 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 84.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |

| | |
|---|---|
| Virus sample name: | NIG/74/2020 |
| Sender reference: | PL/BS/2/2020 |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 13/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 24/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49501, genome 49502, sequence viba_49503, sequencing info 49504 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49511 | NIG/77/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.6 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.3 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.3 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 84.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |

| | |
|---|---|
| Virus sample name: | NIG/75/2020 |
| Sender reference: | PL/BS/3/2020 |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 13/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 24/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49505, genome 49506, sequence viba_49507, sequencing info 49508 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49511 | NIG/77/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.7 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.5 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.3 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.2 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.6 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.5 | 0 | O | SEA | | |
| viba_766 | IRN/31/2009 | cattle | 83.4 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |

| | |
|---|---|
| Virus sample name: | NIG/77/2020 |
| Sender reference: | PL/BS/5/2020 |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 13/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 24/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49509, genome 49510, sequence viba_49511, sequencing info 49512 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49515 | NIG/78/2020 | sheep | 100.0 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.6 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.3 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.3 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 84.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |

| | |
|---|---|
| Virus sample name: | NIG/78/2020 |
| Sender reference: | P10/S1/BS |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 13/10/2020 |
| Host species: | sheep |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 24/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49513, genome 49514, sequence viba_49515, sequencing info 49516 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49511 | NIG/77/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.6 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.3 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.3 | 0 | O | EA-3 | | |
| viba_30238 | MUR/19/2016 | cattle | 84.0 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.7 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_766 | IRN/31/2009 | cattle | 83.6 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |

| | |
|---|---|
| Virus sample name: | NIG/80/2020 |
| Sender reference: | P10/S5/BS |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 13/10/2020 |
| Host species: | sheep |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 25/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49517, genome 49518, sequence viba_49519, sequencing info 49520 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49511 | NIG/77/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49523 | NIG/88/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.8 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.6 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.5 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 84.1 | 0 | O | ME-SA | Ind-2001 | e |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_523 | K83/79 | | 83.7 | 0 | O | EA-1 | | |
| viba_85 | UGA/3/2002 | | 83.6 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.5 | 0 | O | SEA | | |

| | |
|---|---|
| Virus sample name: | NIG/88/2020 |
| Sender reference: | PL/BS/6/2020 |
| Location of origin: | Bassa, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 16/10/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 26/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49521, genome 49522, sequence viba_49523, sequencing info 49524 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49511 | NIG/77/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.8 | 0 | O | EA-3 | | |
| viba_49499 | NIG/73/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49503 | NIG/74/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 99.7 | 0 | O | EA-3 | | |
| viba_49507 | NIG/75/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49487 | NIG/55/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49483 | NIG/54/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49475 | NIG/52/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.8 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.6 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_408 | ETH/3/2004 | cattle | 84.5 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.2 | 0 | O | WA | | |
| viba_85 | UGA/3/2002 | | 83.9 | 0 | O | EA-2 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.8 | 0 | O | ME-SA | Ind-2001 | e |
| viba_68 | TAI/189/87 | bovine | 83.8 | 0 | O | SEA | | |
| viba_576 | IND/R2/75 | | 83.8 | 0 | O | ME-SA | | |

| | |
|---|---|
| Virus sample name: | NIG/92/2020 |
| Sender reference: | PL/BLD/4/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK2 |
| Harvest date of material: | 30/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49373, genome 49525, sequence viba_49526, sequencing info 49527 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49530 | NIG/93/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49542 | NIG/96/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.2 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.6 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.5 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|---|---|
| Virus sample name: | NIG/93/2020 |
| Sender reference: | PL/BLD/5/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 27/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49528, genome 49529, sequence viba_49530, sequencing info 49531 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49526 | NIG/92/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49542 | NIG/96/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.2 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.6 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.5 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/94/2020 |
| Sender reference: | PL/BLD/6/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK2 |
| Harvest date of material: | 30/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49532, genome 49533, sequence viba_49534, sequencing info 49535

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49526 | NIG/92/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49542 | NIG/96/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.2 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.6 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.5 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_30238 | MUR/19/2016 | cattle | 83.4 | 0 | O | ME-SA | Ind-2001 | e |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/95/2020 |
| Sender reference: | PL/BLD/7/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 27/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49536, genome 49537, sequence viba_49538, sequencing info 49539

