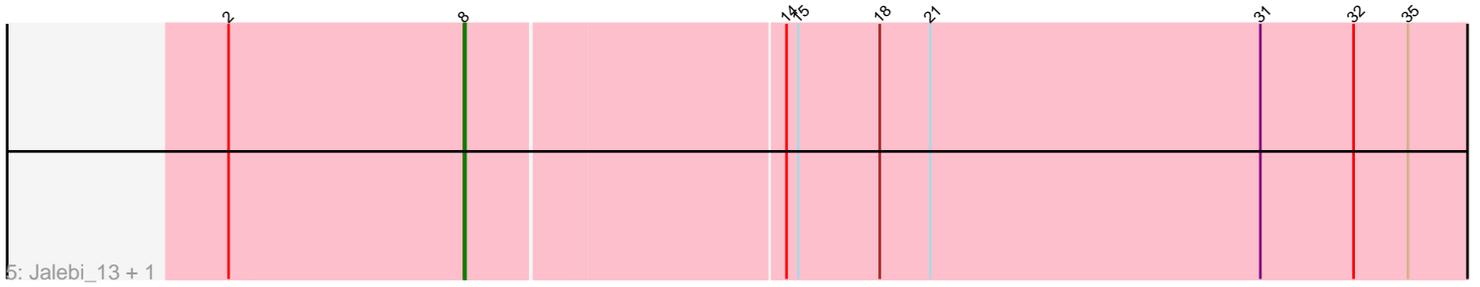
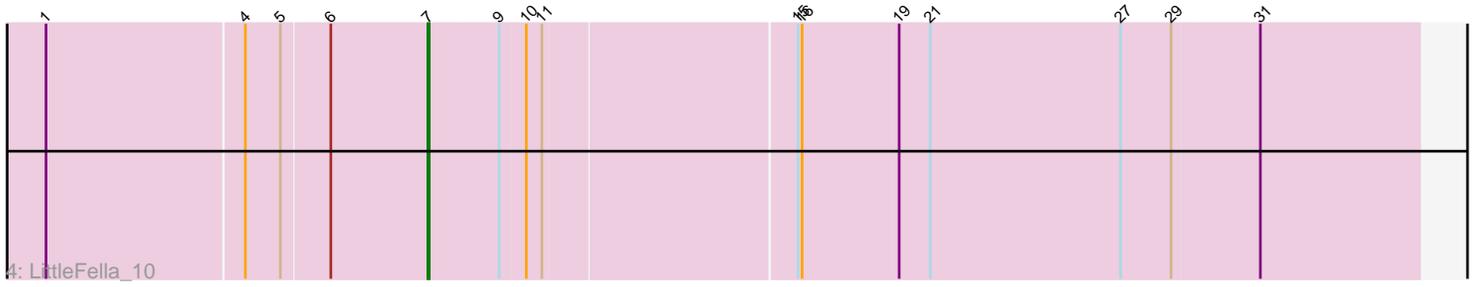
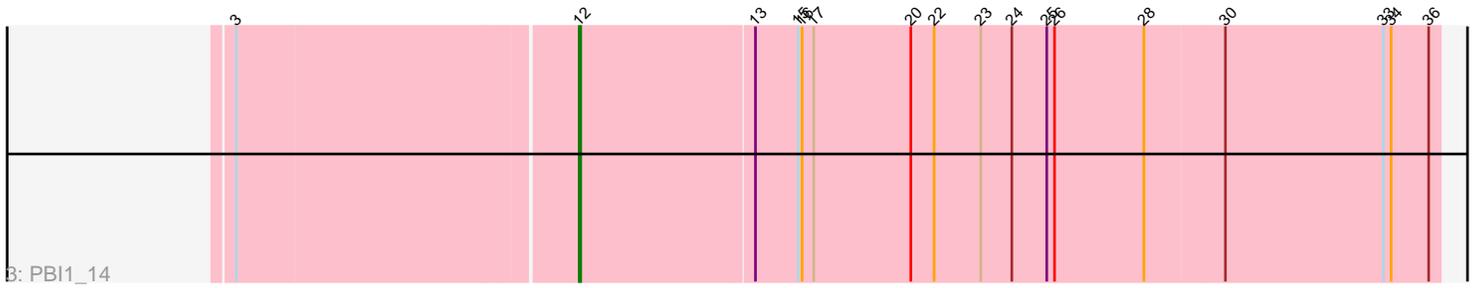
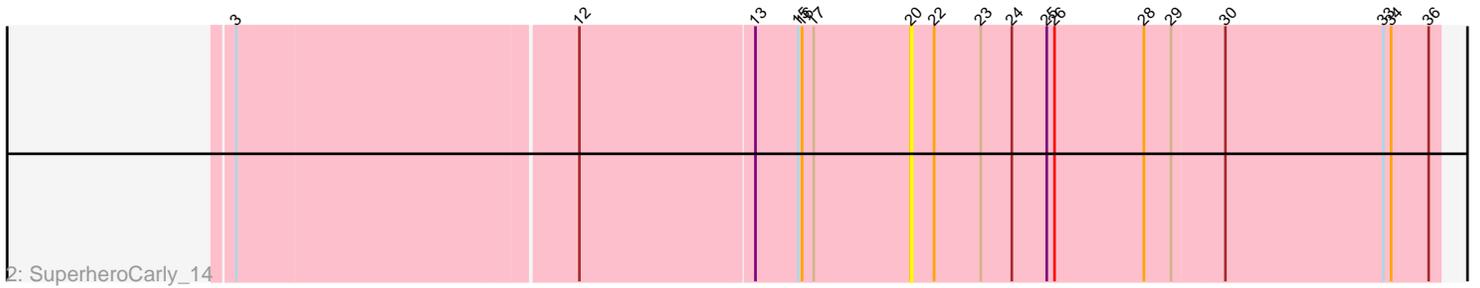
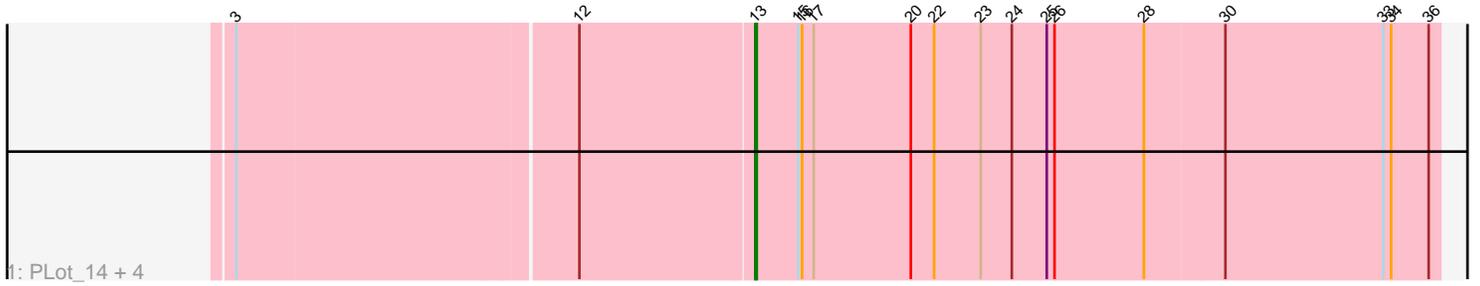


