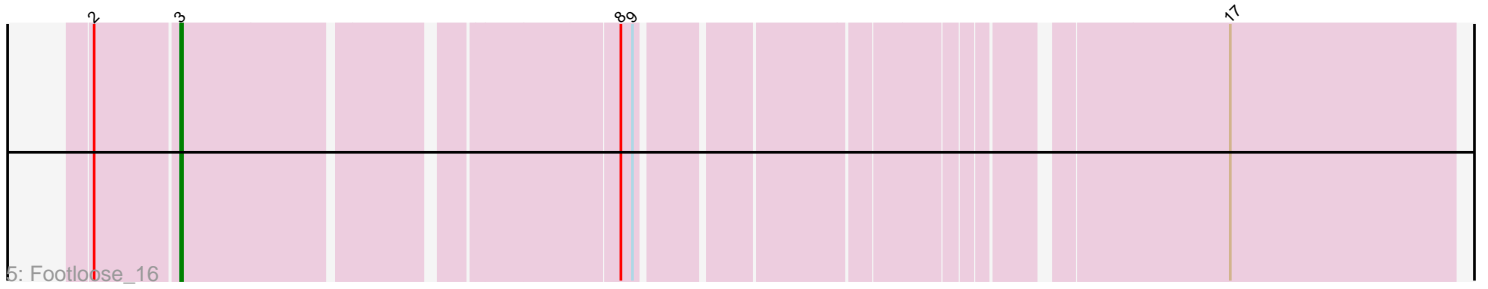
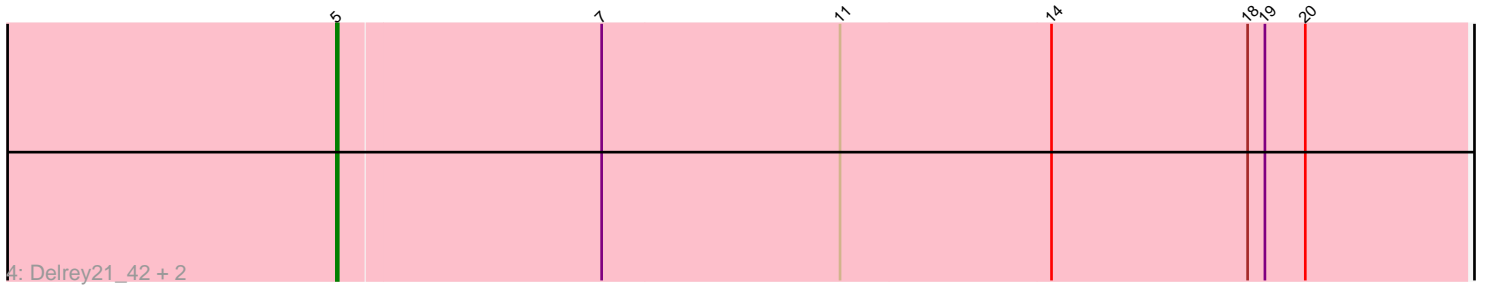
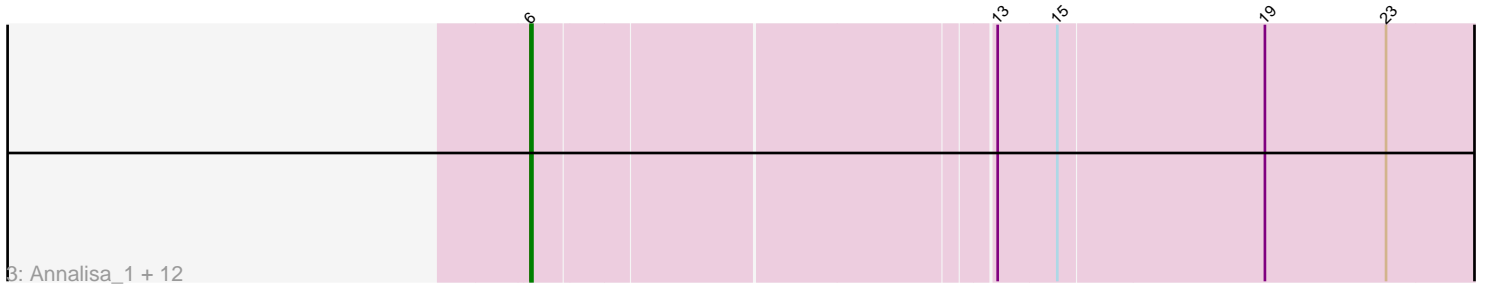
