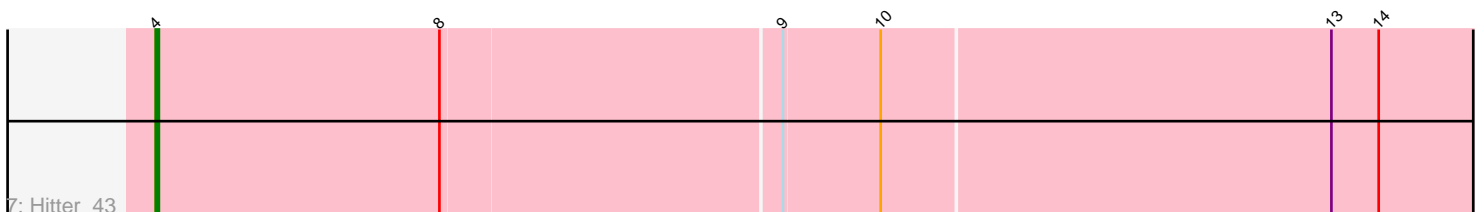
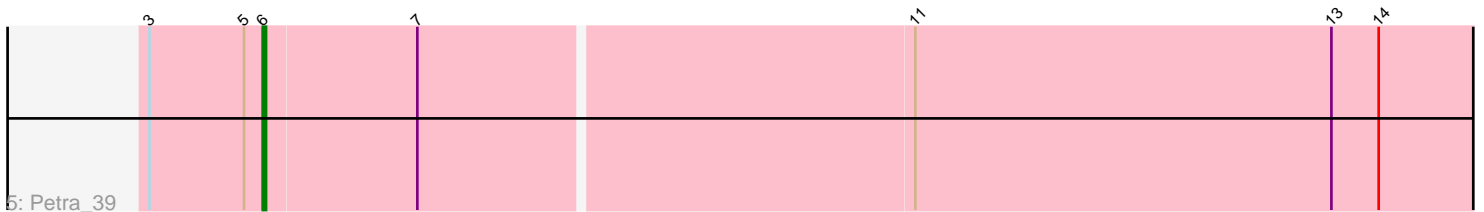
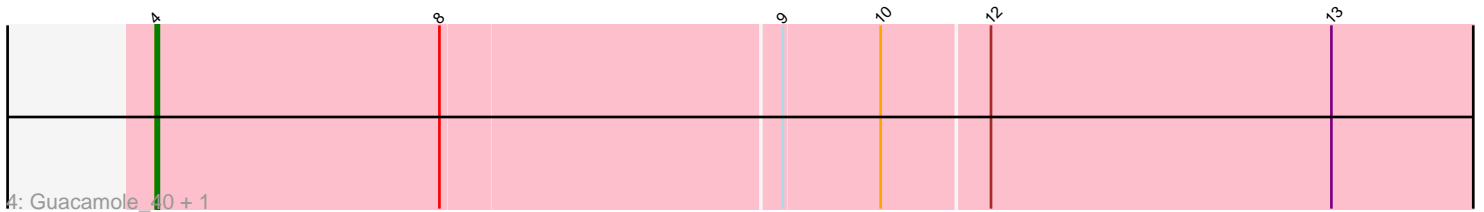
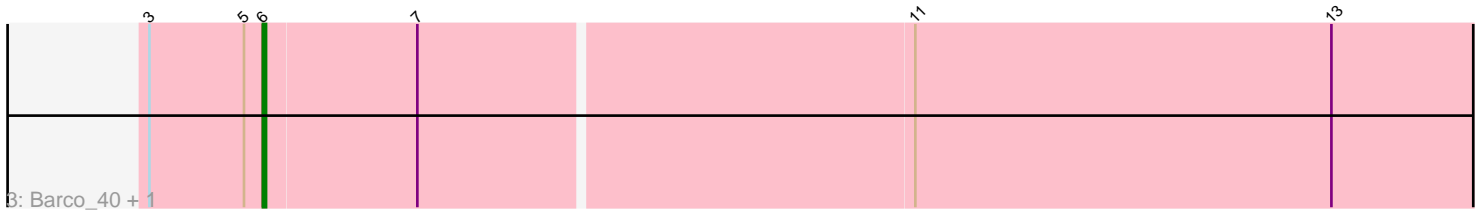
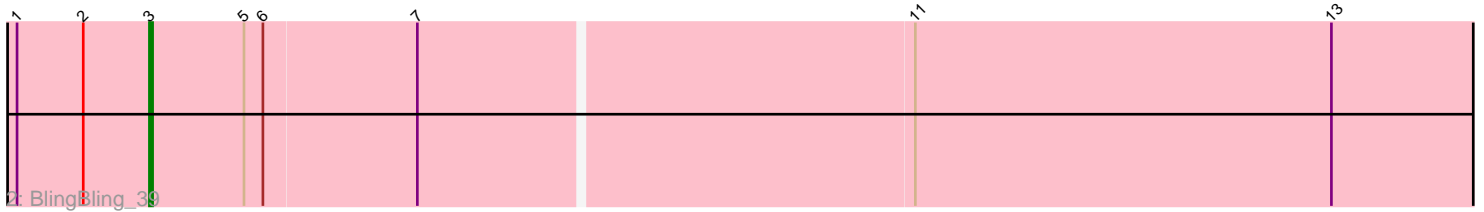
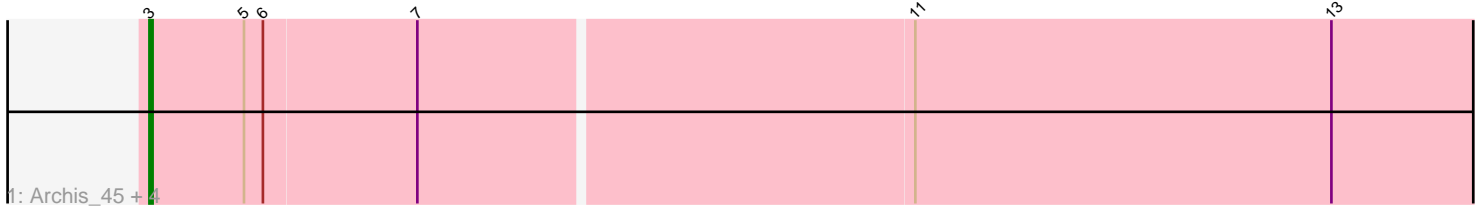