Pham 284432



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 284432 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284432 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : PLOT\_14, Adjutor\_14, Chill\_14, WaldoWhy\_14, Helpful\_14
- Track 2 : SuperheroCarly\_14
- Track 3 : PBI1\_14
- Track 4 : LittleFella\_10
- Track 5 : Jalebi\_13, ParvusTarda\_12

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

The start number called the most often in the published annotations is 13, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor\_14, Chill\_14, Helpful\_14, PLOT\_14, WaldoWhy\_14,

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

- PBI1\_14, SuperheroCarly\_14,

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

- Jalebi\_13, LittleFella\_10, ParvusTarda\_12,

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

Start 7:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleFella\_10 (DG2),

Start 8:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jalebi\_13 (DV), ParvusTarda\_12 (DV),

Start 12:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 14.3% of time when present
- Phage (with cluster) where this start called: PBI1\_14 (D1),

Start 13:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Adjutor\_14 (D1), Chill\_14 (D1), Helpful\_14 (D1), PLOT\_14 (D1), WaldoWhy\_14 (D1),

Start 20:

- Found in 7 of 10 ( 70.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: SuperheroCarly\_14 (D1),

**Summary by clusters:**

There are 3 clusters represented in this pham: DG2, DV, D1,

Info for manual annotations of cluster D1:

- Start number 12 was manually annotated 1 time for cluster D1.
- Start number 13 was manually annotated 5 times for cluster D1.

Info for manual annotations of cluster DG2:

- Start number 7 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DV:

- Start number 8 was manually annotated 2 times for cluster DV.

