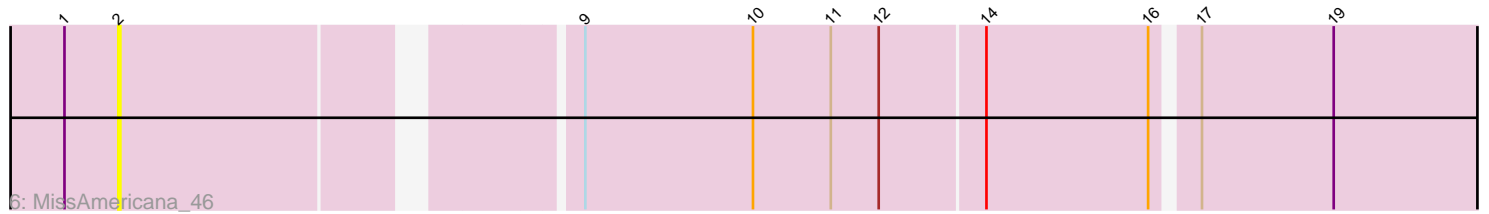
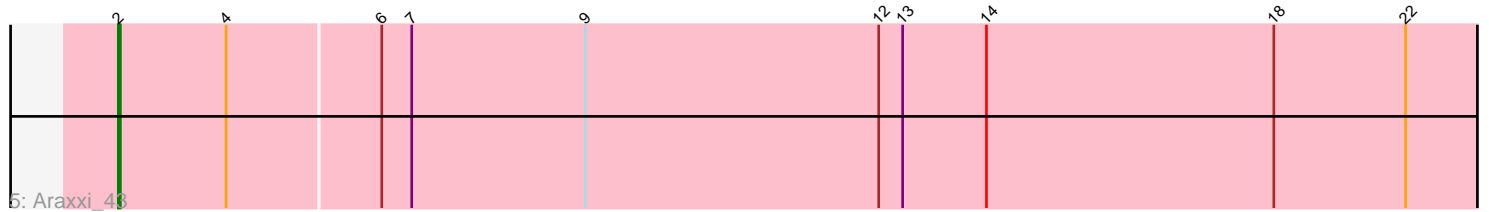
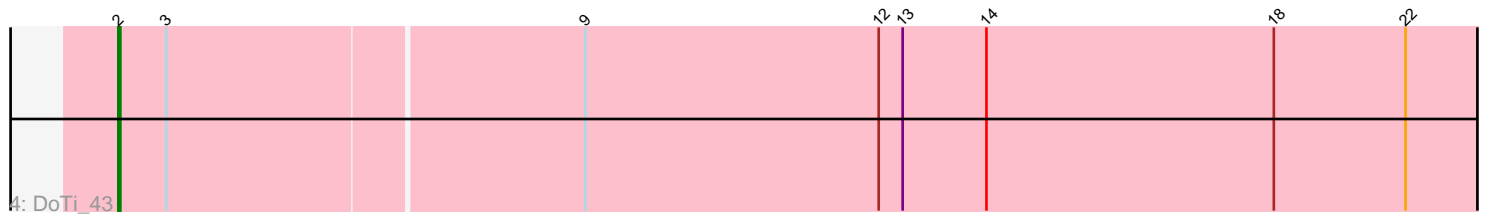
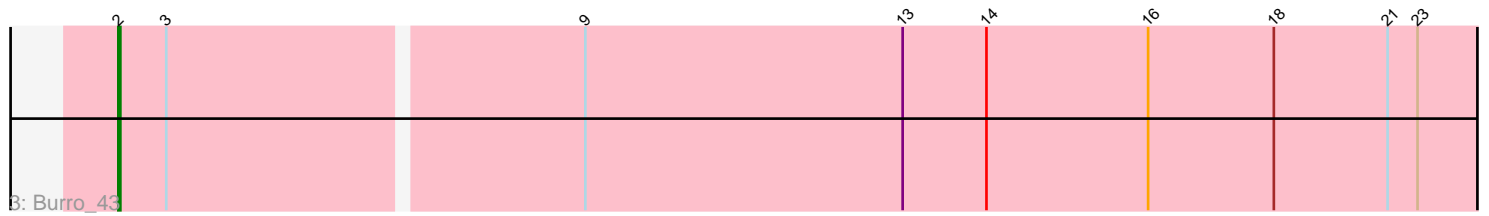
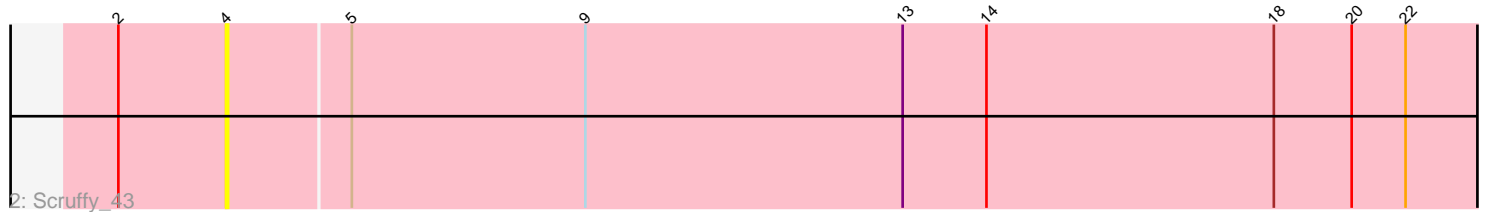
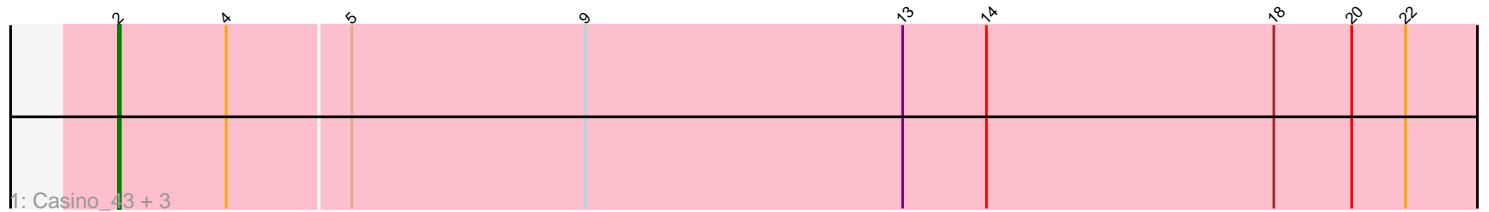


