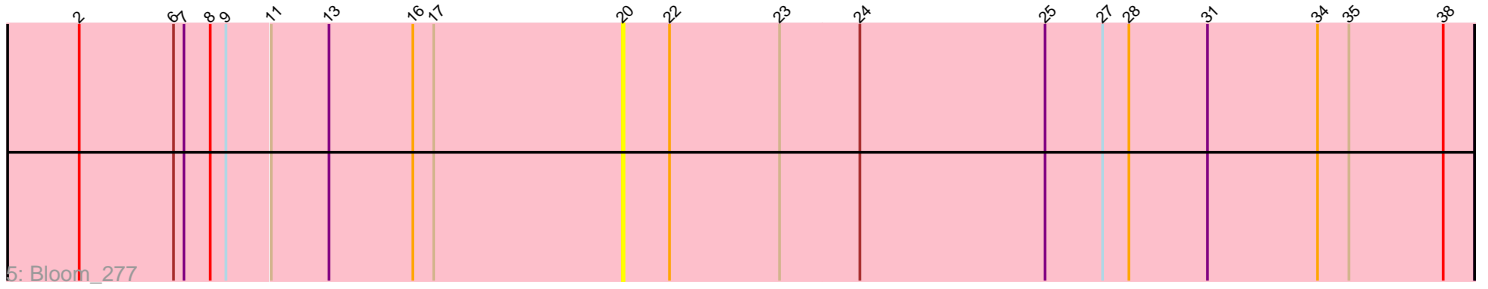
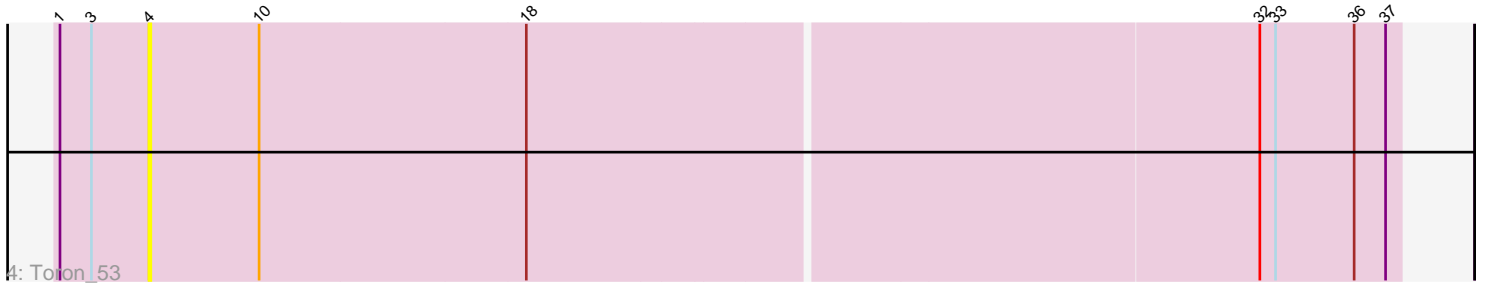
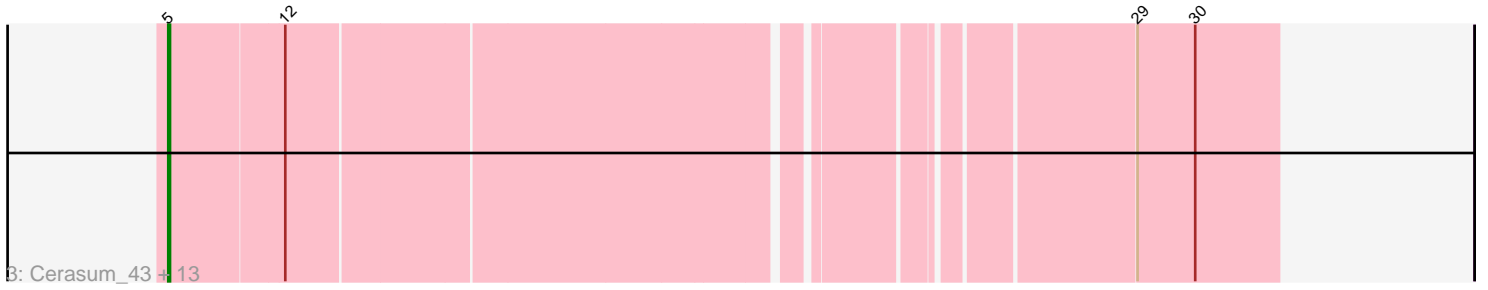
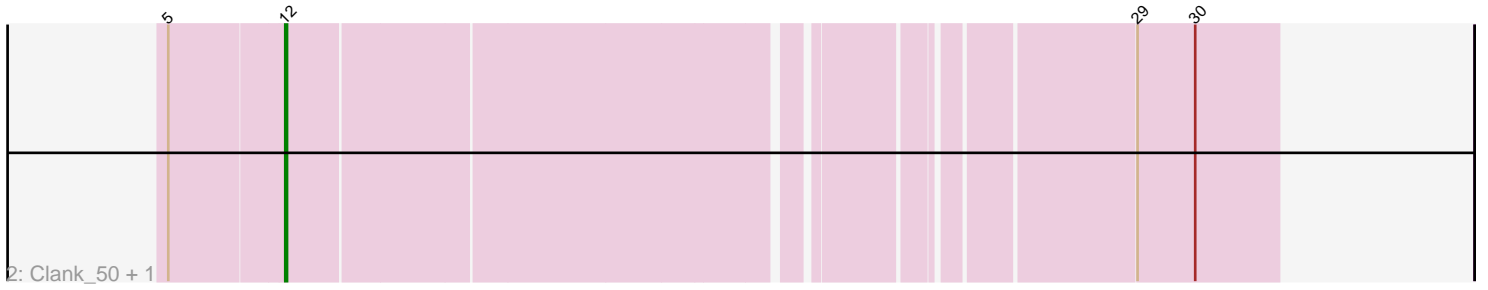
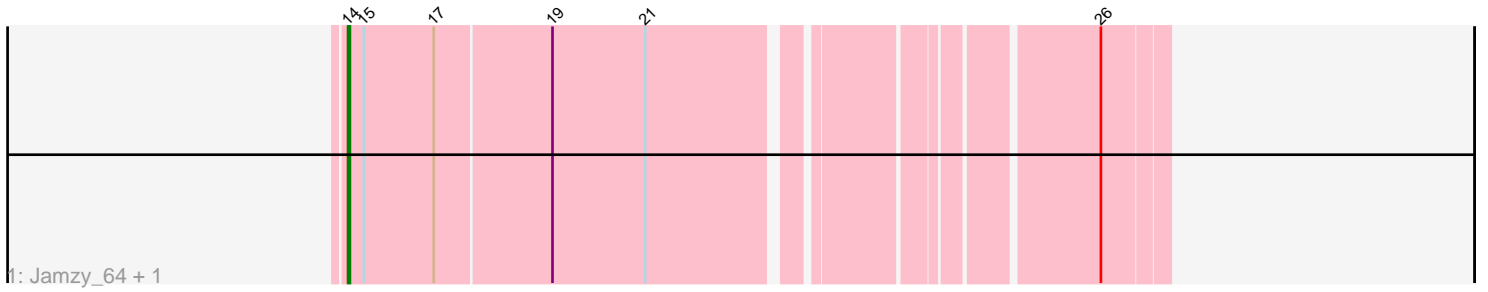


