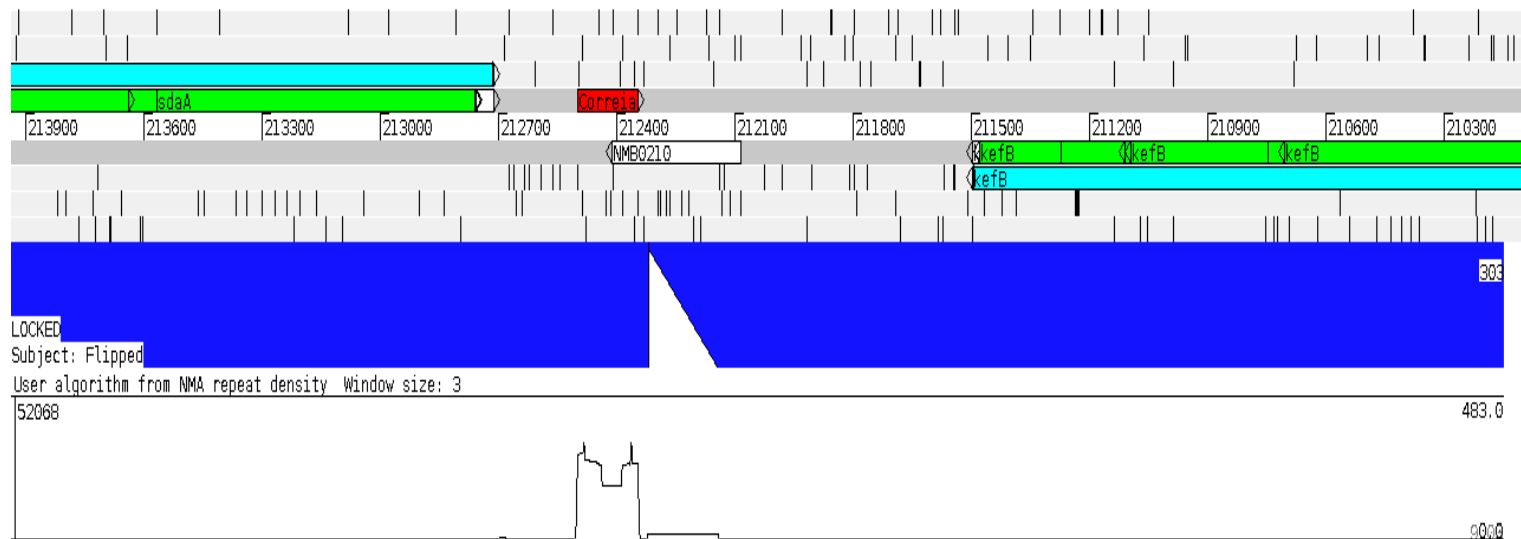
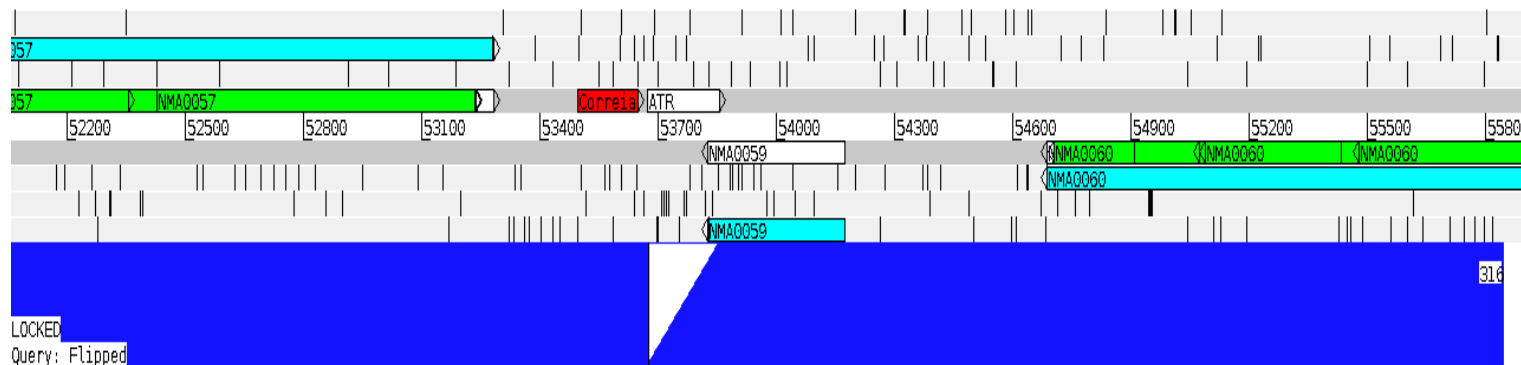


NMA0059_1

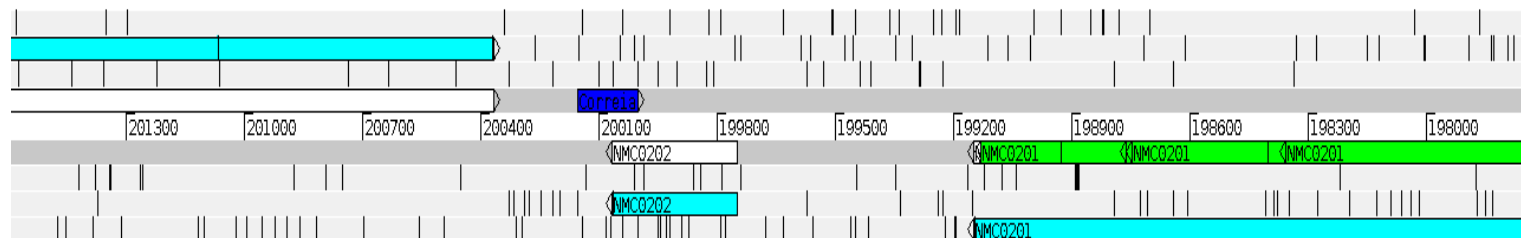
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

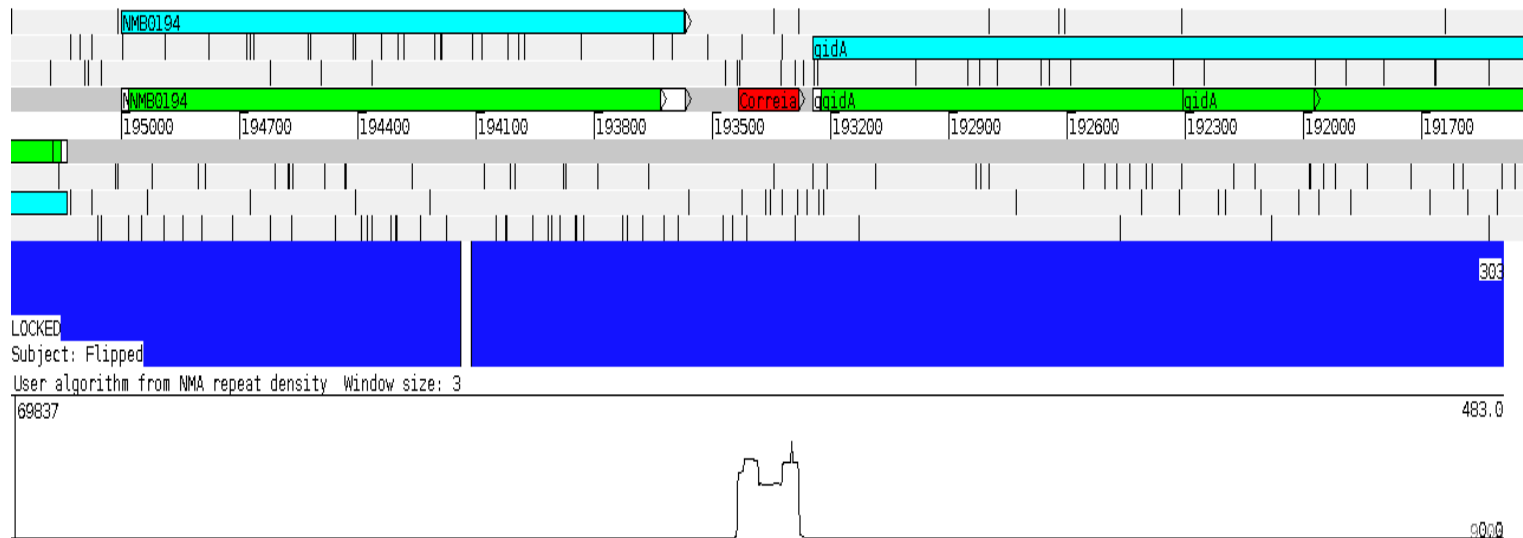


N.m FAM18
(serogroup C)

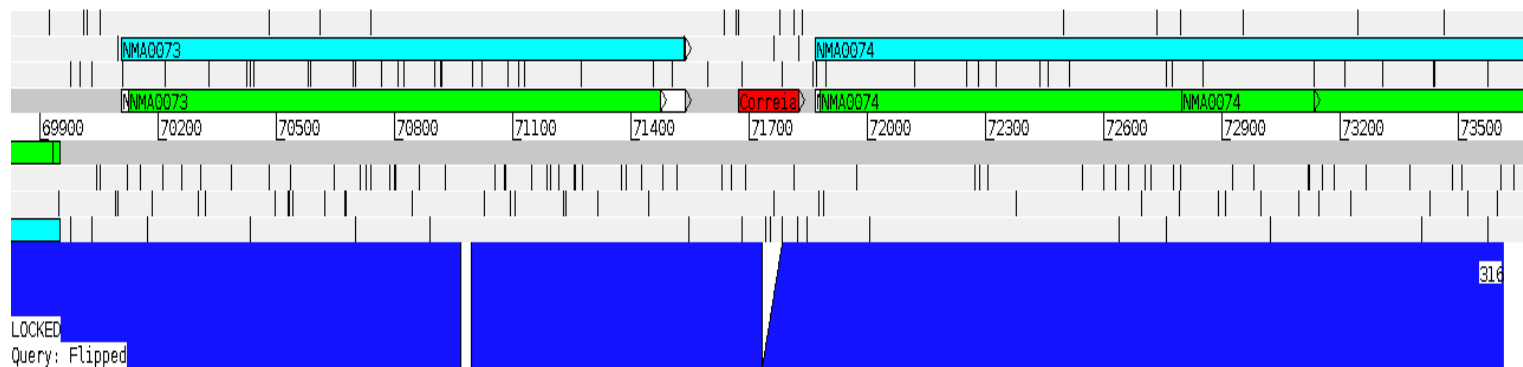


NMA0074_2

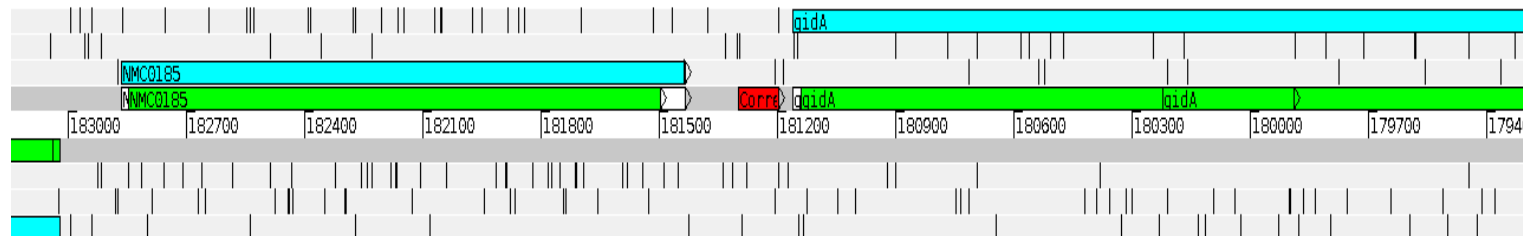
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

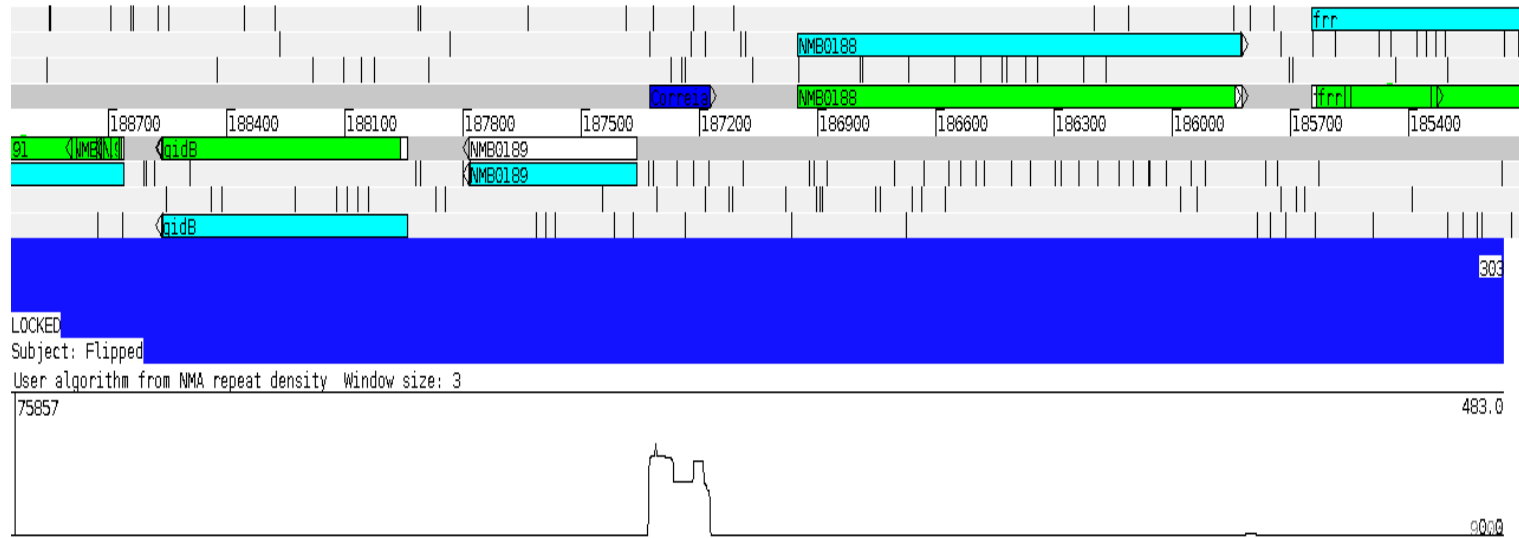


N.m FAM18
(serogroup C)

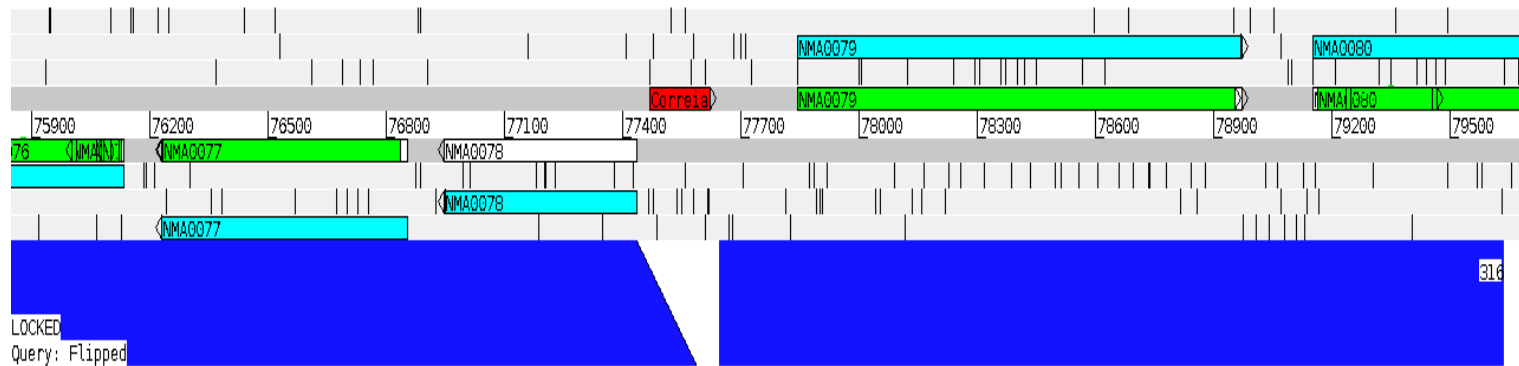


NMA0079_3

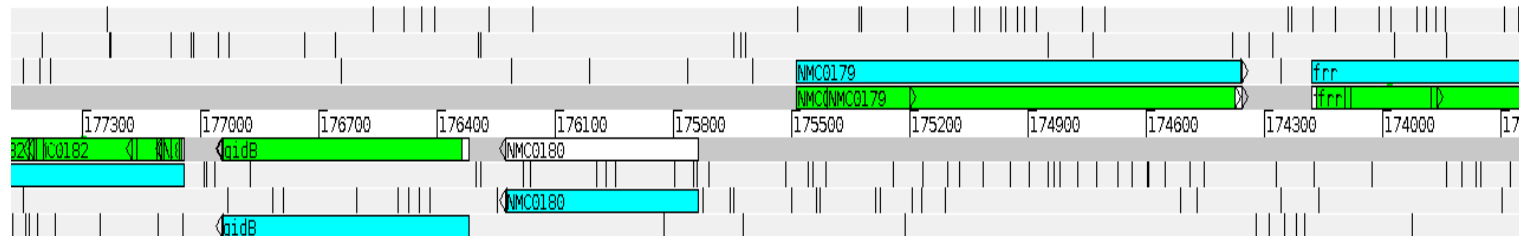
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

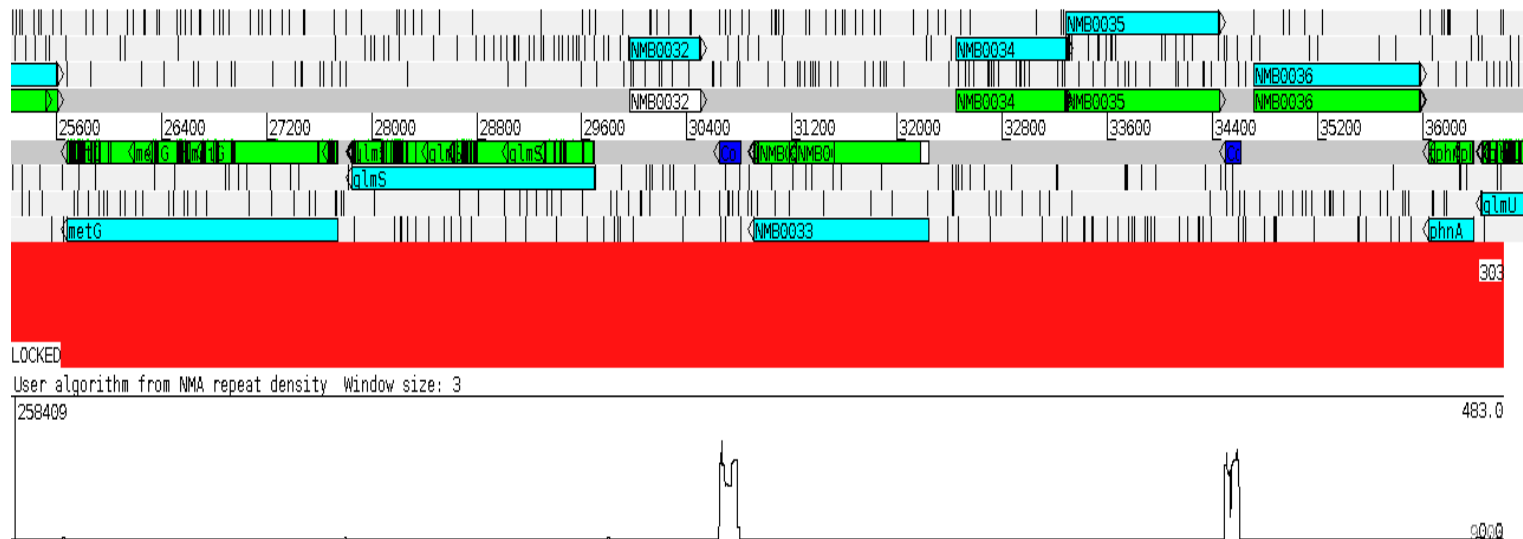


N.m FAM18
(serogroup C)

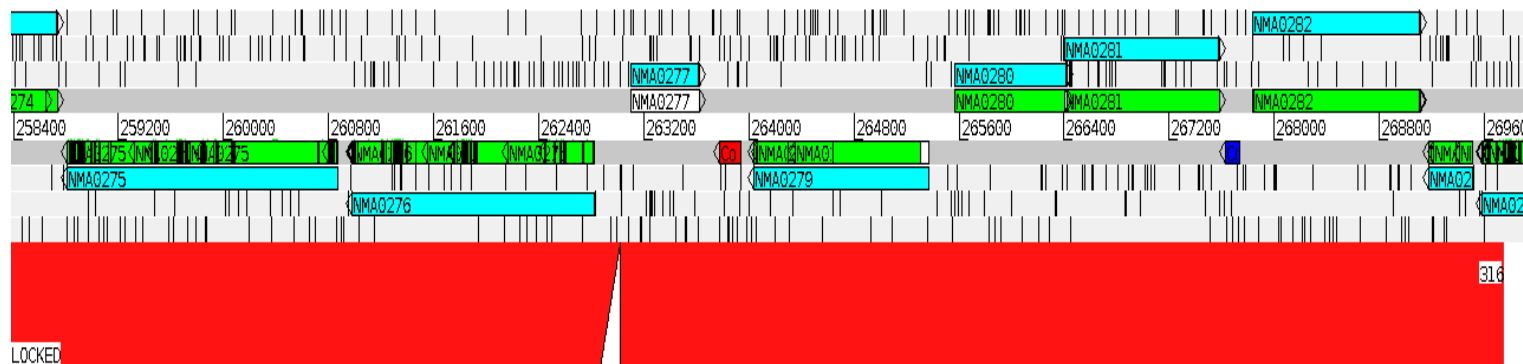


NMA0277_4

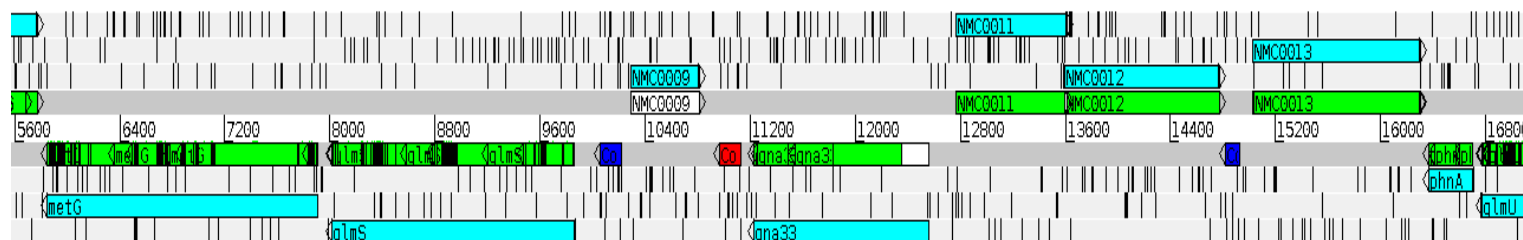
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

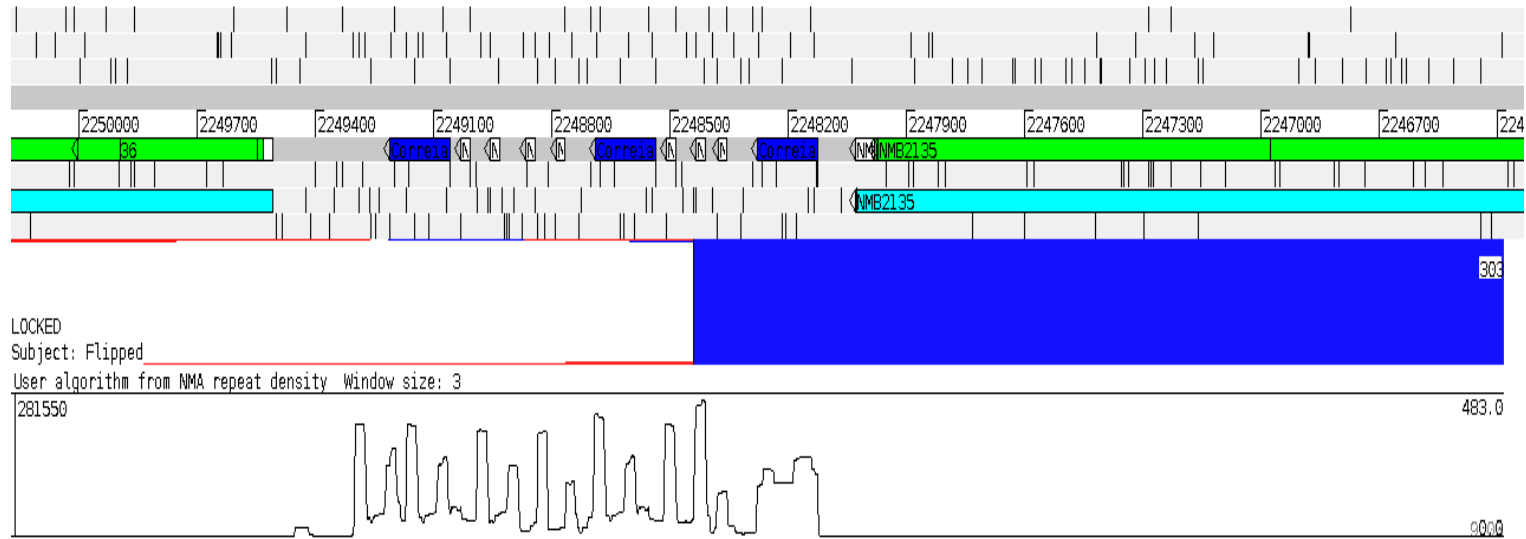


N.m FAM18
(serogroup C)

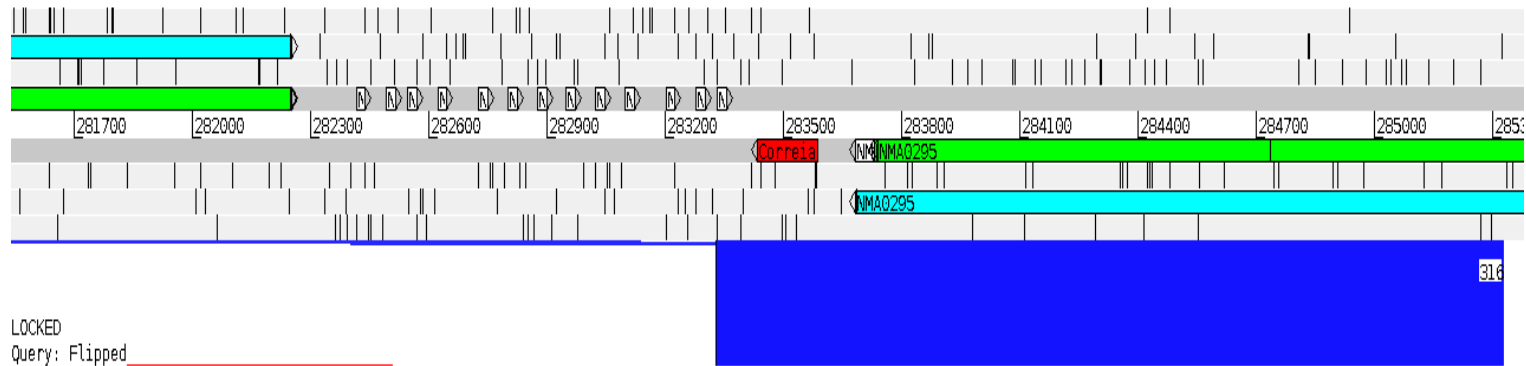


NMArS3_5

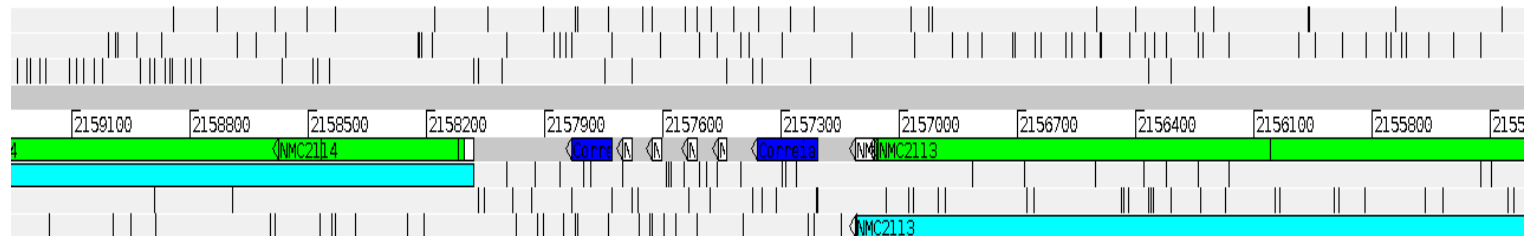
N.m MB58
(serogroup B)



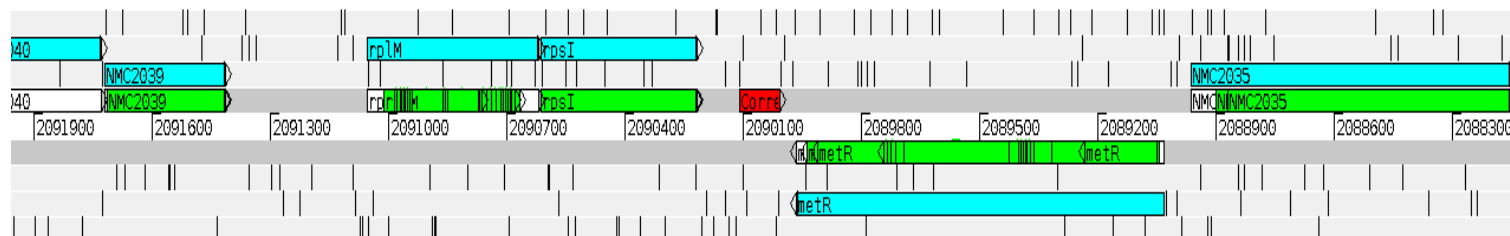
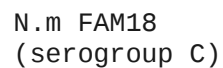
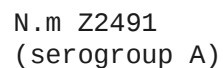
N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)

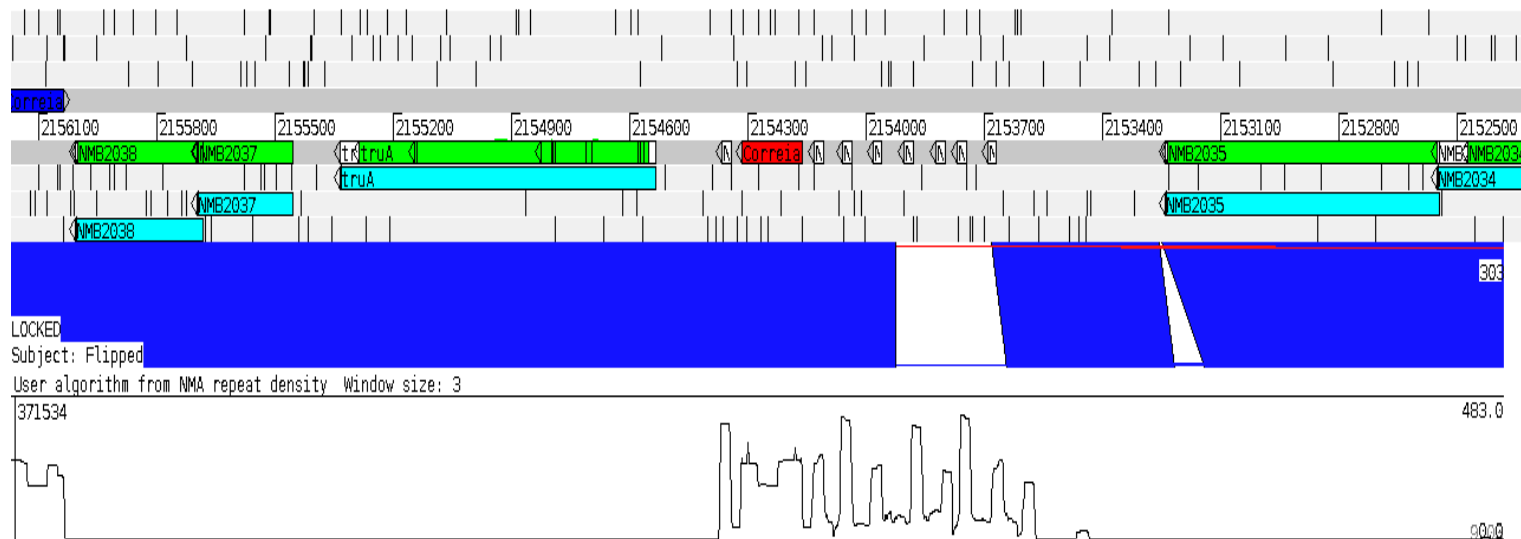


N.m MB58
(serogroup B)

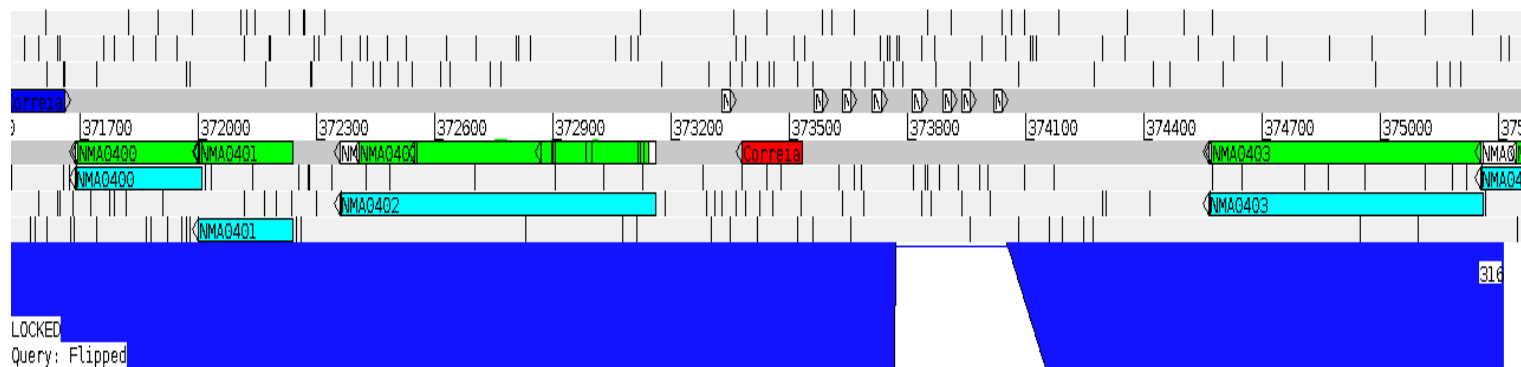


NMA0402_7

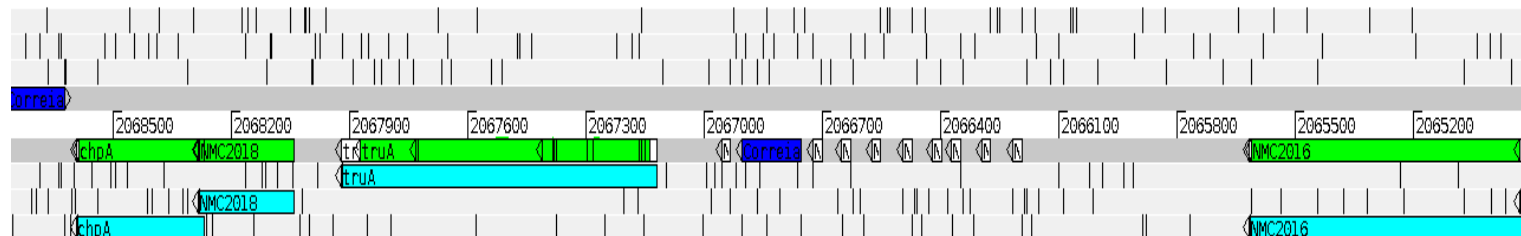
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

