

Virus sequence info:

**SARS coronavirus, complete genome**

NCBI Reference Sequence: NC\_004718.3

**Influenza A virus (A/AA/Huston/1945(H1N1)) segment 1, complete sequence**

GenBank: CY021716.1

**Zika virus isolate ZIKV/Homo sapiens/PAN/CDC-259249\_V1-V3/2015, complete genome**

GenBank: MN124091.1

**Measles morbillivirus complete genome**

NCBI Reference Sequence: NC\_001498.1

#### Group 1 Sequences:

> SARS virus strain\_2 patients\_New York City

GTGACGAGCTTGGCACTGATCCATTGAAGATTATGAACAAAACCTGGAACACTAAGCATGGCAGTGGTGCT

> Influenza A virus\_1\_Albania

TCAATTATATTCAATATGGAAAGAATAAAAGAACTAAGGAATCTAATGTGCAATCTCGCACTCGCGAGA

> Zika virus\_1\_Chicago

CGTTAGTGGACAGAGGCTGGGGAAATGGATGTGGACTTTTTGGCAAAGGGAGCCTGGTGACATGCGCTAA

> Influenza A virus\_1\_Wichita

GGGCAACAGCTATACTCAGAAAAGCAACCAGGAGATTGATTCAGCTGATAGTGAGTGAAGAGACGAACA

> Measles virus\_2\_Washington\_D.C.

AGGATTCAAGATCCTATTATCAGGGACAAGAGCAGGATTAGGGATATCCGAGATGGCCACACTTTTGAGG

> SARS virus strain\_1\_Austin

TTTAAACTTACTGACAATGTTGCCATTAAATGTGTTGACATCGTTAAGGAGGCACAAAGTGCTAATCCT

> Zika virus\_1\_Washington\_D.C.