Pham 309317



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 309317 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309317 has 20 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Jamzy\_64, GiKK\_64
- Track 2 : Clank\_50, Doug\_48
- Track 3 : Cerasum\_43, Eradicator\_40, Kersh\_49, Brookers\_44, Kingsley\_43, MilleniumForce\_47, Plumbus\_48, Velveteen\_42, Rialto\_52, BigPhil\_43, Coco12\_45, Violac\_50, Yorick\_46, Sarma624\_44
- Track 4 : Toron\_53
- Track 5 : Bloom\_277

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigPhil\_43, Brookers\_44, Cerasum\_43, Coco12\_45, Eradicator\_40, Kersh\_49, Kingsley\_43, MilleniumForce\_47, Plumbus\_48, Rialto\_52, Sarma624\_44, Velveteen\_42, Violac\_50, Yorick\_46,

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

- Clank\_50, Doug\_48,

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

- Bloom\_277, GiKK\_64, Jamzy\_64, Toron\_53,

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

Start 4:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron\_53 (F6),

Start 5:

- Found in 16 of 20 ( 80.0% ) of genes in pham

- Manual Annotations of this start: 14 of 17
- Called 87.5% of time when present
- Phage (with cluster) where this start called: BigPhil\_43 (F1), Brookers\_44 (F1), Cerasum\_43 (F1), Coco12\_45 (F1), Eradicator\_40 (F1), Kersh\_49 (F1), Kingsley\_43 (F1), MilleniumForce\_47 (F1), Plumbus\_48 (F1), Rialto\_52 (F1), Sarma624\_44 (F1), Velveteen\_42 (F1), Violac\_50 (F1), Yorick\_46 (F1),

#### Start 12:

- Found in 16 of 20 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Clank\_50 (F), Doug\_48 (F1),

#### Start 14:

- Found in 2 of 20 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GiKK\_64 (CT), Jamzy\_64 (CT),

#### Start 20:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom\_277 (FC),

### Summary by clusters:

There are 5 clusters represented in this pham: F1, F, FC, F6, CT,

Info for manual annotations of cluster CT:

- Start number 14 was manually annotated 2 times for cluster CT.

Info for manual annotations of cluster F1:

- Start number 5 was manually annotated 14 times for cluster F1.
- Start number 12 was manually annotated 1 time for cluster F1.