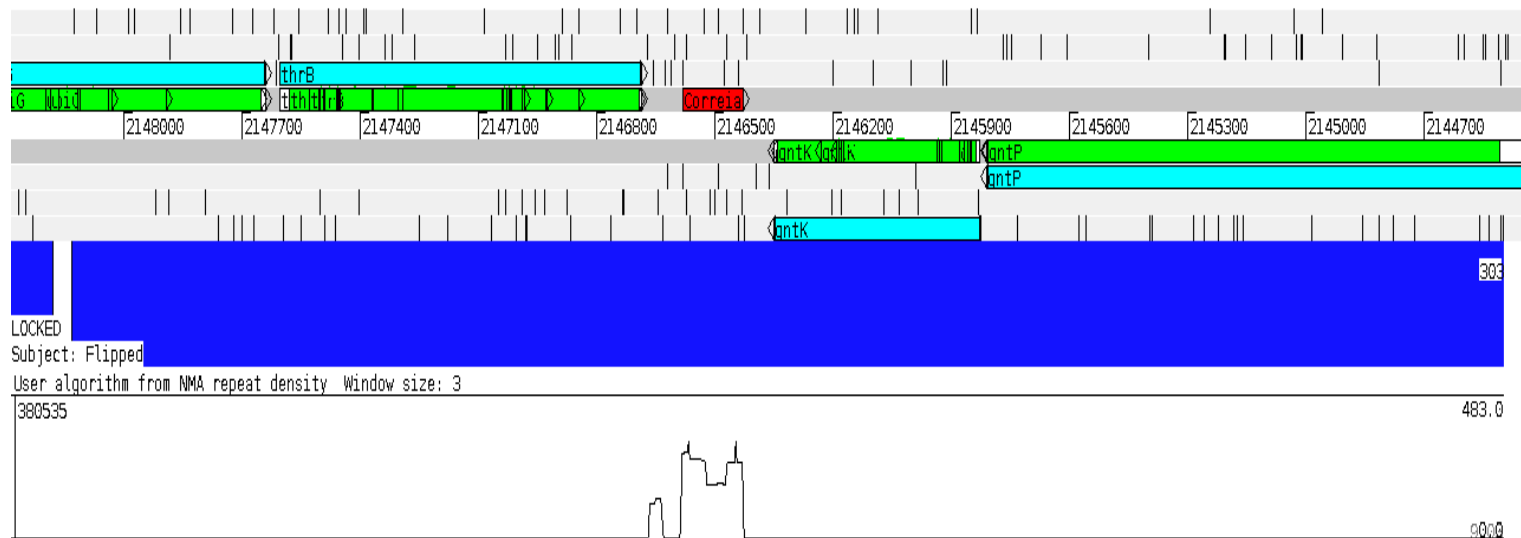


N.m FAM18
(serogroup C)

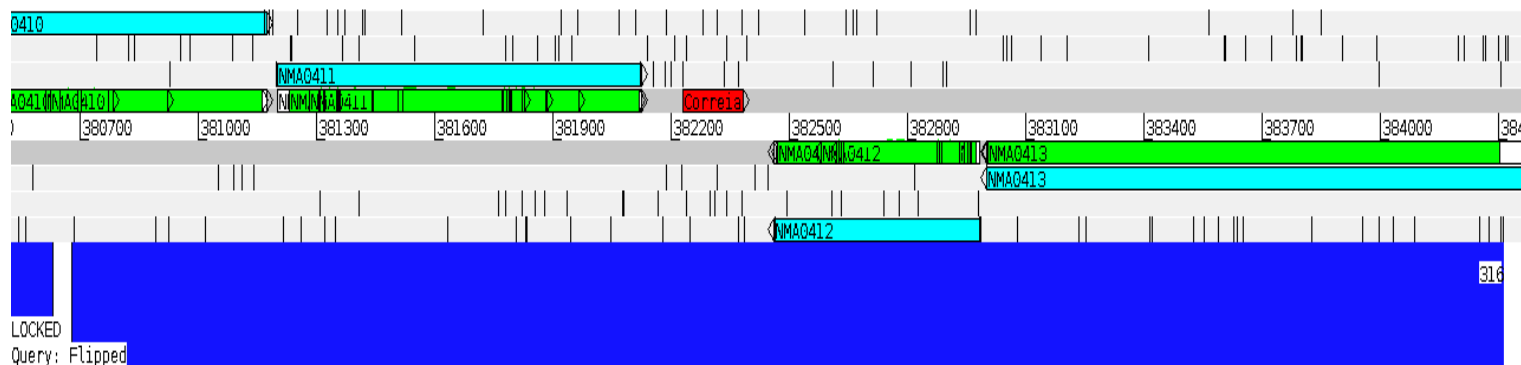


NMA0412_8

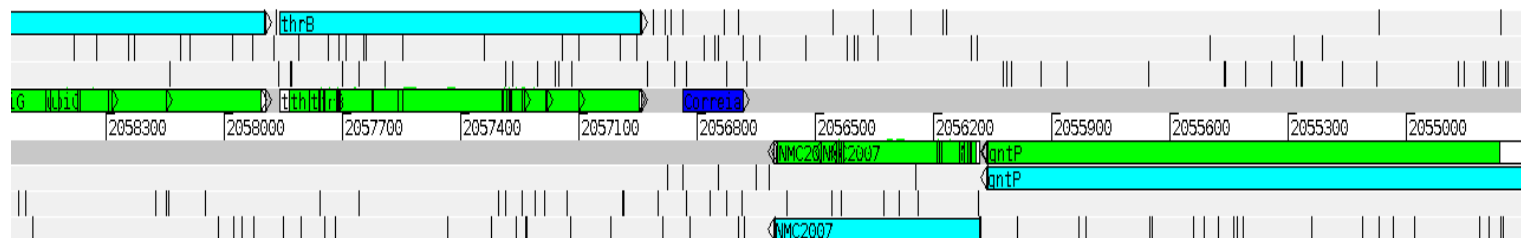
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

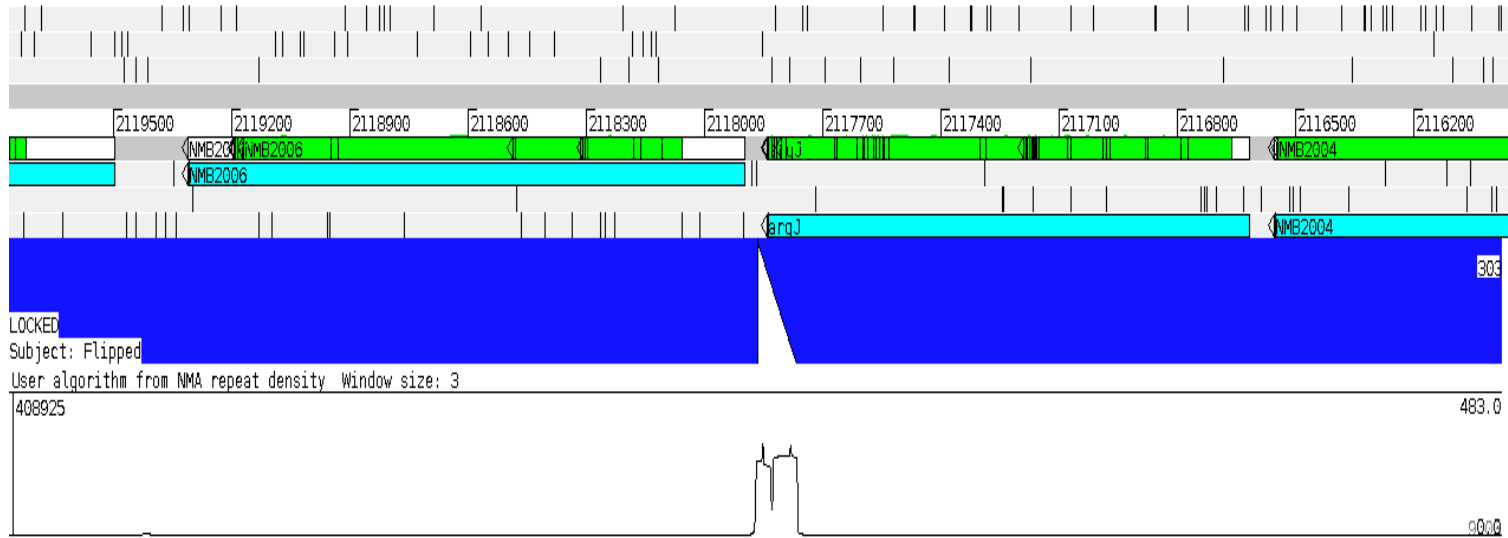


N.m FAM18
(serogroup C)

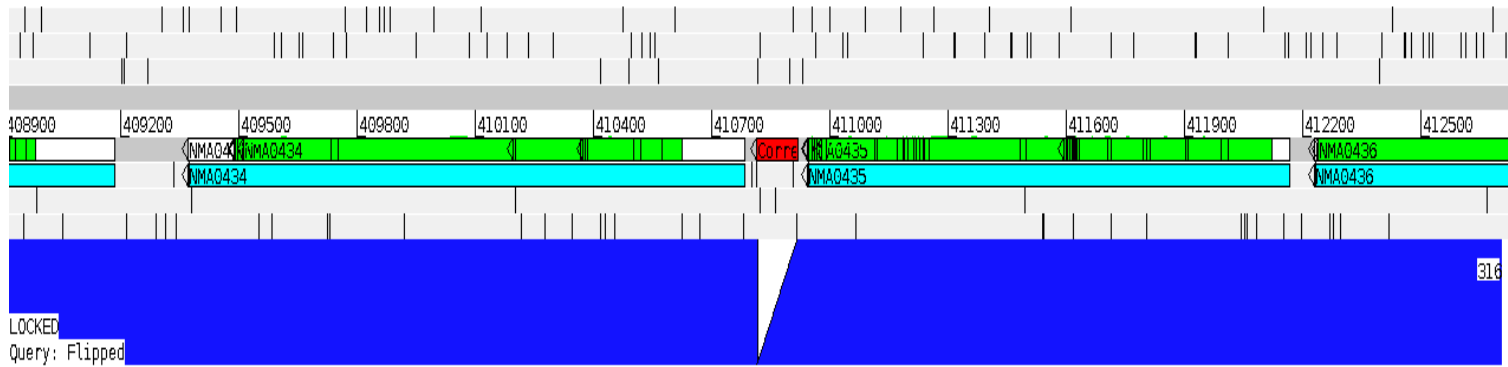


NMA0434_9

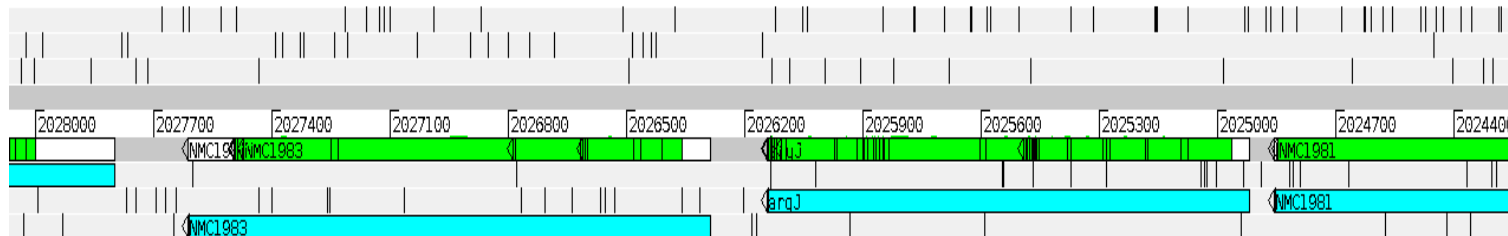
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

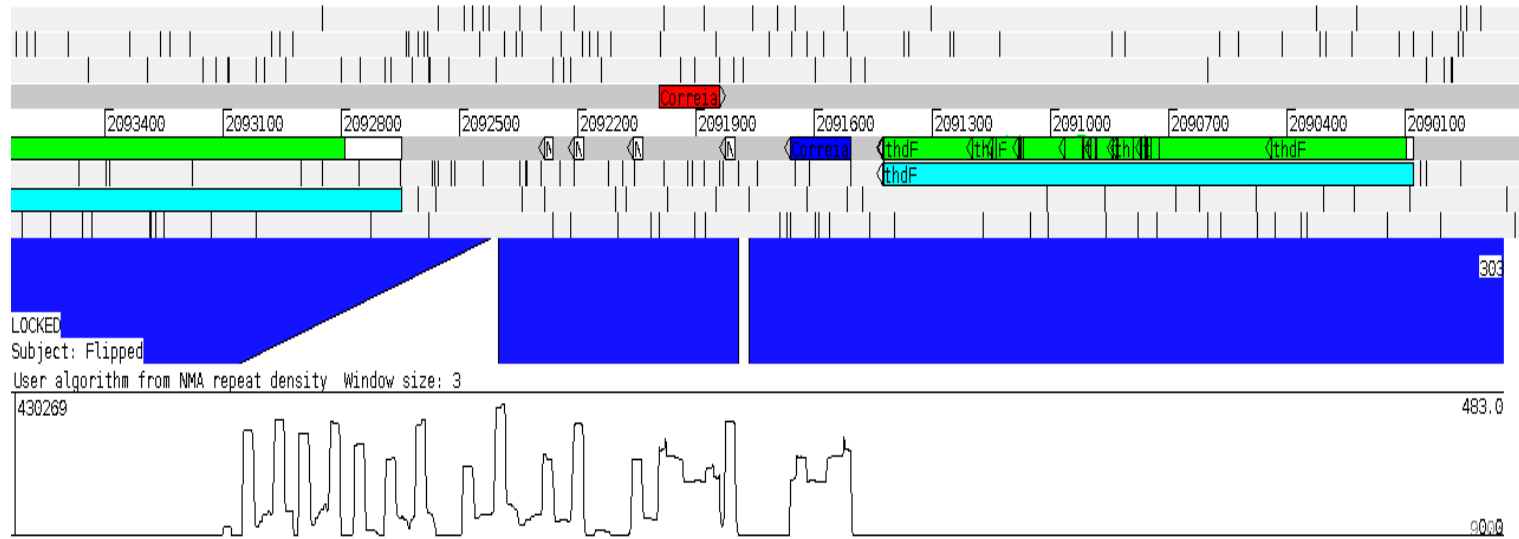


N.m FAM18
(serogroup C)

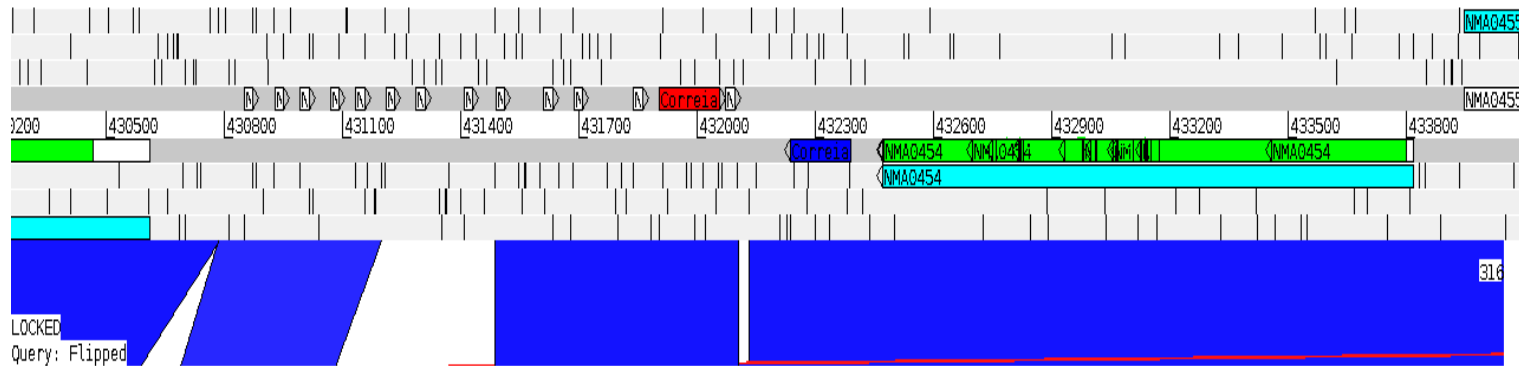


NMArS3_10

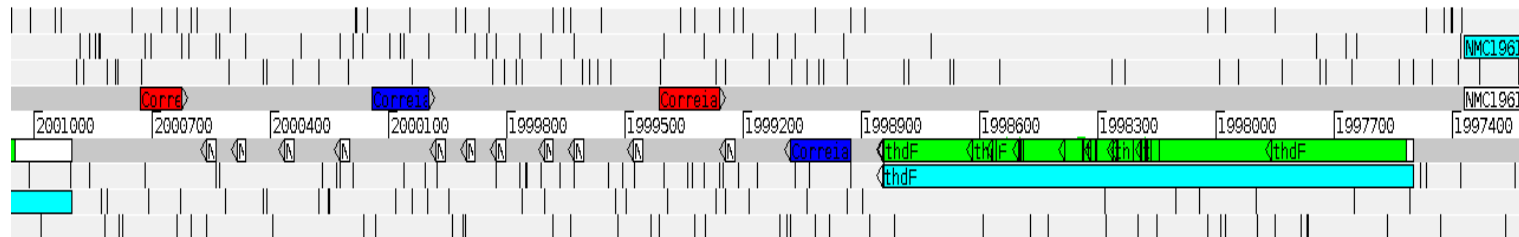
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

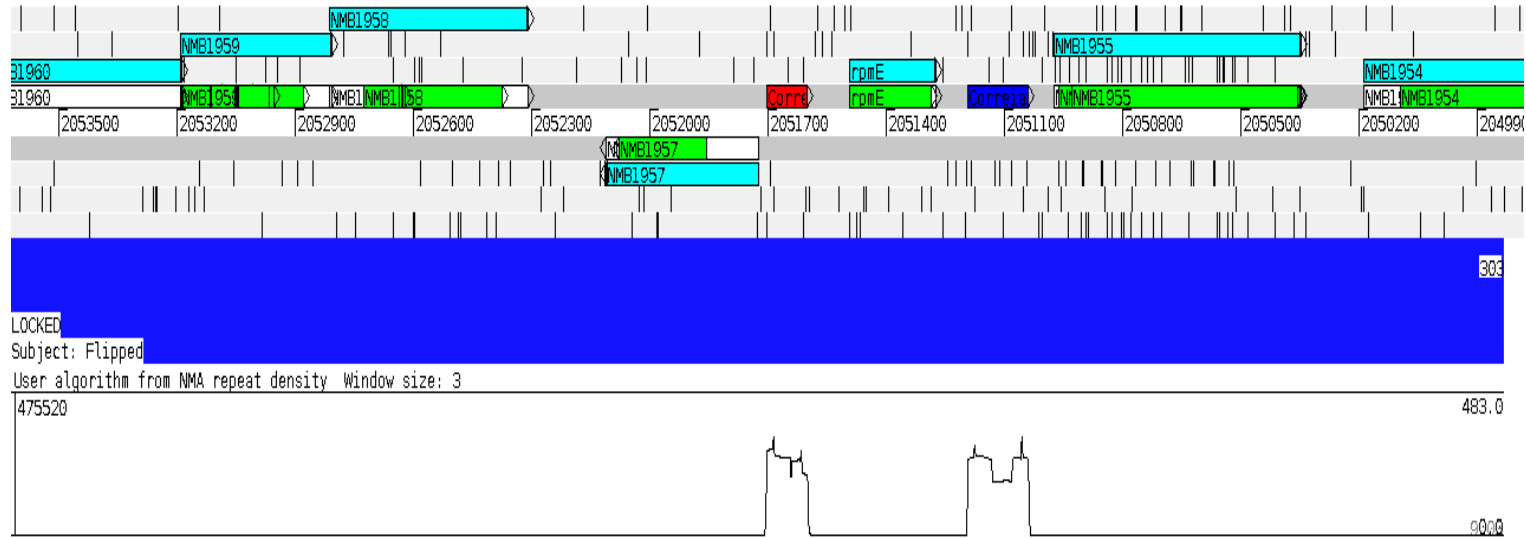


N.m FAM18
(serogroup C)

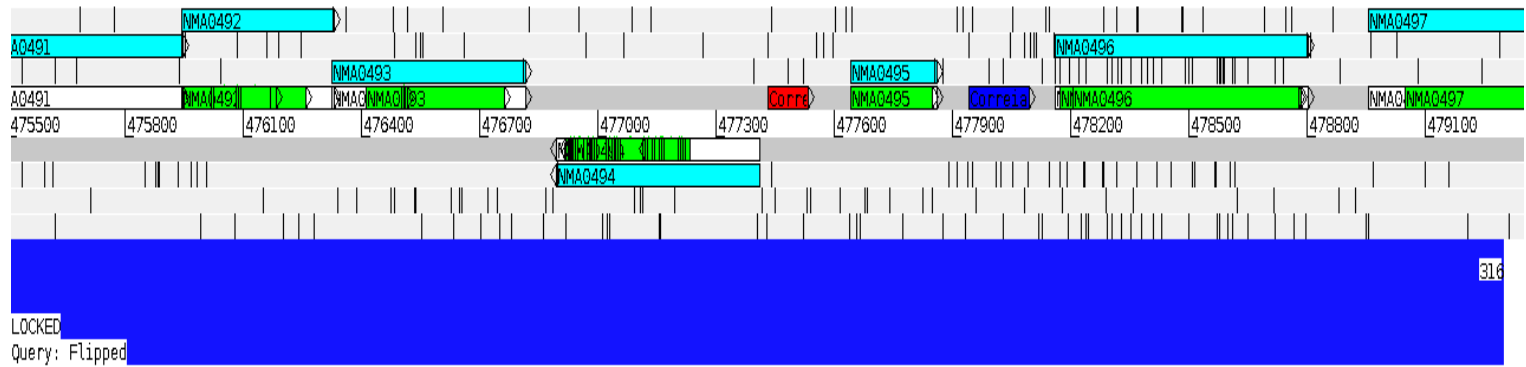


NMA0495_11

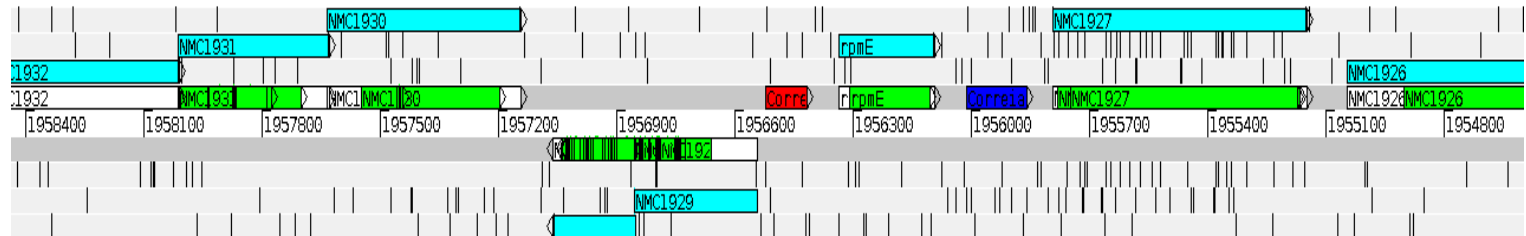
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

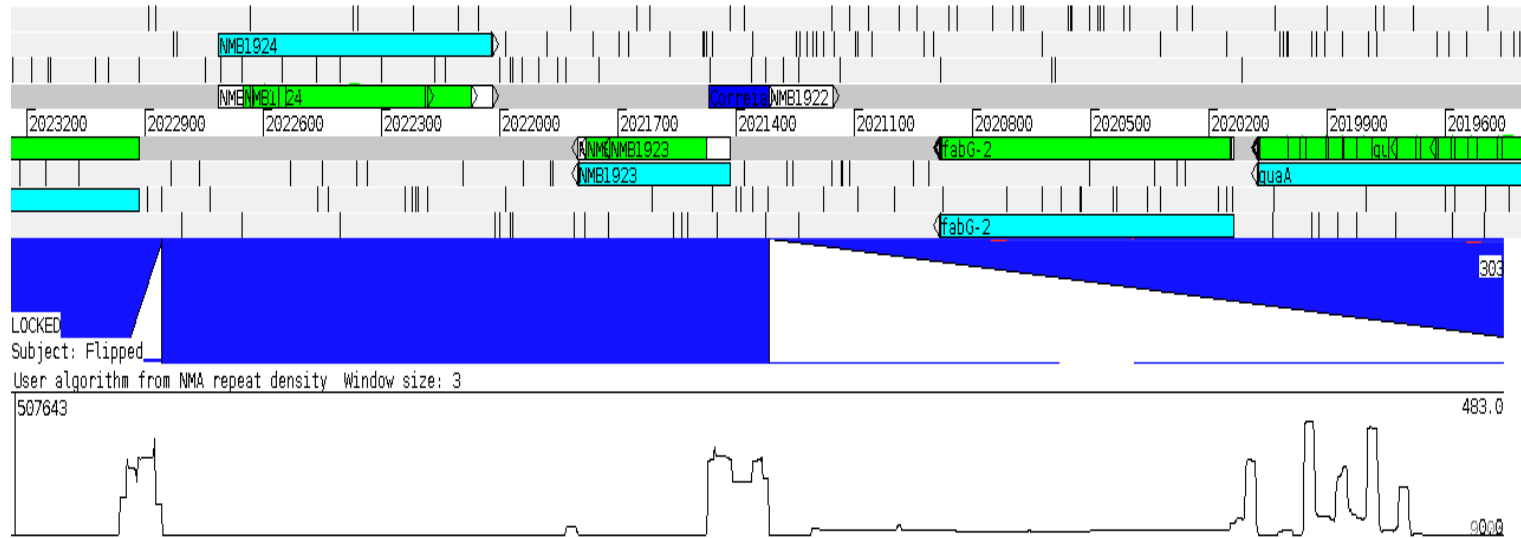


N.m FAM18
(serogroup C)

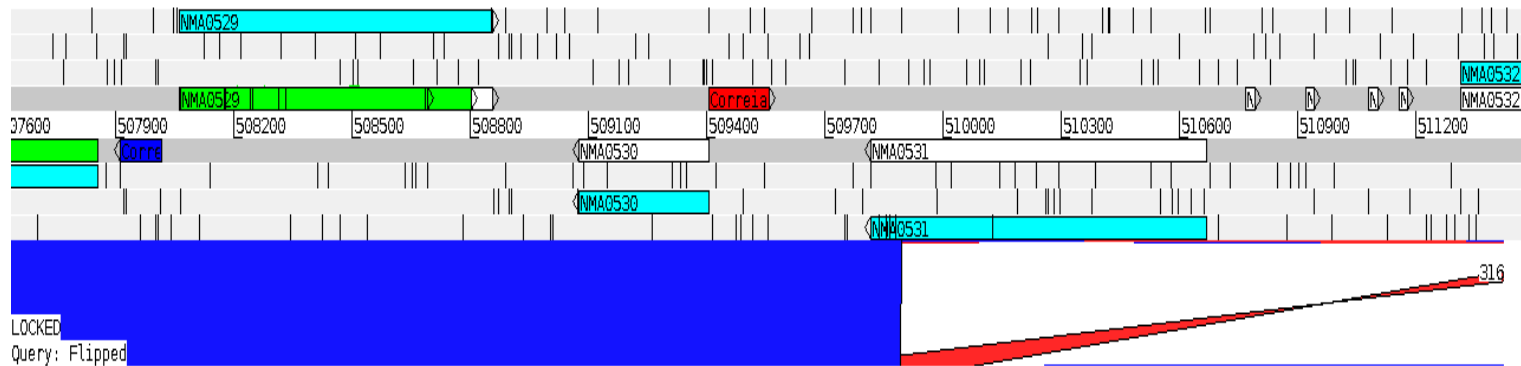


NMA0531_12

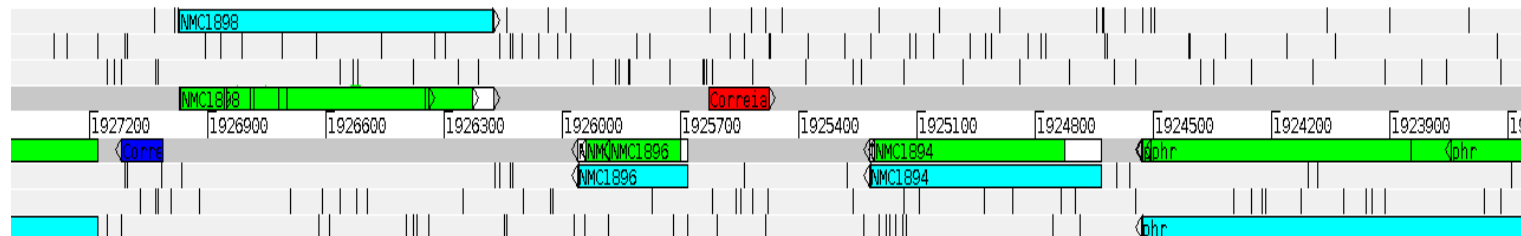
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

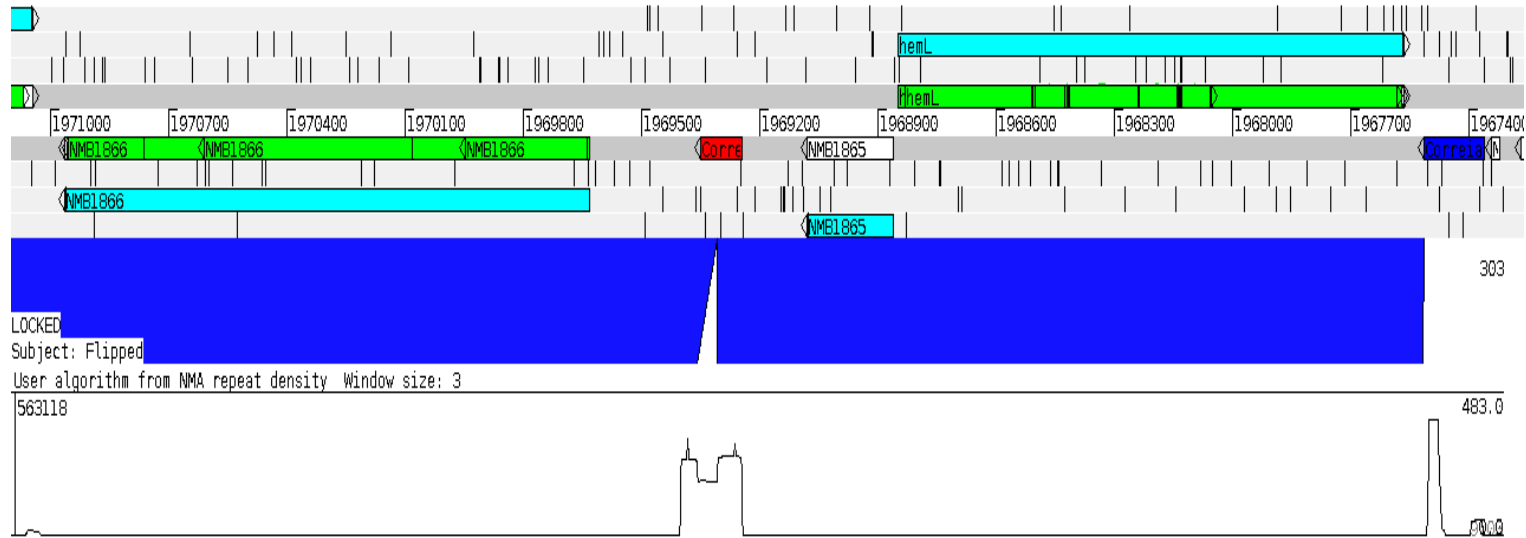


N.m FAM18
(serogroup C)

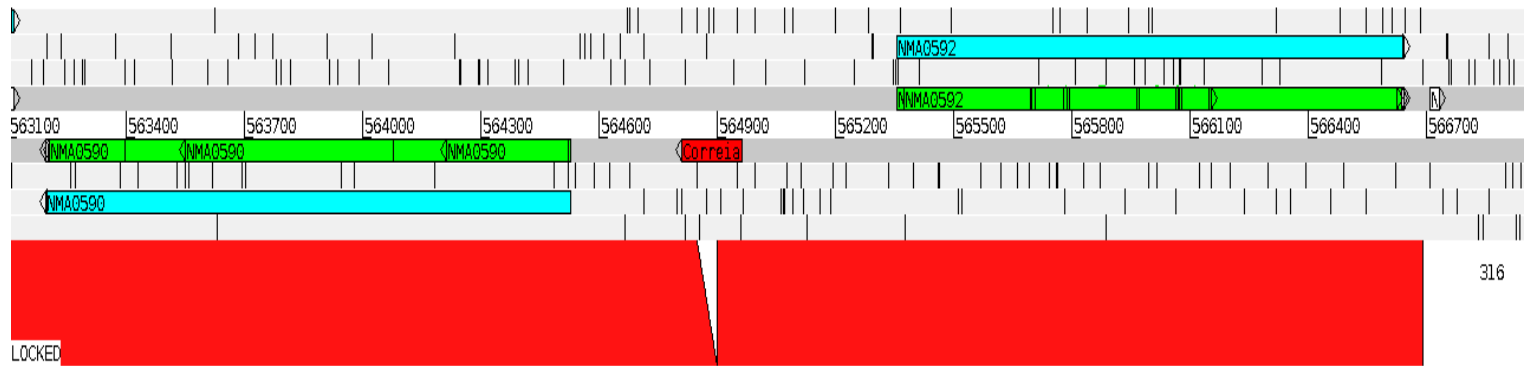


NMA0590_13

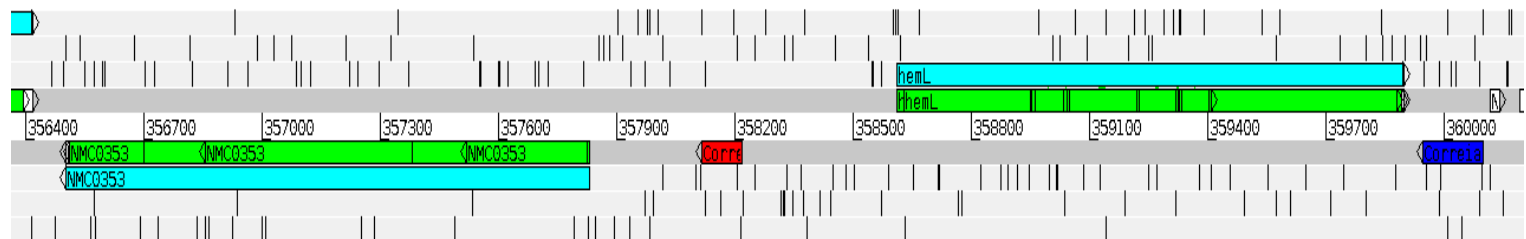
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

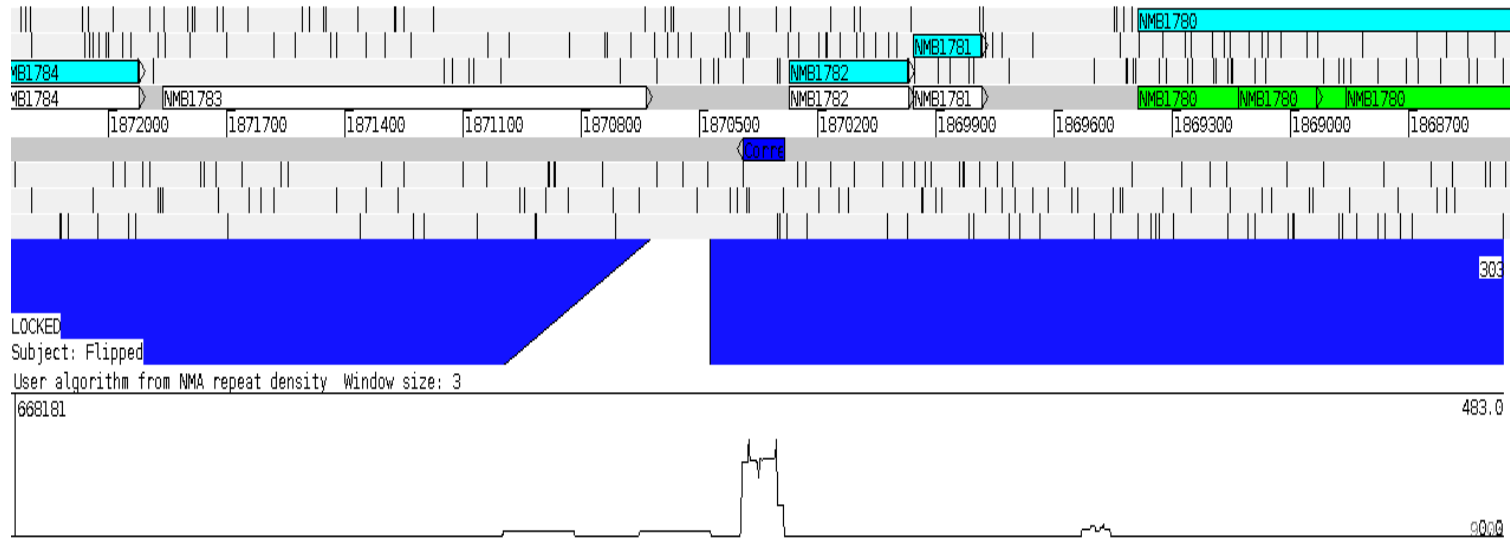


N.m FAM18
(serogroup C)