**Gene Information:**

Gene: Adjutor\_14 Start: 9115, Stop: 9636, Start Num: 13

Candidate Starts for Adjutor\_14:

(3, 8731), (Start: 12 @8983 has 1 MA's), (Start: 13 @9115 has 5 MA's), (15, 9148), (16, 9151), (17, 9160), (20, 9235), (22, 9253), (23, 9289), (24, 9313), (25, 9340), (26, 9346), (28, 9415), (30, 9475), (33, 9595), (34, 9601), (36, 9628),

Gene: Chill\_14 Start: 9178, Stop: 9699, Start Num: 13

Candidate Starts for Chill\_14:

(3, 8794), (Start: 12 @9046 has 1 MA's), (Start: 13 @9178 has 5 MA's), (15, 9211), (16, 9214), (17, 9223), (20, 9298), (22, 9316), (23, 9352), (24, 9376), (25, 9403), (26, 9409), (28, 9478), (30, 9538), (33, 9658), (34, 9664), (36, 9691),

Gene: Helpful\_14 Start: 9175, Stop: 9696, Start Num: 13

Candidate Starts for Helpful\_14:

(3, 8791), (Start: 12 @9043 has 1 MA's), (Start: 13 @9175 has 5 MA's), (15, 9208), (16, 9211), (17, 9220), (20, 9295), (22, 9313), (23, 9349), (24, 9373), (25, 9400), (26, 9406), (28, 9475), (30, 9535), (33,

9655), (34, 9661), (36, 9688),

Gene: Jalebi\_13 Start: 10558, Stop: 11325, Start Num: 8

Candidate Starts for Jalebi\_13:

(2, 10378), (Start: 8 @10558 has 2 MA's), (14, 10795), (15, 10804), (18, 10867), (21, 10906), (31, 11161), (32, 11233), (35, 11275),

Gene: LittleFella\_10 Start: 7738, Stop: 8487, Start Num: 7

Candidate Starts for LittleFella\_10:

(1, 7450), (4, 7600), (5, 7627), (6, 7663), (Start: 7 @7738 has 1 MA's), (9, 7792), (10, 7810), (11, 7822), (15, 8011), (16, 8014), (19, 8089), (21, 8113), (27, 8260), (29, 8299), (31, 8365),

Gene: PBI1\_14 Start: 8974, Stop: 9627, Start Num: 12

Candidate Starts for PBI1\_14:

(3, 8722), (Start: 12 @8974 has 1 MA's), (Start: 13 @9106 has 5 MA's), (15, 9139), (16, 9142), (17, 9151), (20, 9226), (22, 9244), (23, 9280), (24, 9304), (25, 9331), (26, 9337), (28, 9406), (30, 9466), (33, 9586), (34, 9592), (36, 9619),

Gene: PLOT\_14 Start: 9178, Stop: 9699, Start Num: 13

Candidate Starts for PLOT\_14:

(3, 8794), (Start: 12 @9046 has 1 MA's), (Start: 13 @9178 has 5 MA's), (15, 9211), (16, 9214), (17, 9223), (20, 9298), (22, 9316), (23, 9352), (24, 9376), (25, 9403), (26, 9409), (28, 9478), (30, 9538), (33, 9658), (34, 9664), (36, 9691),

Gene: ParvusTarda\_12 Start: 9186, Stop: 9953, Start Num: 8

Candidate Starts for ParvusTarda\_12:

(2, 9006), (Start: 8 @9186 has 2 MA's), (14, 9423), (15, 9432), (18, 9495), (21, 9534), (31, 9789), (32, 9861), (35, 9903),

Gene: SuperheroCarly\_14 Start: 9157, Stop: 9558, Start Num: 20

Candidate Starts for SuperheroCarly\_14:

(3, 8653), (Start: 12 @8905 has 1 MA's), (Start: 13 @9037 has 5 MA's), (15, 9070), (16, 9073), (17, 9082), (20, 9157), (22, 9175), (23, 9211), (24, 9235), (25, 9262), (26, 9268), (28, 9337), (29, 9358), (30, 9397), (33, 9517), (34, 9523), (36, 9550),

Gene: WaldoWhy\_14 Start: 9178, Stop: 9699, Start Num: 13

Candidate Starts for WaldoWhy\_14:

(3, 8794), (Start: 12 @9046 has 1 MA's), (Start: 13 @9178 has 5 MA's), (15, 9211), (16, 9214), (17, 9223), (20, 9298), (22, 9316), (23, 9352), (24, 9376), (25, 9403), (26, 9409), (28, 9478), (30, 9538), (33, 9658), (34, 9664), (36, 9691),