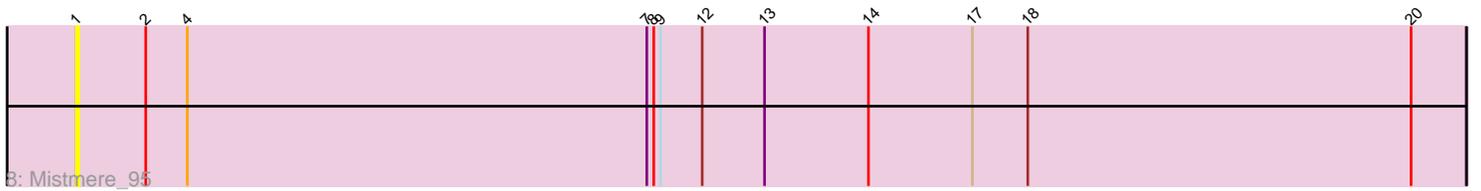
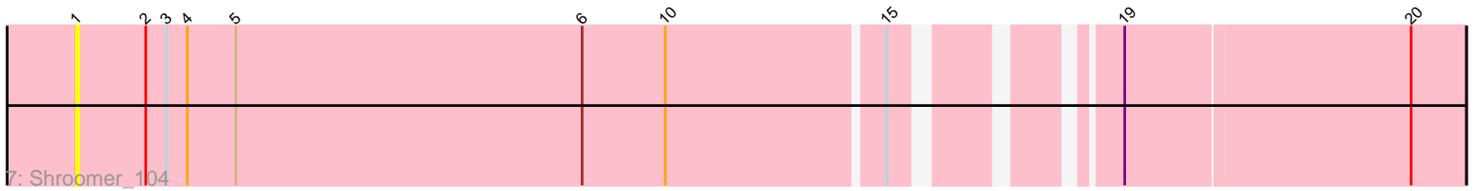
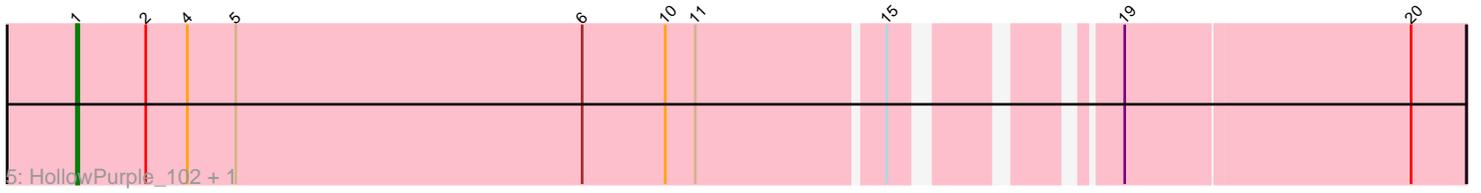
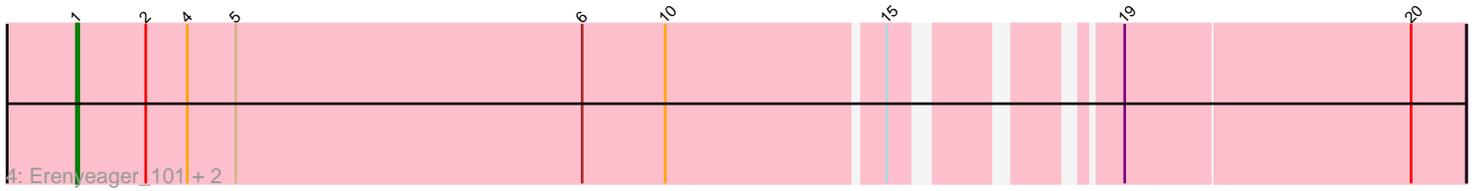
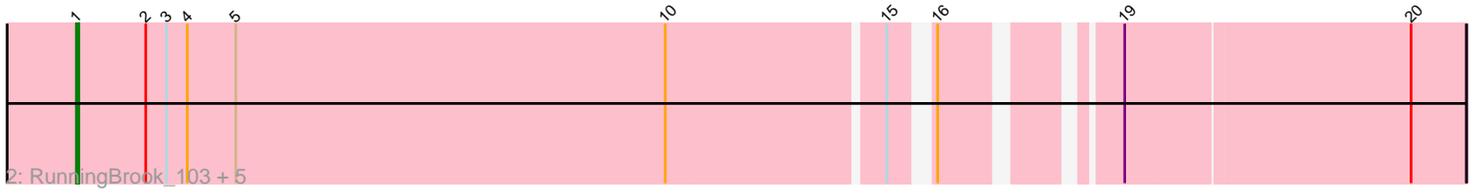