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49542 | NIG/96/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|---|---|
| Virus sample name: | NIG/96/2020 |
| Sender reference: | PL/BLD/8/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 27/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49540, genome 49541, sequence viba_49542, sequencing info 49543 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49546 | NIG/97/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|---|---|
| Virus sample name: | NIG/97/2020 |
| Sender reference: | PL/BLD/9/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 27/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49544, genome 49545, sequence viba_49546, sequencing info 49547 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49542 | NIG/96/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/98/2020 |
| Sender reference: | PL/BLD/10/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 27/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49548, genome 49549, sequence viba_49550, sequencing info 49551

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49542 | NIG/96/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49554 | NIG/99/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|---|---|
| Virus sample name: | NIG/99/2020 |
| Sender reference: | PL/BLD/11/2020 |
| Location of origin: | Barkin-Ladi, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 03/11/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 30/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49552, genome 49553, sequence viba_49554, sequencing info 49555 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49542 | NIG/96/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49546 | NIG/97/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49550 | NIG/98/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49538 | NIG/95/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49491 | NIG/58/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49526 | NIG/92/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49530 | NIG/93/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49534 | NIG/94/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49511 | NIG/77/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49515 | NIG/78/2020 | sheep | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.2 | 0 | O | EA-4 | | |
| viba_104 | GHA/5/93 | bovine | 84.4 | 0 | O | WA | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_68 | TAI/189/87 | bovine | 83.6 | 0 | O | SEA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|---|---|
| Virus sample name: | NIG/104/2020 |
| Sender reference: | PL/BK/16/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 04/12/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 30/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49401, genome 49402, sequence viba_49403, sequencing info 49404 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49415 | NIG/107/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49419 | NIG/108/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49411 | NIG/106/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.5 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.5 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|---|---|
| Virus sample name: | NIG/105/2020 |
| Sender reference: | PL/BK/17/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 04/12/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 30/11/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49405, genome 49406, sequence viba_49407, sequencing info 49408 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49415 | NIG/107/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49419 | NIG/108/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49411 | NIG/106/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.5 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.5 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/106/2020 |
| Sender reference: | PL/BK/18/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 04/12/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 01/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49409, genome 49410, sequence viba_49411, sequencing info 49412

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49415 | NIG/107/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49419 | NIG/108/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.2 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.2 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.2 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 87.7 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.8 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 84.9 | 0 | O | EA-3 | | |
| viba_408 | ETH/3/2004 | cattle | 83.7 | 0 | O | EA-3 | | |
| viba_766 | IRN/31/2009 | cattle | 83.4 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_285 | UKG/35/2001 | porcine | 83.4 | 0 | O | ME-SA | PanAsia | |
| viba_104 | GHA/5/93 | bovine | 83.3 | 0 | O | WA | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |
| viba_199 | MYA/7/98 | bovine | 83.3 | 0 | O | SEA | Mya-98 | |
| viba_30238 | MUR/19/2016 | cattle | 83.2 | 0 | O | ME-SA | Ind-2001 | e |

| | |
|---|---|
| Virus sample name: | NIG/107/2020 |
| Sender reference: | PL/BK/19/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 04/12/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 02/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49413, genome 49414, sequence viba_49415, sequencing info 49416 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49403 | NIG/104/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49419 | NIG/108/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49411 | NIG/106/2020 | cattle | 99.7 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.5 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.5 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 88.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.5 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.2 | 0 | O | EA-3 | | |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_766 | IRN/31/2009 | cattle | 83.7 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_285 | UKG/35/2001 | porcine | 83.7 | 0 | O | ME-SA | PanAsia | |
| viba_104 | GHA/5/93 | bovine | 83.6 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_85 | UGA/3/2002 | | 83.4 | 0 | O | EA-2 | | |
| viba_302 | CIV/8/99 | bovine | 83.3 | 0 | O | WA | | |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/108/2020 |
| Sender reference: | PL/BK/20/2020 |
| Location of origin: | Bokkos, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 04/12/2020 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 01/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49417, genome 49418, sequence viba_49419, sequencing info 49420