### Gene Information:

Gene: BigPhil\_43 Start: 31745, Stop: 32326, Start Num: 5

Candidate Starts for BigPhil\_43:

(Start: 5 @31745 has 14 MA's), (Start: 12 @31808 has 1 MA's), (29, 32246), (30, 32279),

Gene: Bloom\_277 Start: 168150, Stop: 168635, Start Num: 20

Candidate Starts for Bloom\_277:

(2, 167841), (6, 167895), (7, 167901), (8, 167916), (9, 167925), (11, 167949), (13, 167982), (16, 168030), (17, 168042), (20, 168150), (22, 168177), (23, 168240), (24, 168285), (25, 168390), (27, 168423), (28, 168438), (31, 168483), (34, 168546), (35, 168564), (38, 168618),

Gene: Brookers\_44 Start: 34696, Stop: 35277, Start Num: 5

Candidate Starts for Brookers\_44:

(Start: 5 @34696 has 14 MA's), (Start: 12 @34759 has 1 MA's), (29, 35197), (30, 35230),

Gene: Cerasum\_43 Start: 31763, Stop: 32344, Start Num: 5

Candidate Starts for Cerasum\_43:

(Start: 5 @31763 has 14 MA's), (Start: 12 @31826 has 1 MA's), (29, 32264), (30, 32297),

Gene: Clank\_50 Start: 36078, Stop: 36596, Start Num: 12

Candidate Starts for Clank\_50:

(Start: 5 @36015 has 14 MA's), (Start: 12 @36078 has 1 MA's), (29, 36516), (30, 36549),

Gene: Coco12\_45 Start: 35820, Stop: 36401, Start Num: 5

Candidate Starts for Coco12\_45:

(Start: 5 @35820 has 14 MA's), (Start: 12 @35883 has 1 MA's), (29, 36321), (30, 36354),

Gene: Doug\_48 Start: 36379, Stop: 36897, Start Num: 12

Candidate Starts for Doug\_48:

(Start: 5 @36316 has 14 MA's), (Start: 12 @36379 has 1 MA's), (29, 36817), (30, 36850),

Gene: Eradicator\_40 Start: 33880, Stop: 34461, Start Num: 5

Candidate Starts for Eradicator\_40:

(Start: 5 @33880 has 14 MA's), (Start: 12 @33943 has 1 MA's), (29, 34381), (30, 34414),

Gene: GiKK\_64 Start: 43529, Stop: 43948, Start Num: 14

Candidate Starts for GiKK\_64:

(Start: 14 @43529 has 2 MA's), (15, 43538), (17, 43577), (19, 43640), (21, 43691), (26, 43913),

Gene: Jamzy\_64 Start: 43265, Stop: 43684, Start Num: 14

Candidate Starts for Jamzy\_64:

(Start: 14 @43265 has 2 MA's), (15, 43274), (17, 43313), (19, 43376), (21, 43427), (26, 43649),

Gene: Kersh\_49 Start: 37632, Stop: 38213, Start Num: 5

Candidate Starts for Kersh\_49:

(Start: 5 @37632 has 14 MA's), (Start: 12 @37695 has 1 MA's), (29, 38133), (30, 38166),

Gene: Kingsley\_43 Start: 34553, Stop: 35134, Start Num: 5

Candidate Starts for Kingsley\_43:

(Start: 5 @34553 has 14 MA's), (Start: 12 @34616 has 1 MA's), (29, 35054), (30, 35087),

Gene: MilleniumForce\_47 Start: 36714, Stop: 37295, Start Num: 5

Candidate Starts for MilleniumForce\_47:

(Start: 5 @36714 has 14 MA's), (Start: 12 @36777 has 1 MA's), (29, 37215), (30, 37248),

Gene: Plumbus\_48 Start: 35660, Stop: 36241, Start Num: 5

Candidate Starts for Plumbus\_48:

(Start: 5 @35660 has 14 MA's), (Start: 12 @35723 has 1 MA's), (29, 36161), (30, 36194),

Gene: Rialto\_52 Start: 38232, Stop: 38813, Start Num: 5

Candidate Starts for Rialto\_52:

(Start: 5 @38232 has 14 MA's), (Start: 12 @38295 has 1 MA's), (29, 38733), (30, 38766),

Gene: Sarma624\_44 Start: 31745, Stop: 32326, Start Num: 5

Candidate Starts for Sarma624\_44:

(Start: 5 @31745 has 14 MA's), (Start: 12 @31808 has 1 MA's), (29, 32246), (30, 32279),

Gene: Toron\_53 Start: 37888, Stop: 38586, Start Num: 4

Candidate Starts for Toron\_53:

(1, 37837), (3, 37855), (4, 37888), (10, 37951), (18, 38101), (32, 38506), (33, 38515), (36, 38560), (37, 38578),

Gene: Velveteen\_42 Start: 31745, Stop: 32326, Start Num: 5

Candidate Starts for Velveteen\_42:

(Start: 5 @31745 has 14 MA's), (Start: 12 @31808 has 1 MA's), (29, 32246), (30, 32279),

Gene: Violac\_50 Start: 37042, Stop: 37623, Start Num: 5

Candidate Starts for Violac\_50:

(Start: 5 @37042 has 14 MA's), (Start: 12 @37105 has 1 MA's), (29, 37543), (30, 37576),

Gene: Yorick\_46 Start: 35918, Stop: 36499, Start Num: 5

Candidate Starts for Yorick\_46:

(Start: 5 @35918 has 14 MA's), (Start: 12 @35981 has 1 MA's), (29, 36419), (30, 36452),