AAGAAGTTCAAGAAAGATCTGGCTGCCATGCTGAGAATAATCAATGCTAGGAAGGAGAAGAAGAGACGAG

#### Group 2 Samples:

> Influenza A virus\_2\_Boston

TGATGATATTGATCAAAGTCTAATTATTGCTGCTAGGAACATAGTGAGAAGAGCTGCTGTATCAGCAGAT

> Zika virus\_2\_Helena

TGTGTACGGAACCTGCCATCACAAAAAGGTGAAGCACGGAGATCTAGAAGAGCCGTGACGCTCCCCCTCC

> SARS virus strain\_1\_Denver

CACCTAATGCTAAGGAAGAGATTCTAGGAACTGTATCCTGGAATTTGAGAGAAATGCTTGCTCATGCTGA

> Measles virus\_1\_Seattle

GAATCAAACACATTATTATAGTACCAATTCCTGGAGATTTCCTCAATTACCACTCGATCCAGACTACTGGA

> Influenza A virus\_1\_Lincoln

ATTAACGATAACCAAAGAGAAGAAAGAAGAACTCAAGGATTGCAAATTTCTCCTTTGATGGTTGCATAC

> SARS virus strain\_1\_LA

GAGTACACTGGTAACATATCAGTGTGGTCATTACACTCATATAACTGCTAAGGAGACCCTCTATCGTATTG

> Zika virus\_1\_LA

TCAGTTCATGGCTCCCAGCACAGTGGGATGATTGTTAATGACACAGGACATGAACTGATGAGAATAGAG

#### Group 3 Samples:

> Measles virus\_1\_New York

GGCTGTTAGAGGTTGTTTCAGAGTGACCAGTCACAATCTGGCCTTACCTTCGCATCAAGAGGTACCAACAT

> Zika virus\_1\_Cheyenne

GGGAAGCTCAACGAGCCAAAAAGTCATATACTTGGTCATGATACTGCTGATTGCCCCGGCATAACAGCATC

> SARS virus strain\_1\_Sacramento

GTGAAGTCTTCATCGCTCAAAGCAAGGGACTTTACCGTCAGTGTATACGTGGCAAGGAGCAGCTGCAACT

> Influenza A virus\_2\_Bismark

CTTCAGTTTTGGCGGATTCACATTTAAGAGAACAAGCGGATCATCAGTCAAGAGAGAGGAGGAAGTGCTT

> Zika virus\_1\_Columbus

AGGTGCATAGGAGTCAGCAATAGGGACTTTGTGGAAGGTATGTCAGGTGGGACTTGGGTTGATGTGCTCT

> SARS virus strain\_2\_Las Vegas

TTACATATGCATCTGCACTCTGGGAAATCCAGCAAGTTGTTGATGCGGATAGCAAGATTGTTCAACTTAG

> Influenza A virus\_1\_LA

ATGATTCTCTGAGAGAAATGACCAAGGACAACTTTATGGAGTAAATGAATGATGCCGGATCAGACCGAG

#### Group 4 Samples:

```
> SARS virus strain_2_sacramento
AACAAGGCACTCGAAATGTGCATTGATCAAGTCACTATCGCTGGCGCAAAGTTGCGATCACTCAACTTAG
> Zika virus_1_Miami
GGGATGAATAAGTGTTATATACAGATCATGGATCTTGGACACATGTGTGATGCCACCATGAGCTATGAAT
> Measles virus_2_Miami
GAGCTATGCCATGGGAGTAGGAGTGGAACTTGAAAACCTCCATGGGAGGTTTGAACCTTTGGTCGATCTTAC
> SARS virus strain_1_Sante Fe
TATTCTCATGACAGCTCGCACTGTTTATGATGATGCTGCTAGACGTGTTTGGACACTGATGAATGTCATT
> Zika virus_1_Dallas
TGGAACATGGAGGTTGTGTCCCGTAATGGCACAGGACAAACCGACTGTGACATAGAGCTGGTTACAAC
> Influenza A virus_1_Salt lake city
AAAAATCTACAAAACCTATTTTGAAAAAGTCGAAAGGTTAAAACATGGAACCTTTGGCCCTGTCCATTTT
> SARS virus strain_1_LA
GTATACGGCATGCTCTCATGCAGCTGTTGATGCCCTATGTGAAAAGGCATTAAAATATTTGCCCATAGAT
```

#### Group 5 Samples:

```
> Zika virus_1_Raleigh
TGGGAGTGCATACTATATGTACTTGGACAGAAACGATGCTGGGGAGGCCATATCTTTTCCAACCACATTG
> Measles virus_1_Miami
GCTACAGAGAAACCGGGTCCAGCAGAGCAAGTGATGCGAGAGCTGCCCATCCTCCAACCAGCATGCCCT
> SARS virus strain_2_LA
TCTTTGGAGTACAAAGCCAGTAGATACTTCAAATTCATTTGAAGTTCTGGCAGTAGAAGACACACAAGGA
> Influenza A virus_1_Sante Fe
ATGTTAGAGAGAGAACTAGTCCGCAAAACGAGATTCTCCAGTTGCTGGTGGAACAAGCAGTGTGTACA
> SARS virus strain_1_Chicago
CCTCTACTTTTGACAAGGCTGGTCAAAAGACCTATGAGAGACATCCGCTCTCCCATTTTGTCAATTTAGAC
> Influenza A virus_1_Atlanta
CCCGTCACTTAGGATGAAATGGATGATGGCAATGAAATATCCAATTACAGCAGACAAAAGGATAACGGAA
> SARS virus strain_1_Seattle
TTTGTCCGTATCCAACCTGGTCAAACATTTTCAGTTCTAGCATGCTACAATGGTTTACCATCTGGTGTTT
```

#### Group 6 samples:

```
> Influenza A virus_1_Washington_D.C.
TACTCACAAAAACCACCGTGGACCATATGGCCATAATCAAGAAATACACATCAGGAAGACAGGAAAAGAA
> SARS virus strain_1_Las Vegas
TGGATTTCATATTACTCATTGCTGATGCCCATCCTCACTTTGACTAGGGCATTGGCTGCTGAGTCCCATAT
> Zika virus_2_New York
TTAGAGTCGAAAATTGGATATTCAGGAACCCTGGTTTTGCTTTAGCAGCAGCTGCCATCGCTTGGCTTTTT
> Measles virus_1_Atlanta
GGTCAAGGACGTGCTGACACCACTCTTCAAGATCATTGGTGATGAAGTGGGCCTGAGGACACCTCAGAGA
> Influenza A virus_1_Seattle
CCACTAGCATCTTTATTGGAGATGTGCCACAGCACACAGATTGGTGGAACAAGGATGGTGACATTCTTA
> SARS virus strain_1_LA
AATGCTAGTTAAACAAGGAGATGATTACGTGTACCTGCCTTACCCAGATCCATCAAGAATATTAGGCGCA
> Zika virus_1_sacrameto
CATTCCACTAGGAAGCTGCAAACGCGGTGCAAACCTGGTTGGAATCAAGAGAATACACAAAGCACTTGA
```