Pham 291599



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 291599 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291599 has 18 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Lyell\_101, ASegato\_99, Fork\_97
- Track 2 : RunningBrook\_103, Casablanacas\_102, Deschain\_102, Musetta\_100, DustyDino\_105, Yuma\_100
- Track 3 : Issa7\_100
- Track 4 : Erenyeager\_101, Necrophoxinus\_103, Welcome\_103
- Track 5 : HollowPurple\_102, SteakFry\_100
- Track 6 : StevieWelch\_101
- Track 7 : Shroomer\_104
- Track 8 : Mistmere\_95

### ***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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato\_99, Casablanacas\_102, Deschain\_102, DustyDino\_105, Erenyeager\_101, Fork\_97, HollowPurple\_102, Issa7\_100, Lyell\_101, Mistmere\_95, Musetta\_100, Necrophoxinus\_103, RunningBrook\_103, Shroomer\_104, SteakFry\_100, StevieWelch\_101, Welcome\_103, Yuma\_100,

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 18 of 18 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: ASegato\_99 (ED2), Casablanacas\_102 (ED2), Deschain\_102 (ED2), DustyDino\_105 (ED2), Erenyeager\_101 (ED2), Fork\_97 (ED2), HollowPurple\_102 (ED2), Issa7\_100 (ED2), Lyell\_101 (ED2), Mistmere\_95 (ED3), Musetta\_100 (ED2), Necrophoxinus\_103 (ED2), RunningBrook\_103 (ED2), Shroomer\_104 (ED2), SteakFry\_100 (ED2), StevieWelch\_101 (ED2), Welcome\_103 (ED2), Yuma\_100 (ED2),

### **Summary by clusters:**

There are 2 clusters represented in this pham: ED2, ED3,

Info for manual annotations of cluster ED2:

- Start number 1 was manually annotated 12 times for cluster ED2.

### **Gene Information:**

Gene: ASegato\_99 Start: 53663, Stop: 53103, Start Num: 1

Candidate Starts for ASegato\_99:

(Start: 1 @53663 has 12 MA's), (2, 53633), (4, 53615), (5, 53594), (6, 53444), (10, 53408), (15, 53318), (19, 53246), (20, 53126),

Gene: Casablanacas\_102 Start: 53582, Stop: 53022, Start Num: 1

Candidate Starts for Casablanacas\_102:

(Start: 1 @53582 has 12 MA's), (2, 53552), (3, 53543), (4, 53534), (5, 53513), (10, 53327), (15, 53237), (16, 53225), (19, 53165), (20, 53045),

Gene: Deschain\_102 Start: 54246, Stop: 53686, Start Num: 1

Candidate Starts for Deschain\_102:

(Start: 1 @54246 has 12 MA's), (2, 54216), (3, 54207), (4, 54198), (5, 54177), (10, 53991), (15, 53901), (16, 53889), (19, 53829), (20, 53709),

Gene: DustyDino\_105 Start: 54805, Stop: 54245, Start Num: 1

Candidate Starts for DustyDino\_105:

(Start: 1 @54805 has 12 MA's), (2, 54775), (3, 54766), (4, 54757), (5, 54736), (10, 54550), (15, 54460), (16, 54448), (19, 54388), (20, 54268),

Gene: Erenyeager\_101 Start: 53588, Stop: 53028, Start Num: 1

Candidate Starts for Erenyeager\_101:

(Start: 1 @53588 has 12 MA's), (2, 53558), (4, 53540), (5, 53519), (6, 53369), (10, 53333), (15, 53243), (19, 53171), (20, 53051),

Gene: Fork\_97 Start: 53541, Stop: 52981, Start Num: 1

Candidate Starts for Fork\_97:

(Start: 1 @53541 has 12 MA's), (2, 53511), (4, 53493), (5, 53472), (6, 53322), (10, 53286), (15, 53196), (19, 53124), (20, 53004),

Gene: HollowPurple\_102 Start: 54202, Stop: 53642, Start Num: 1

Candidate Starts for HollowPurple\_102:

(Start: 1 @54202 has 12 MA's), (2, 54172), (4, 54154), (5, 54133), (6, 53983), (10, 53947), (11, 53935), (15, 53857), (19, 53785), (20, 53665),

Gene: Issa7\_100 Start: 53556, Stop: 52996, Start Num: 1

Candidate Starts for Issa7\_100:

(Start: 1 @53556 has 12 MA's), (2, 53526), (3, 53517), (4, 53508), (5, 53487), (6, 53337), (10, 53301), (15, 53211), (19, 53139), (20, 53019),

Gene: Lyell\_101 Start: 53752, Stop: 53192, Start Num: 1

Candidate Starts for Lyell\_101:

(Start: 1 @53752 has 12 MA's), (2, 53722), (4, 53704), (5, 53683), (6, 53533), (10, 53497), (15, 53407), (19, 53335), (20, 53215),

Gene: Mistmere\_95 Start: 52321, Stop: 51722, Start Num: 1

Candidate Starts for Mistmere\_95:

(Start: 1 @52321 has 12 MA's), (2, 52291), (4, 52273), (7, 52075), (8, 52072), (9, 52069), (12, 52051), (13, 52024), (14, 51979), (17, 51934), (18, 51910), (20, 51745),

Gene: Musetta\_100 Start: 54094, Stop: 53534, Start Num: 1

Candidate Starts for Musetta\_100:

(Start: 1 @54094 has 12 MA's), (2, 54064), (3, 54055), (4, 54046), (5, 54025), (10, 53839), (15, 53749), (16, 53737), (19, 53677), (20, 53557),

Gene: Necrophoxinus\_103 Start: 54441, Stop: 53881, Start Num: 1

Candidate Starts for Necrophoxinus\_103:

(Start: 1 @54441 has 12 MA's), (2, 54411), (4, 54393), (5, 54372), (6, 54222), (10, 54186), (15, 54096), (19, 54024), (20, 53904),

Gene: RunningBrook\_103 Start: 54805, Stop: 54245, Start Num: 1

Candidate Starts for RunningBrook\_103:

(Start: 1 @54805 has 12 MA's), (2, 54775), (3, 54766), (4, 54757), (5, 54736), (10, 54550), (15, 54460), (16, 54448), (19, 54388), (20, 54268),

Gene: Shroomer\_104 Start: 54042, Stop: 53482, Start Num: 1

Candidate Starts for Shroomer\_104:

(Start: 1 @54042 has 12 MA's), (2, 54012), (3, 54003), (4, 53994), (5, 53973), (6, 53823), (10, 53787), (15, 53697), (19, 53625), (20, 53505),

Gene: SteakFry\_100 Start: 54202, Stop: 53642, Start Num: 1

Candidate Starts for SteakFry\_100:

(Start: 1 @54202 has 12 MA's), (2, 54172), (4, 54154), (5, 54133), (6, 53983), (10, 53947), (11, 53935), (15, 53857), (19, 53785), (20, 53665),

Gene: StevieWelch\_101 Start: 53725, Stop: 53165, Start Num: 1

Candidate Starts for StevieWelch\_101:

(Start: 1 @53725 has 12 MA's), (2, 53695), (4, 53677), (5, 53656), (6, 53506), (10, 53470), (15, 53380), (16, 53368), (19, 53308), (20, 53188),

Gene: Welcome\_103 Start: 54356, Stop: 53796, Start Num: 1

Candidate Starts for Welcome\_103:

(Start: 1 @54356 has 12 MA's), (2, 54326), (4, 54308), (5, 54287), (6, 54137), (10, 54101), (15, 54011), (19, 53939), (20, 53819),

Gene: Yuma\_100 Start: 53766, Stop: 53206, Start Num: 1

Candidate Starts for Yuma\_100:

(Start: 1 @53766 has 12 MA's), (2, 53736), (3, 53727), (4, 53718), (5, 53697), (10, 53511), (15, 53421), (16, 53409), (19, 53349), (20, 53229),