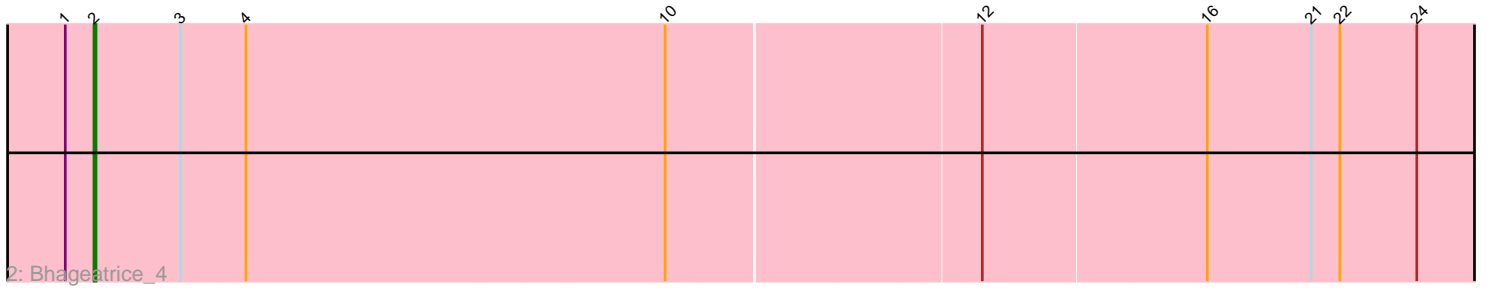
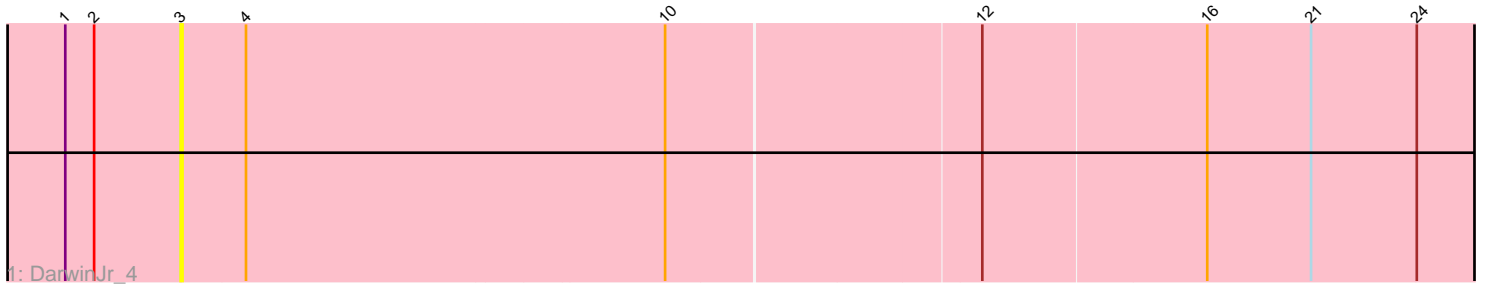


