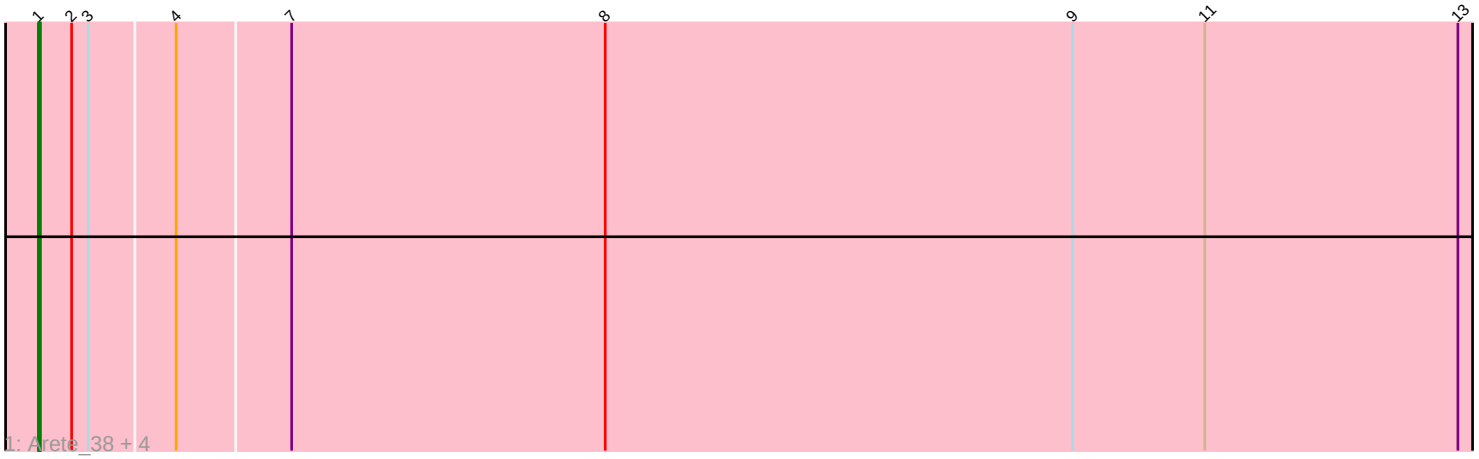
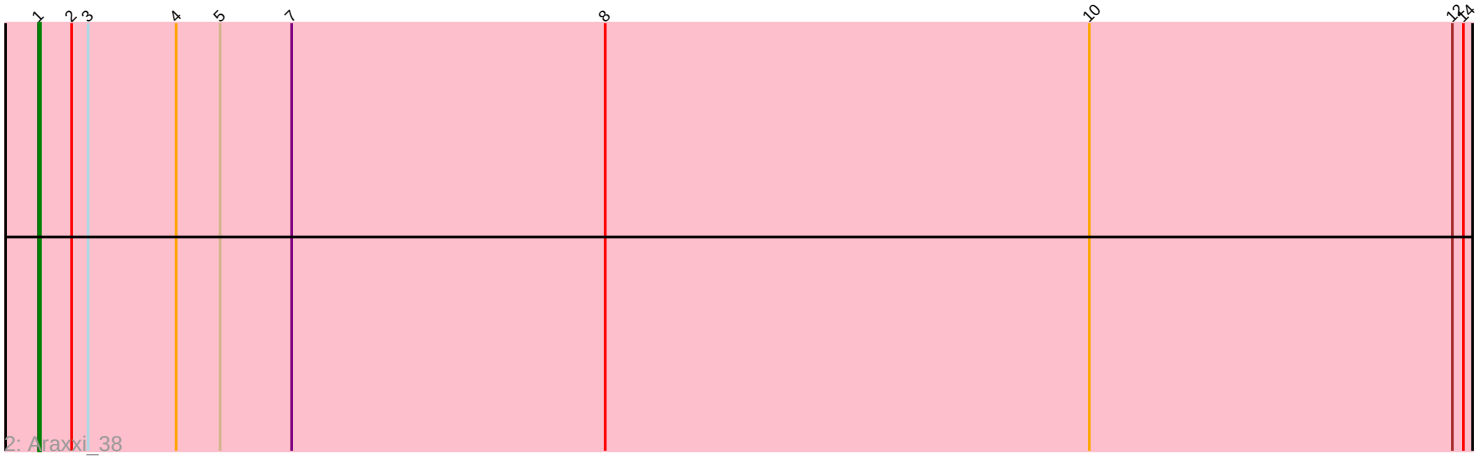
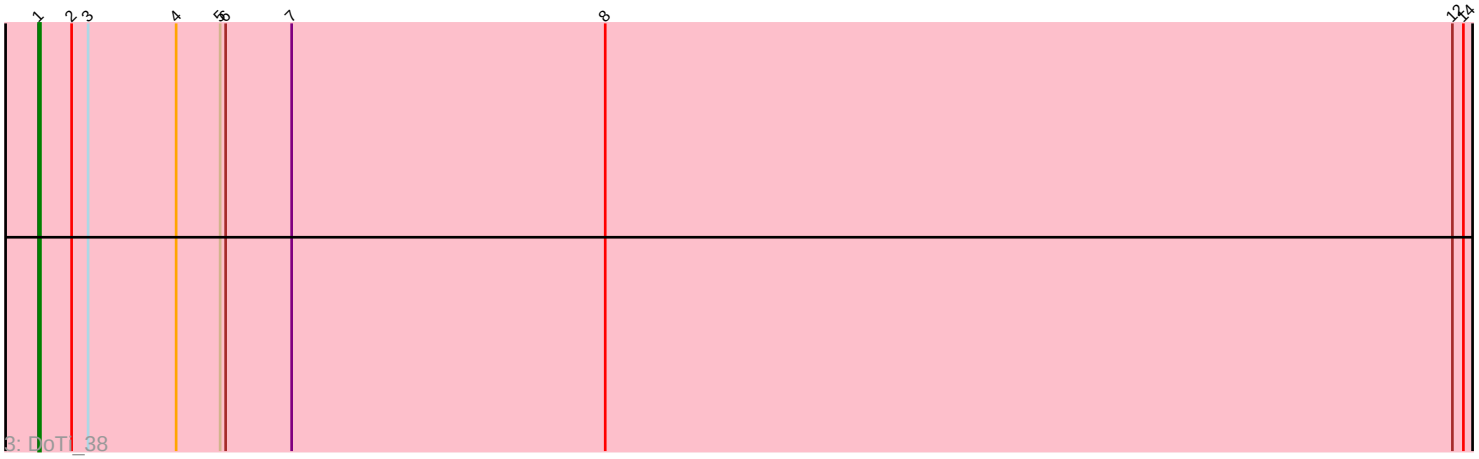
# Zoomed Pham 346526