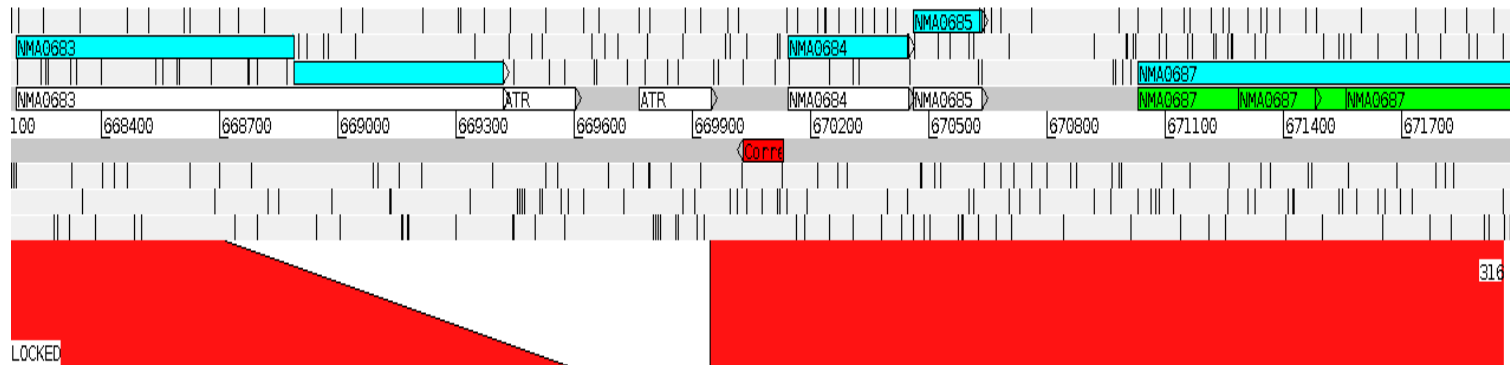


NMA_ATR_14

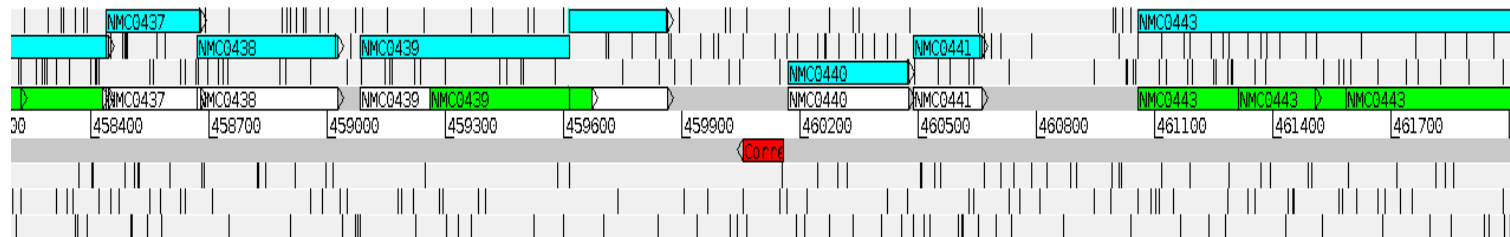
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

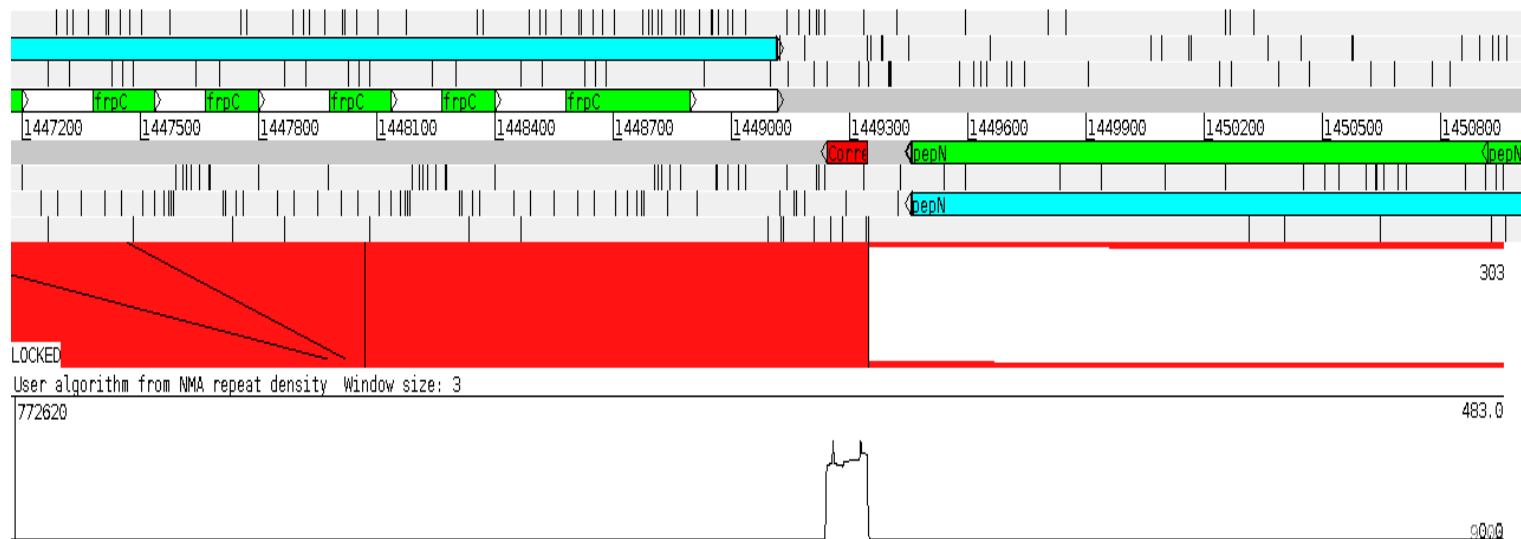


N.m FAM18
(serogroup C)

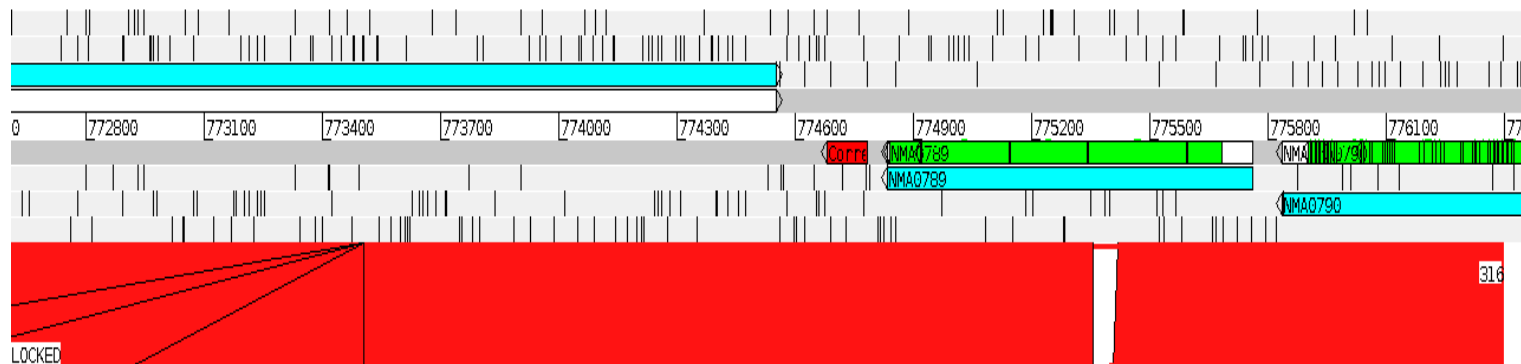


NMA0788_15

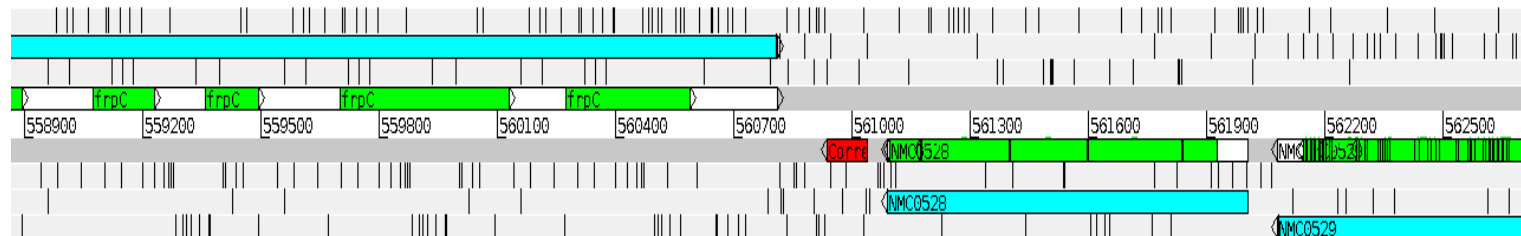
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)

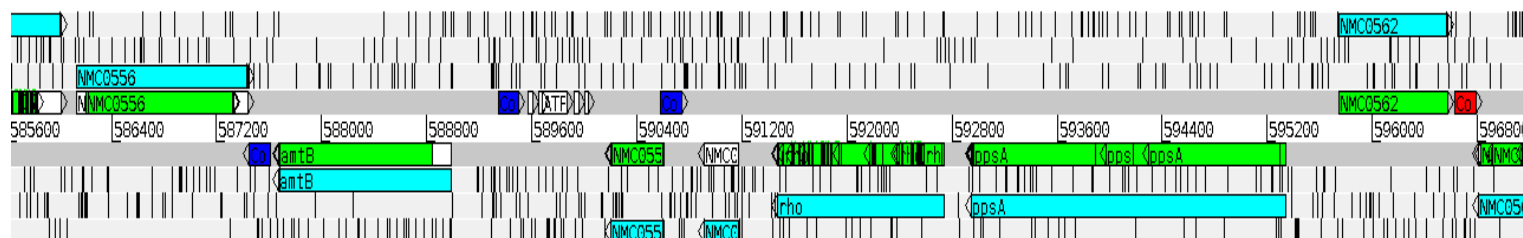
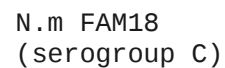
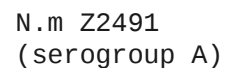


Genomic map showing NMA repeat density. The map displays a genomic track with various features labeled, including NMB0614, NMB0615, NMB0619, and NMB0620. A large red rectangular area covers the bottom portion of the map, indicating a locked region. The map is titled "User algorithm from NMA repeat density Window size: 3".

Genomic map of the NMA0818-0826 gene cluster on chromosome 16. The map shows genes NMA0818, NMA0819, NMA0820, NMA0821, NMA0822, NMA0823, NMA0824, NMA0825, and NMA0826. NMA0818 and NMA0820 are cyan, NMA0819 and NMA0821 are green, NMA0822 is cyan, NMA0823 is green, NMA0824 is cyan, NMA0825 is cyan, and NMA0826 is green. A red box highlights the NMA0820-NMA0826 region. A scale bar at the bottom shows positions from 798400 to 808000. A 'LOCKED' label is at the bottom left.

Genomic map of the NMC0555-NMC0556 locus. The top track shows the NMC0555 and NMC0556 genes. The bottom track shows the NMC0555 and NMC0556 genes, with the NMC0555 gene split into two segments. The map includes coordinates from 584800 to 595200 and labels for genes: amtB, NMC0555, NMC0556, rho, and dpsA.

N.m MB58
(serogroup B)

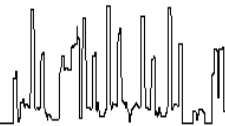


Genomic map of the *rpoD* gene region on chromosome 1. The map shows the *rpoD* gene (green bar) and the *rpoD* promoter (blue bar). The *rpoD* gene is transcribed from left to right. The *rpoD* promoter is transcribed from right to left. The map includes a scale bar from 726400 to 736800. The *rpoD* gene is located between 728000 and 730400. The *rpoD* promoter is located between 733600 and 735200. The map also shows the *rpoD* gene structure with exons and introns. The *rpoD* gene is transcribed from left to right. The *rpoD* promoter is transcribed from right to left. The map includes a scale bar from 726400 to 736800. The *rpoD* gene is located between 728000 and 730400. The *rpoD* promoter is located between 733600 and 735200. The map also shows the *rpoD* gene structure with exons and introns.

The screenshot displays a memory dump in a debugger. The top section shows a sequence of memory addresses from 4400 to 885600. Below the addresses, the corresponding data is shown in hexadecimal and ASCII. Several memory locations are highlighted in green and cyan, with labels like NMA0905, NMA0906, NMA0907, NMA0908, and NMA0909. A red box labeled 'LOCKED' is visible in the bottom left corner.

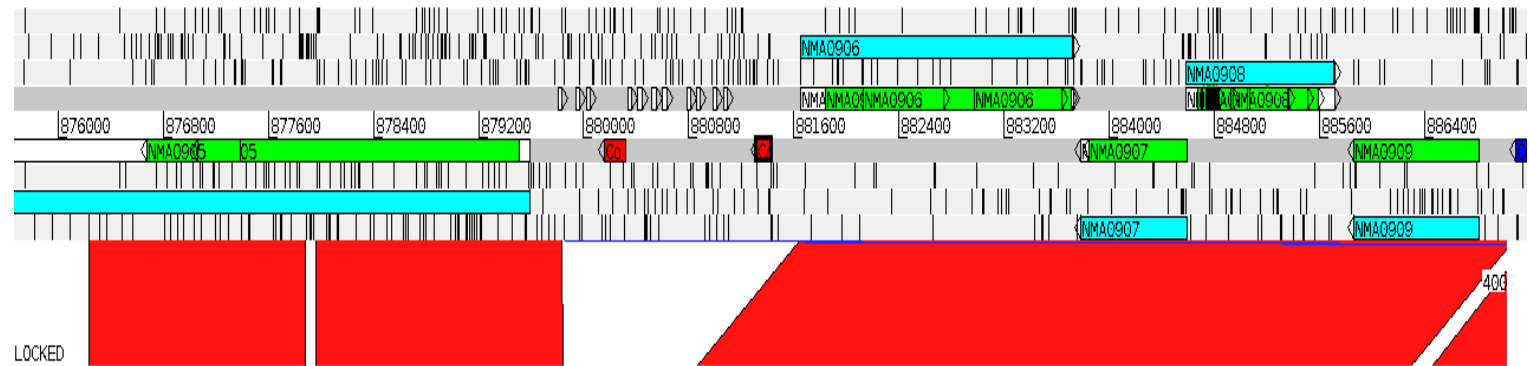
[illegible]

N.m MB58
(serogroup B)

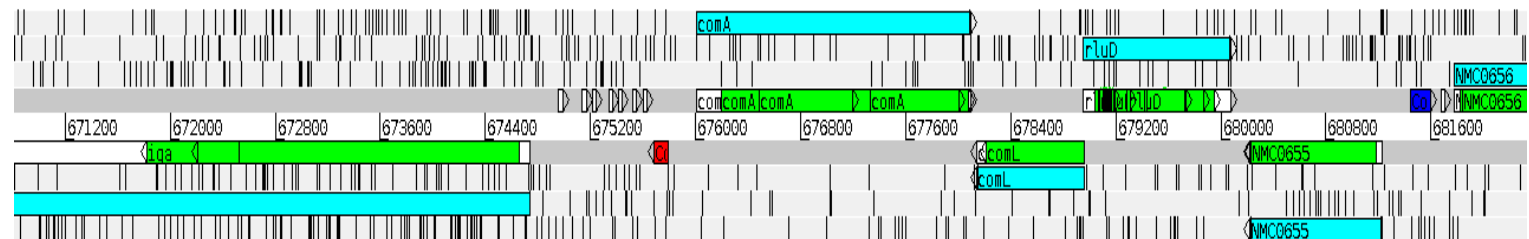


GOAL

N.m Z2491
(serogroup A)

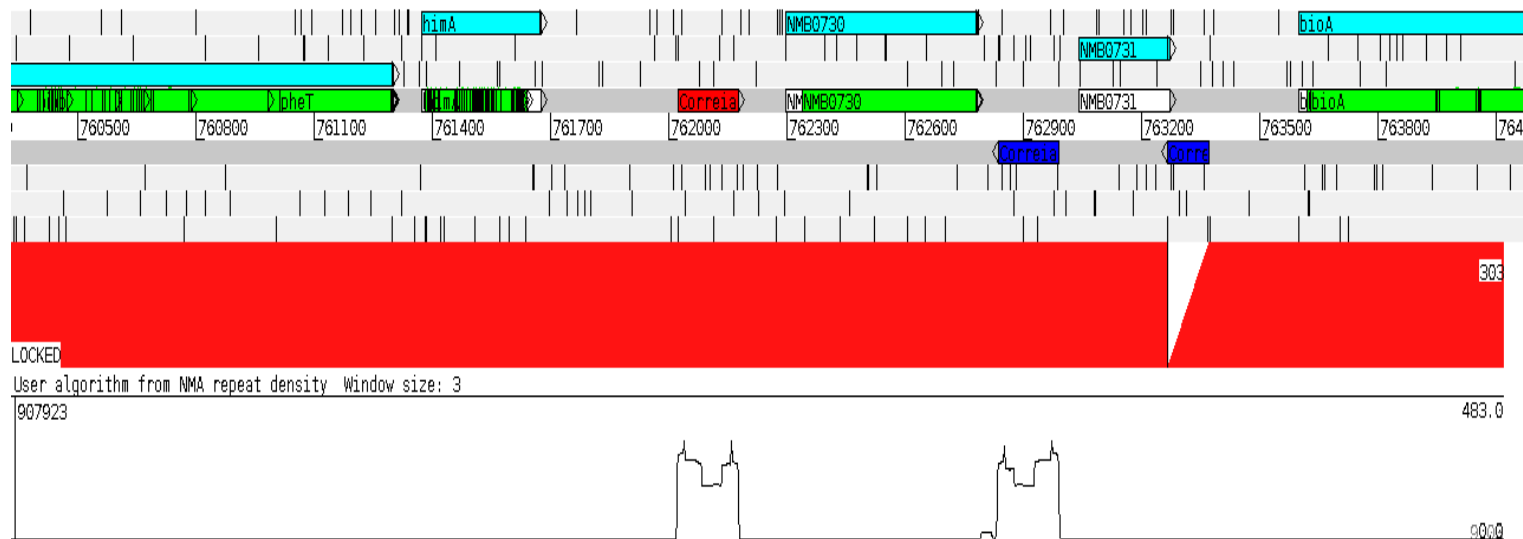


N.m FAM18
(serogroup C)

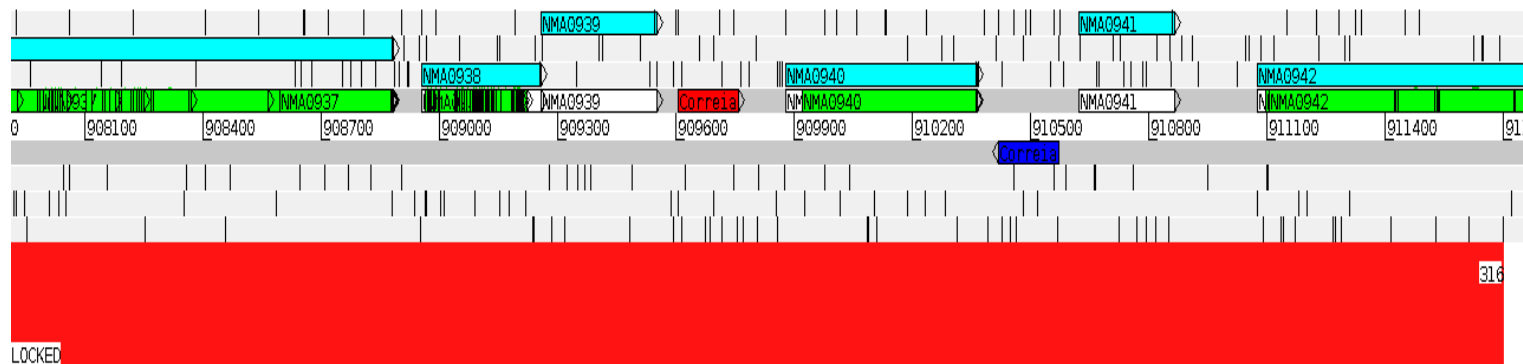


NMA0940_20

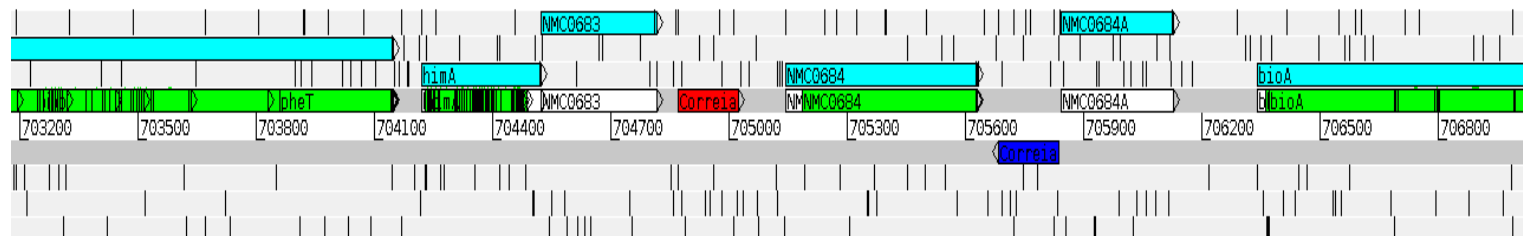
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

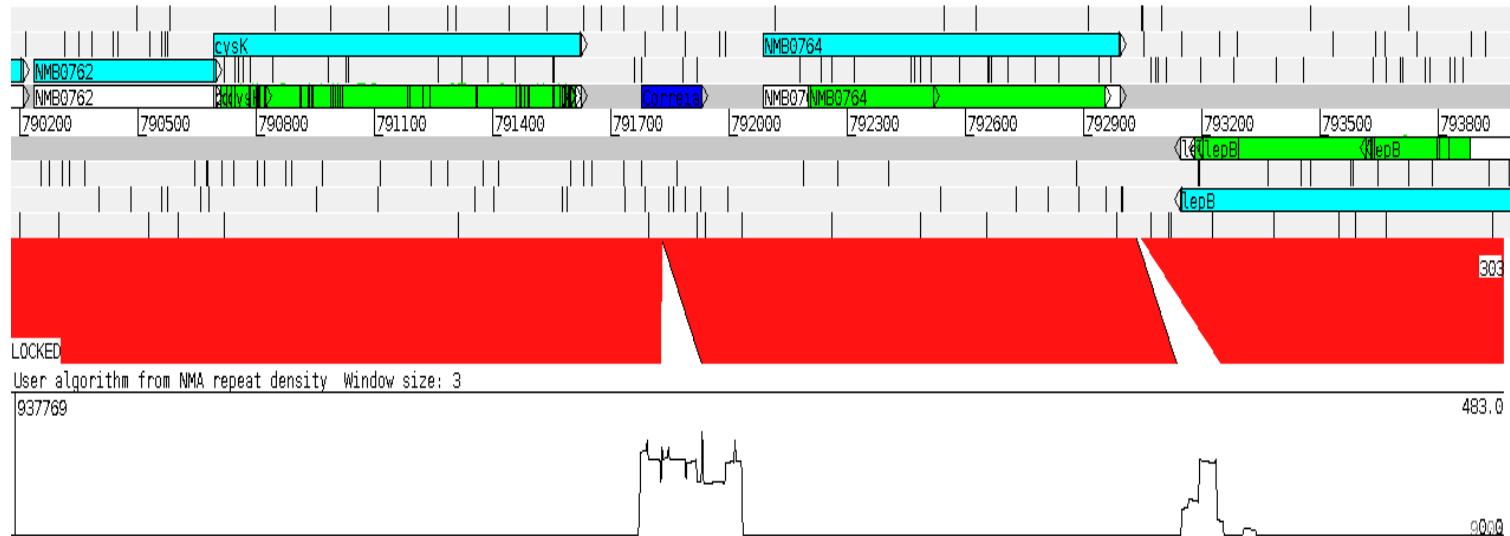


N.m FAM18
(serogroup C)

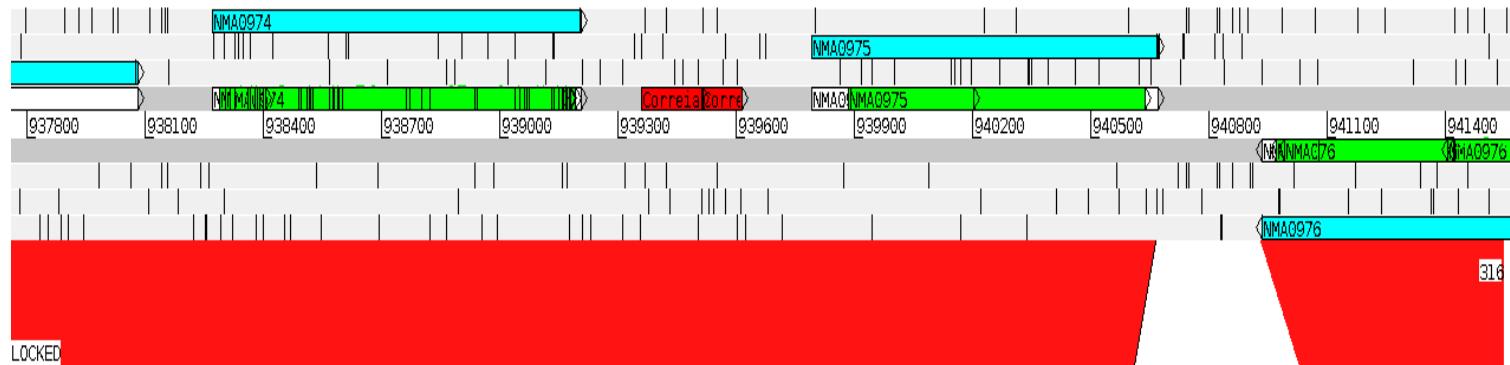


NMA0975_21_22

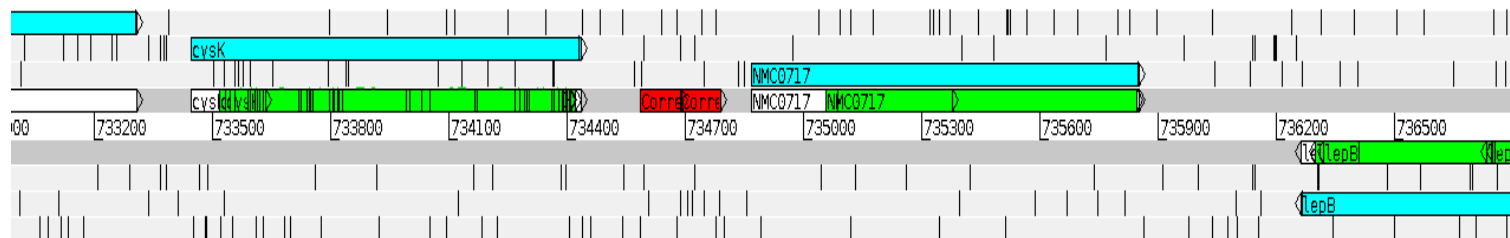
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

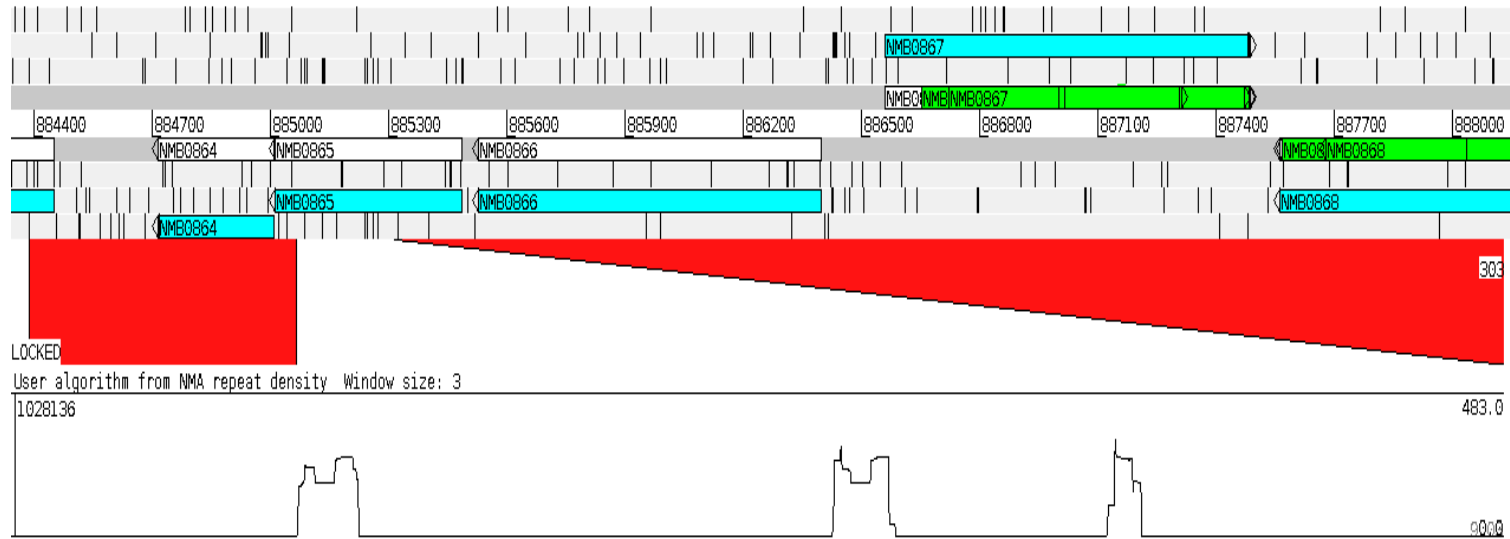


N.m FAM18
(serogroup C)

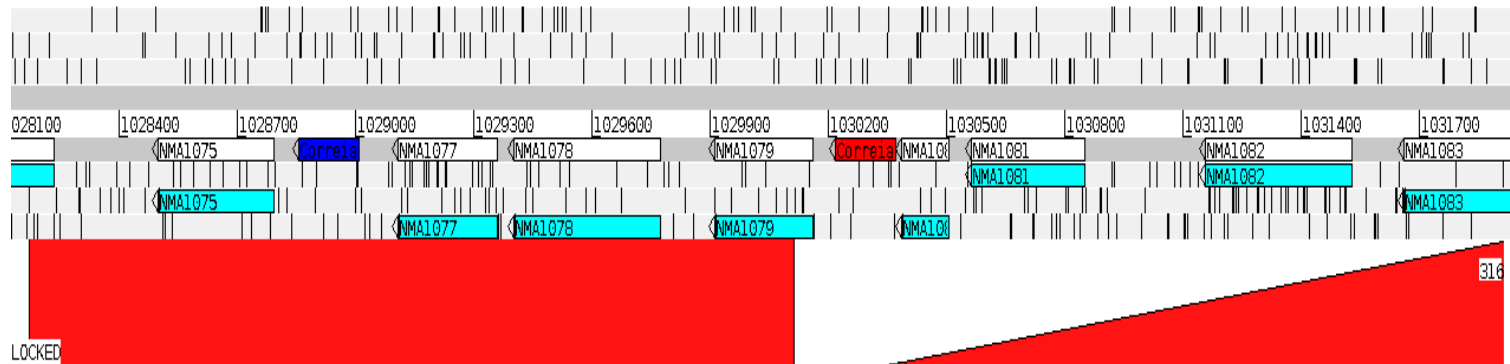


NMA1079_23

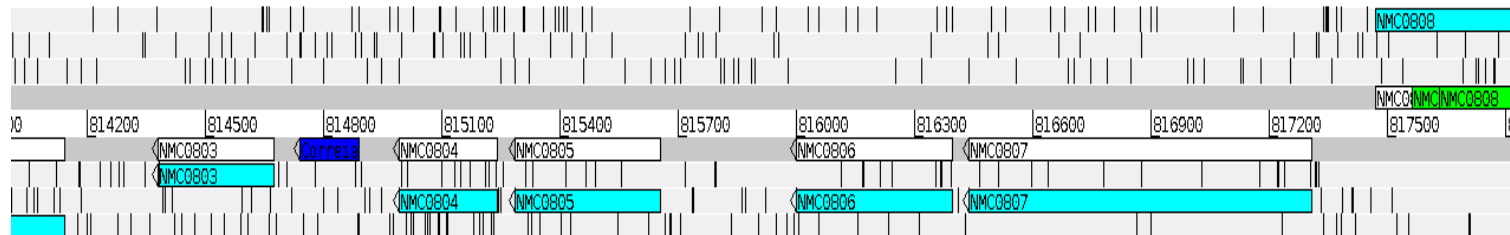
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

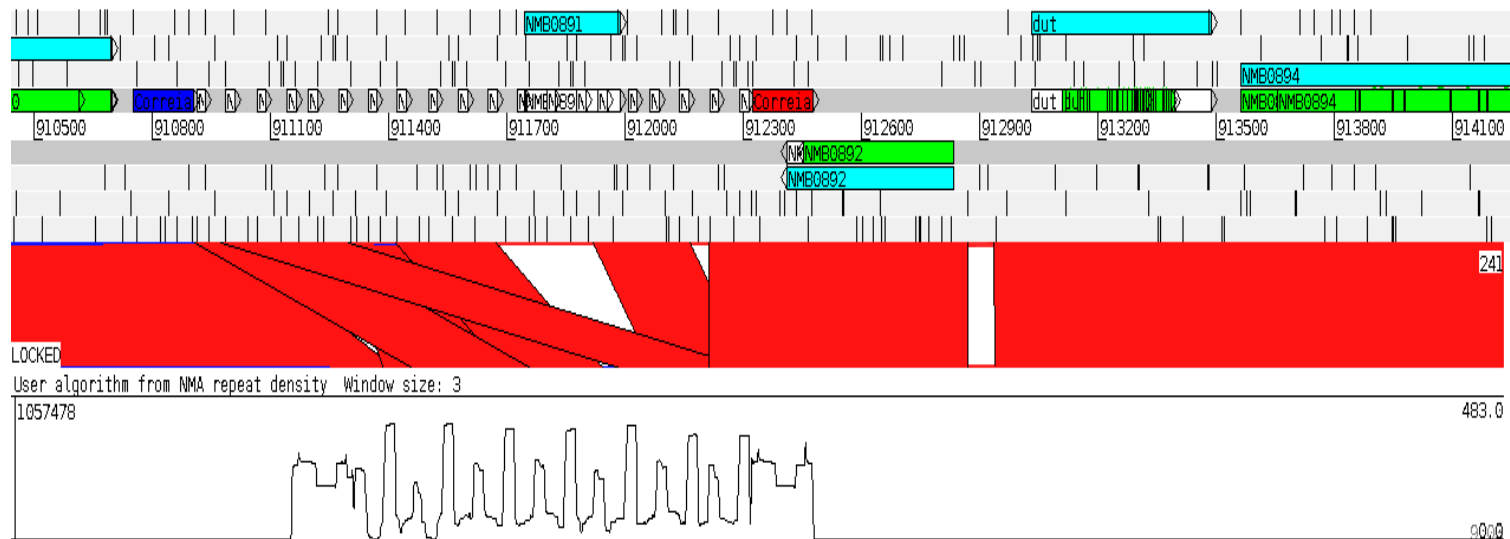


N.m FAM18
(serogroup C)

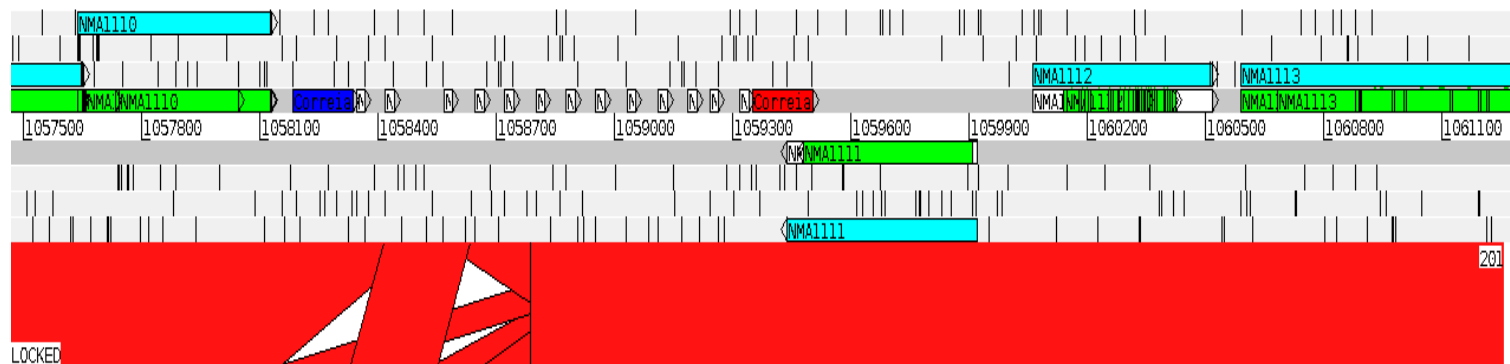


NMA1111_24

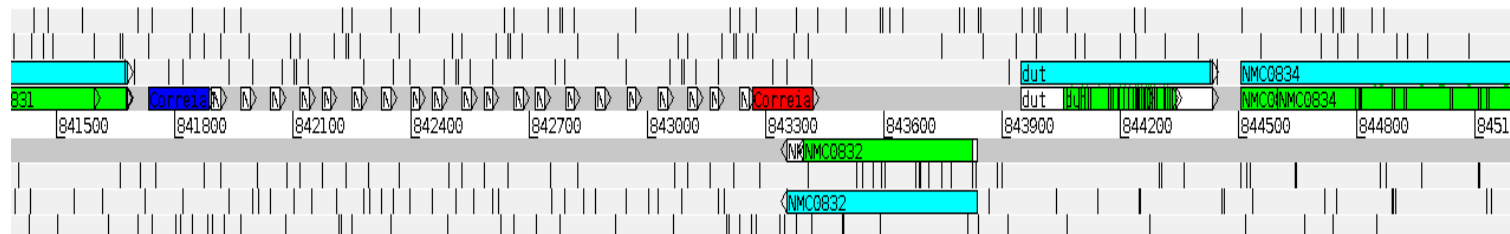
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

