Pham 87104

1: RoadKill_77 + 3

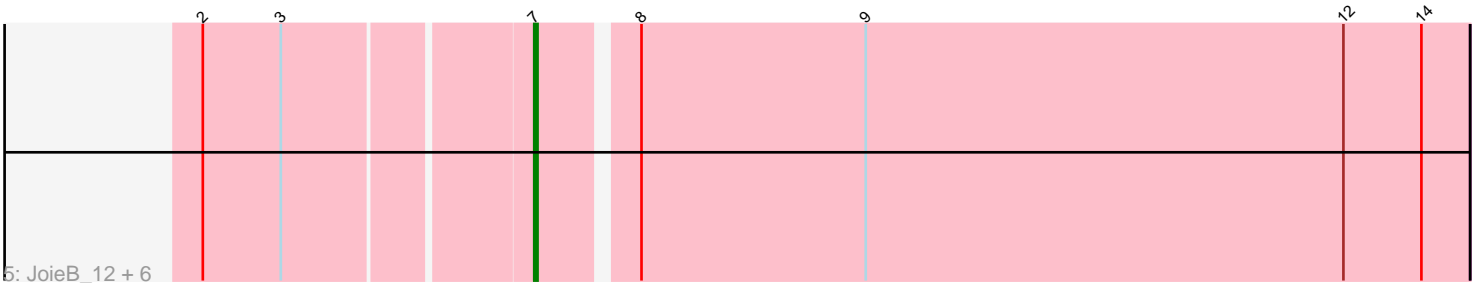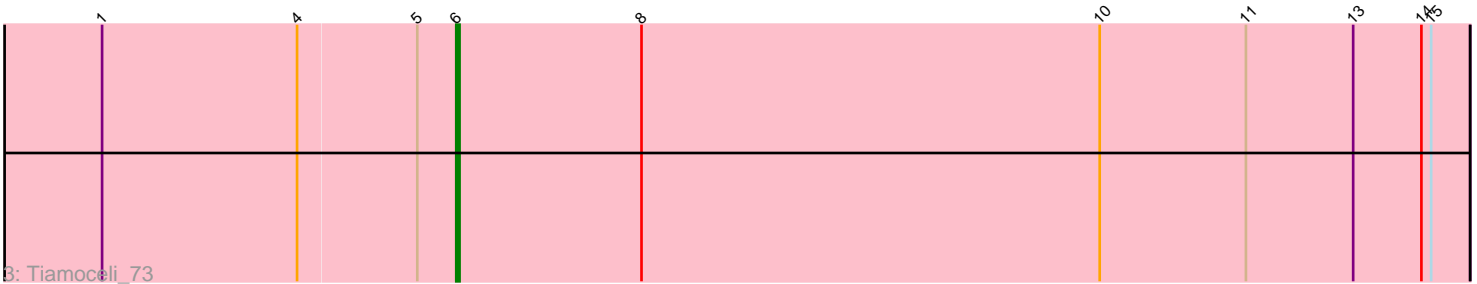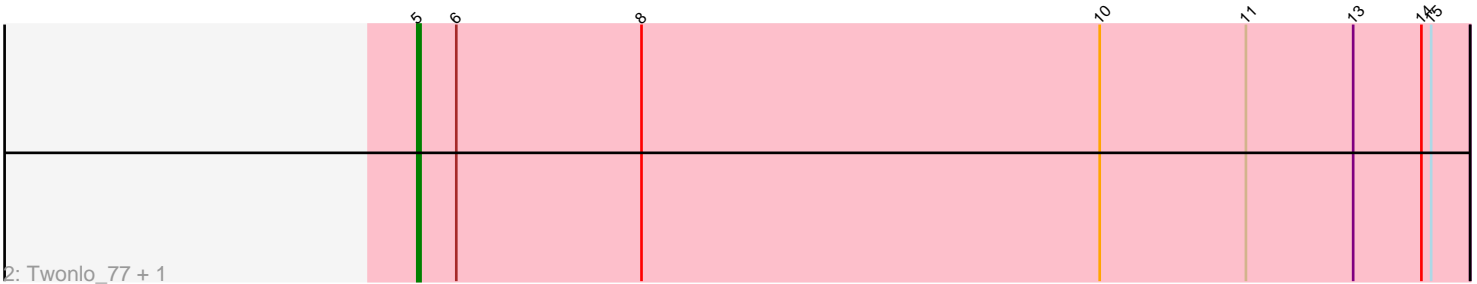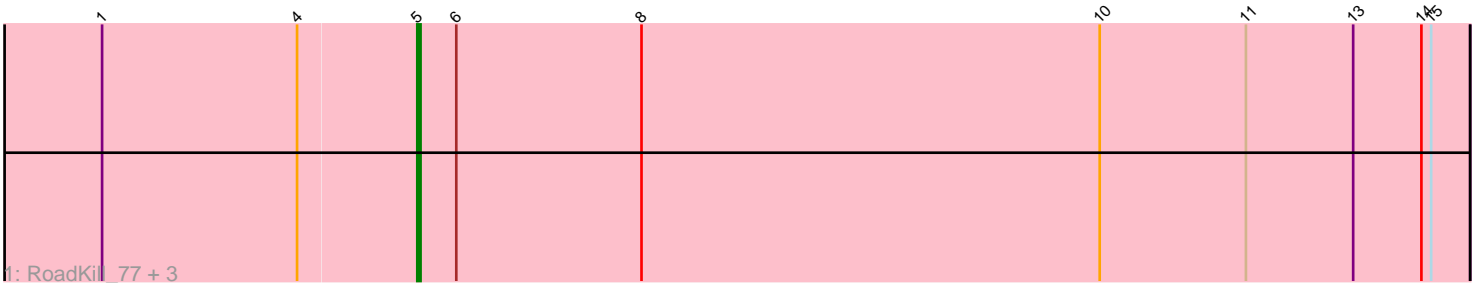2: Twonlo_77 + 1

3: Tiamoceli_73

4: MulchSalad_77

5: JoieB_12 + 6

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 04/28/24 on database version 559.

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, Huphlepuff_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, Huphlepuff_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), Huphlepuff_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: Dexdert_75 Start: 52244, Stop: 52567, Start Num: 5
Candidate Starts for Dexdert_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: Huphlepuff_12 Start: 3663, Stop: 3944, Start Num: 7
Candidate Starts for Huphlepuff_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),