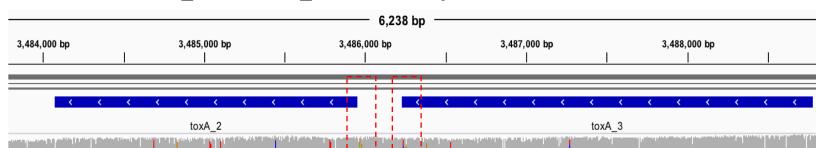
We take toxA_2 and toxA_3 as an example:



Issue: the "stop codon" so happens at the end of toxA_3

3,486,230 bp

40 bp

ger Ler

< < < <

T C A A T T A

- strand: AUG

Method:, blastn toxA_3 to tcdA genes: AA causing the frame shift

> NC_009089.1:795843-803975 Clostridioides difficile 630, complete genome
Length=8133

Score = 4680 bits (2534), Expect = 0.0
Identities = 2546/2551 (99%), Gaps = 3/2551 (0%)
Strand=Plus/Minus

Query 1 TCAATTACTTGCAATCCGACTGCAAAGCAATAGCATTATTAGGATTAAAGTAATA

Conclusion: the assembly error in the consensus sequences caused the **frame shift**, which causing "stop codon" breaks the gene. Multiple rounds of Pilon should be able to polish the (hopefully).

