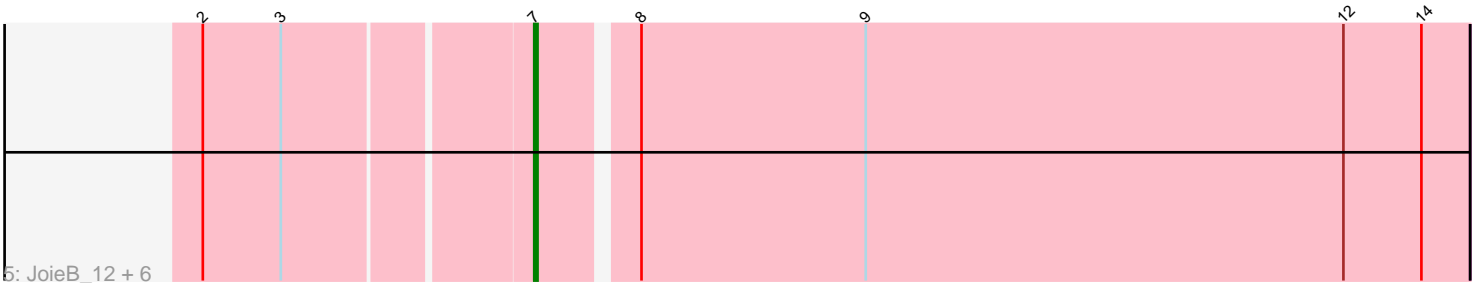
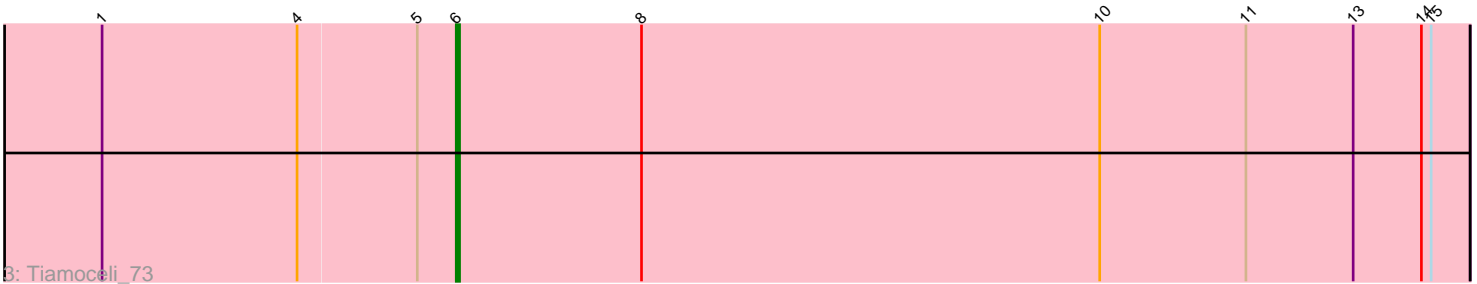
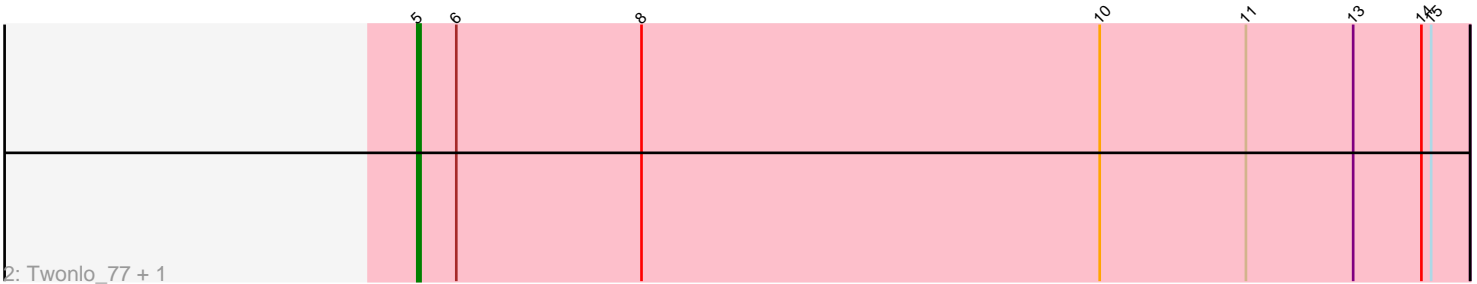
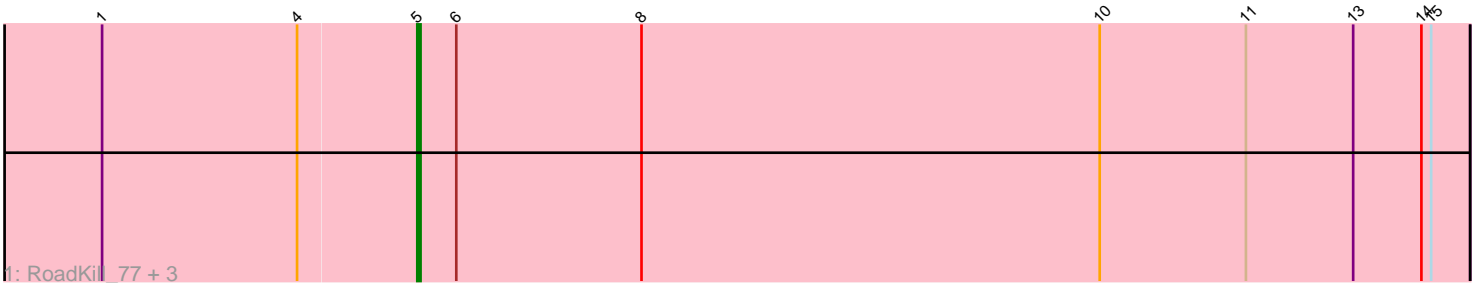