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 296988 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296988 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : DarwinJr\_4
- Track 2 : Bhageatrice\_4
- Track 3 : Annalisa\_1, MichaelScott\_1, Easley\_1, Rizz\_2, Invecetra\_1, Tuti\_2, Beenie\_1, Samman98\_1, WinkNick\_1, Thimann\_1, Clark\_1, Dolores\_1, Sekhmet\_1
- Track 4 : Delrey21\_42, Verity\_42, DoctorFroggo\_42
- Track 5 : Footloose\_16

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annalisa\_1, Beenie\_1, Clark\_1, Dolores\_1, Easley\_1, Invecetra\_1, MichaelScott\_1, Rizz\_2, Samman98\_1, Sekhmet\_1, Thimann\_1, Tuti\_2, WinkNick\_1,

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

- 

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

- Bhageatrice\_4, DarwinJr\_4, Delrey21\_42, DoctorFroggo\_42, Footloose\_16, Verity\_42,

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

Start 2:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Bhageatrice\_4 (AY),

Start 3:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 1 of 16

- Called 66.7% of time when present
- Phage (with cluster) where this start called: DarwinJr\_4 (AY), Footloose\_16 (singleton),

Start 5:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Delrey21\_42 (DE4), DoctorFroggo\_42 (DE4), Verity\_42 (DE4),

Start 6:

- Found in 13 of 19 ( 68.4% ) of genes in pham
- Manual Annotations of this start: 11 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annalisa\_1 (CZ4), Beenie\_1 (CZ4), Clark\_1 (CZ4), Dolores\_1 (CZ4), Easley\_1 (CZ4), Invectra\_1 (CZ4), MichaelScott\_1 (CZ4), Rizz\_2 (CZ4), Samman98\_1 (CZ4), Sekhmet\_1 (CZ4), Thimann\_1 (CZ4), Tuti\_2 (CZ4), WinkNick\_1 (CZ4),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AY, singleton, DE4, CZ4,

Info for manual annotations of cluster AY:

- Start number 2 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CZ4:

- Start number 6 was manually annotated 11 times for cluster CZ4.

Info for manual annotations of cluster DE4:

- Start number 5 was manually annotated 3 times for cluster DE4.

### **Gene Information:**

Gene: Annalisa\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Annalisa\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Beenie\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Beenie\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Bhageatrice\_4 Start: 2128, Stop: 2829, Start Num: 2

Candidate Starts for Bhageatrice\_4:

(1, 2113), (Start: 2 @2128 has 1 MA's), (Start: 3 @2173 has 1 MA's), (4, 2206), (10, 2419), (12, 2575), (16, 2689), (21, 2743), (22, 2758), (24, 2797),

Gene: Clark\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Clark\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: DarwinJr\_4 Start: 2111, Stop: 2767, Start Num: 3

Candidate Starts for DarwinJr\_4:

(1, 2051), (Start: 2 @2066 has 1 MA's), (Start: 3 @2111 has 1 MA's), (4, 2144), (10, 2357), (12, 2513), (16, 2627), (21, 2681), (24, 2735),

Gene: Delrey21\_42 Start: 39489, Stop: 40070, Start Num: 5

Candidate Starts for Delrey21\_42:

(Start: 5 @39489 has 3 MA's), (7, 39624), (11, 39747), (14, 39855), (18, 39957), (19, 39966), (20, 39987),

Gene: DoctorFroggo\_42 Start: 39489, Stop: 40070, Start Num: 5

Candidate Starts for DoctorFroggo\_42:

(Start: 5 @39489 has 3 MA's), (7, 39624), (11, 39747), (14, 39855), (18, 39957), (19, 39966), (20, 39987),

Gene: Dolores\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Dolores\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Easley\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Easley\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Footloose\_16 Start: 9392, Stop: 9988, Start Num: 3

Candidate Starts for Footloose\_16:

(Start: 2 @9350 has 1 MA's), (Start: 3 @9392 has 1 MA's), (8, 9596), (9, 9602), (17, 9872),

Gene: Invectra\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Invectra\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: MichaelScott\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for MichaelScott\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Rizz\_2 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Rizz\_2:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Samman98\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Samman98\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Sekhmet\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Sekhmet\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Thimann\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Thimann\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Tuti\_2 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for Tuti\_2:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),

Gene: Verity\_42 Start: 39489, Stop: 40070, Start Num: 5

Candidate Starts for Verity\_42:

(Start: 5 @39489 has 3 MA's), (7, 39624), (11, 39747), (14, 39855), (18, 39957), (19, 39966), (20, 39987),

Gene: WinkNick\_1 Start: 47, Stop: 517, Start Num: 6

Candidate Starts for WinkNick\_1:

(Start: 6 @47 has 11 MA's), (13, 272), (15, 302), (19, 407), (23, 470),