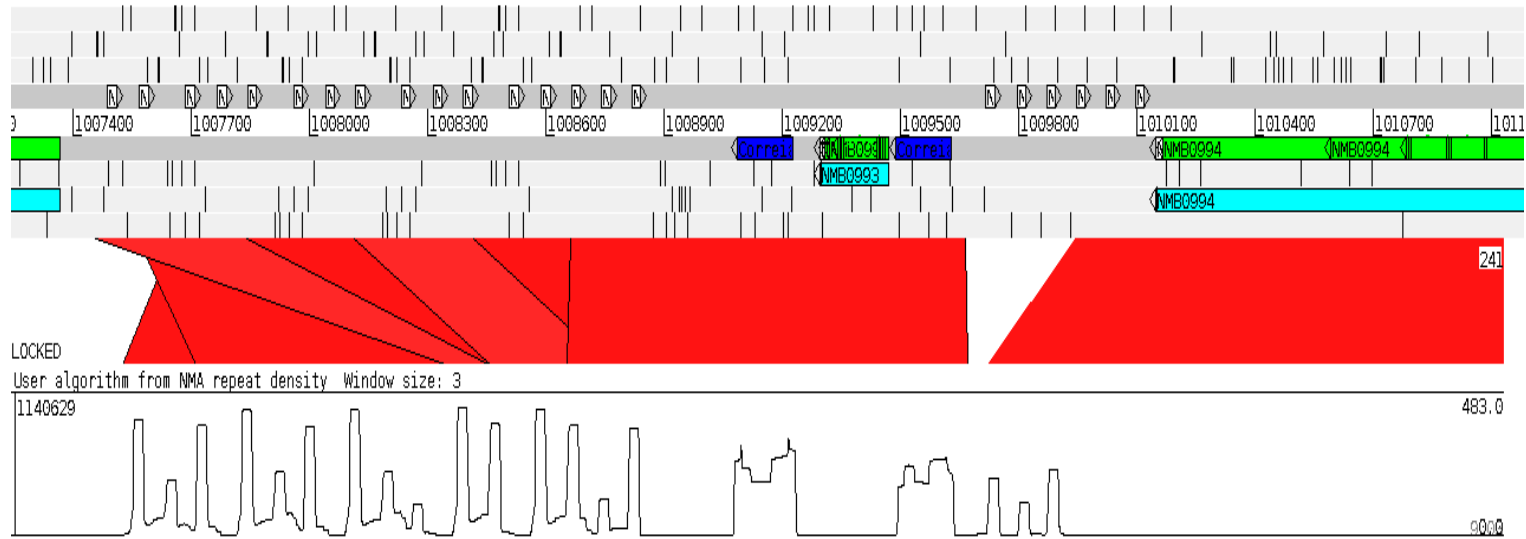


N.m FAM18
(serogroup C)

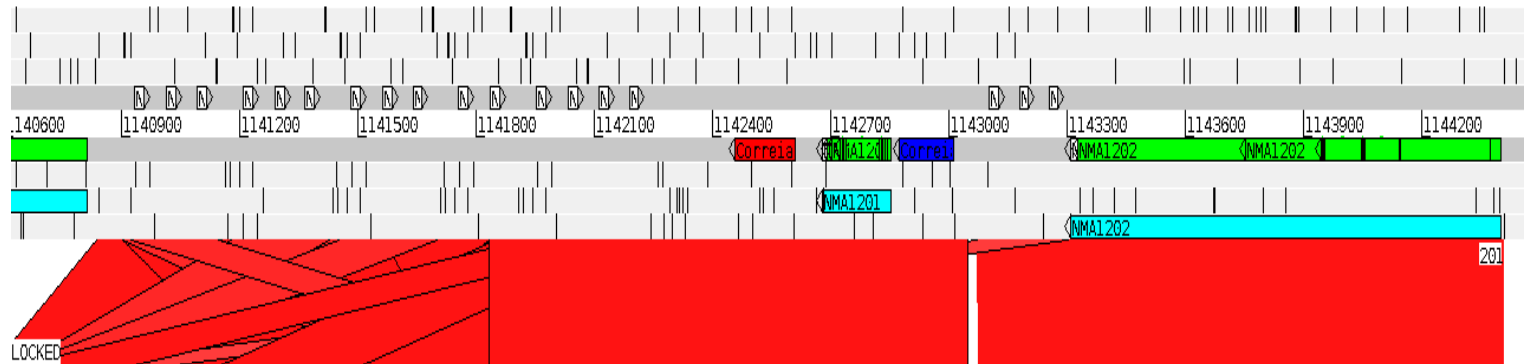


NMArS3_25

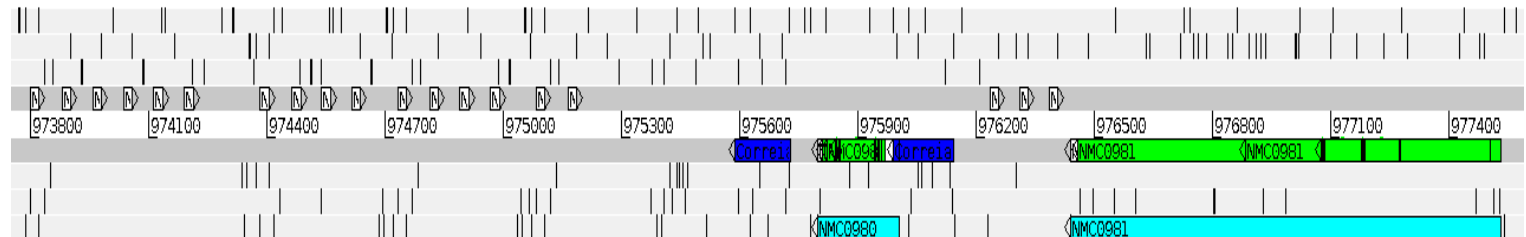
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

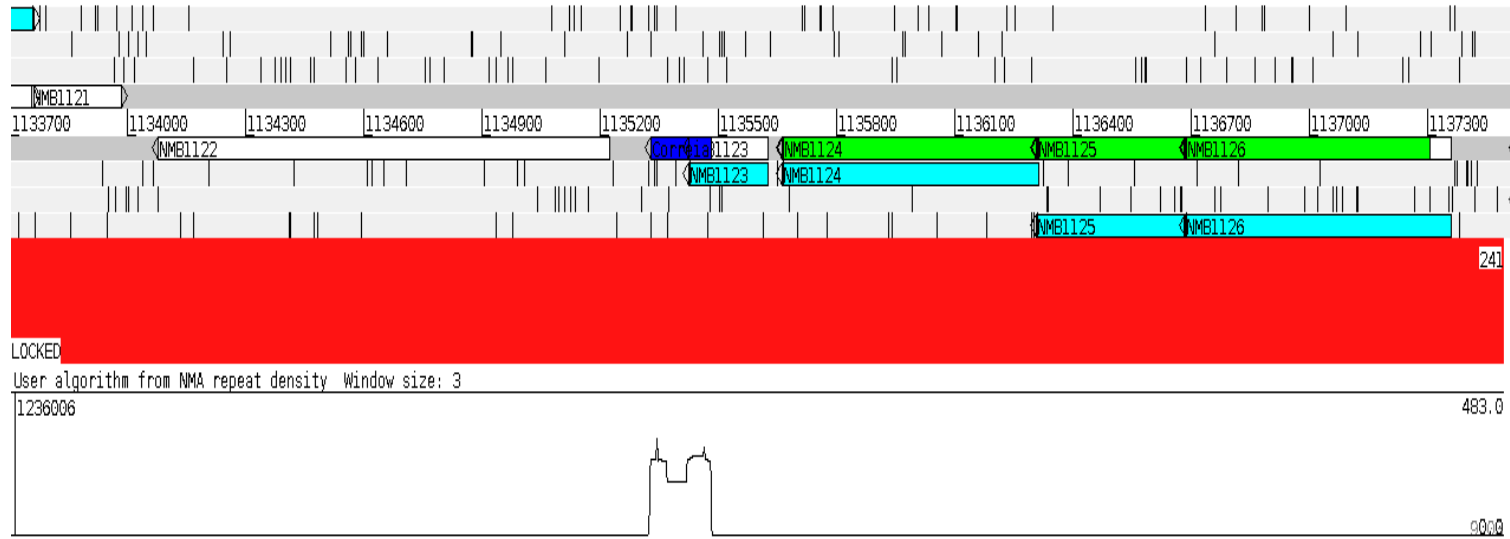


N.m FAM18
(serogroup C)

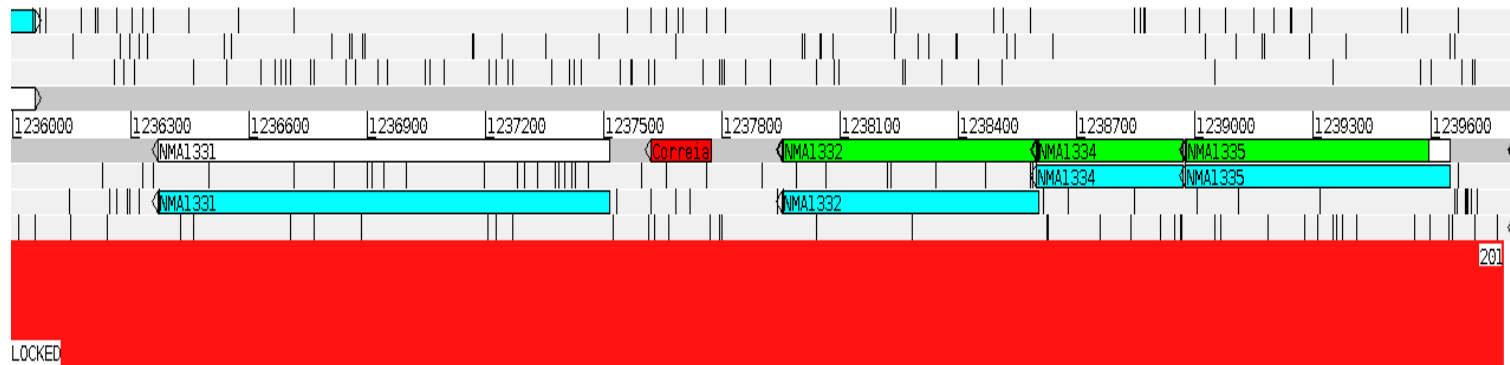


NMA1331_26

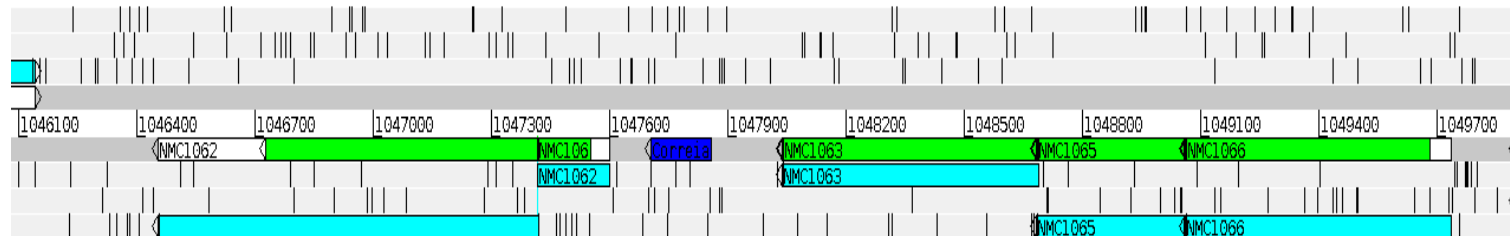
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)



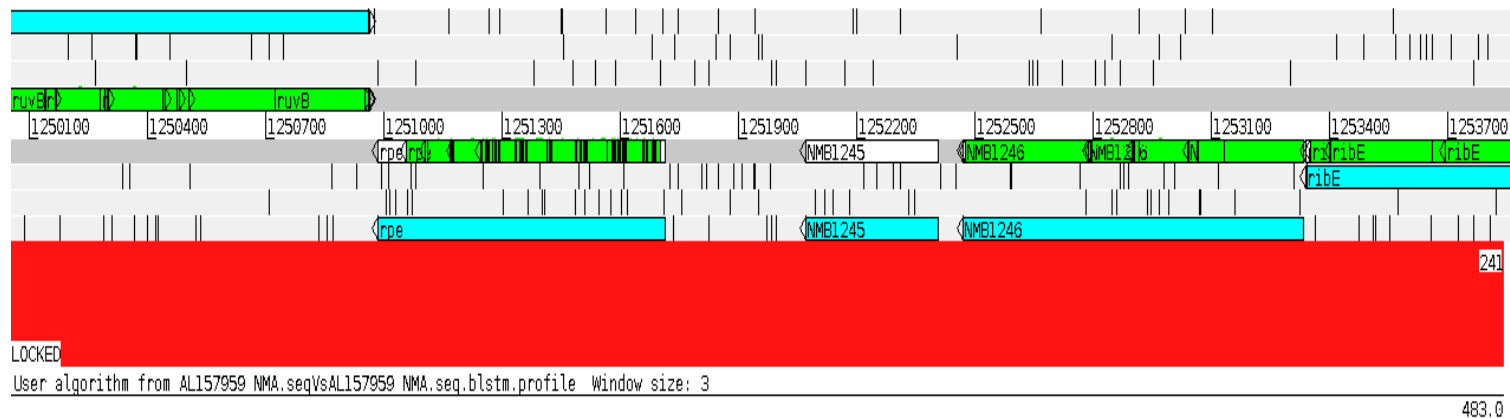
N.m FAM18
(serogroup C)



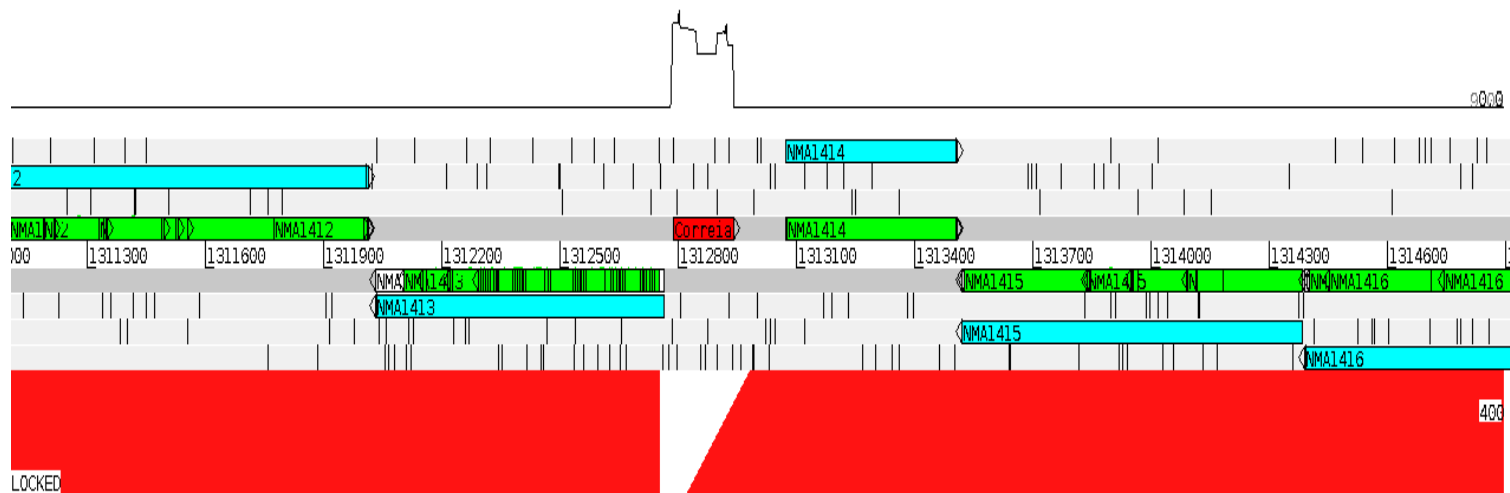
[illegible][illegible]

NMA1414_28

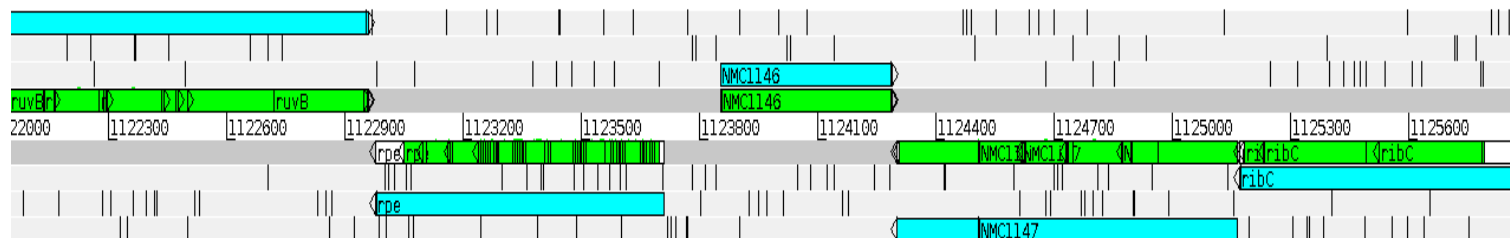
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

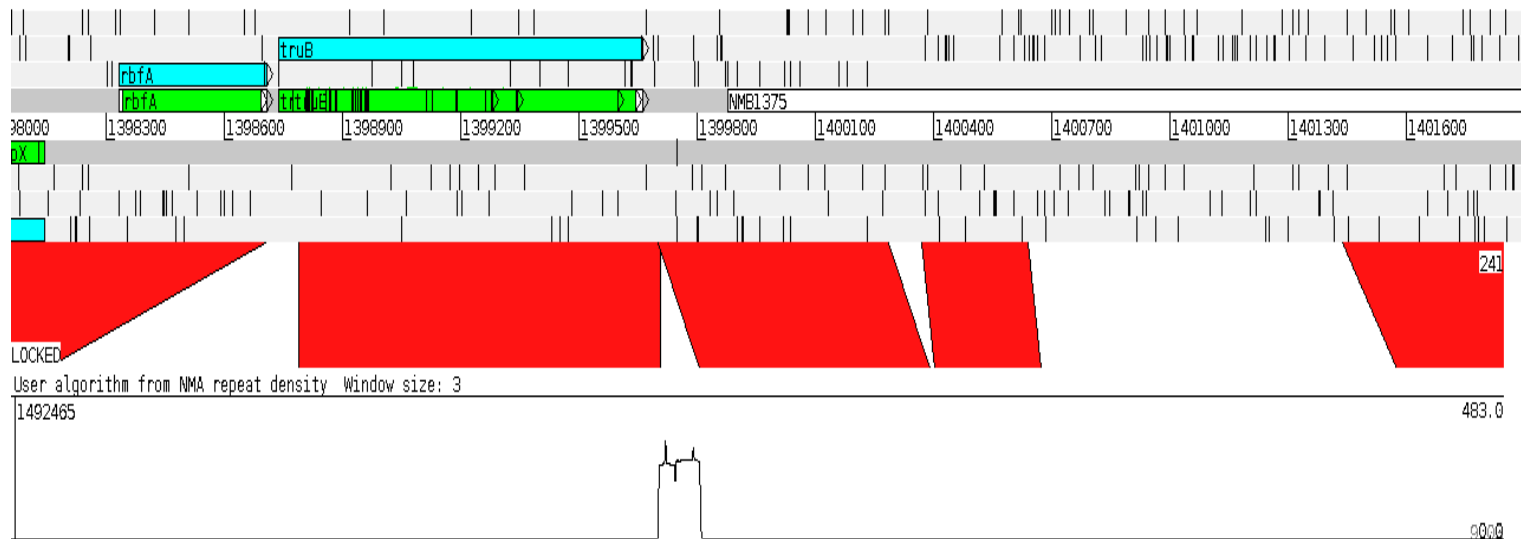


N.m FAM18
(serogroup C)

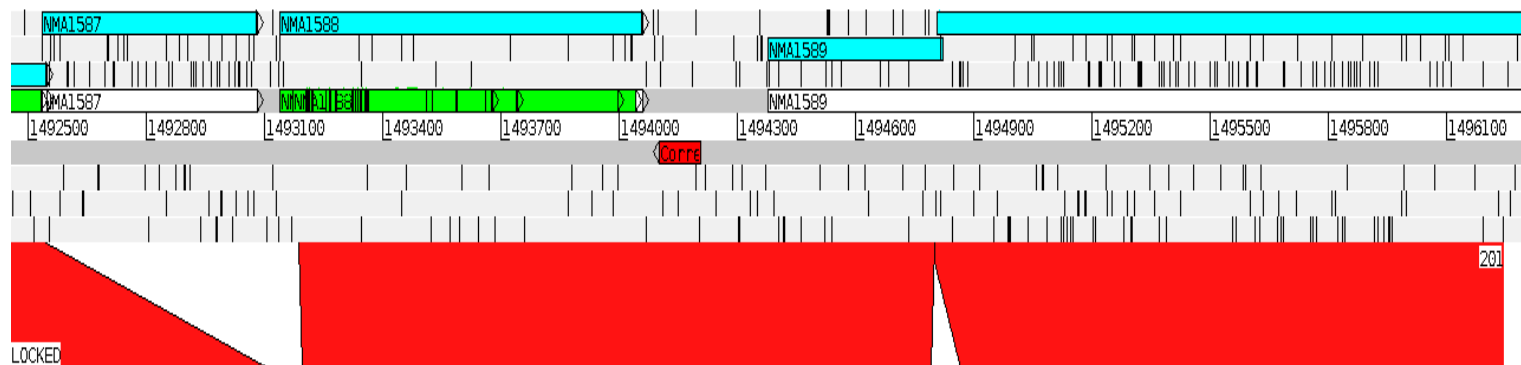


NMA1588_29

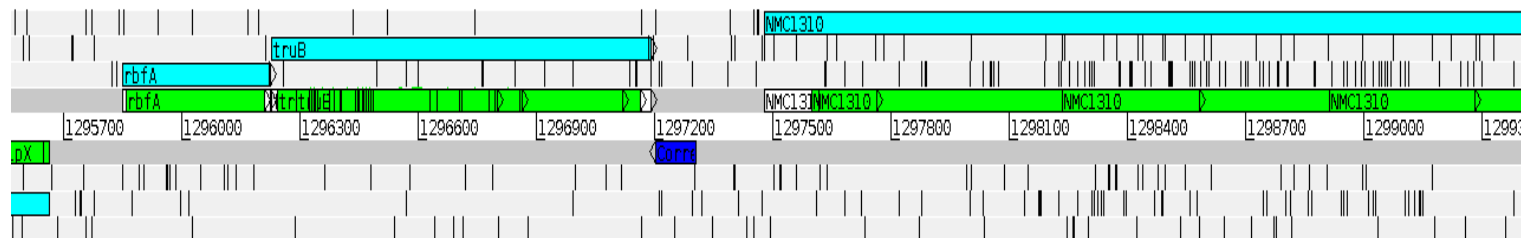
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

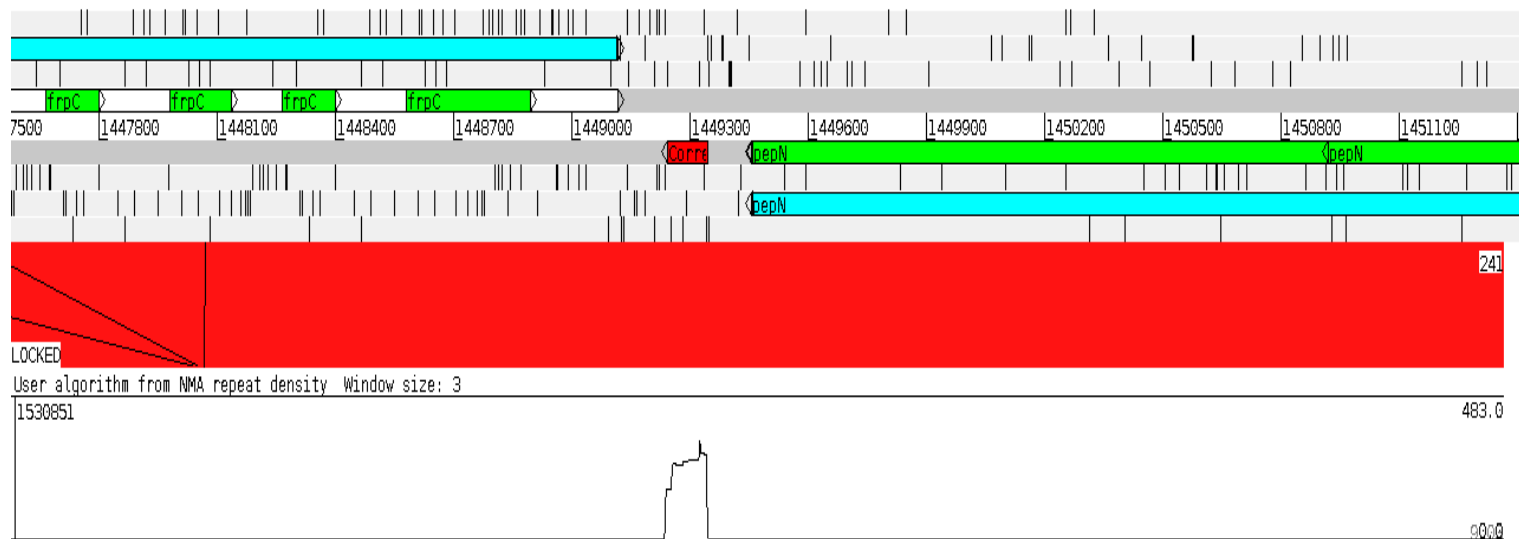


N.m FAM18
(serogroup C)

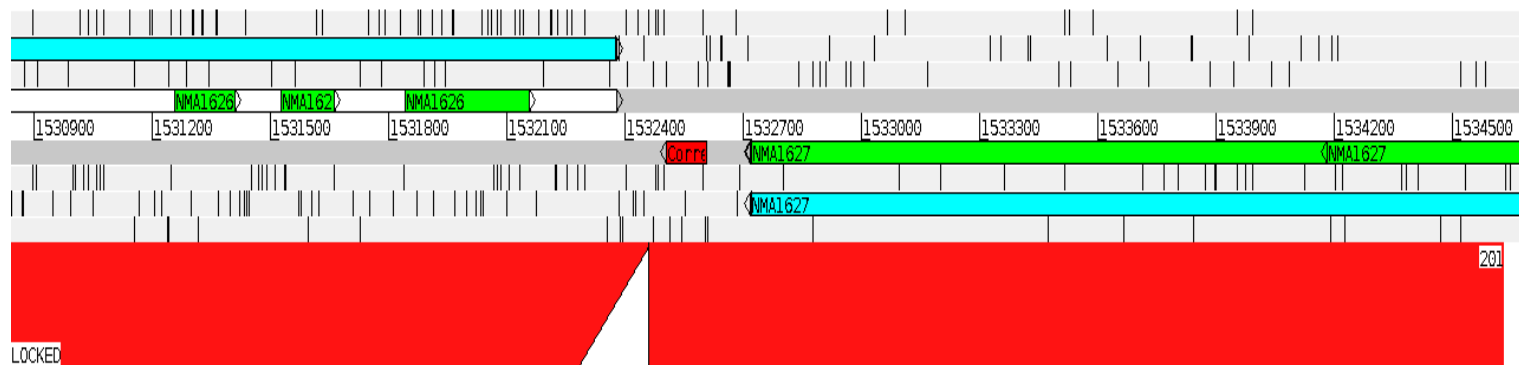


NMA1626_30

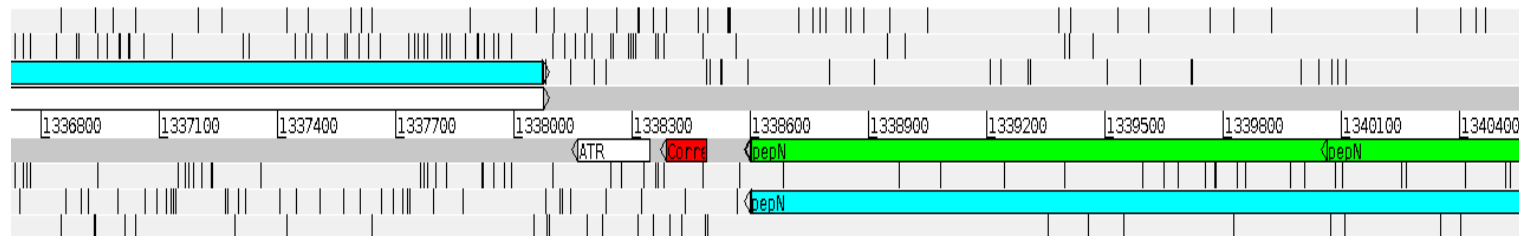
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)



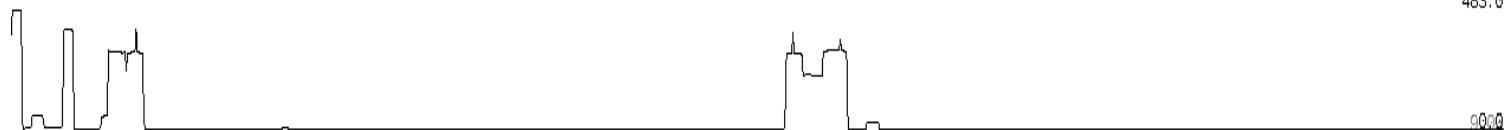
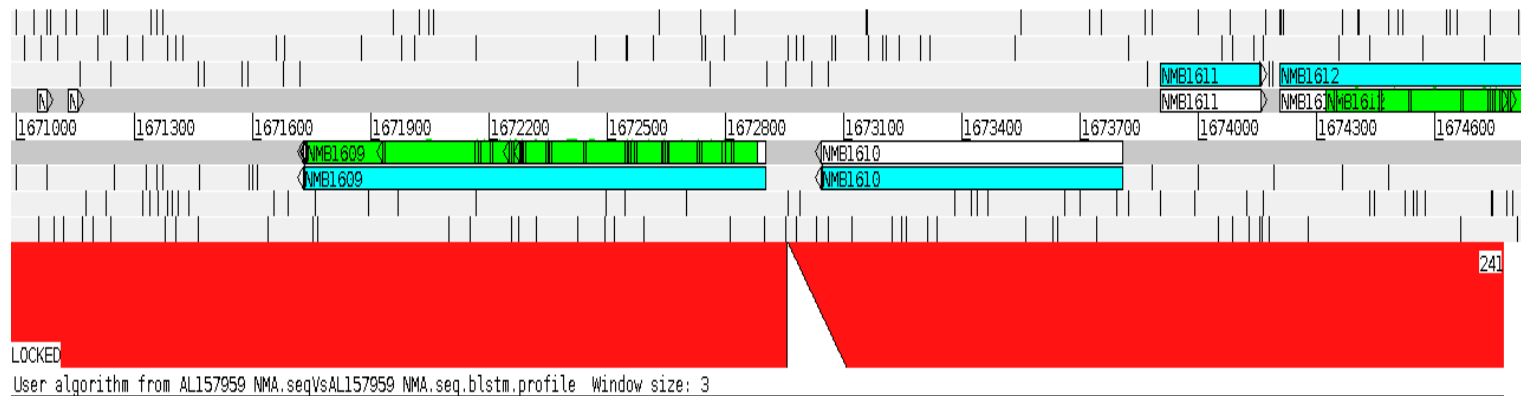
N.m FAM18
(serogroup C)



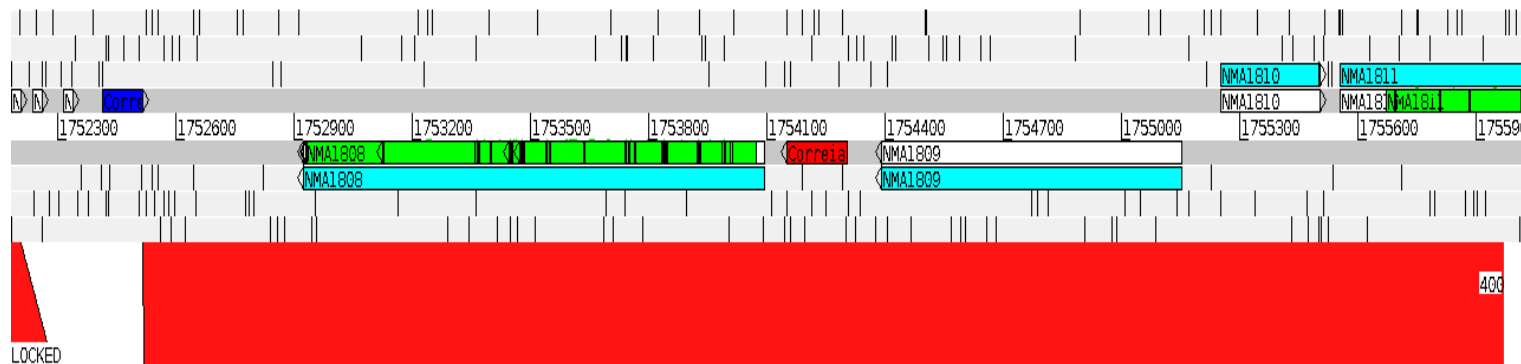
Genomic track visualization showing gene models and coverage for NMA1696, NMA1697, and NMA1698. The top track displays gene models with exons in green and introns in white. The middle track shows coverage with red bars. The bottom track shows a red bar labeled 'LOCKED'.