# Pham 87722



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 87722 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87722 has 10 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Casino\_43, Hannabella\_43, Gshelby23\_41, Arete\_43
- Track 2 : Scruffy\_43
- Track 3 : Burro\_43
- Track 4 : DoTi\_43
- Track 5 : Araxxi\_43
- Track 6 : MissAmericana\_46
- Track 7 : Kikiko\_43

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Araxxi\_43, Arete\_43, Burro\_43, Casino\_43, DoTi\_43, Gshelby23\_41, Hannabella\_43, Kikiko\_43, MissAmericana\_46,

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

- Scruffy\_43,

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

- 

### **Summary by start number:**

Start 2:

- Found in 10 of 10 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Araxxi\_43 (EM1), Arete\_43 (EM1), Burro\_43 (EM1), Casino\_43 (EM1), DoTi\_43 (EM1), Gshelby23\_41 (EM1), Hannabella\_43 (EM1), Kikiko\_43 (EM2), MissAmericana\_46 (EM2),

Start 4:

- Found in 6 of 10 ( 60.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Scruffy\_43 (EM1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: EM1, EM2,

Info for manual annotations of cluster EM1:

- Start number 2 was manually annotated 6 times for cluster EM1.

### **Gene Information:**

Gene: Araxxi\_43 Start: 49240, Stop: 49971, Start Num: 2

Candidate Starts for Araxxi\_43:

(Start: 2 @49240 has 6 MA's), (4, 49294), (6, 49369), (7, 49384), (9, 49471), (12, 49618), (13, 49630), (14, 49672), (18, 49816), (22, 49882),

Gene: Arete\_43 Start: 48963, Stop: 49694, Start Num: 2

Candidate Starts for Arete\_43:

(Start: 2 @48963 has 6 MA's), (4, 49017), (5, 49077), (9, 49194), (13, 49353), (14, 49395), (18, 49539), (20, 49578), (22, 49605),

Gene: Burro\_43 Start: 49775, Stop: 50497, Start Num: 2

Candidate Starts for Burro\_43:

(Start: 2 @49775 has 6 MA's), (3, 49799), (9, 50000), (13, 50159), (14, 50201), (16, 50282), (18, 50345), (21, 50402), (23, 50417),

Gene: Casino\_43 Start: 48938, Stop: 49669, Start Num: 2

Candidate Starts for Casino\_43:

(Start: 2 @48938 has 6 MA's), (4, 48992), (5, 49052), (9, 49169), (13, 49328), (14, 49370), (18, 49514), (20, 49553), (22, 49580),

Gene: DoTi\_43 Start: 49345, Stop: 50073, Start Num: 2

Candidate Starts for DoTi\_43:

(Start: 2 @49345 has 6 MA's), (3, 49369), (9, 49573), (12, 49720), (13, 49732), (14, 49774), (18, 49918), (22, 49984),

Gene: Gshelby23\_41 Start: 48874, Stop: 49605, Start Num: 2

Candidate Starts for Gshelby23\_41:

(Start: 2 @48874 has 6 MA's), (4, 48928), (5, 48988), (9, 49105), (13, 49264), (14, 49306), (18, 49450), (20, 49489), (22, 49516),

Gene: Hannabella\_43 Start: 48914, Stop: 49645, Start Num: 2

Candidate Starts for Hannabella\_43:

(Start: 2 @48914 has 6 MA's), (4, 48968), (5, 49028), (9, 49145), (13, 49304), (14, 49346), (18, 49490), (20, 49529), (22, 49556),

Gene: Kikiko\_43 Start: 49311, Stop: 50000, Start Num: 2

Candidate Starts for Kikiko\_43:

(1, 49284), (Start: 2 @49311 has 6 MA's), (8, 49452), (11, 49638), (12, 49662), (14, 49713), (15, 49743), (16, 49794), (17, 49812), (19, 49878),

Gene: MissAmericana\_46 Start: 49250, Stop: 49939, Start Num: 2

Candidate Starts for MissAmericana\_46:

(1, 49223), (Start: 2 @49250 has 6 MA's), (9, 49454), (10, 49538), (11, 49577), (12, 49601), (14, 49652), (16, 49733), (17, 49751), (19, 49817),

Gene: Scruffy\_43 Start: 49253, Stop: 49930, Start Num: 4

Candidate Starts for Scruffy\_43:

(Start: 2 @49199 has 6 MA's), (4, 49253), (5, 49313), (9, 49430), (13, 49589), (14, 49631), (18, 49775), (20, 49814), (22, 49841),