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49415 | NIG/107/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 99.8 | 0 | O | EA-3 | | |
| viba_49411 | NIG/106/2020 | cattle | 99.5 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 99.4 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49423 | NIG/37/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49451 | NIG/44/2020 | cattle | 99.4 | 0 | O | EA-3 | | |
| viba_49435 | NIG/40/2020 | cattle | 99.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 87.9 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.4 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.0 | 0 | O | EA-3 | | |
| viba_408 | ETH/3/2004 | cattle | 84.1 | 0 | O | EA-3 | | |
| viba_766 | IRN/31/2009 | cattle | 83.9 | 0 | O | ME-SA | PanAsia-2 | FAR-09 |
| viba_285 | UKG/35/2001 | porcine | 83.9 | 0 | O | ME-SA | PanAsia | |
| viba_30238 | MUR/19/2016 | cattle | 83.7 | 0 | O | ME-SA | Ind-2001 | e |
| viba_199 | MYA/7/98 | bovine | 83.5 | 0 | O | SEA | Mya-98 | |
| viba_104 | GHA/5/93 | bovine | 83.4 | 0 | O | WA | | |
| viba_62 | ETH/2/2006 | bovine | 83.4 | 0 | O | EA-3 | | |

| | |
|---|---|
| Virus sample name: | NIG/7/2021 |
| Sender reference: | PL/JS/1/21 |
| Location of origin: | Jos South, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 30/09/2021 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 01/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49556, genome 49557, sequence viba_49558, sequencing info 49559 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49566 | NIG/9/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49562 | NIG/8/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49570 | NIG/10/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 98.4 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 98.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 89.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.9 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 84.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.8 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.6 | 0 | O | SEA | Mya-98 | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_293 | BHU/3/2009 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | d |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/8/2021 |
| Sender reference: | PL/JS/2/21 |
| Location of origin: | Jos South, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 30/09/2021 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 03/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49560, genome 49561, sequence viba_49562, sequencing info 49563

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49566 | NIG/9/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49570 | NIG/10/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49558 | NIG/7/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 98.4 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 98.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 89.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.9 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 84.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.8 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.6 | 0 | O | SEA | Mya-98 | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_293 | BHU/3/2009 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | d |

| | |
|------------------------------------|---|
| Virus sample name: | NIG/9/2021 |
| Sender reference: | PL/JS/3/21 |
| Location of origin: | Jos South, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 30/09/2021 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 02/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |

VIBASys IDs: sample 49564, genome 49565, sequence viba_49566, sequencing info 49567

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49562 | NIG/8/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49570 | NIG/10/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49558 | NIG/7/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 98.4 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 98.4 | 0 | O | EA-3 | | |

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_116 | SUD/2/86 | bovine | 89.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.9 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 84.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.8 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.6 | 0 | O | SEA | Mya-98 | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_293 | BHU/3/2009 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | d |

| | |
|---|---|
| Virus sample name: | NIG/10/2021 |
| Sender reference: | PL/JS/4/21 |
| Location of origin: | Jos South, Plateau State |
| Country of origin: | Nigeria |
| Date of collection: | 30/09/2021 |
| Host species: | cattle |
| Serotype: | O |
| Topotype: | EA-3 |
| Lineage: | |
| Sublineage: | |
| Sequence length: | 633 |
| Ambiguities: | 0 |
| Material submitted for sequencing: | WRL-LFBK1 |
| Harvest date of material: | 02/12/2021 |
| Primers: | O-1C244F/EUR-2B52R; FMD-3161F/FMD-4303R |
| Received for sequencing: | 08/12/2021 |
| Created: | 20/12/2021 |
| Last updated: | 20/12/2021 |
| VIBASys IDs: sample 49568, genome 49569, sequence viba_49570, sequencing info 49571 | |

Most Closely Related Sequences

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|--------------|--------|-------|----------|----------|----------|---------|------------|
| viba_49566 | NIG/9/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49562 | NIG/8/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49558 | NIG/7/2021 | cattle | 100.0 | 0 | O | EA-3 | | |
| viba_49415 | NIG/107/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49403 | NIG/104/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49407 | NIG/105/2020 | cattle | 98.6 | 0 | O | EA-3 | | |
| viba_49519 | NIG/80/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49447 | NIG/43/2020 | cattle | 98.4 | 0 | O | EA-3 | | |
| viba_49455 | NIG/45/2020 | sheep | 98.4 | 0 | O | EA-3 | | |
| viba_49427 | NIG/38/2020 | cattle | 98.4 | 0 | O | EA-3 | | |