NMA1808_32

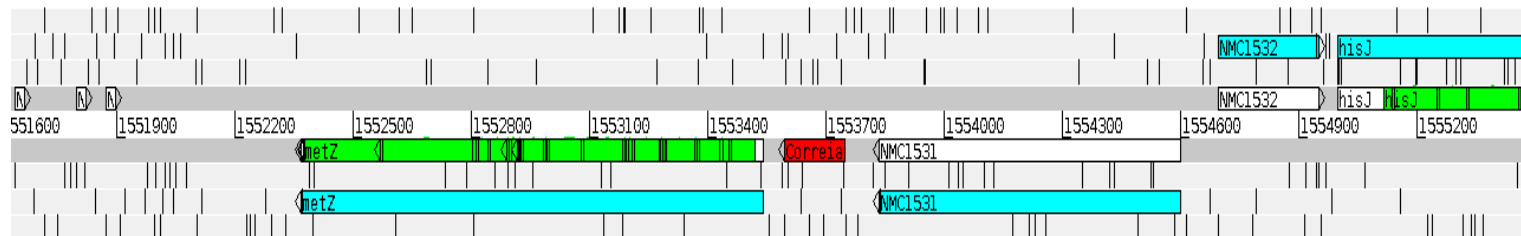
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

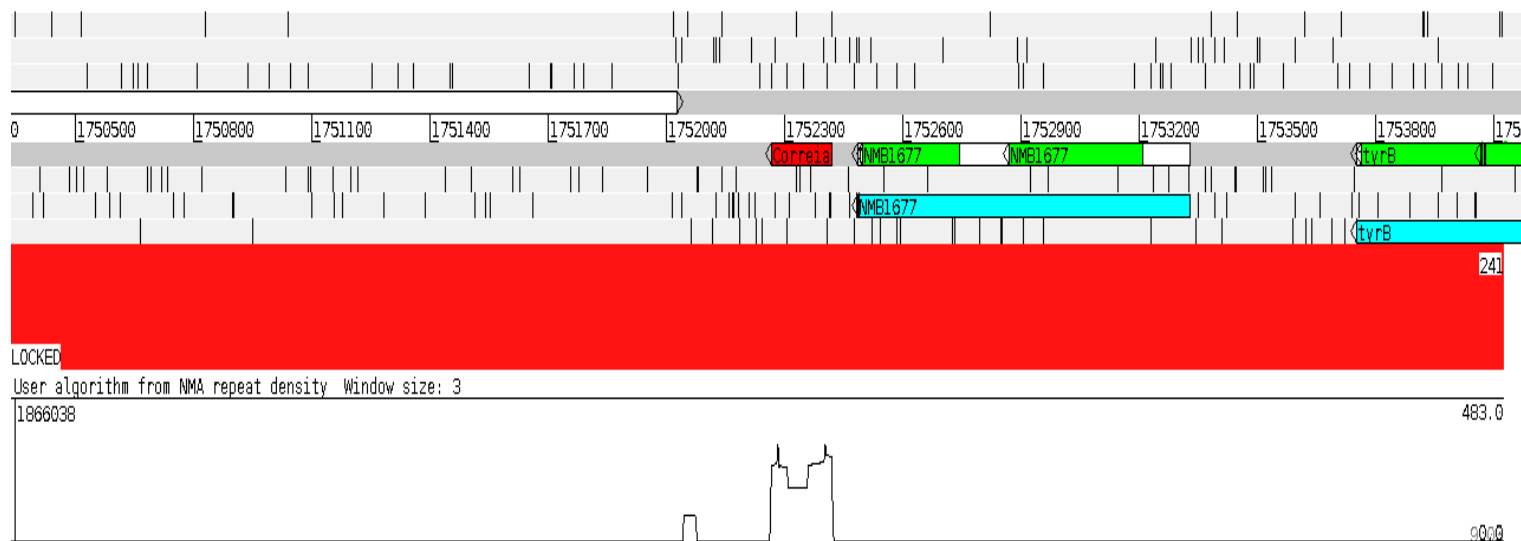


N.m FAM18
(serogroup C)

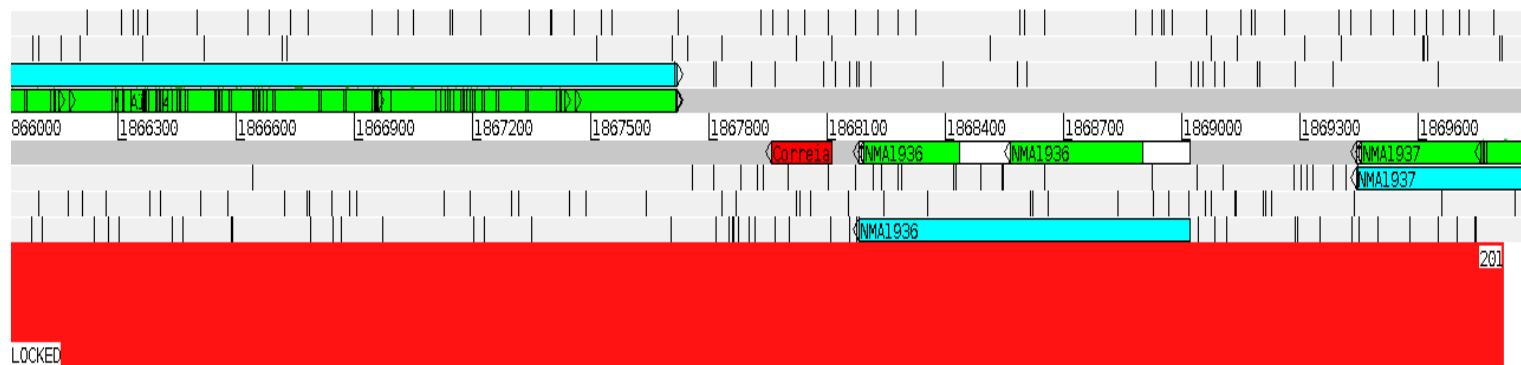


NMA1935_33

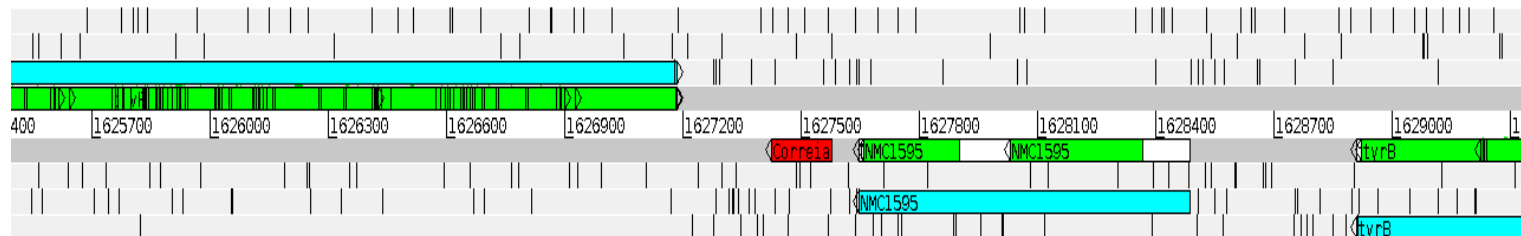
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

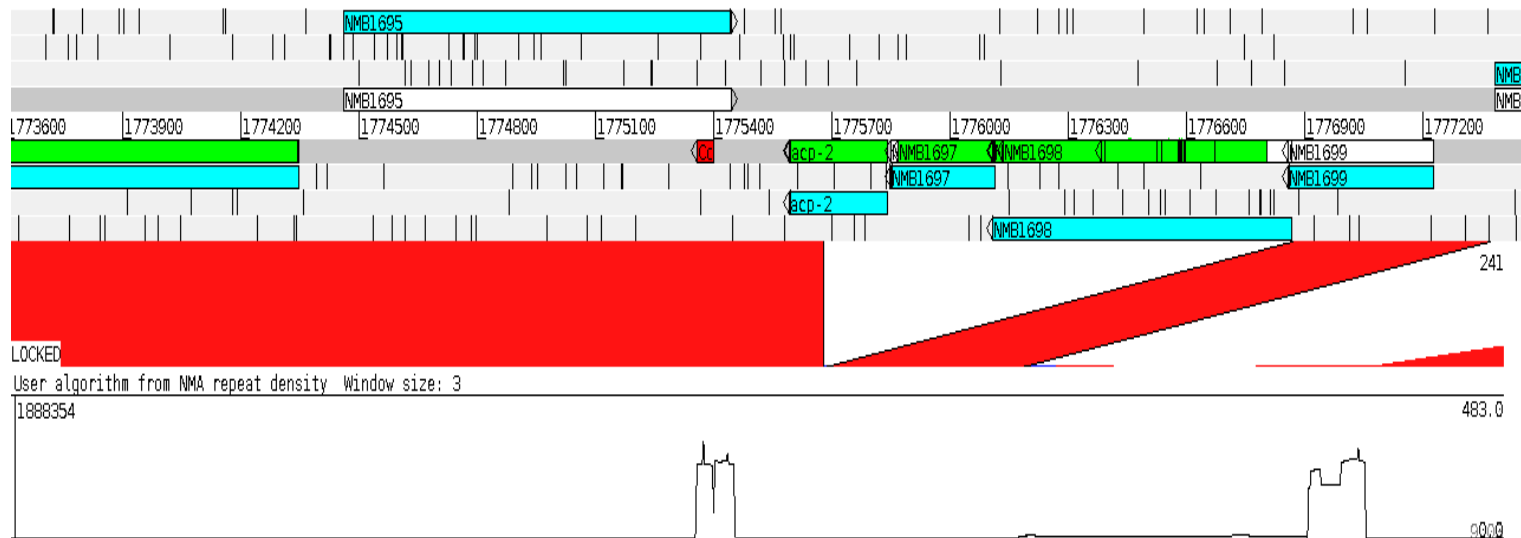


N.m FAM18
(serogroup C)

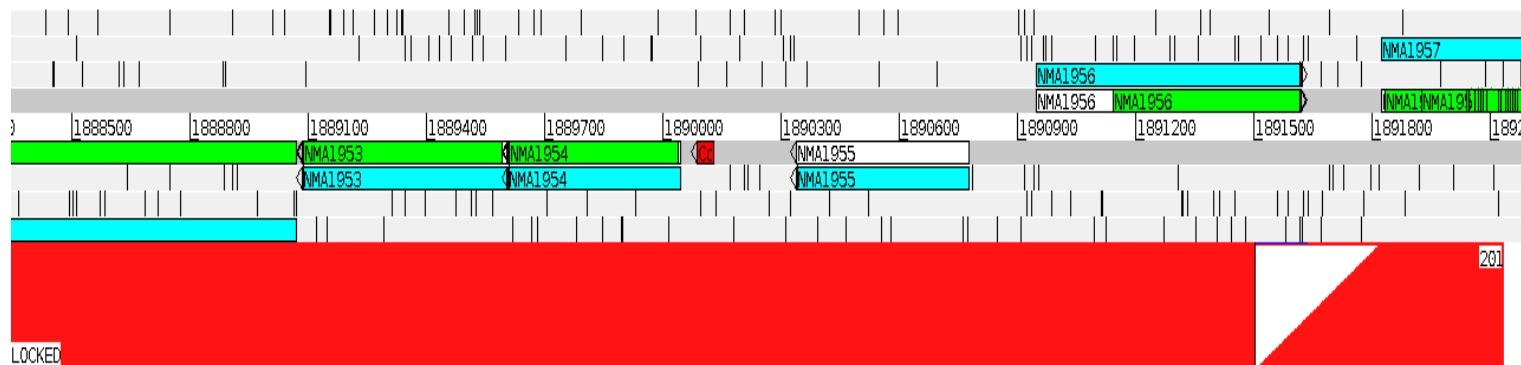


NMA1954_34

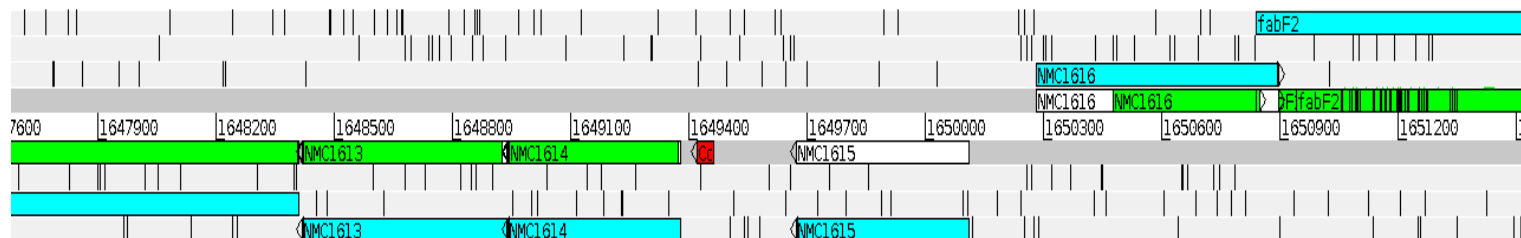
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

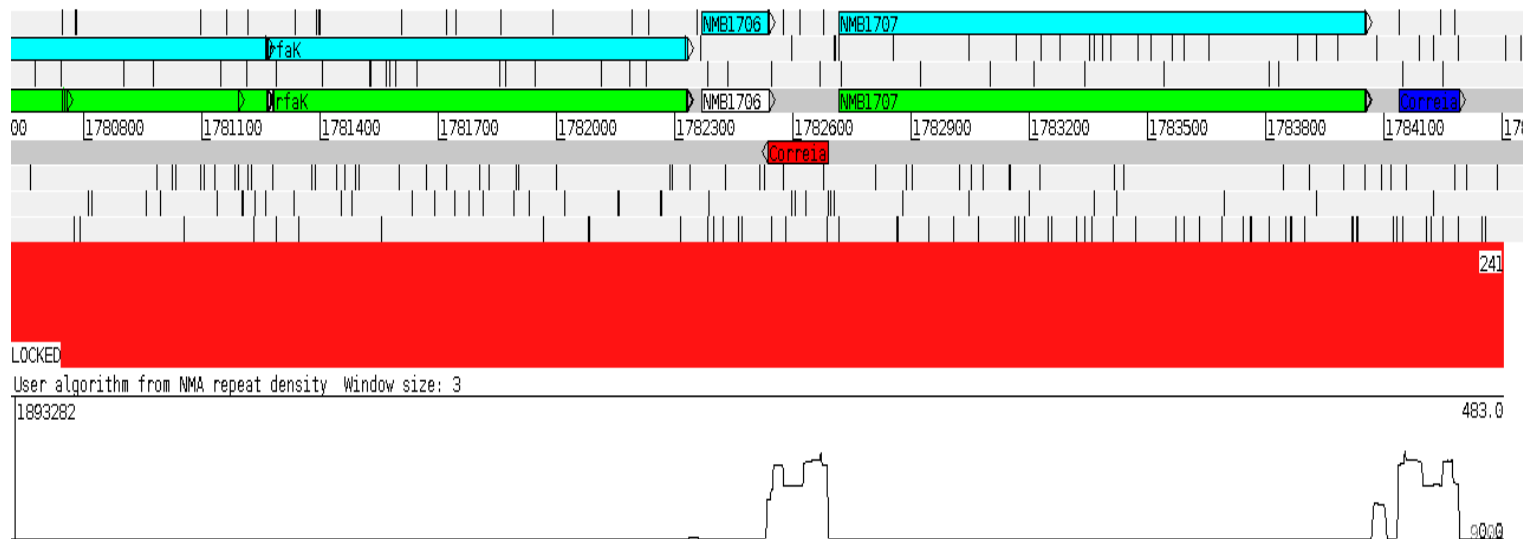


N.m FAM18
(serogroup C)

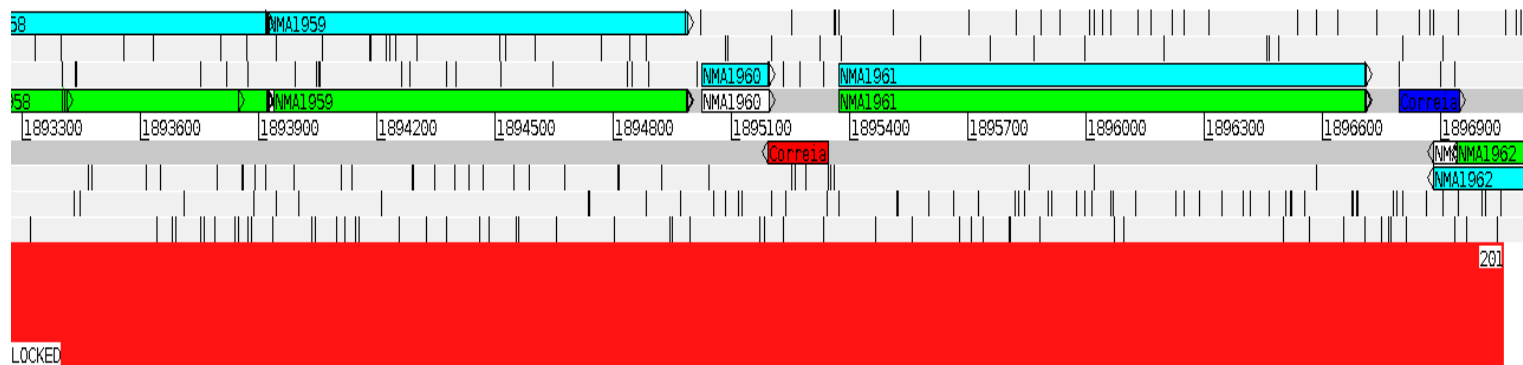


NMA1960_35

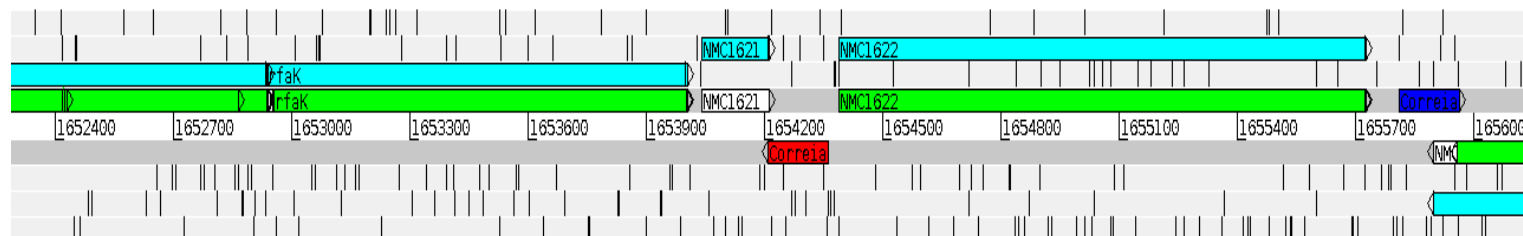
N.m MB58
(serogroup B)



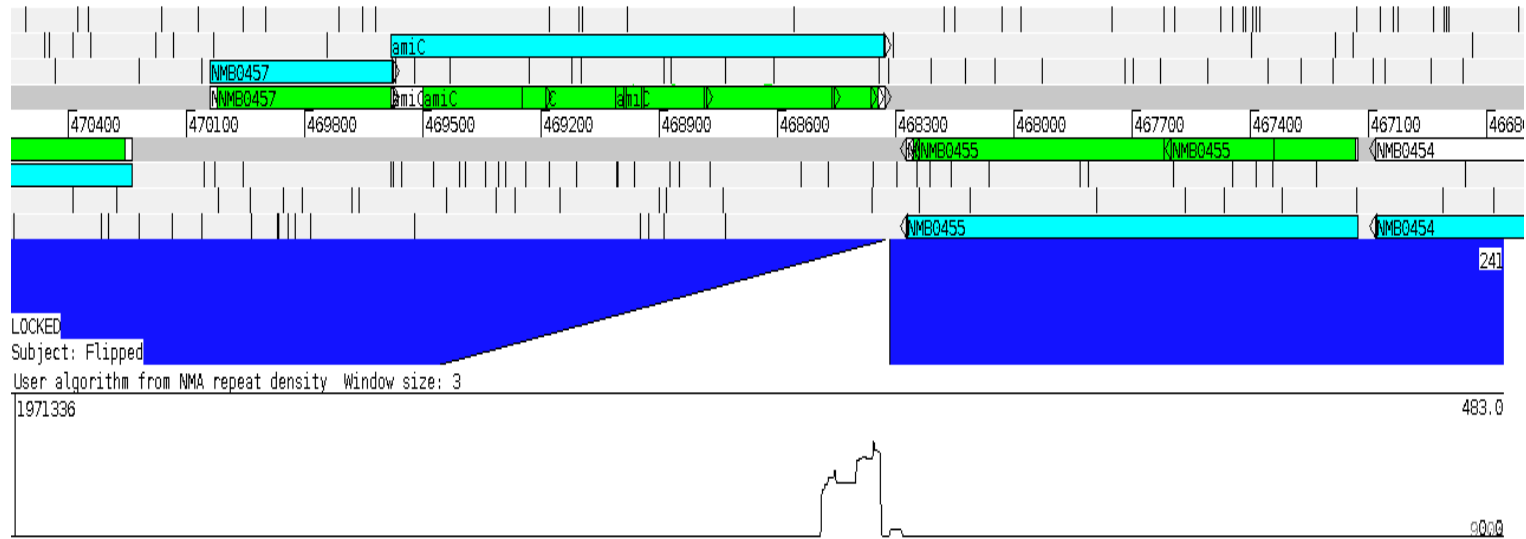
N.m Z2491
(serogroup A)



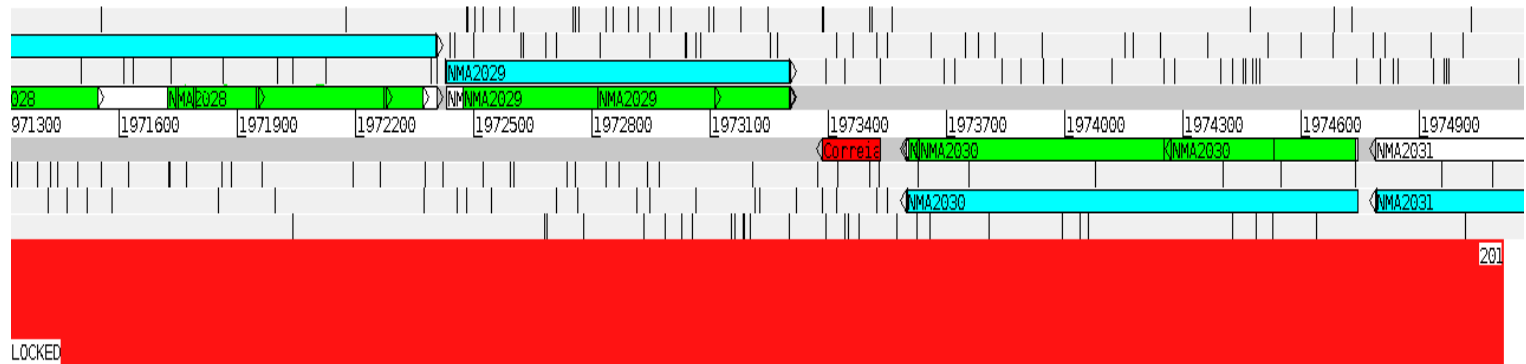
N.m FAM18
(serogroup C)



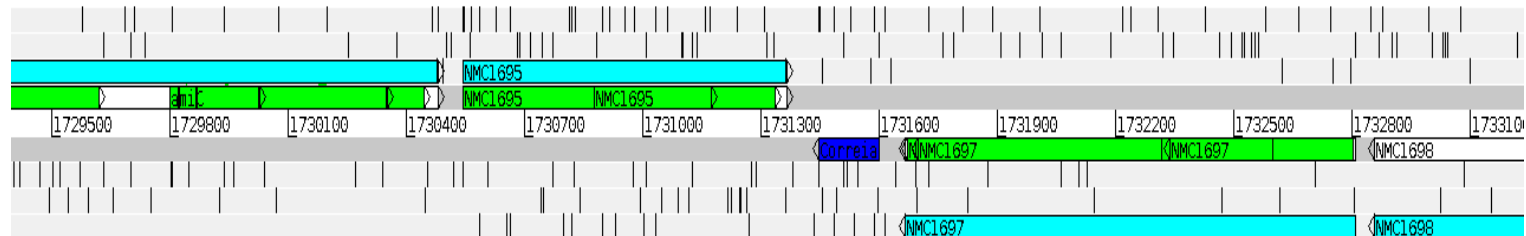
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

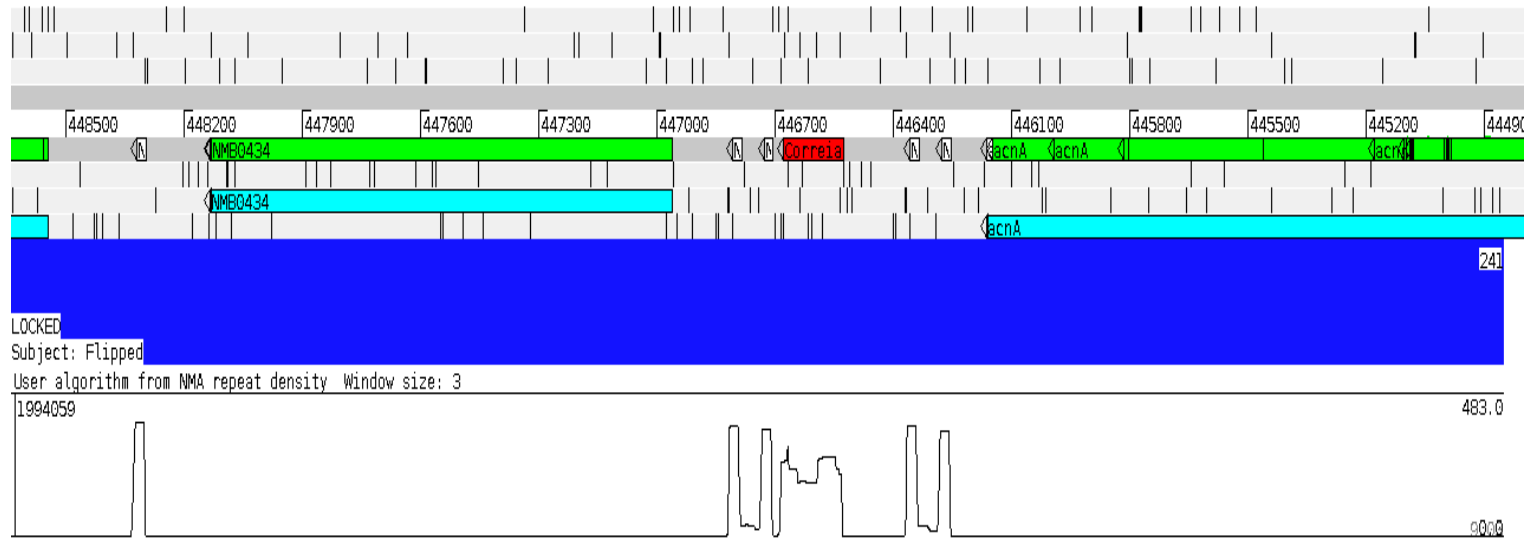


N.m FAM18
(serogroup C)

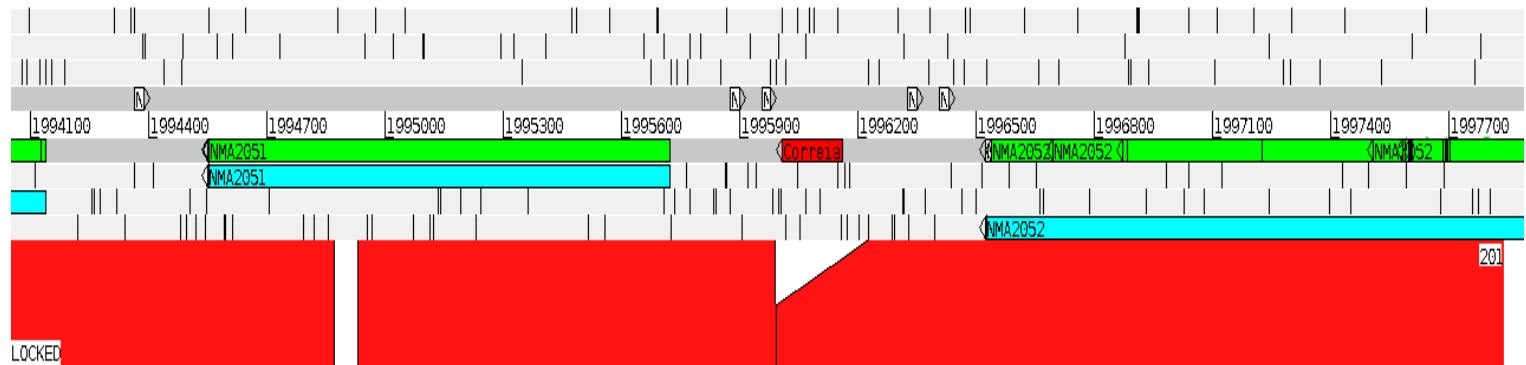


NMArS3_37

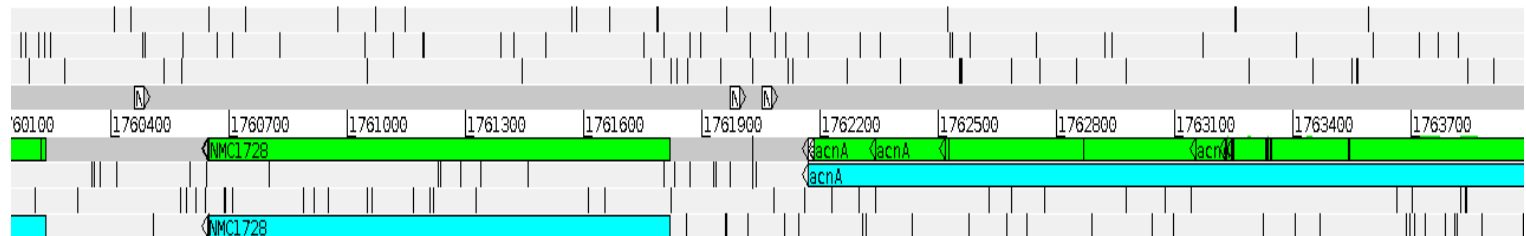
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)



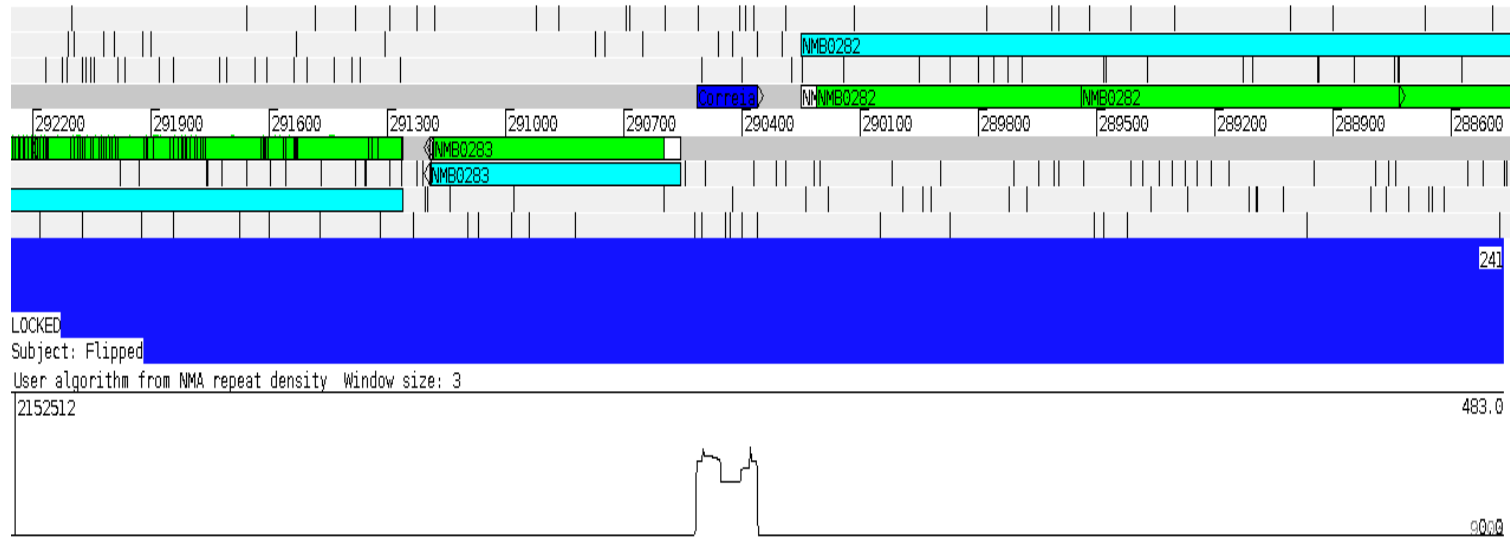
Genomic browser view of the NMB0378 gene region. The top track shows the gene structure with exons in green and introns in cyan. Below is a track with a blue background and a white bar, labeled "LOCKED" and "Subject: Flipped". The bottom track shows a signal plot with peaks. The x-axis is labeled with coordinates from 383100 to 379600. The y-axis is labeled "2061581" and "483.0".

Genomic map of the NMA2108-2109 gene cluster on chromosome 201. The map shows genes NMA2108 (cyan), NMA2109 (green), and NMA2109 (cyan) with their orientations. A red bar at the bottom indicates the 'LOCKED' state. A scale bar at the top shows positions from 2061600 to 2065200. A red 'Corr' label is present near the 2063400 position.

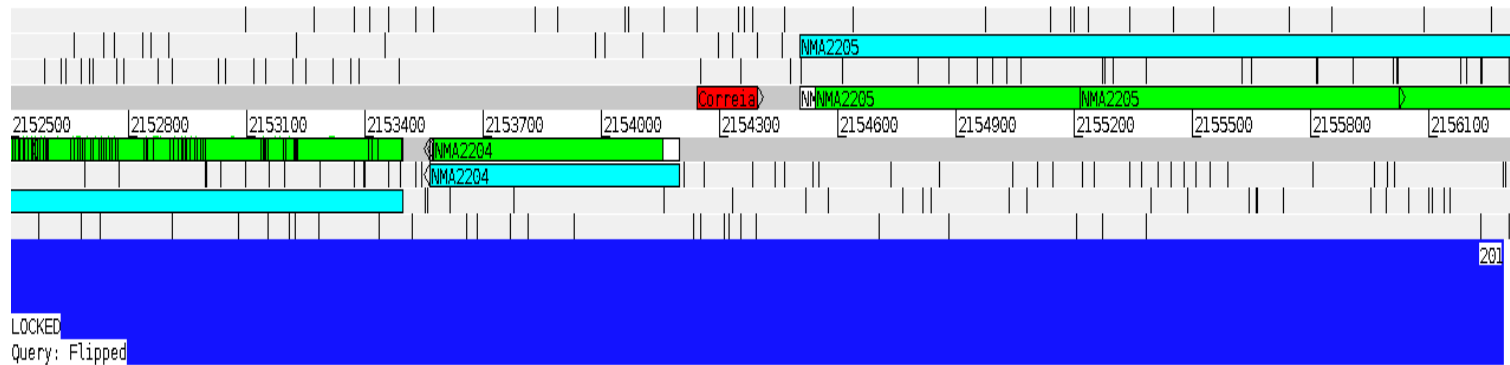
[illegible]

NMA2205_39

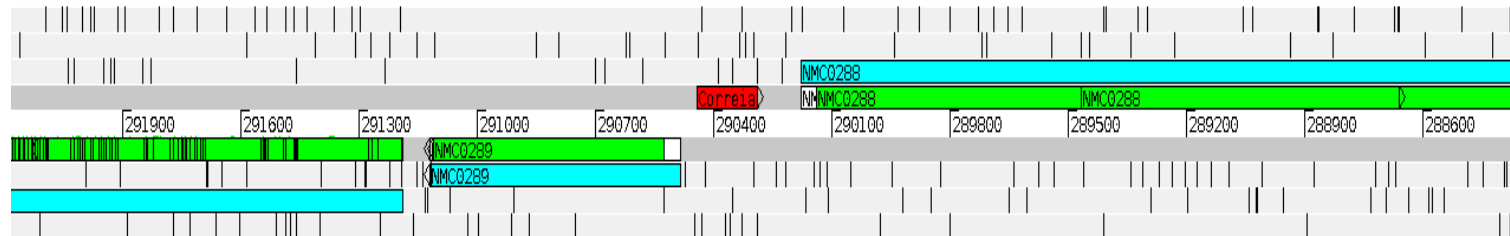
N.m MB58
(serogroup B)



N.m Z2491
(serogroup A)

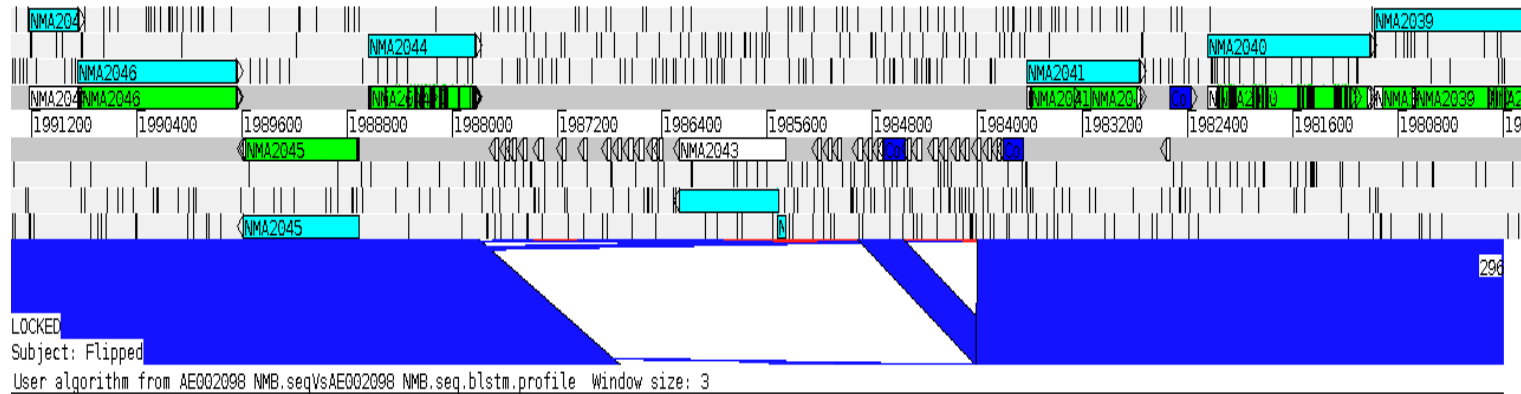


N.m FAM18
(serogroup C)



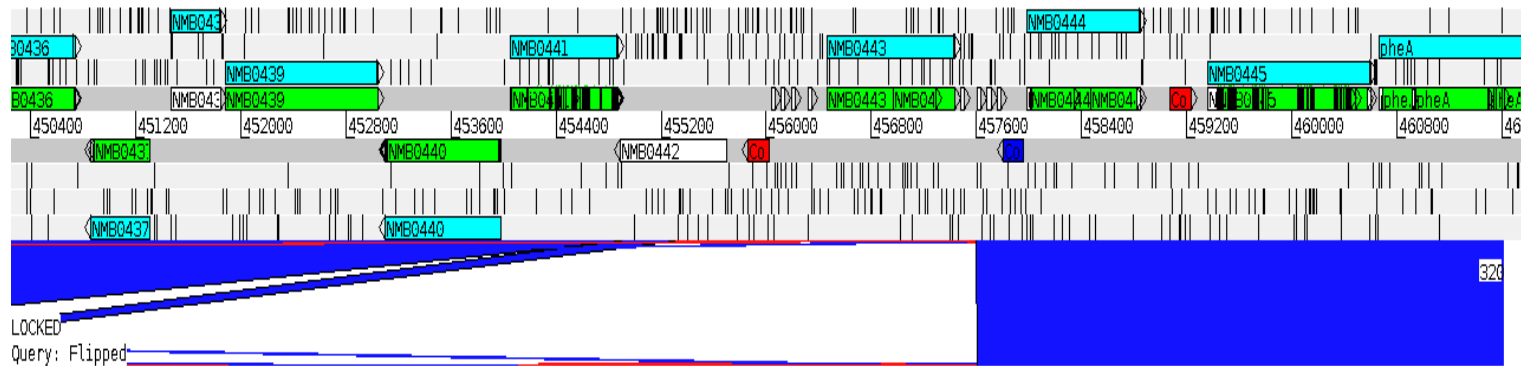
NMB0442_1

N.m Z2491
(serogroup A)



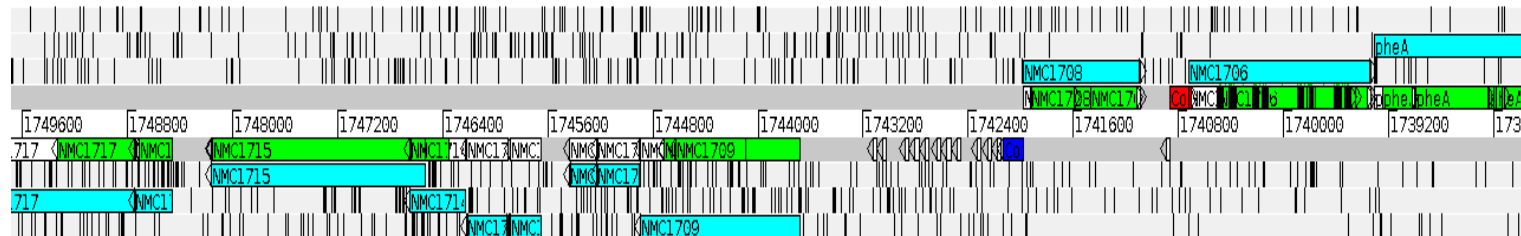
472.0

N.m MB58
(serogroup B)