#### Group 7 Samples:

```
> Influenza A virus_2_Sacramento
ACGGGCAATCTTCAAACATTGAAGATAAGGGTGCATGAGGGATATGAAGAATTCACAATGGTTGGGAGAA
> Zika virus_2_Wichita
GCCCTATGCTGGATGAGGGGGTGGAAACCAGATGACGTCGATTGTTGGTGCAACACGACGTCAACTTGGGT
> Measles virus_1_Chicago
GTACGGGGGAACCTTACCTAGTGGGAAAGCCTAATCTGAGCAGTAAAGGGTCAGAGTTGTCACAACTGAGC
> SARS virus strain_2_Salt lake city
CTGTCACCATACTTGATGGTATTTCTGAACAGTCATTACGTCTTGTGACGCCATGGTTTATACTTCAGA
> Influenza A virus_1_Denver
AATGAGGGATGTGCTTGGGACATTTGACACCACTCAGATAATAAACTTCTTCCCTTTGCAGCCGCTCCA
> SARS virus strain_1_Cheyenne
AAGCCTAGAGTGGAAGCACCTAAACAAGAGGAGCCACCAACACAGAAGATTCCAAAACCTGAGGAGAAAT
```

#### Group 8 Samples:

```
> SARS virus strain_1_LA
CATTACCAAATGCGAGTTTTGATAATTTCAAACCTCACATGTTCTAACACAAAATTTGCTGATGATTTAAA
> Influenza A virus_1_Helena
CACAGGATGTAATCATGGAAGTTGTTTTCCCAAACGAAGTGGGAGCCAGAATACTAACGTCGGAGTCGCA
> Zika virus_1_Baton Rouge
AGCCGCTGCCCAACACAAGGTGAAGCCTACCTTGACAAGCAATCAGACACTCAATATGTYTGCAAAAGAA
> Measles virus_1_Washington_D.C.
CTCGTCAAGCTAGGTGTCTGGAAATCCCCAACCGACATGCGATCCTGGGTCCCCCTATCAACGGATGATC
> Zika virus_1_Boston
GTTTGCATGCTCCAAGAAAATGACCGGGAAGAGCATCCAGCCAGAGAATCTGGAGTACCGGATAATGTTG
> SARS virus strain_2_Miami
CACTCAAGGGTGGTAAGATTGTTAGTACTTGTTTTAACTTATGCTTAAGGCCACATTATTGTGCGTTCT
```

#### Group 9 Samples:

```
> Measles virus_1_Boston
CAAGCACTCTGCGAGAATCCCGAGTGGGCACCATTGAAGGATAACAGGATTCCTTCATACGGGGTCTTGT
> Zika virus_1_Madison
GCGCAGAACTAGTGTCTGGAATTGTTGGCCTCCTTCTGACCACAGCTATGGCAGCGGAGGTCACTAGACG
> Influenza A virus_1_Nashville
TTGAAGTGTTCATTTGACTCAAGGAACATGCTGGGAACAGATGTACACTCCAGGTGGAGAAGTGAGGAA
> SARS virus strain_2_Sacramento
CGTCAAGGGTCAAATACAGGTTGCTTCAGATAACATCAAGGATTGTGTAAAATGCTTCATTGATGTTGTT
> Influenza A virus_1_Austin
AGAAACCAAGTCAAAATACGCCGAAGAGTTGACATAAATCCTGGCCATGCAGACCTCAGTGCCAAGGAGG
> SARS virus strain_1_LA
GGAGTTTTCTGTGGTGTGATGCGATGAATCTCATAGCTAACATCTTTACTCCTCTTGTGCAACCTGTGG
> Measles virus_1_LA
AGCCCTCTGTACAGGGAAGATTCTATCACAATTCCTTATCAGGGGTCAGGGAAAGGTGTCAGCTTCCAG
```

#### Group 10 samples:

```
> SARS virus strain_2_patient_Santa Fe
TTTGACACTTTCAAAGGGGAATGCCCAAAGTTGTGTTTCCTCTTAACTCAAAGTCAAAGTCATTCAAC
> Influenza A virus_1_Des Moines
TGATGGTATCACCTCTGGCTGTGACATGGTGAATAGAAATGGACCAATGACAAGTACAATTCATTATCC
> Measles virus_1_LA
CGGTTTCAGGGATGGACCTATACAAAACCAACCACAACAATGTGTATTGGCTGACTATCCCGCCAATGAAG
> Zika virus_1_Dallas
AACAGTCAGCAACATGGCGGAGGTAAGATCCTACTGCTATGAGGCATCAATATCAGACATGGCTTCGGAC
> Measles virus_1_Chicago
TGGCATCCGAACCTCGGTATCACTGCCGAGGATGCAAGGCTTGTTTCAGAGATTGCAATGCATACTACTGA
> SARS virus strain_1_patient_Seattle
CATGTGGGTACCTACCTACTAATGCTGTAGTGAAAATGCCATGTCCTGCCTGTCAAGACCCAGAGATTGG
> Influenza A virus_2_Lincoln
GGCAGAACCCAAACAGAAGAACAAGCCGTGGATATATGCAAGGCTGCAATGGGACTGAGAATCAGCTCATC
```