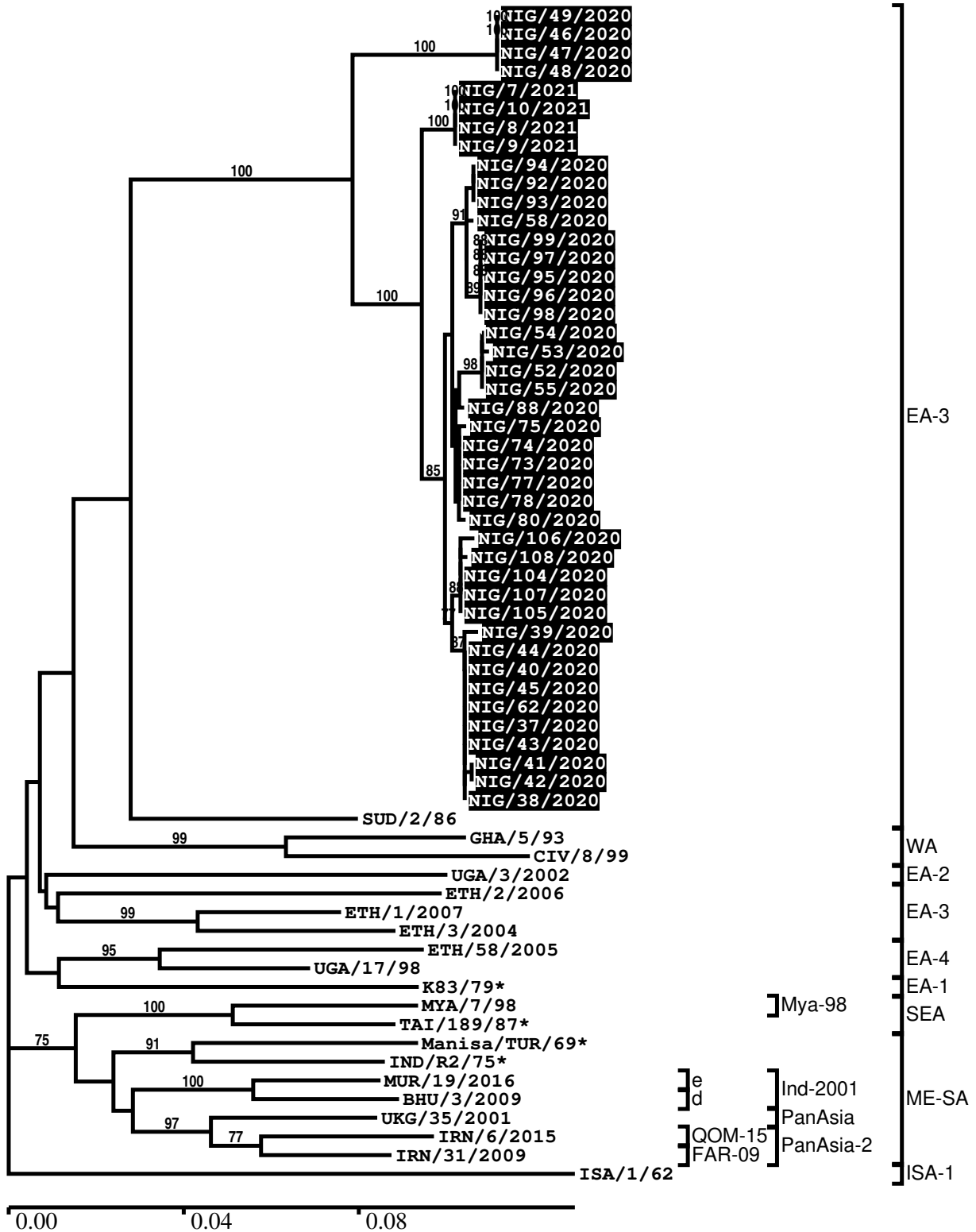
Most Closely Related Prototype Sequences

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

| sequence | virus name | Host | % Id. | # Ambig. | serotype | topotype | lineage | sublineage |
|------------|-------------|---------|-------|----------|----------|----------|----------|------------|
| viba_116 | SUD/2/86 | bovine | 89.0 | 0 | O | EA-3 | | |
| viba_50 | UGA/17/98 | | 85.6 | 0 | O | EA-4 | | |
| viba_854 | ETH/1/2007 | cattle | 85.5 | 0 | O | EA-3 | | |
| viba_104 | GHA/5/93 | bovine | 84.9 | 0 | O | WA | | |
| viba_30238 | MUR/19/2016 | cattle | 84.5 | 0 | O | ME-SA | Ind-2001 | e |
| viba_408 | ETH/3/2004 | cattle | 84.0 | 0 | O | EA-3 | | |
| viba_68 | TAI/189/87 | bovine | 83.8 | 0 | O | SEA | | |
| viba_199 | MYA/7/98 | bovine | 83.6 | 0 | O | SEA | Mya-98 | |
| viba_285 | UKG/35/2001 | porcine | 83.6 | 0 | O | ME-SA | PanAsia | |
| viba_293 | BHU/3/2009 | cattle | 83.5 | 0 | O | ME-SA | Ind-2001 | d |