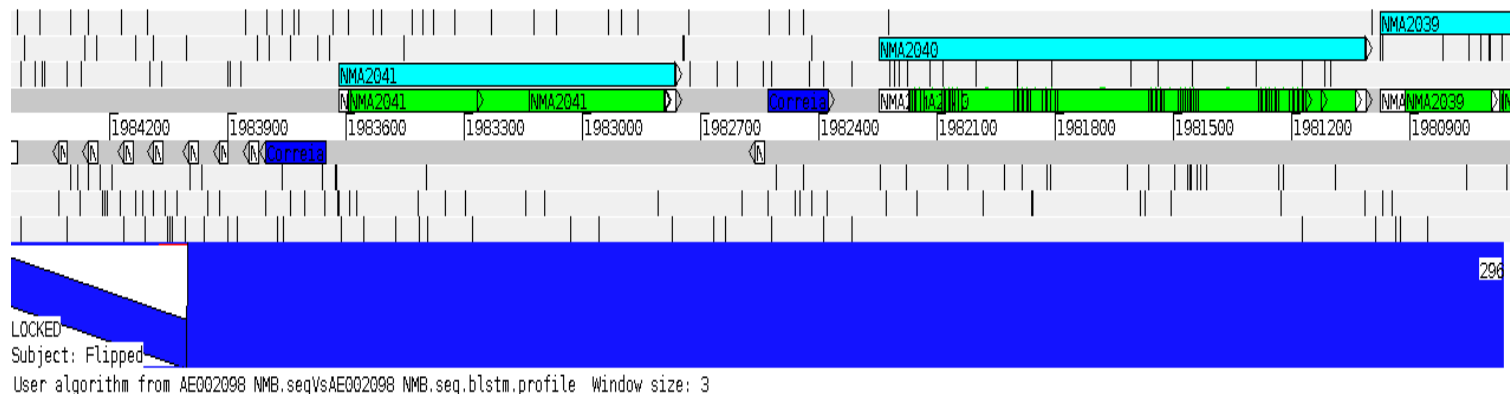
320

N.m FAM18
(serogroup C)

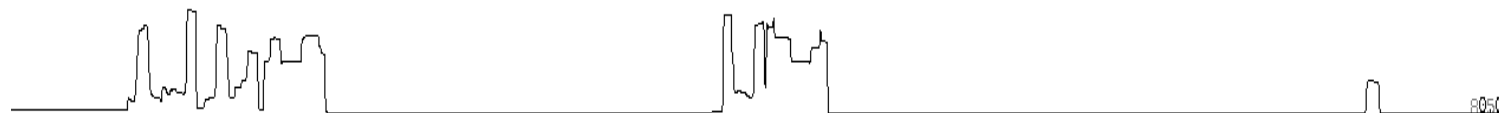


NMB0445_2

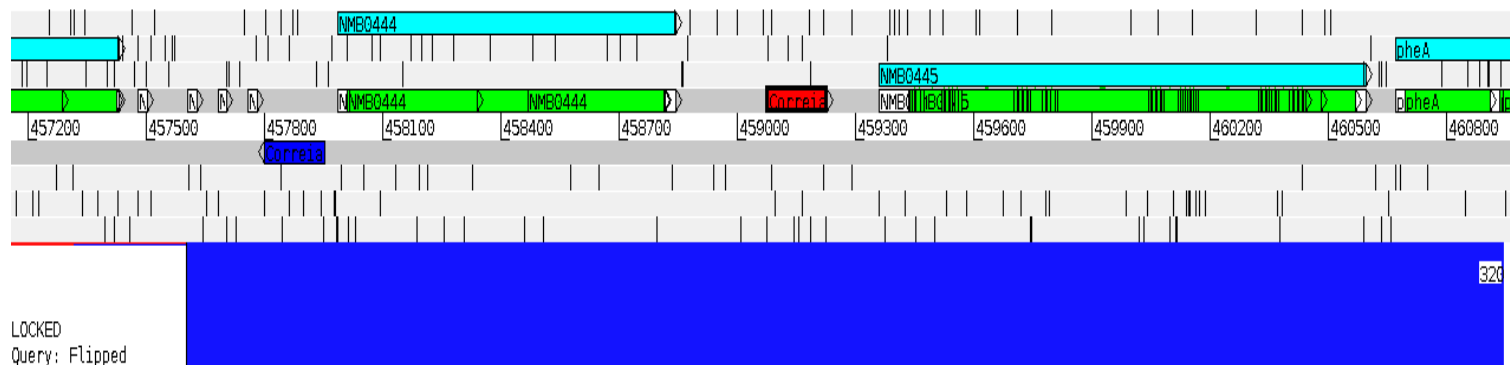
N.m Z2491
(serogroup A)



472.0



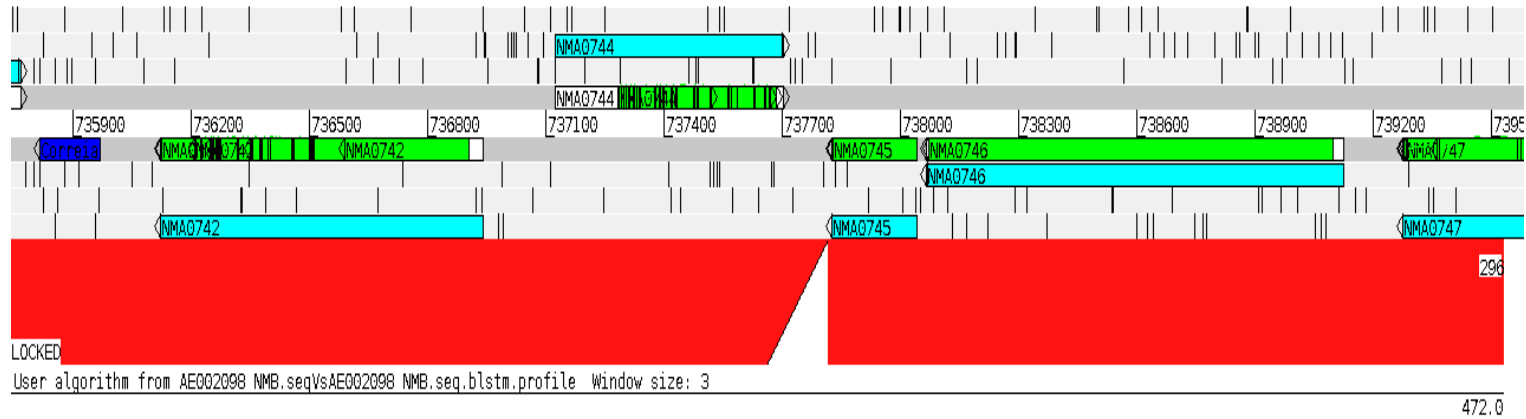
N.m MB58
(serogroup B)



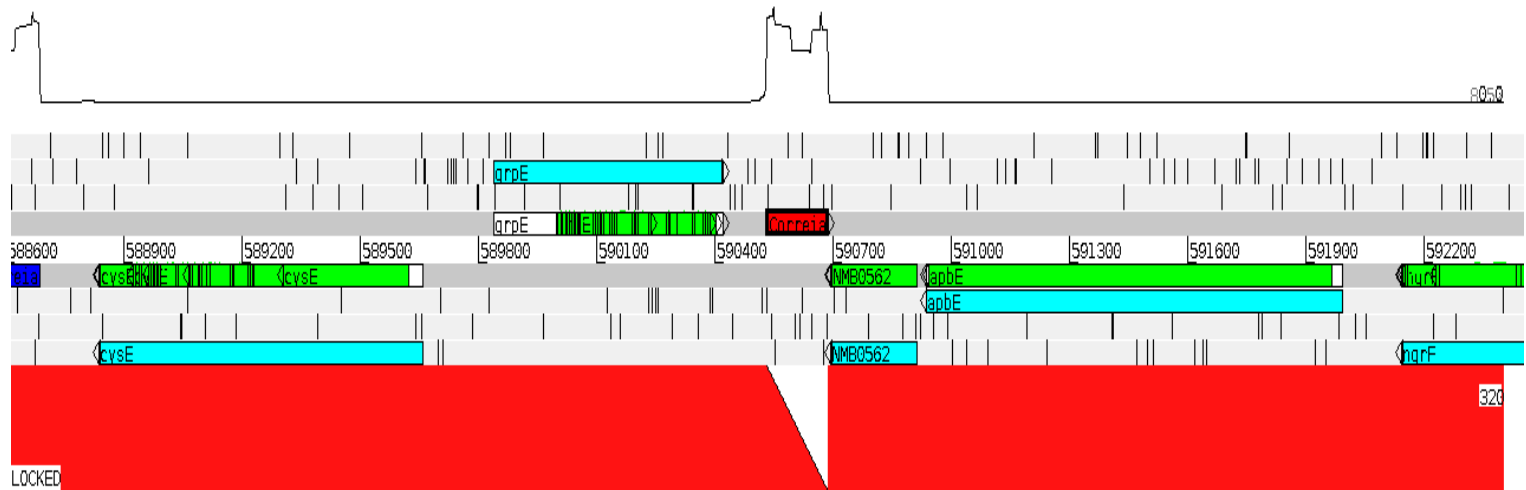
N.m FAM18
(serogroup C)

NMB0562_3

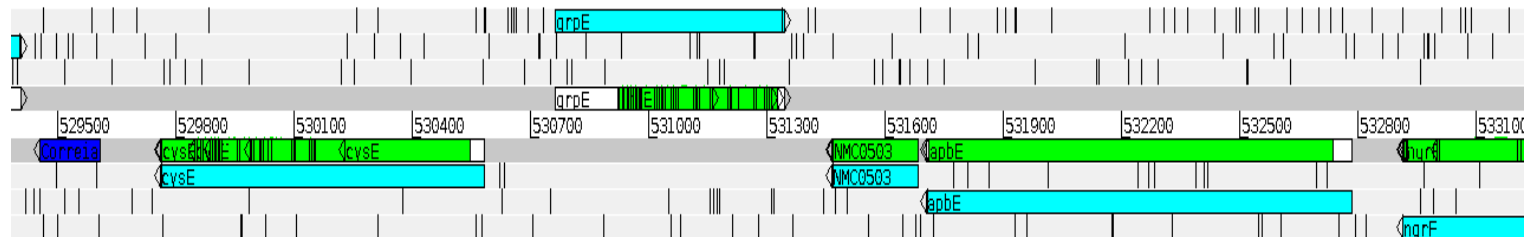
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

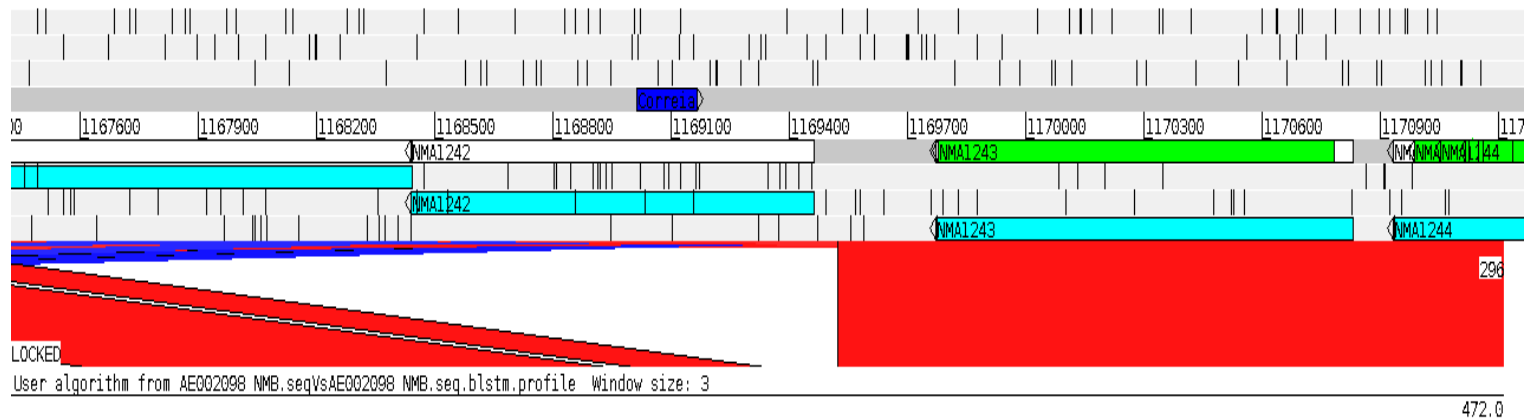


N.m FAM18
(serogroup C)

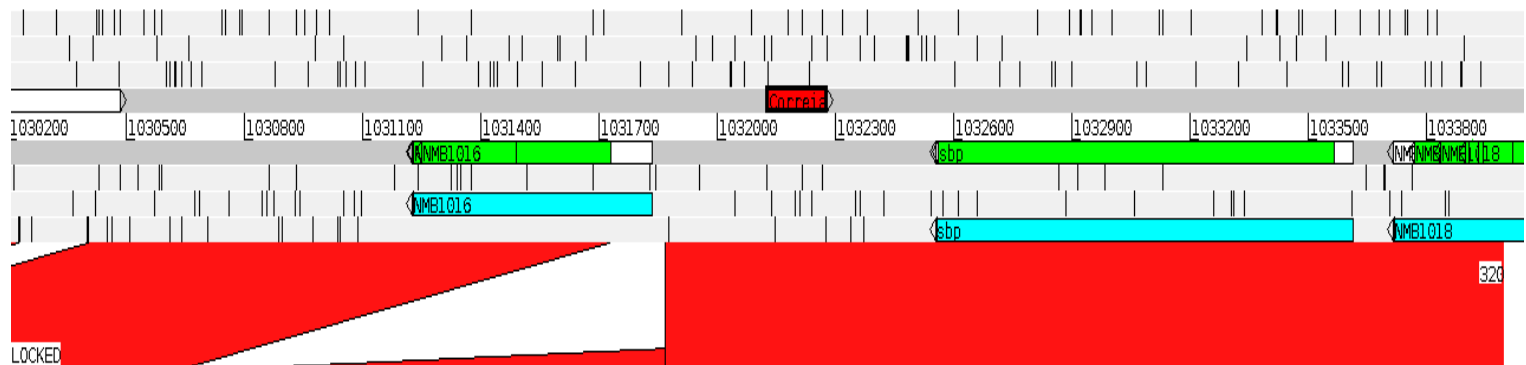


NMB1017_4

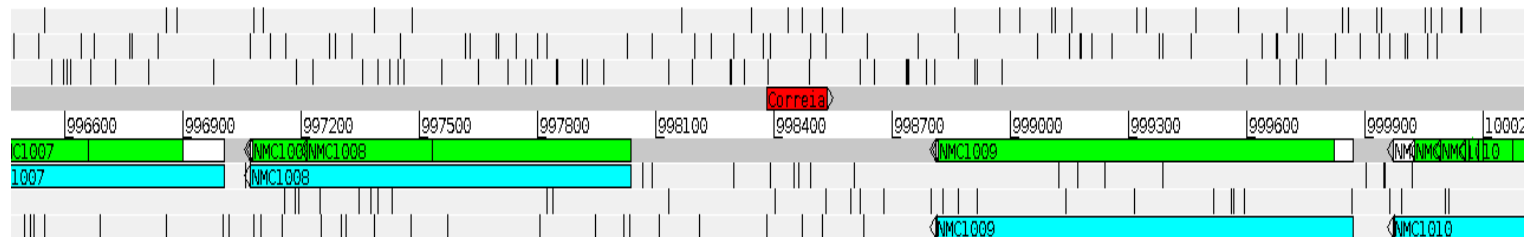
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

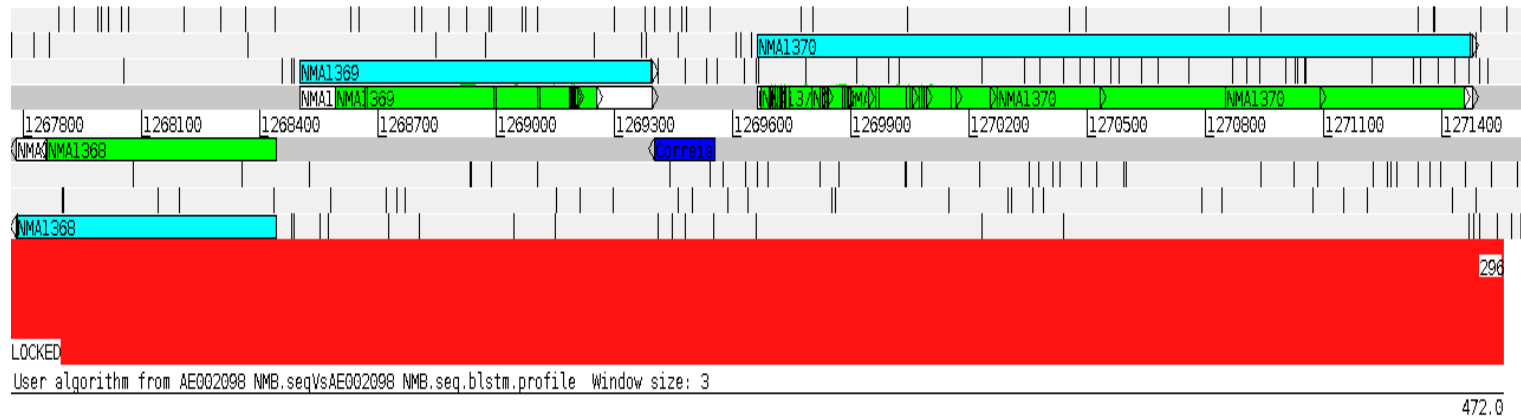


N.m FAM18
(serogroup C)

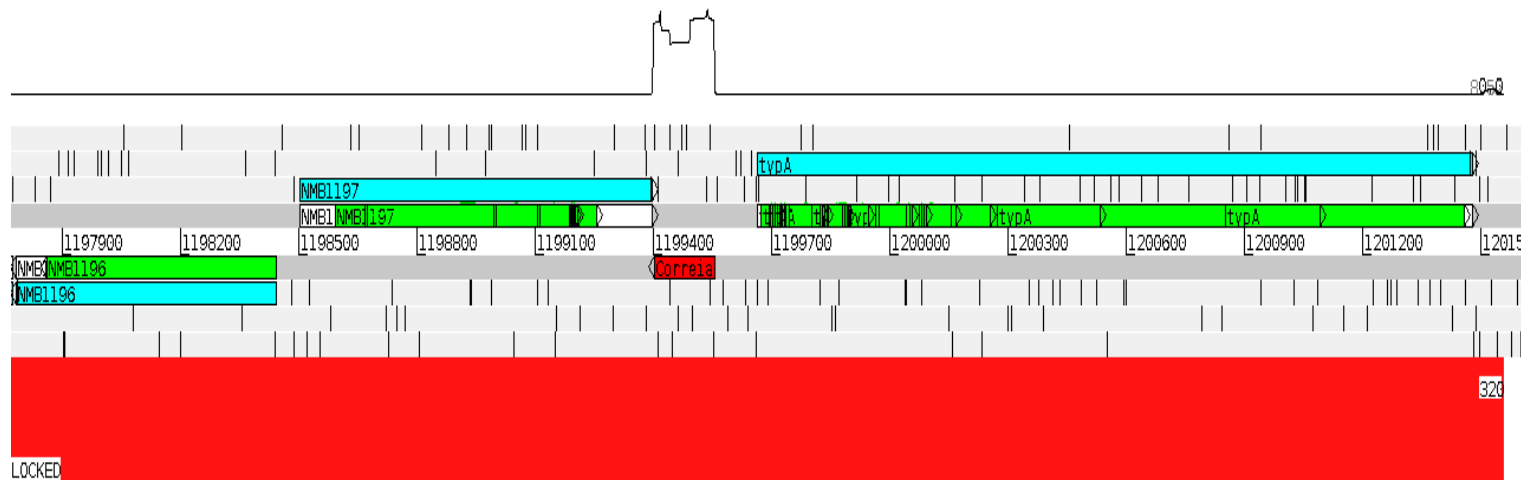


NMB1197_5

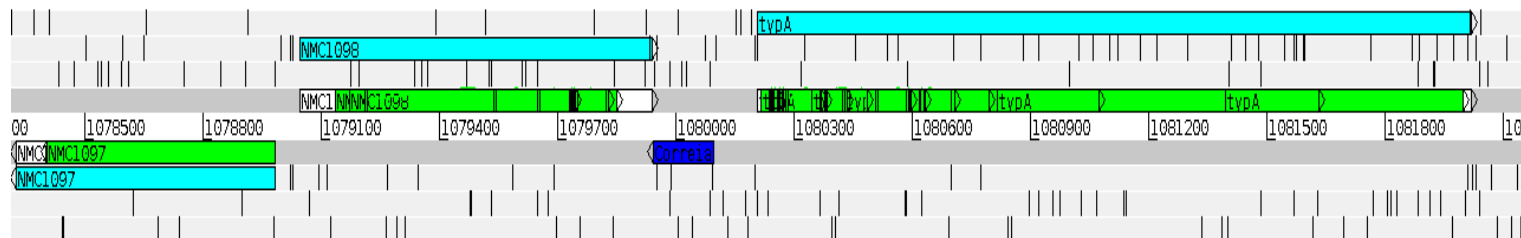
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

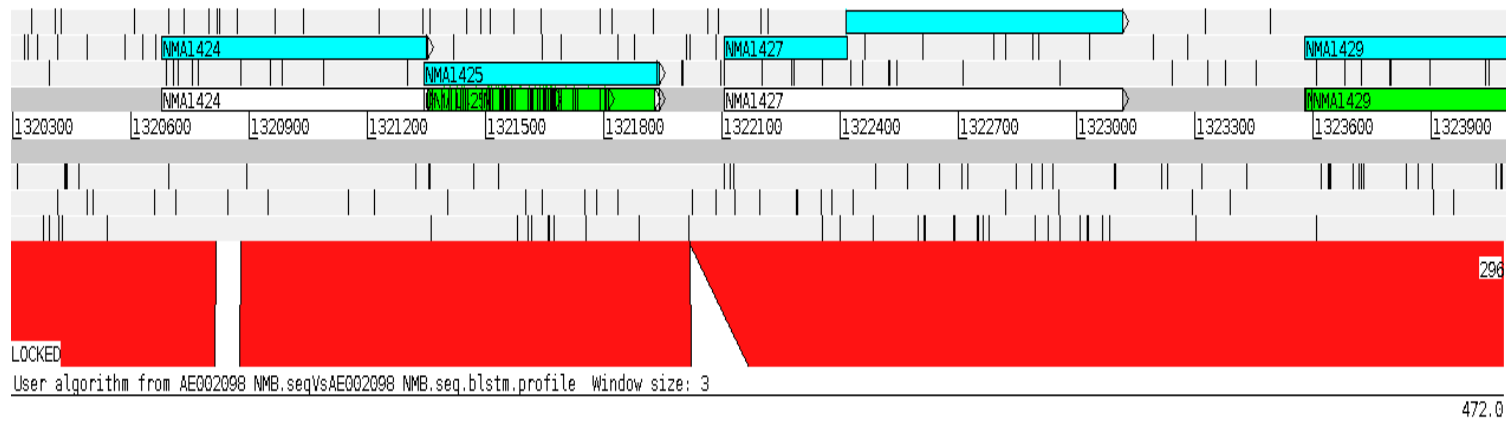


N.m FAM18
(serogroup C)

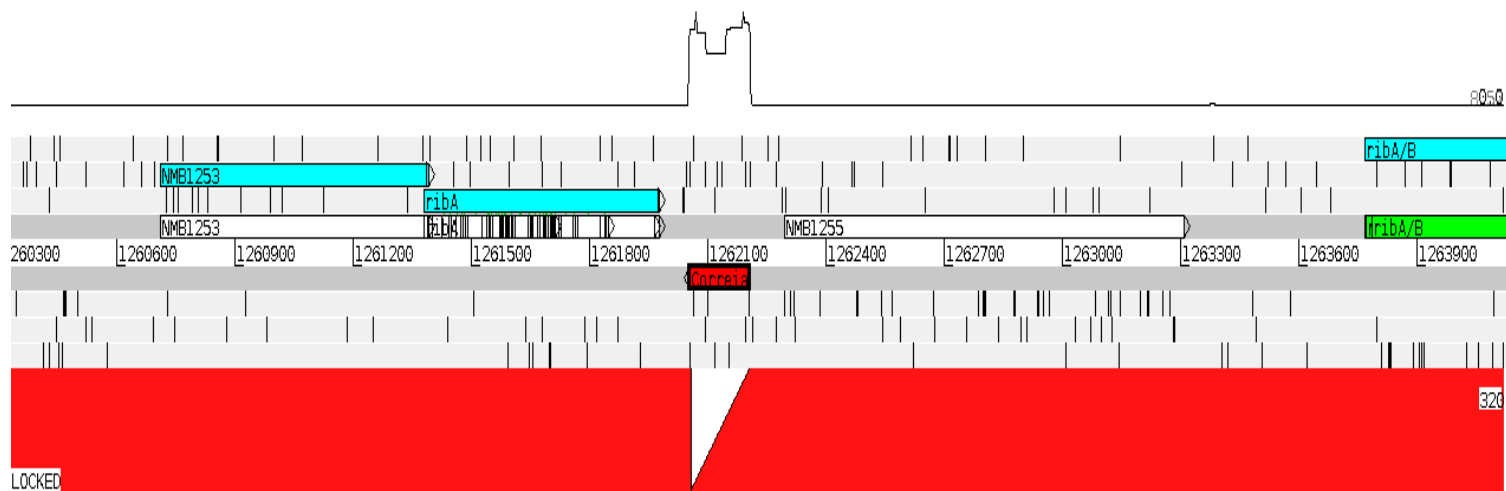


NMB1254_6

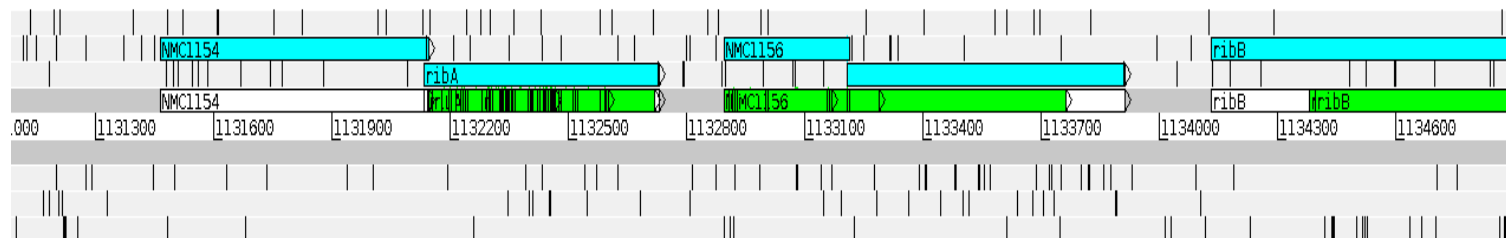
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

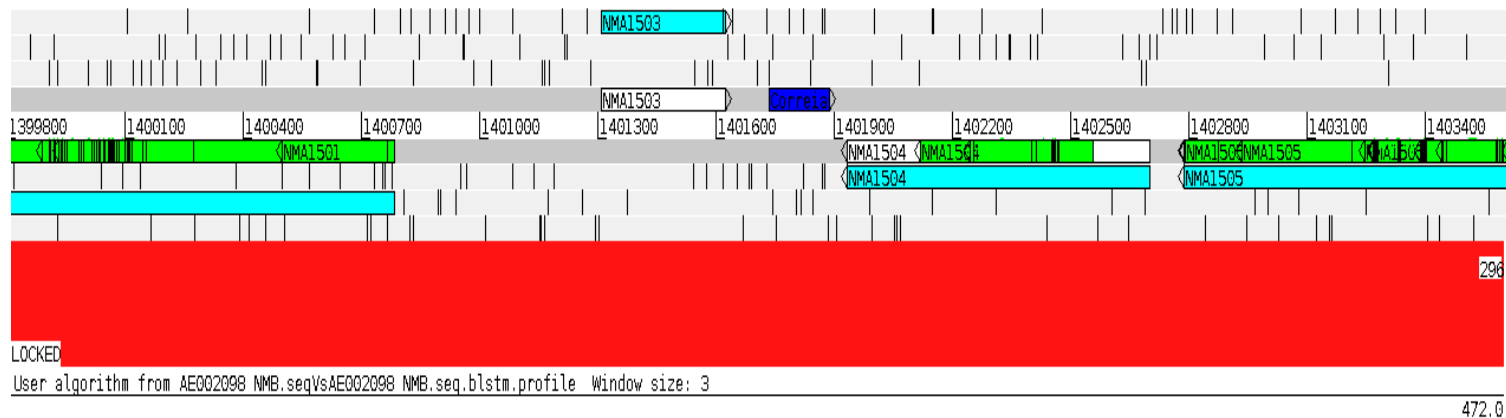


N.m FAM18
(serogroup C)

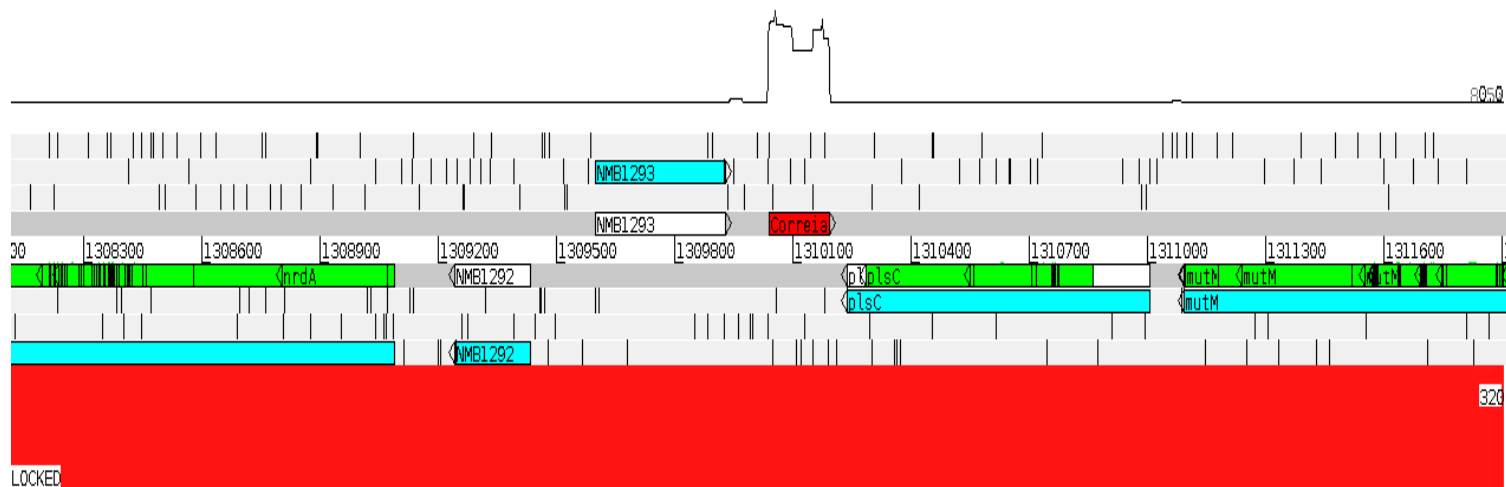


NMB1294_7

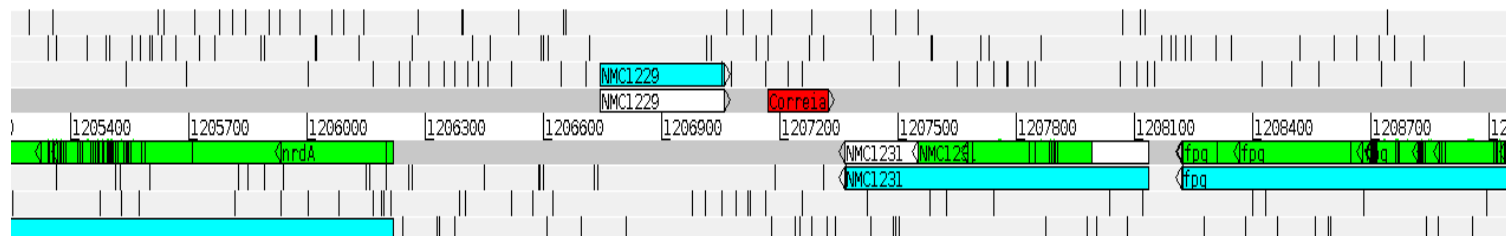
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)



N.m FAM18
(serogroup C)



Genomic track visualization showing gene models and genomic coordinates. The x-axis represents genomic coordinates from 1593000 to 1596000. The y-axis shows gene models for NMA1671, NMA1672, and NMA1673. The tracks display exons (green bars) and introns (lines). A red bar at the bottom indicates a locked region.

Gene models shown:

- NMA1671 (green bar)
- NMA1672 (green bar)
- NMA1673 (green bar)

Genomic coordinates: 1593000, 1593300, 1593600, 1593900, 1594200, 1594500, 1594800, 1595100, 1595400, 1595700, 1596000, 1596300, 1596600.

Locked region: LOCKED (red bar)

User algorithm from AE002098 NMB.seqVsAE002098 NMB.seq.blstm.profile Window size: 3

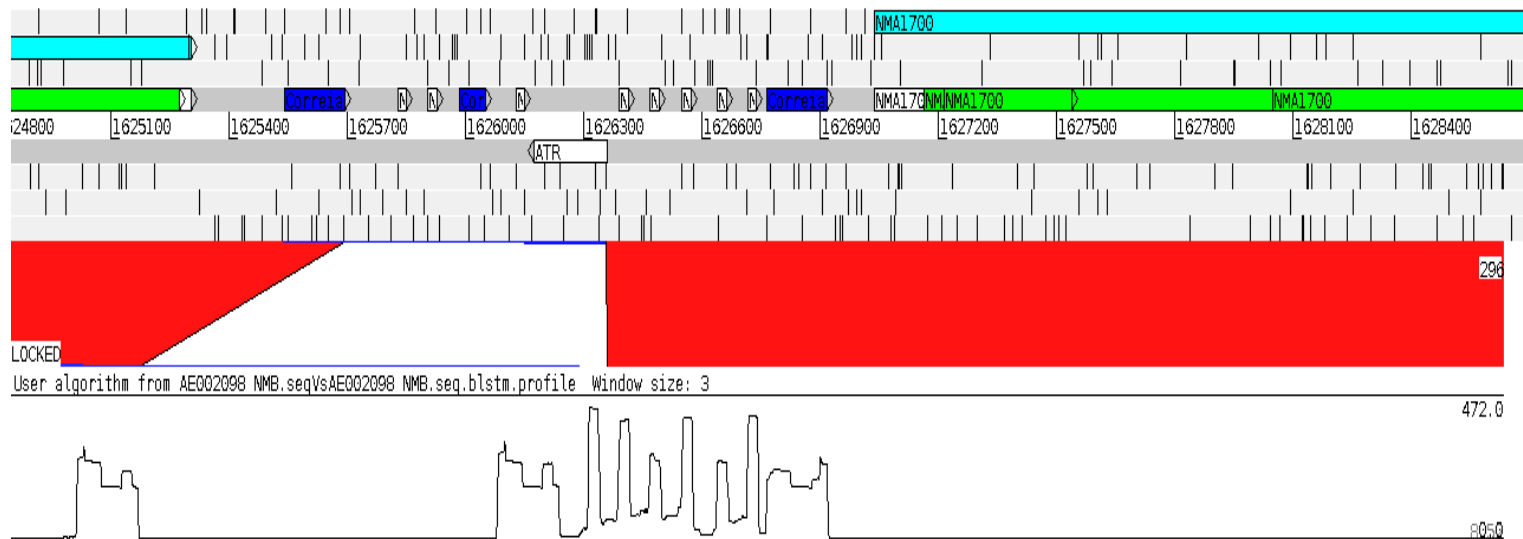
472.0



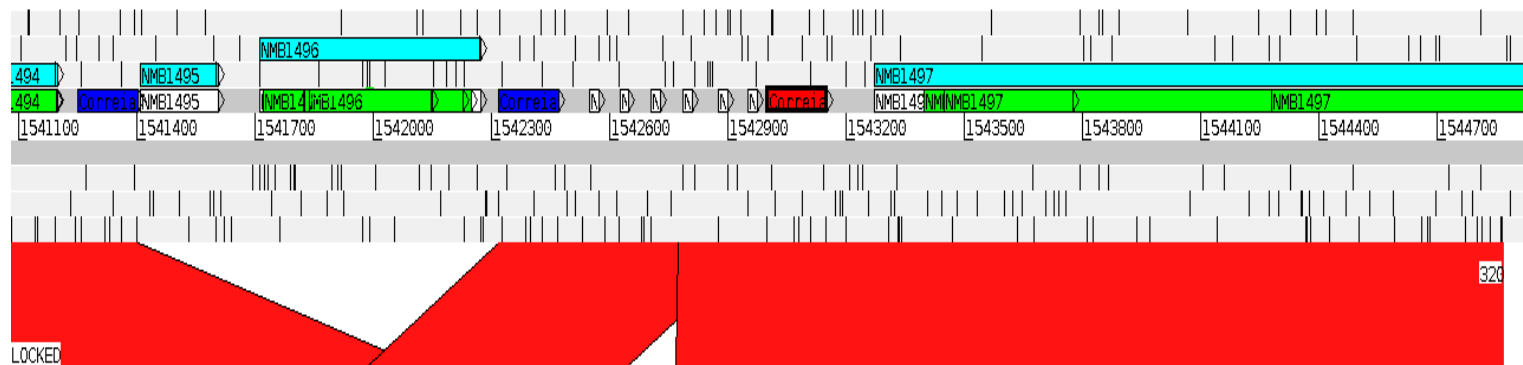
Genomic map of the 150,000 bp region on chromosome 15. The top track shows a scale from 150,750 to 151,100 bp. Below are tracks for NMB145, NMB1459, NMB1461, and NMB1461. A red box labeled 'ssb' is present. A large red box at the bottom is labeled 'LOCKED'.