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 346526 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346526 has 7 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Arete_38, Hannabella_38, Casino_37, Scruffy_38, Gshelby23_36
• Track 2 : Araxxi_38
• Track 3 : DoTi_38

***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 1, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Araxxi_38, Arete_38, Casino_37, DoTi_38, Gshelby23_36, Hannabella_38, Scruffy_38,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
•

**Summary by start number:**

Start 1:
• Found in 7 of 7 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 6 of 6
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Araxxi_38 (EM1), Arete_38 (EM1), Casino_37 (EM1), DoTi_38 (EM1), Gshelby23_36 (EM1), Hannabella_38 (EM1), Scruffy_38 (EM1),

**Summary by clusters:**

There is one cluster represented in this pham: EM1

Info for manual annotations of cluster EM1:

•Start number 1 was manually annotated 6 times for cluster EM1.

### *Gene Information:*

Gene: Araxxi_38 Start: 43282, Stop: 44568, Start Num: 1
Candidate Starts for Araxxi_38:
(Start: 1 @43282 has 6 MA's), (2, 43300), (3, 43309), (4, 43357), (5, 43381), (7, 43420), (8, 43591), (10, 43855), (12, 44053), (14, 44059), (15, 44230), (16, 44320), (17, 44377), (18, 44383), (19, 44419), (20, 44479),

Gene: Arete_38 Start: 43013, Stop: 44293, Start Num: 1
Candidate Starts for Arete_38:
(Start: 1 @43013 has 6 MA's), (2, 43031), (3, 43040), (4, 43085), (7, 43145), (8, 43316), (9, 43571), (11, 43643), (13, 43781), (16, 44045), (17, 44102), (18, 44108),

Gene: Casino_37 Start: 42985, Stop: 44265, Start Num: 1
Candidate Starts for Casino_37:
(Start: 1 @42985 has 6 MA's), (2, 43003), (3, 43012), (4, 43057), (7, 43117), (8, 43288), (9, 43543), (11, 43615), (13, 43753), (16, 44017), (17, 44074), (18, 44080),

Gene: DoTi_38 Start: 43386, Stop: 44672, Start Num: 1
Candidate Starts for DoTi_38:
(Start: 1 @43386 has 6 MA's), (2, 43404), (3, 43413), (4, 43461), (5, 43485), (6, 43488), (7, 43524), (8, 43695), (12, 44157), (14, 44163), (15, 44334), (16, 44424), (17, 44481), (18, 44487), (19, 44523), (20, 44583),

Gene: Gshelby23_36 Start: 42920, Stop: 44200, Start Num: 1
Candidate Starts for Gshelby23_36:
(Start: 1 @42920 has 6 MA's), (2, 42938), (3, 42947), (4, 42992), (7, 43052), (8, 43223), (9, 43478), (11, 43550), (13, 43688), (16, 43952), (17, 44009), (18, 44015),

Gene: Hannabella_38 Start: 42961, Stop: 44241, Start Num: 1
Candidate Starts for Hannabella_38:
(Start: 1 @42961 has 6 MA's), (2, 42979), (3, 42988), (4, 43033), (7, 43093), (8, 43264), (9, 43519), (11, 43591), (13, 43729), (16, 43993), (17, 44050), (18, 44056),

Gene: Scruffy_38 Start: 43249, Stop: 44529, Start Num: 1
Candidate Starts for Scruffy_38:
(Start: 1 @43249 has 6 MA's), (2, 43267), (3, 43276), (4, 43321), (7, 43381), (8, 43552), (9, 43807), (11, 43879), (13, 44017), (16, 44281), (17, 44338), (18, 44344),