Pham 87104



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 87104 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87104 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : RoadKill\_77, EdmundFerry\_78, Kwekel\_80, Chickadee\_80
- Track 2 : Twonlo\_77, Dexdert\_75
- Track 3 : Tiamoceli\_73
- Track 4 : MulchSalad\_77
- Track 5 : JoieB\_12, Pringar\_11, Clarkson\_12, Corazon\_11, Beelzebub\_14, LittleLaf\_11, Huphlebuff\_12

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

The start number called the most often in the published annotations is 7, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_14, Clarkson\_12, Corazon\_11, Huphlebuff\_12, JoieB\_12, LittleLaf\_11, MulchSalad\_77, Pringar\_11,

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

- 

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

- Chickadee\_80, Dexdert\_75, EdmundFerry\_78, Kwekel\_80, RoadKill\_77, Tiamoceli\_73, Twonlo\_77,

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

Start 5:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Chickadee\_80 (DE3), Dexdert\_75 (DE3), EdmundFerry\_78 (DE3), Kwekel\_80 (DE3), RoadKill\_77 (DE3), Twonlo\_77 (DE3),

Start 6:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Tiamoceli\_73 (DE3),

Start 7:

- Found in 8 of 15 ( 53.3% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub\_14 (S), Clarkson\_12 (S), Corazon\_11 (S), Huphlebuff\_12 (S), JoieB\_12 (S), LittleLaf\_11 (S), MulchSalad\_77 (F), Pringar\_11 (S),

### **Summary by clusters:**

There are 3 clusters represented in this pham: S, DE3, F,

Info for manual annotations of cluster DE3:

- Start number 5 was manually annotated 5 times for cluster DE3.
- Start number 6 was manually annotated 1 time for cluster DE3.

Info for manual annotations of cluster S:

- Start number 7 was manually annotated 7 times for cluster S.

### **Gene Information:**

Gene: Beelzebub\_14 Start: 4157, Stop: 4438, Start Num: 7

Candidate Starts for Beelzebub\_14:

(2, 4061), (3, 4085), (Start: 7 @4157 has 7 MA's), (8, 4184), (9, 4253), (12, 4400), (14, 4424),

Gene: Chickadee\_80 Start: 53735, Stop: 54058, Start Num: 5

Candidate Starts for Chickadee\_80:

(1, 53639), (4, 53699), (Start: 5 @53735 has 5 MA's), (Start: 6 @53747 has 1 MA's), (8, 53804), (10, 53945), (11, 53990), (13, 54023), (14, 54044), (15, 54047),