NMB1497_9

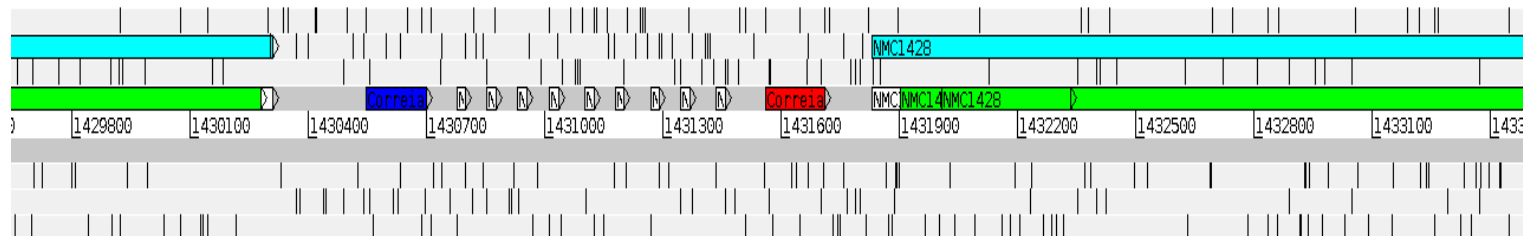
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

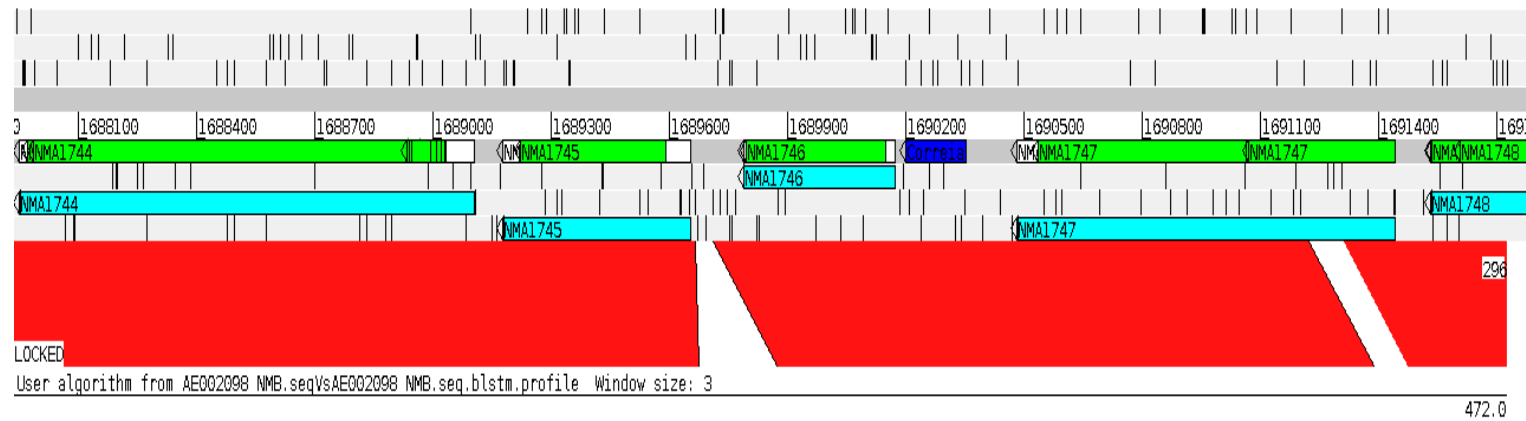


N.m FAM18
(serogroup C)

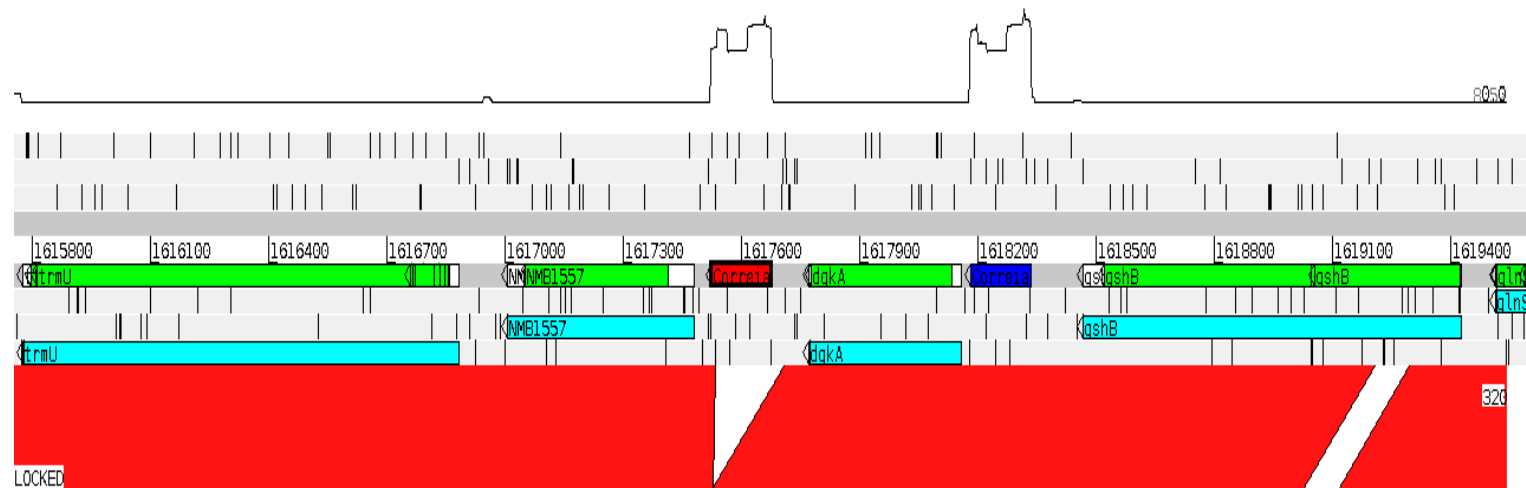


NMB1557_10

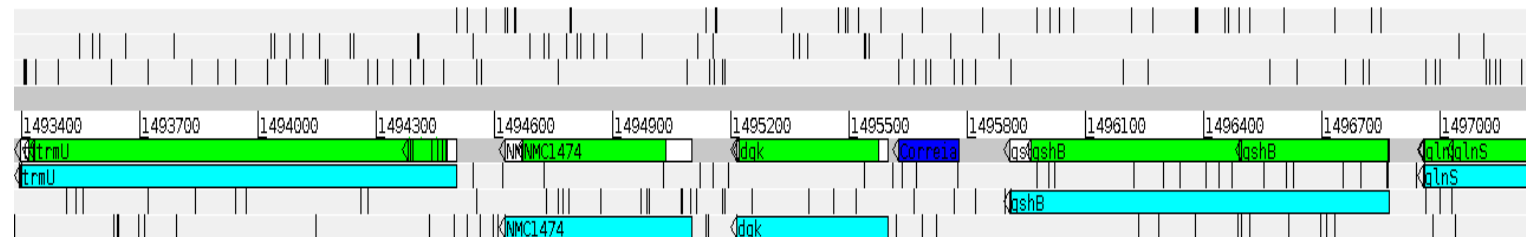
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

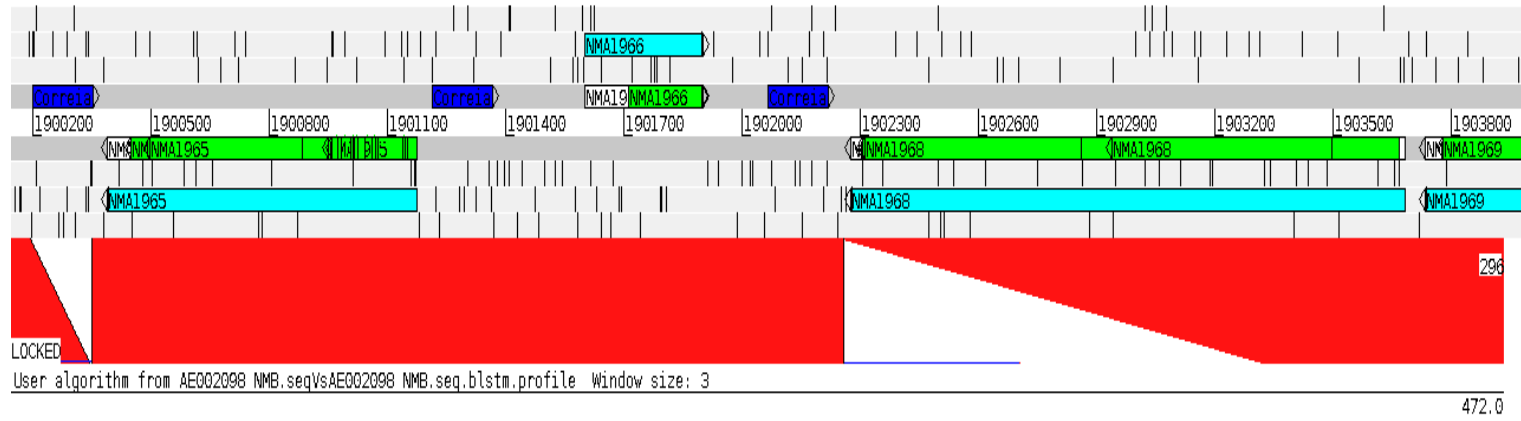


N.m FAM18
(serogroup C)

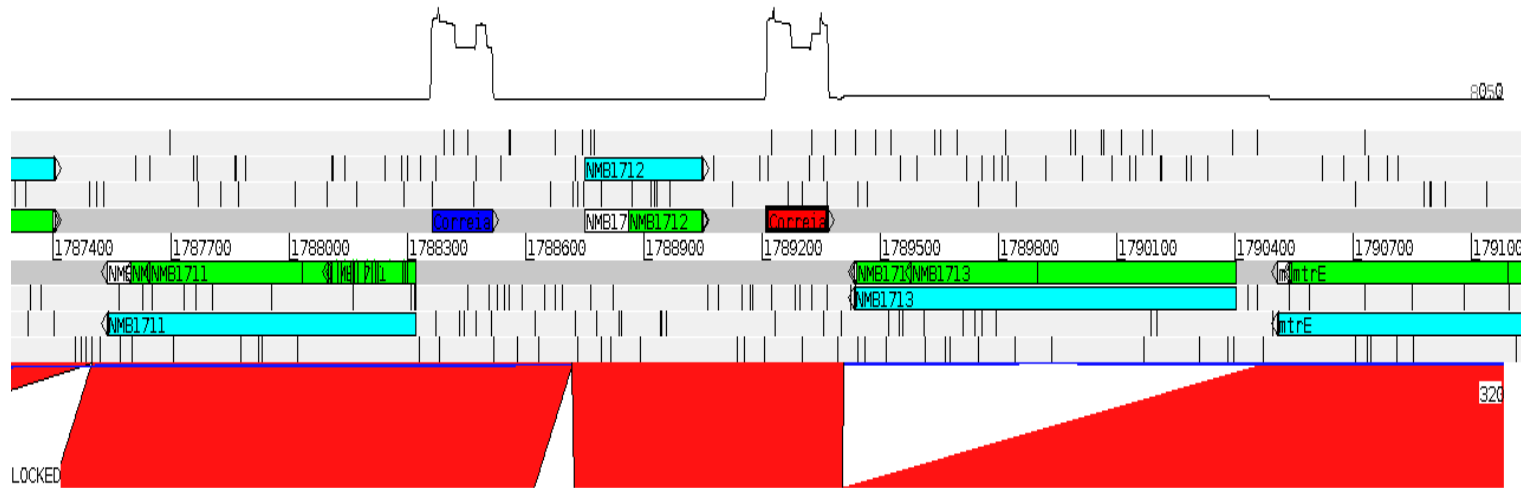


NMB1713_11

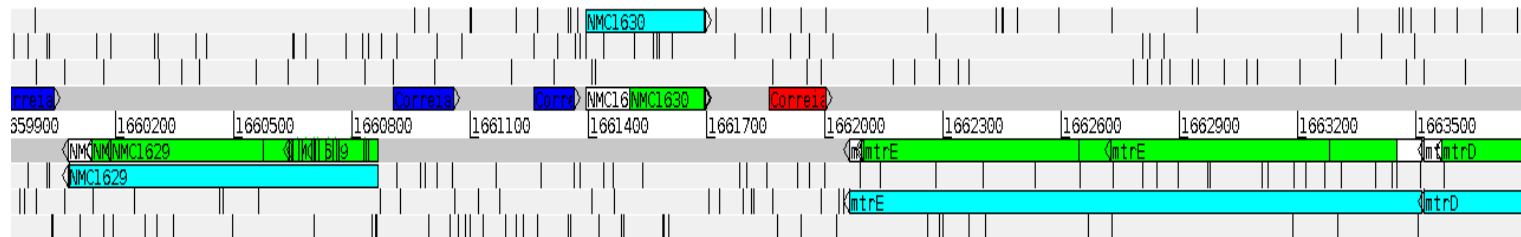
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

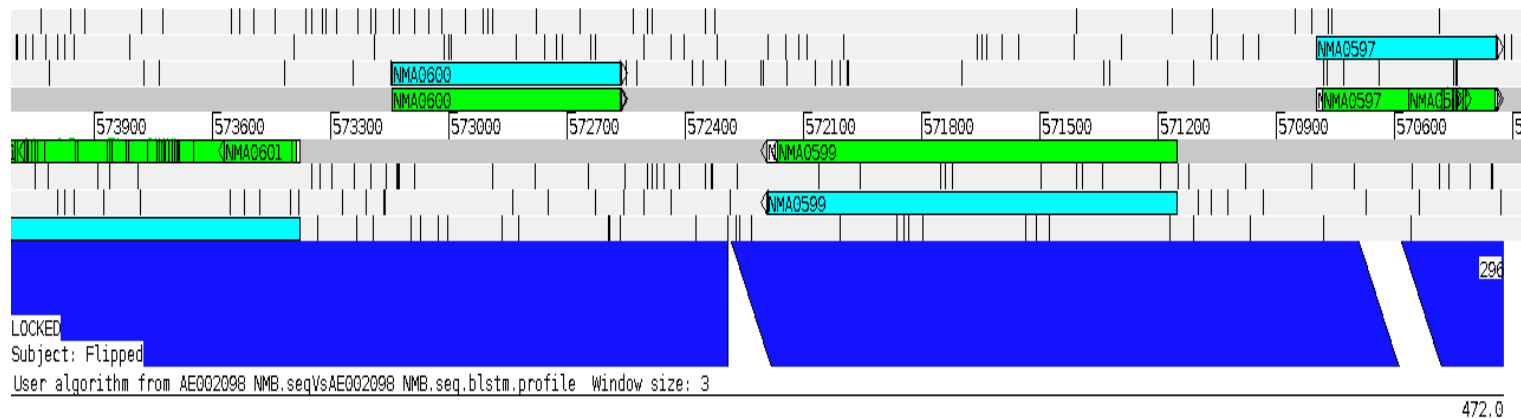


N.m FAM18
(serogroup C)

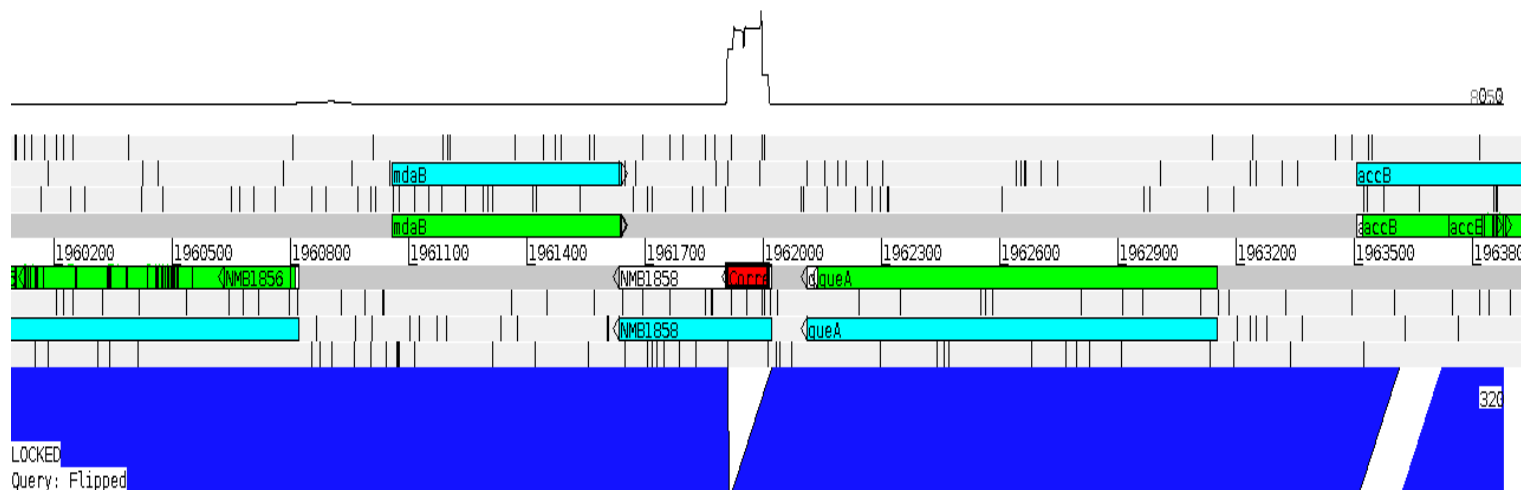


NMB1858_12

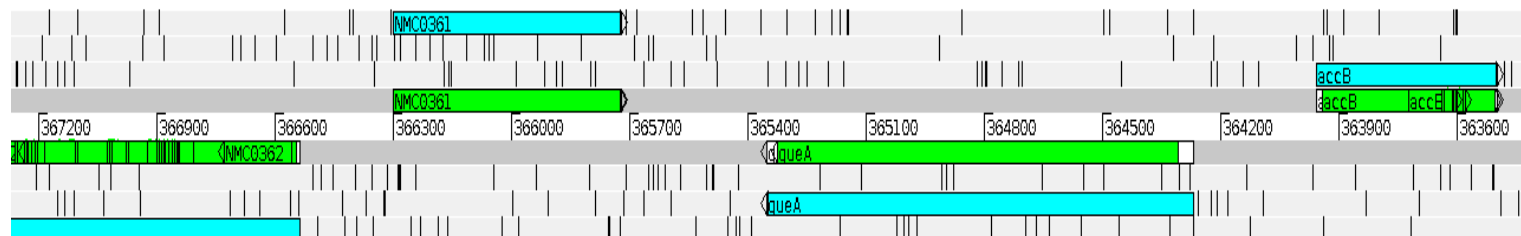
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

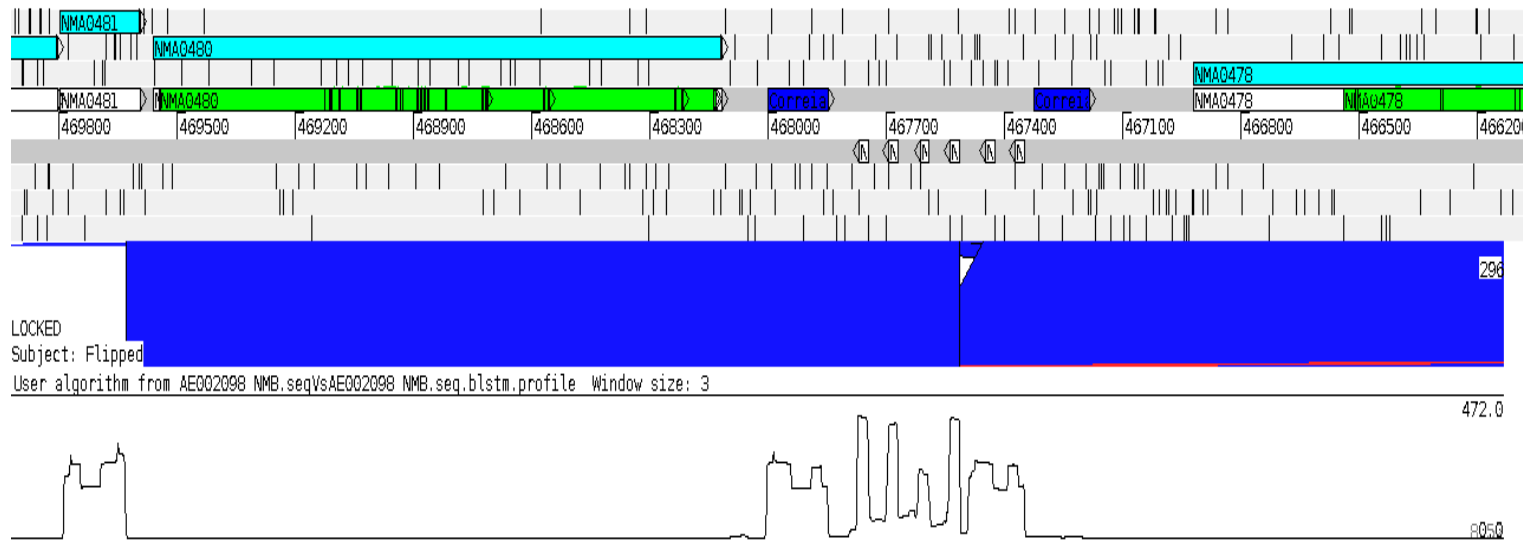


N.m FAM18
(serogroup C)

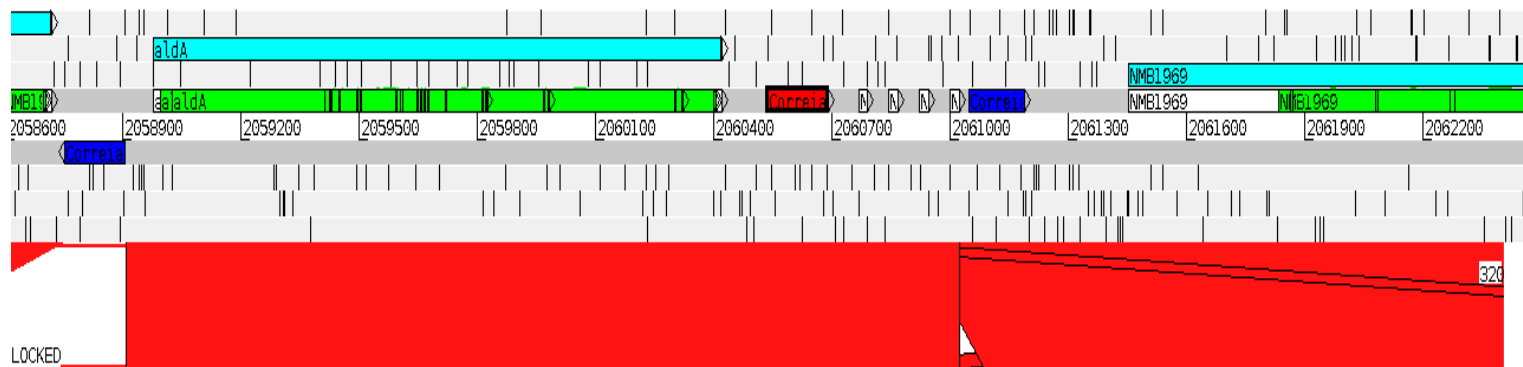


NMBdRS3_13

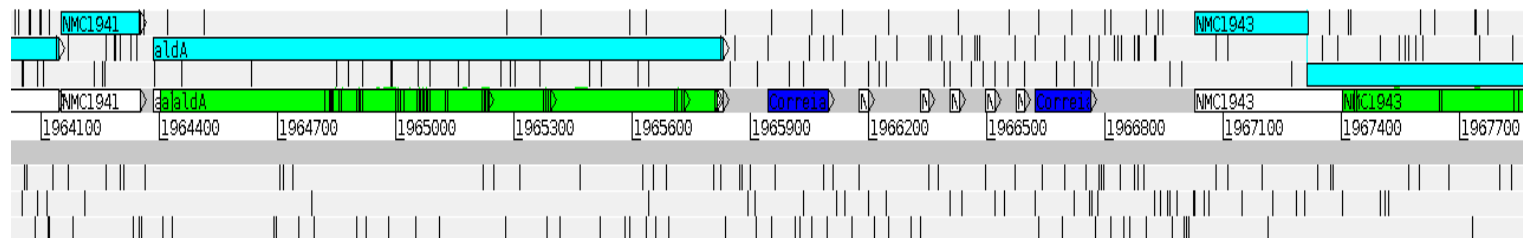
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

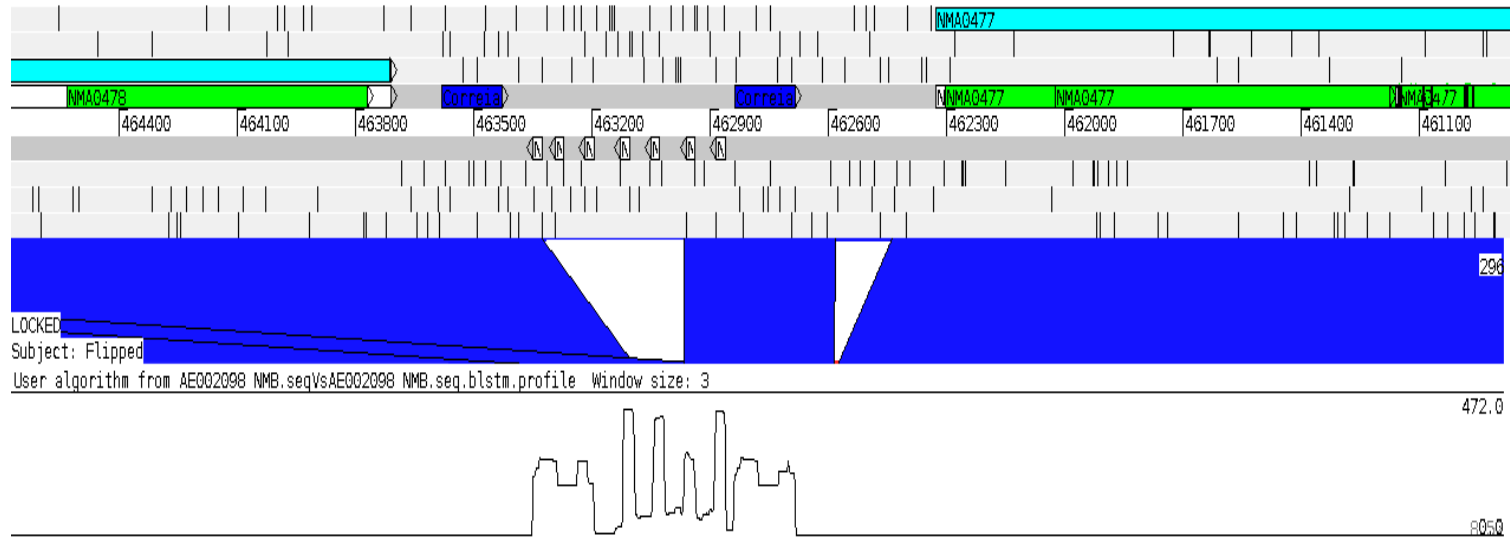


N.m FAM18
(serogroup C)

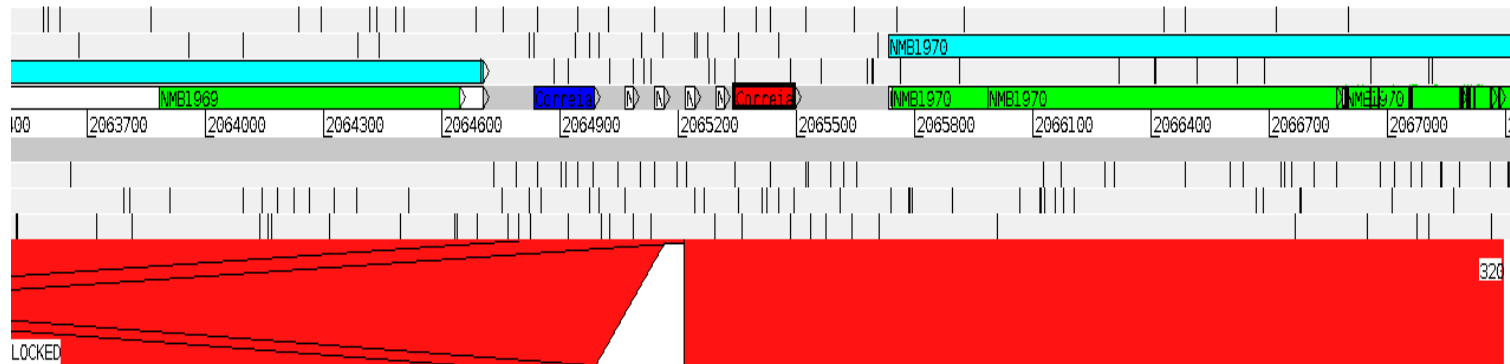


NMB1970_14

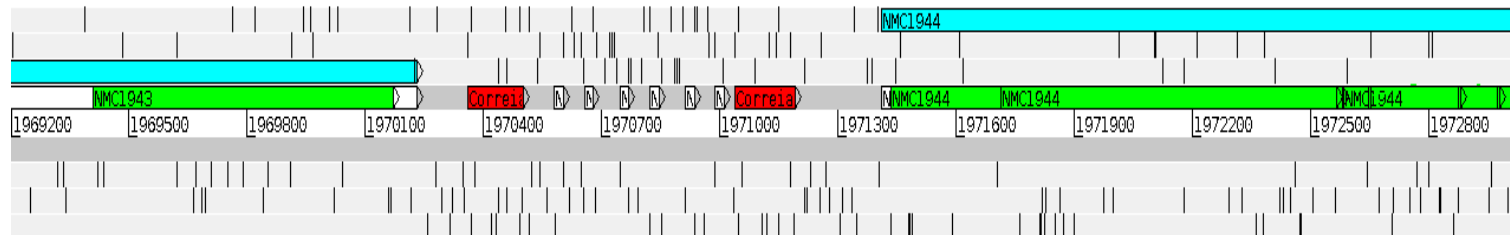
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

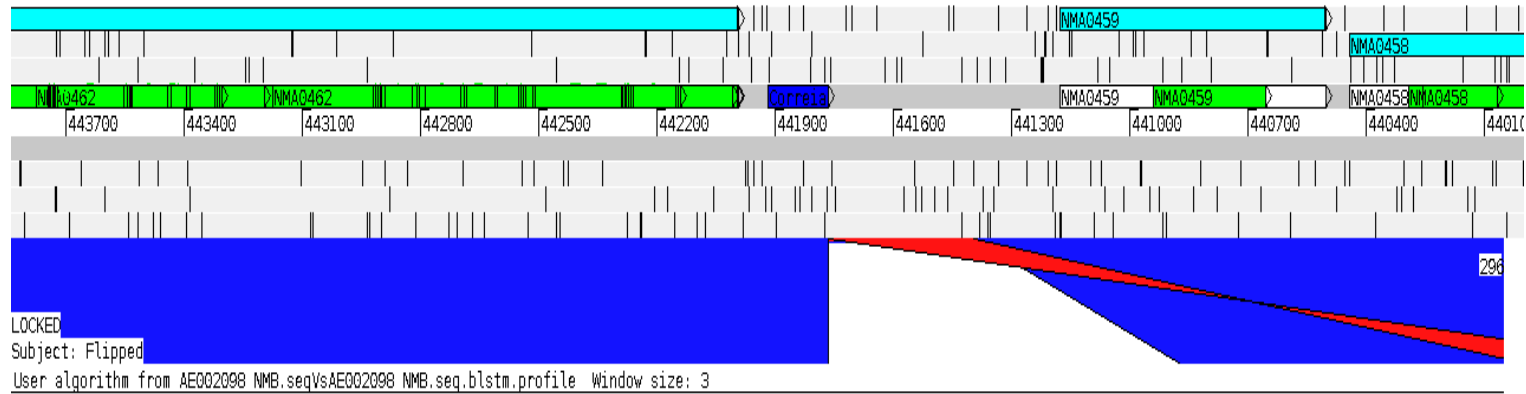


N.m FAM18
(serogroup C)

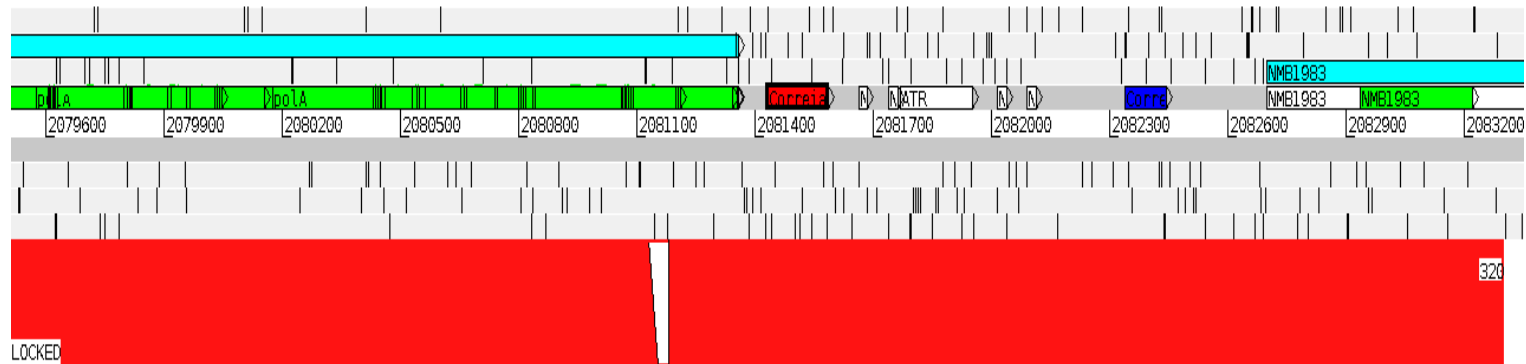


NMBdRS3_15

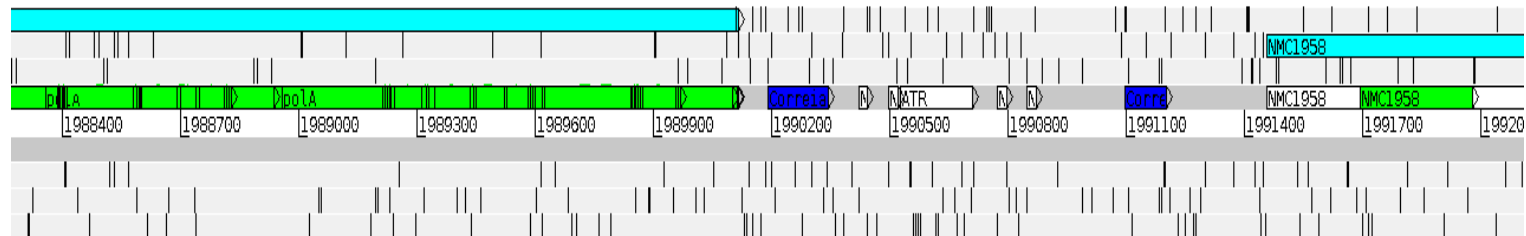
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

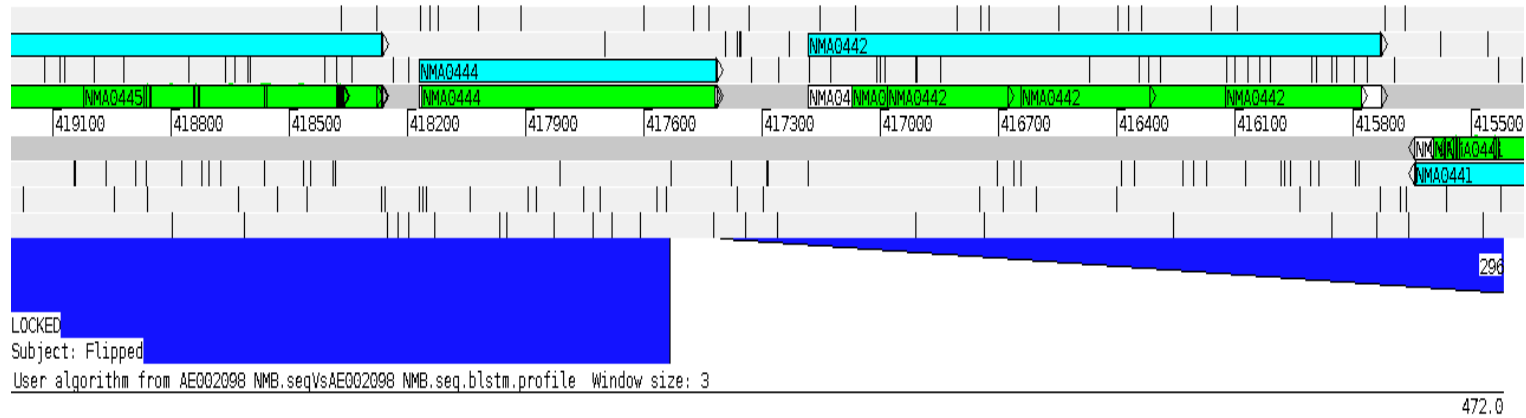


N.m FAM18
(serogroup C)