Report on FMDV O in Nigeria in 2020, 2021

Batch: WRLFMD/2021/00016



*, not a WRLFMD Reference Number

Analysis Parameters

| | |
|--|--|
| VP1 subsequence extractor: | vp1_O |
| Query sequence set: | WRLFMD/2021/00016-Nigeria-O (43 sequences) |
| Sequence database set: | allseqs_O (5418 sequences) |
| Prototype sequence set: | !prototypes_O (49 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: | 19 |
| 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 |
|--------------|-----------|---------|--------|---------|-----------------------|
| NIG/49/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/46/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/47/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/48/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/7/2021 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/10/2021 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/8/2021 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/9/2021 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/94/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/92/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/93/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/58/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/99/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/97/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/95/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/96/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/98/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/54/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/53/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/52/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/55/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/88/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/75/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/74/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/73/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/77/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/78/2020 | n/a | sheep | WRLFMD | Nigeria | EA-3 |
| NIG/80/2020 | n/a | sheep | WRLFMD | Nigeria | EA-3 |
| NIG/106/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/108/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/104/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/107/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/105/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/39/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/44/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/40/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |

continued on next page

| label | accession | host(s) | lab | country | taxonomic information |
|----------------|-----------|---------|--------|----------------|------------------------|
| NIG/45/2020 | n/a | sheep | WRLFMD | Nigeria | EA-3 |
| NIG/62/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/37/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/43/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/41/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/42/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| NIG/38/2020 | n/a | cattle | WRLFMD | Nigeria | EA-3 |
| SUD/2/86 | DQ165075 | bovine | WRLFMD | Sudan | EA-3 |
| GHA/5/93 | AJ303488 | bovine | WRLFMD | Ghana | WA |
| CIV/8/99 | AJ303485 | bovine | WRLFMD | Cote d' Ivoire | WA |
| UGA/3/2002 | DQ165077 | n/a | WRLFMD | Uganda | EA-2 |
| ETH/2/2006 | FJ798127 | bovine | WRLFMD | Ethiopia | EA-3 |
| ETH/1/2007 | FJ798137 | cattle | WRLFMD | Ethiopia | EA-3 |
| ETH/3/2004 | FJ798109 | cattle | WRLFMD | Ethiopia | EA-3 |
| ETH/58/2005 | FJ798141 | bovine | WRLFMD | Ethiopia | EA-4 |
| UGA/17/98 | HM211075 | n/a | WRLFMD | Uganda | EA-4 |
| K83/79* | AJ303511 | n/a | WRLFMD | Kenya | EA-1 |
| MYA/7/98 | DQ164925 | bovine | WRLFMD | Myanmar | SEA/Mya-98 |
| TAI/189/87* | KY091288 | bovine | TRRL | Thailand | SEA |
| Manisa/TUR/69* | AY593823 | n/a | PIADC | Turkey | ME-SA |
| IND/R2/75* | AF204276 | n/a | PD-FMD | India | ME-SA |
| MUR/19/2016 | MG972510 | cattle | WRLFMD | Mauritius | ME-SA/Ind-2001/e |
| BHU/3/2009 | KM921814 | cattle | WRLFMD | Bhutan | ME-SA/Ind-2001/d |
| UKG/35/2001 | AJ539141 | porcine | PIADC | United Kingdom | ME-SA/PanAsia |
| IRN/6/2015 | MN276044 | cattle | WRLFMD | Iran | ME-SA/PanAsia-2/QOM-15 |
| IRN/31/2009 | KY091284 | cattle | WRLFMD | Iran | ME-SA/PanAsia-2/FAR-09 |
| ISA/1/62 | AJ303500 | n/a | WRLFMD | Indonesia | ISA-1 |

*, not a WRLFMD Reference Number

n/a, not available