Gene: Clarkson\_12 Start: 3933, Stop: 4214, Start Num: 7

Candidate Starts for Clarkson\_12:

(2, 3837), (3, 3861), (Start: 7 @3933 has 7 MA's), (8, 3960), (9, 4029), (12, 4176), (14, 4200),

Gene: Corazon\_11 Start: 3886, Stop: 4167, Start Num: 7

Candidate Starts for Corazon\_11:

(2, 3790), (3, 3814), (Start: 7 @3886 has 7 MA's), (8, 3913), (9, 3982), (12, 4129), (14, 4153),

Gene: Dextert\_75 Start: 52244, Stop: 52567, Start Num: 5

Candidate Starts for Dextert\_75:

(Start: 5 @52244 has 5 MA's), (Start: 6 @52256 has 1 MA's), (8, 52313), (10, 52454), (11, 52499), (13, 52532), (14, 52553), (15, 52556),

Gene: EdmundFerry\_78 Start: 53278, Stop: 53601, Start Num: 5

Candidate Starts for EdmundFerry\_78:

(1, 53182), (4, 53242), (Start: 5 @53278 has 5 MA's), (Start: 6 @53290 has 1 MA's), (8, 53347), (10, 53488), (11, 53533), (13, 53566), (14, 53587), (15, 53590),

Gene: Huphlebuff\_12 Start: 3663, Stop: 3944, Start Num: 7

Candidate Starts for Huphlebuff\_12:

(2, 3567), (3, 3591), (Start: 7 @3663 has 7 MA's), (8, 3690), (9, 3759), (12, 3906), (14, 3930),

Gene: JoieB\_12 Start: 3882, Stop: 4163, Start Num: 7

Candidate Starts for JoieB\_12:

(2, 3786), (3, 3810), (Start: 7 @3882 has 7 MA's), (8, 3909), (9, 3978), (12, 4125), (14, 4149),

Gene: Kwekel\_80 Start: 53648, Stop: 53971, Start Num: 5

Candidate Starts for Kwekel\_80:

(1, 53552), (4, 53612), (Start: 5 @53648 has 5 MA's), (Start: 6 @53660 has 1 MA's), (8, 53717), (10, 53858), (11, 53903), (13, 53936), (14, 53957), (15, 53960),

Gene: LittleLaf\_11 Start: 3663, Stop: 3944, Start Num: 7

Candidate Starts for LittleLaf\_11:

(2, 3567), (3, 3591), (Start: 7 @3663 has 7 MA's), (8, 3690), (9, 3759), (12, 3906), (14, 3930),

Gene: MulchSalad\_77 Start: 47058, Stop: 47339, Start Num: 7

Candidate Starts for MulchSalad\_77:

(Start: 7 @47058 has 7 MA's), (9, 47154), (12, 47301),

Gene: Pringar\_11 Start: 3488, Stop: 3769, Start Num: 7

Candidate Starts for Pringar\_11:

(2, 3392), (3, 3416), (Start: 7 @3488 has 7 MA's), (8, 3515), (9, 3584), (12, 3731), (14, 3755),

Gene: RoadKill\_77 Start: 53177, Stop: 53500, Start Num: 5

Candidate Starts for RoadKill\_77:

(1, 53081), (4, 53141), (Start: 5 @53177 has 5 MA's), (Start: 6 @53189 has 1 MA's), (8, 53246), (10, 53387), (11, 53432), (13, 53465), (14, 53486), (15, 53489),

Gene: Tiamoceli\_73 Start: 53079, Stop: 53390, Start Num: 6

Candidate Starts for Tiamoceli\_73:

(1, 52971), (4, 53031), (Start: 5 @53067 has 5 MA's), (Start: 6 @53079 has 1 MA's), (8, 53136), (10, 53277), (11, 53322), (13, 53355), (14, 53376), (15, 53379),

Gene: Twonlo\_77 Start: 53768, Stop: 54091, Start Num: 5

Candidate Starts for Twonlo\_77:

(Start: 5 @53768 has 5 MA's), (Start: 6 @53780 has 1 MA's), (8, 53837), (10, 53978), (11, 54023), (13, 54056), (14, 54077), (15, 54080),