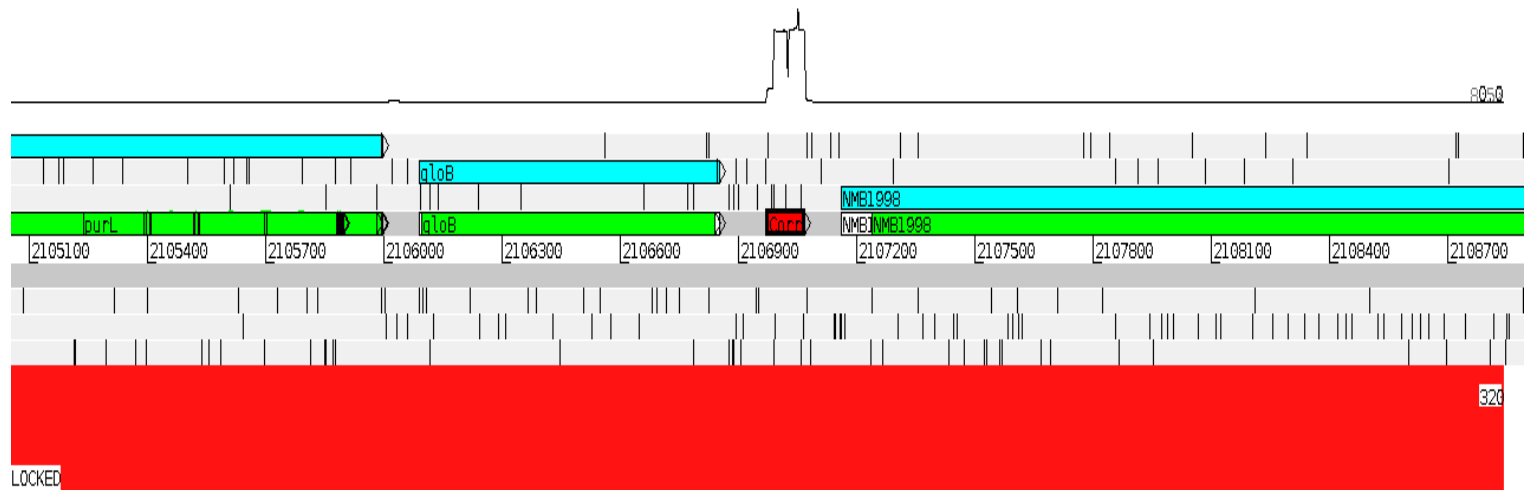


NMB1998_16

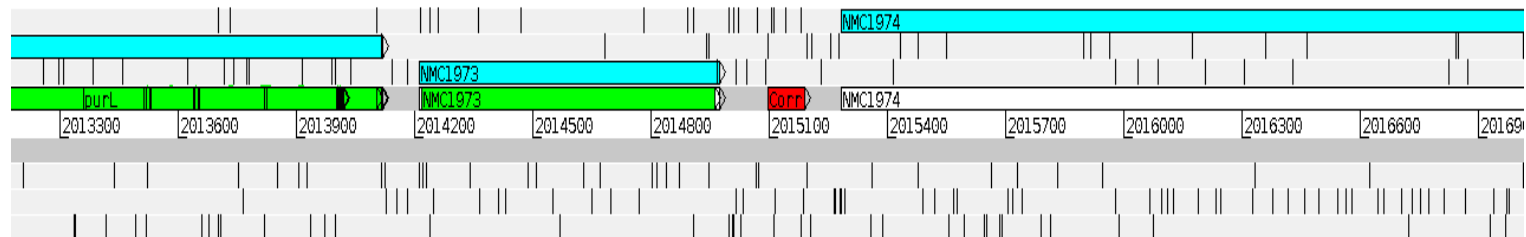
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)

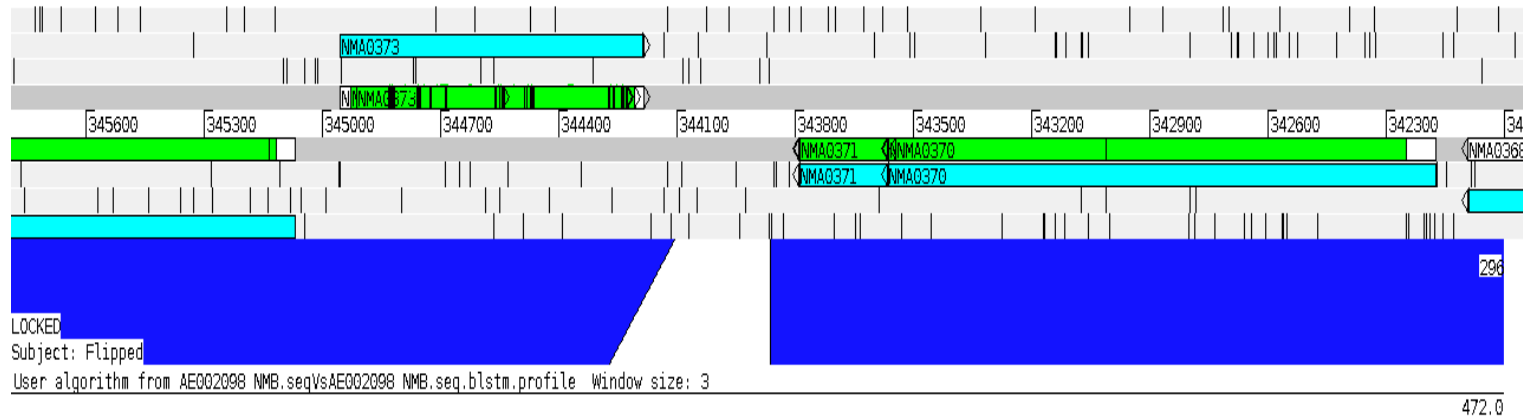


N.m FAM18
(serogroup C)

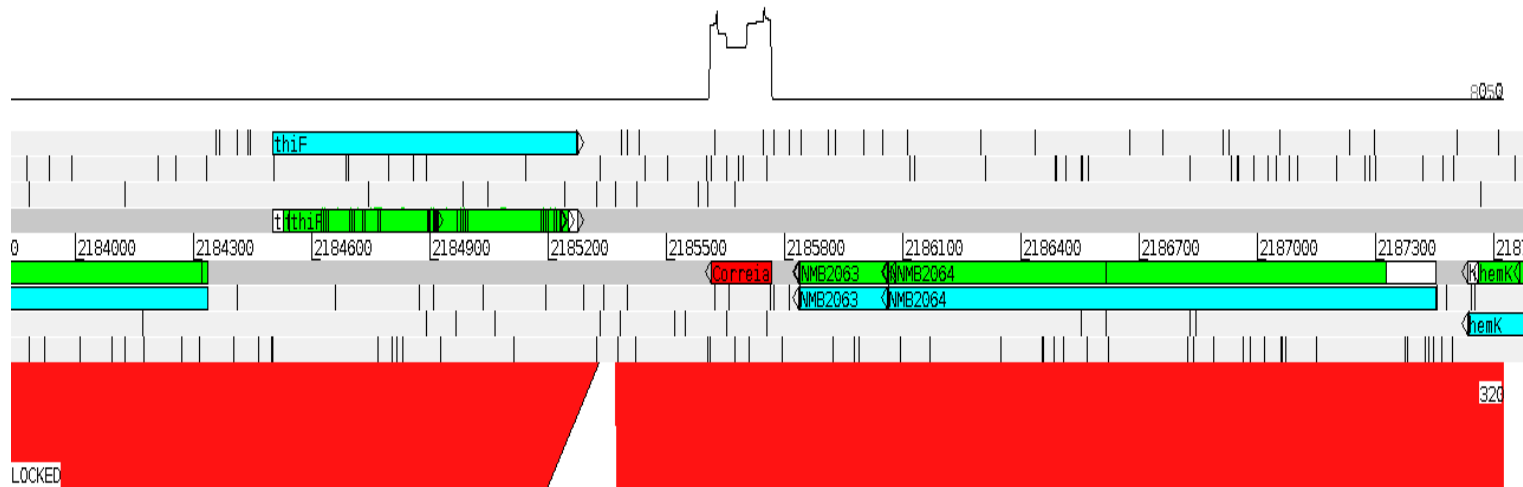


NMB2062_17

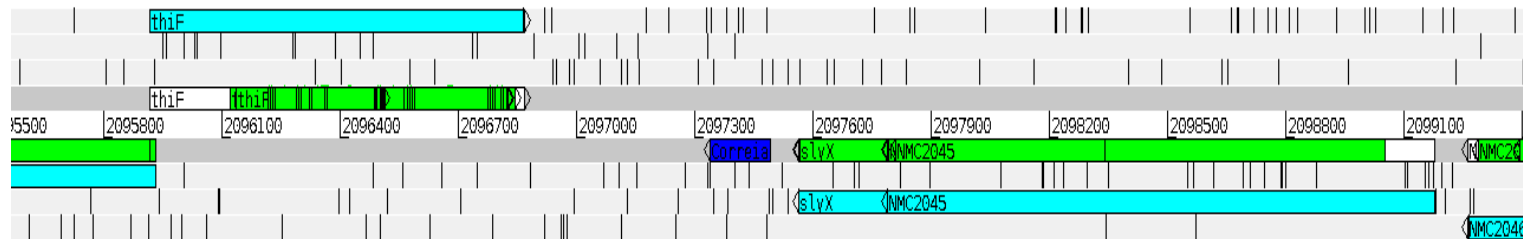
N.m Z2491
(serogroup A)



N.m MB58
(serogroup B)



N.m FAM18
(serogroup C)



The screenshot displays a sequence alignment interface. At the top, a reference sequence is shown as a horizontal bar with vertical tick marks representing nucleotide positions. Below this, two query sequences are aligned:

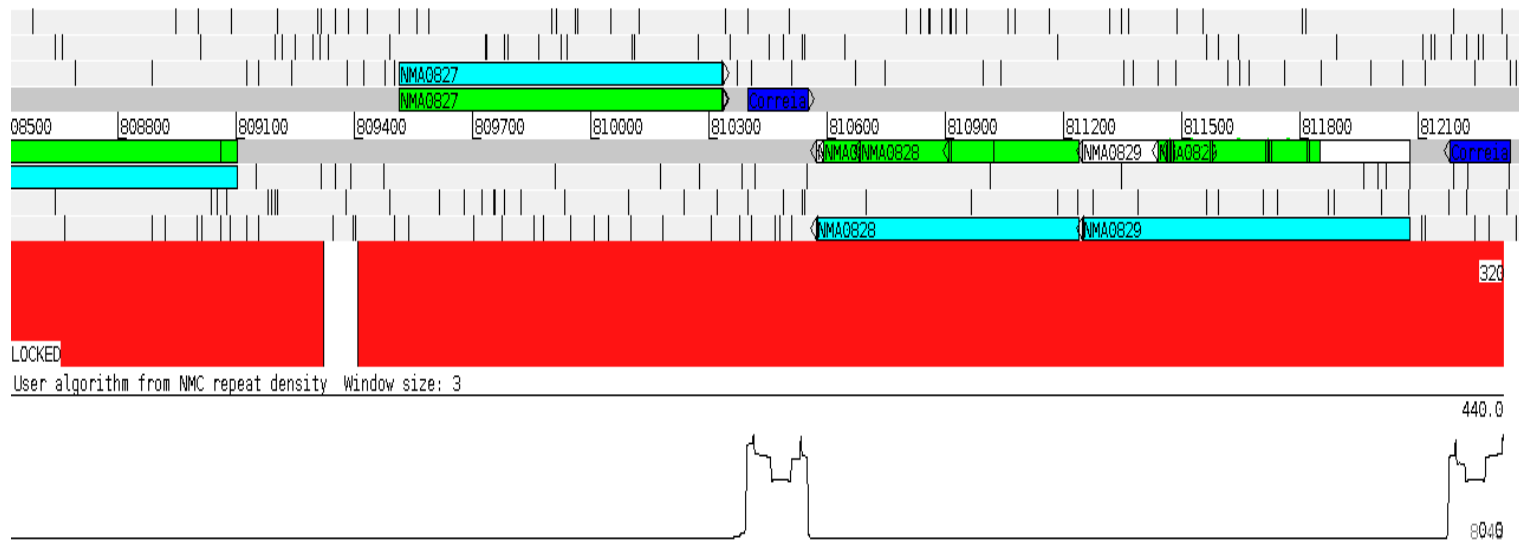
- NMA0333**: Shown as a green bar spanning from approximately position 313500 to 312300. A cyan arrow labeled "Correct" points to its right end.
- NMA0329**: Shown as a cyan bar spanning from approximately position 311700 to 310500.

Below the alignment bars, there are two large blue rectangular areas, likely representing masked or low-quality regions. The left blue area contains the text "LOCKED" and "Subject: Flipped". The right blue area has a small white box containing the number "296".

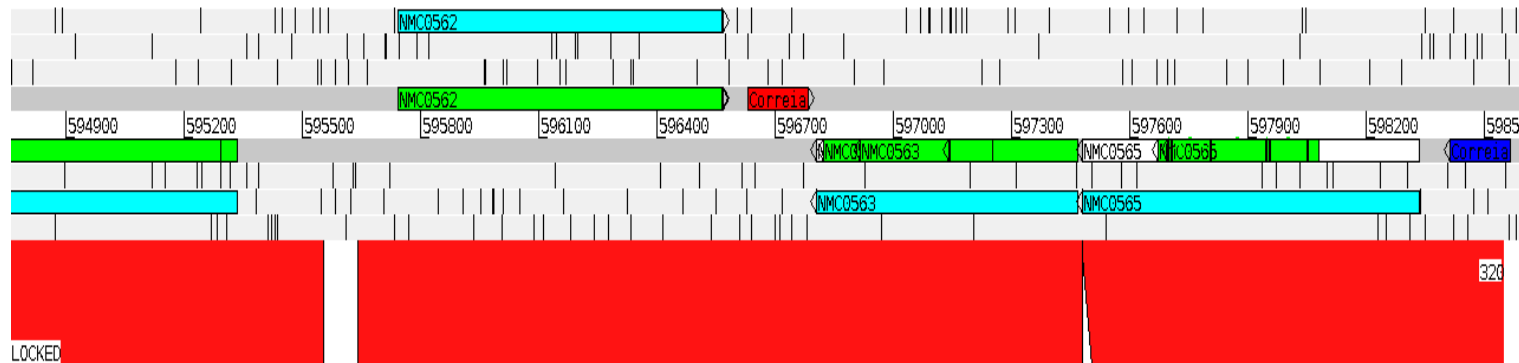
At the bottom of the window, a status bar reads: "User algorithm from AE002098 NMB.seqVsAE002098 NMB.seq.blstm.profile Window size: 3". On the far right, the coordinates "472..0" are displayed.

NMC0563_1

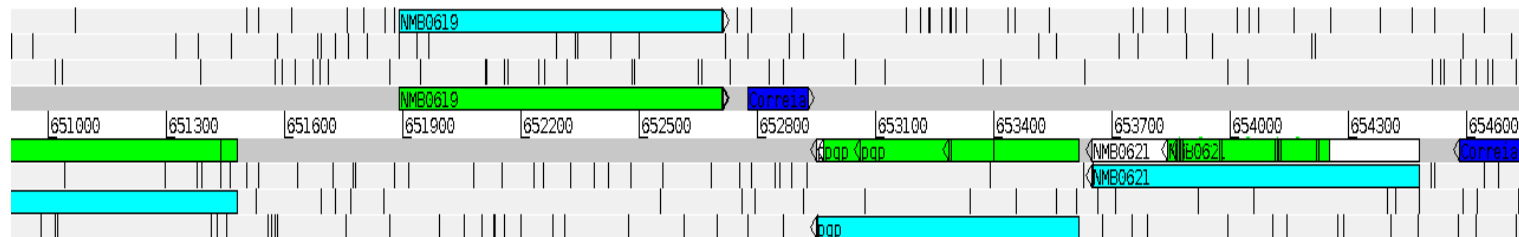
N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)

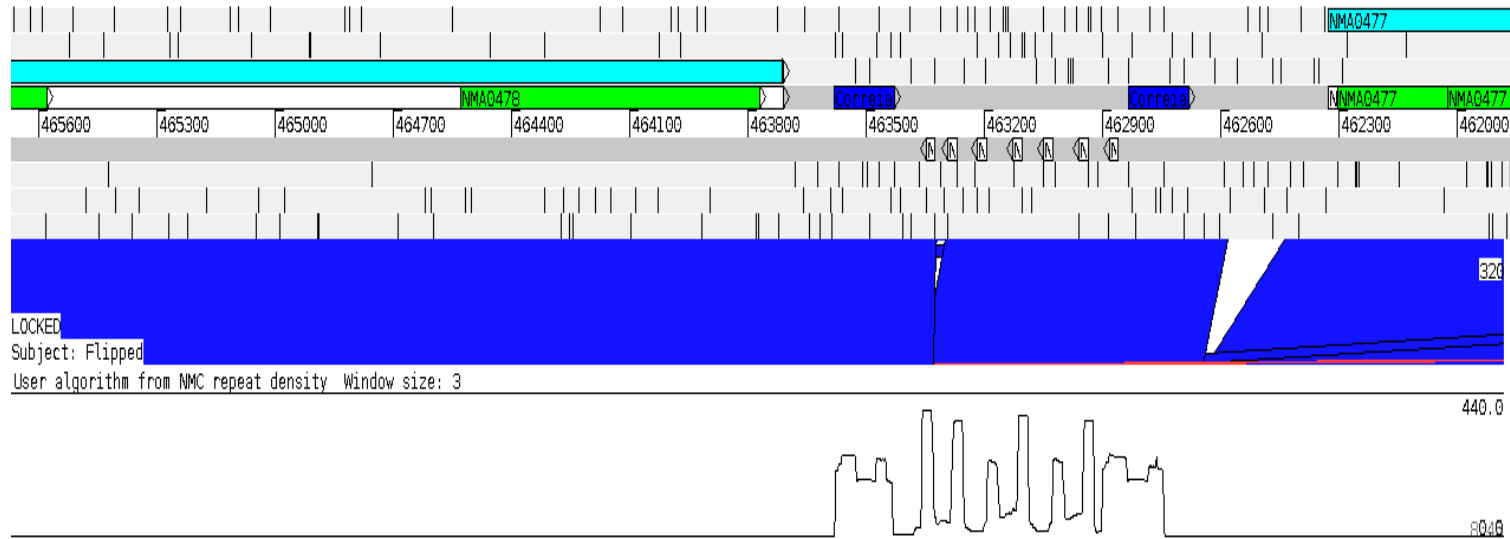


N.m MB58
(serogroup B)

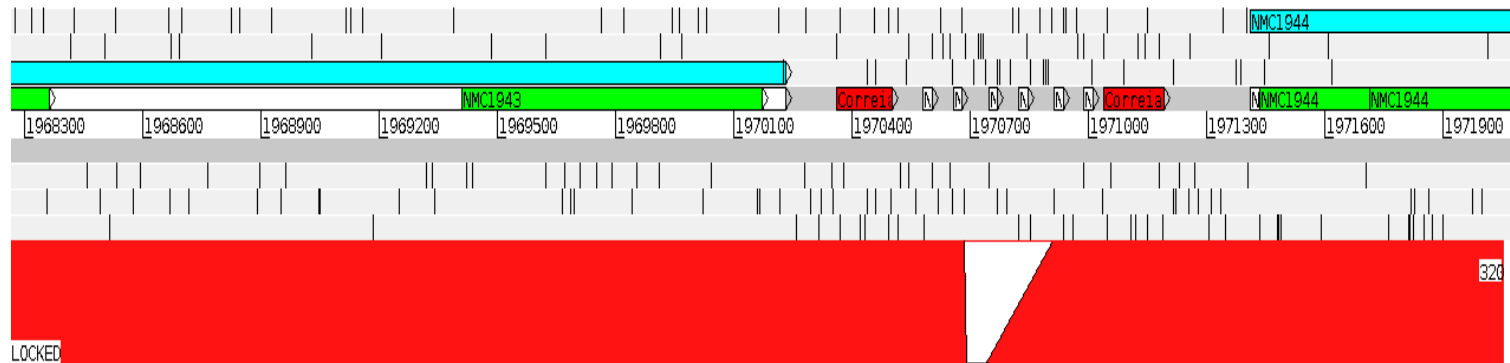


NMCdRS3_1

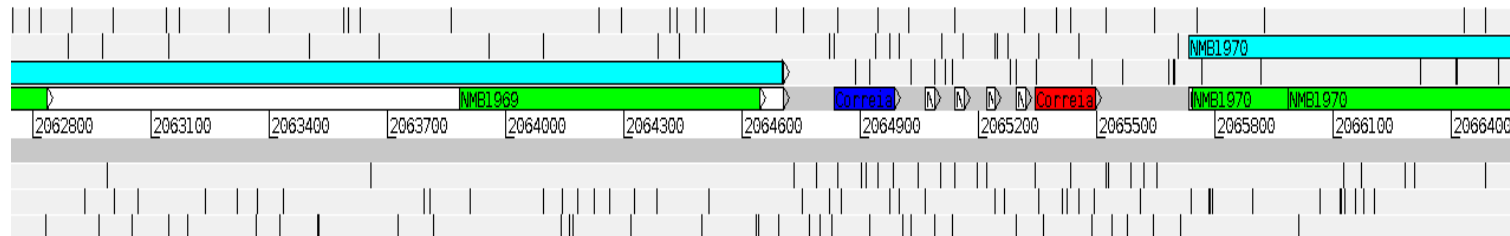
N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)

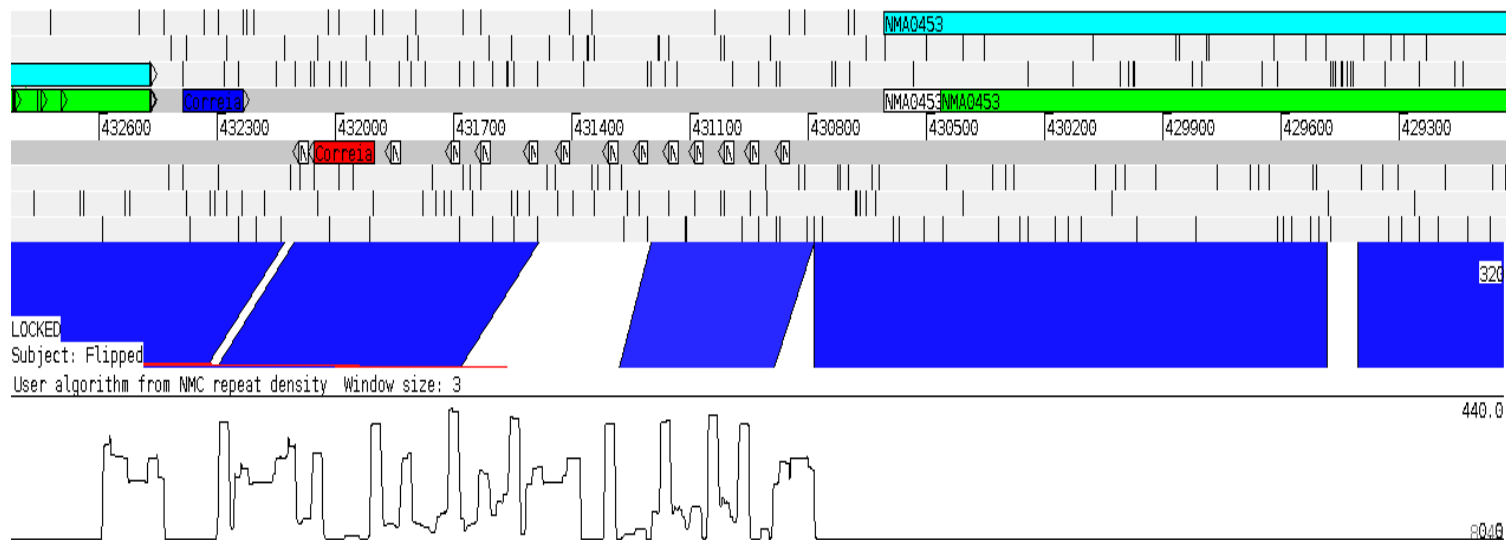


N.m MB58
(serogroup B)

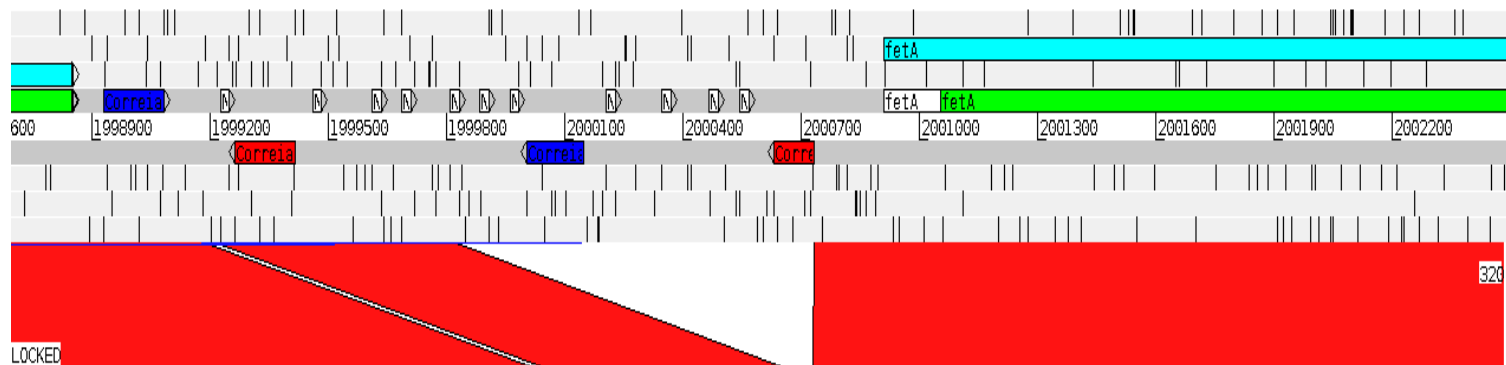


NMCdRS3_2

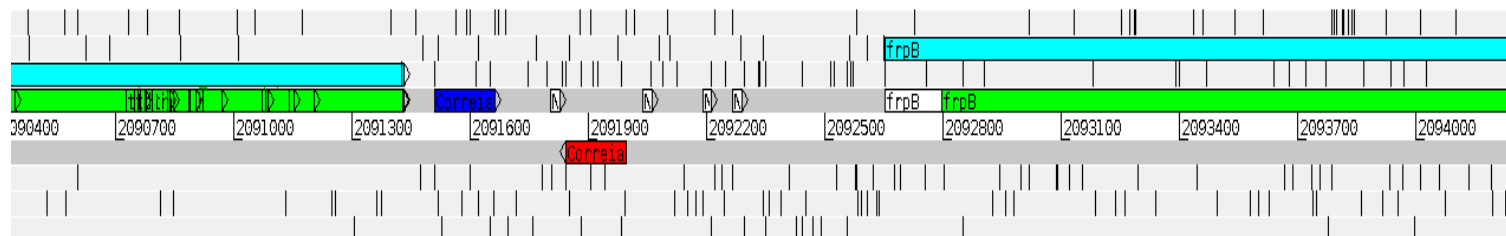
N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)

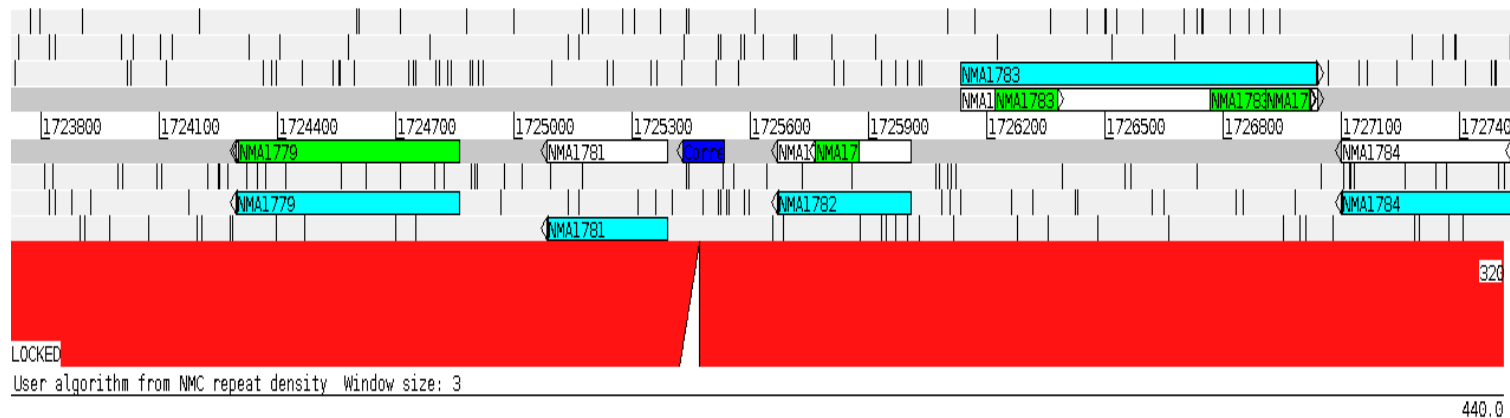


N.m MB58
(serogroup B)

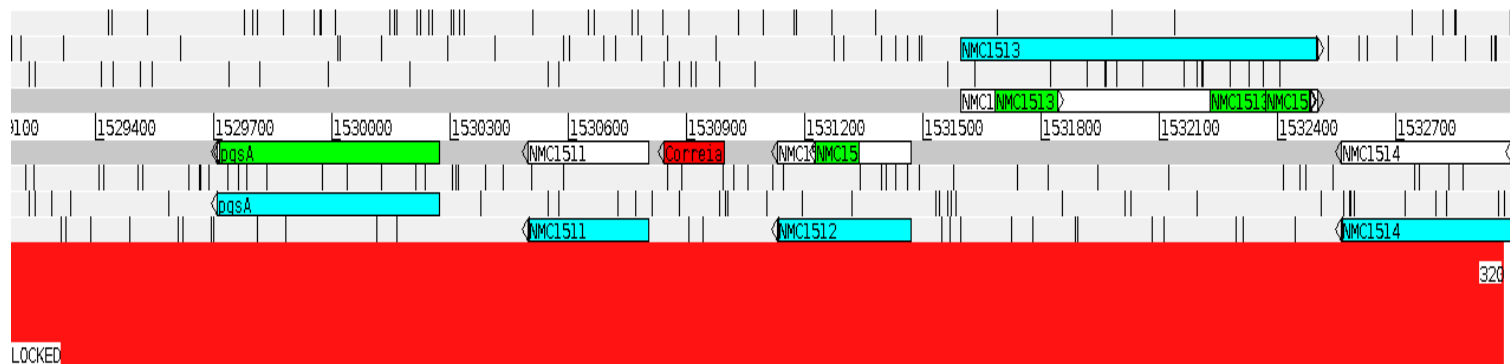


NMC1511_2

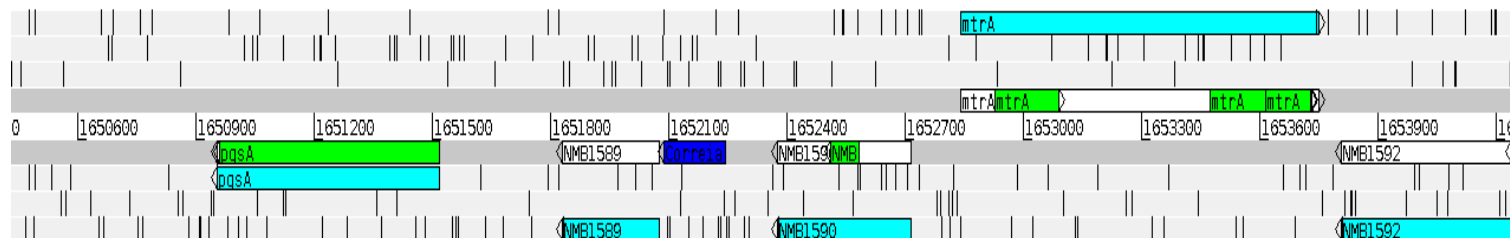
N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)

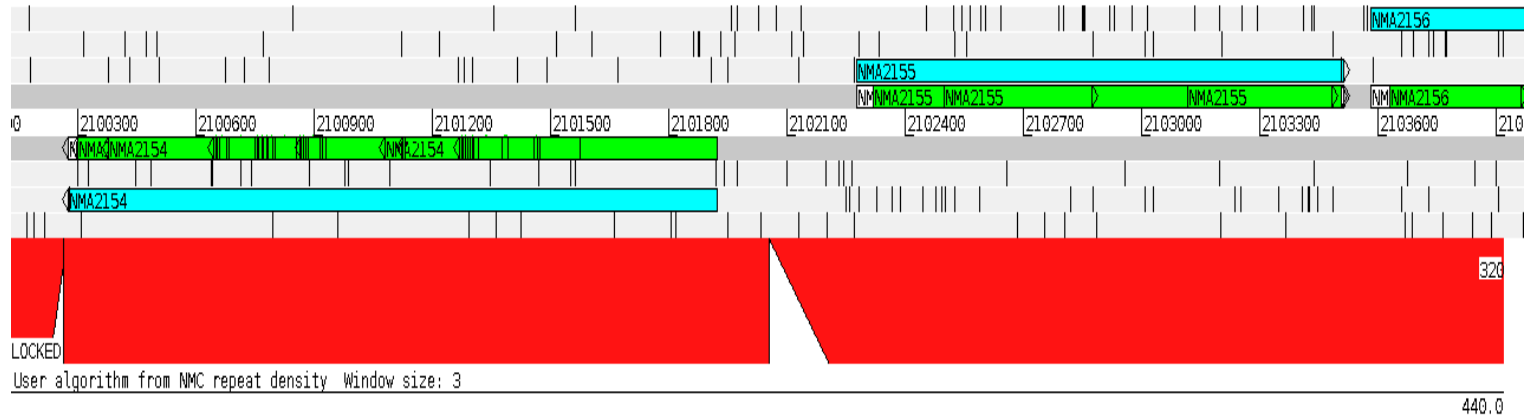


N.m MB58
(serogroup B)

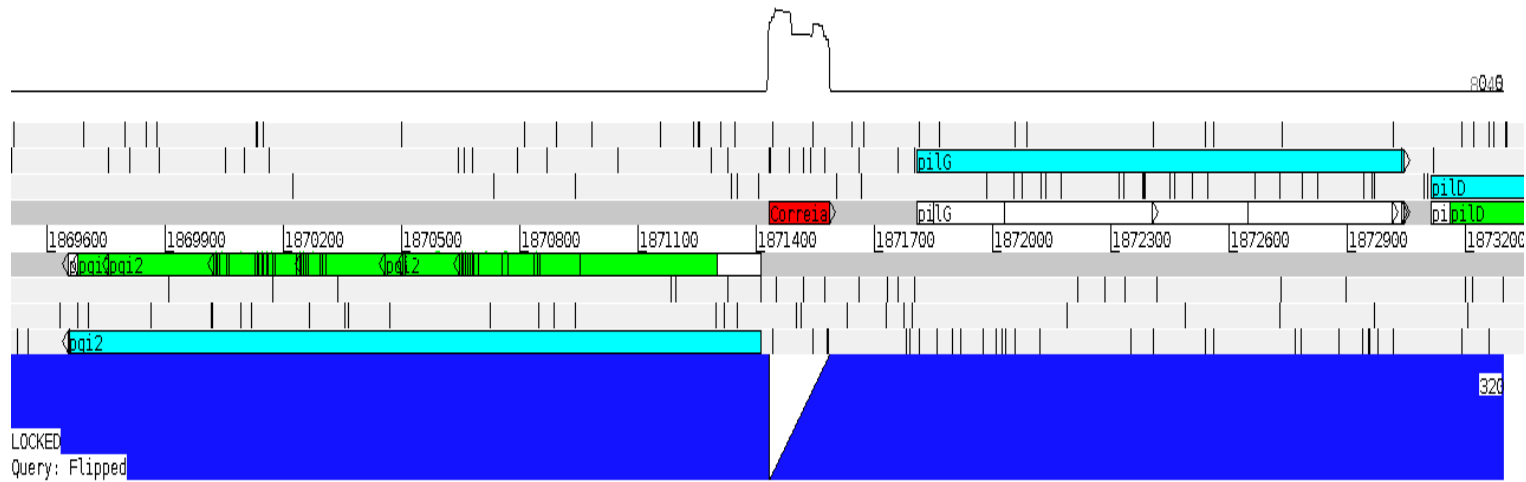


NMC1838_3

N.m Z2491
(serogroup A)



N.m FAM18
(serogroup C)



N.m MB58
(serogroup B)