Pham 155156



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 155156 Report

This analysis was run 04/12/24 on database version 558.

Pham number 155156 has 13 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Archis\_45, MintFen\_42, Delian\_45, Zarbodnamra\_41, CaptainKirk2\_42
- Track 2 : BlingBling\_39
- Track 3 : Barco\_40, Melba\_41
- Track 4 : Guacamole\_40, JasperJr\_40
- Track 5 : Petra\_39
- Track 6 : Obliviate\_38
- Track 7 : Hitter\_43

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

The start number called the most often in the published annotations is 3, it was called in 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archis\_45, BlingBling\_39, CaptainKirk2\_42, Delian\_45, MintFen\_42, Obliviate\_38, Zarbodnamra\_41,

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

- Barco\_40, Melba\_41, Petra\_39,

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

- Guacamole\_40, Hitter\_43, JasperJr\_40,

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

Start 3:

- Found in 10 of 13 ( 76.9% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Archis\_45 (CV), BlingBling\_39 (CV), CaptainKirk2\_42 (CV), Delian\_45 (CV), MintFen\_42 (CV), Obliviate\_38 (CV), Zarbodnamra\_41 (CV),

Start 4:

- Found in 3 of 13 ( 23.1% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Guacamole\_40 (CV), Hitter\_43 (CV), JasperJr\_40 (CV),

Start 6:

- Found in 10 of 13 ( 76.9% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Barco\_40 (CV), Melba\_41 (CV), Petra\_39 (CV),

### **Summary by clusters:**

There is one cluster represented in this pham: CV

Info for manual annotations of cluster CV:

- Start number 3 was manually annotated 7 times for cluster CV.
- Start number 4 was manually annotated 3 times for cluster CV.
- Start number 6 was manually annotated 3 times for cluster CV.

### **Gene Information:**

Gene: Archis\_45 Start: 33058, Stop: 32636, Start Num: 3

Candidate Starts for Archis\_45:

(Start: 3 @33058 has 7 MA's), (5, 33028), (Start: 6 @33022 has 3 MA's), (7, 32974), (11, 32821), (13, 32689),

Gene: Barco\_40 Start: 32072, Stop: 31686, Start Num: 6

Candidate Starts for Barco\_40:

(Start: 3 @32108 has 7 MA's), (5, 32078), (Start: 6 @32072 has 3 MA's), (7, 32024), (11, 31871), (13, 31739),

Gene: BlingBling\_39 Start: 33071, Stop: 32649, Start Num: 3

Candidate Starts for BlingBling\_39:

(1, 33113), (2, 33092), (Start: 3 @33071 has 7 MA's), (5, 33041), (Start: 6 @33035 has 3 MA's), (7, 32987), (11, 32834), (13, 32702),

Gene: CaptainKirk2\_42 Start: 32356, Stop: 31934, Start Num: 3

Candidate Starts for CaptainKirk2\_42:

(Start: 3 @32356 has 7 MA's), (5, 32326), (Start: 6 @32320 has 3 MA's), (7, 32272), (11, 32119), (13, 31987),

Gene: Delian\_45 Start: 32354, Stop: 31932, Start Num: 3

Candidate Starts for Delian\_45:

(Start: 3 @32354 has 7 MA's), (5, 32324), (Start: 6 @32318 has 3 MA's), (7, 32270), (11, 32117), (13, 31985),

Gene: Guacamole\_40 Start: 32920, Stop: 32501, Start Num: 4

Candidate Starts for Guacamole\_40:

(Start: 4 @32920 has 3 MA's), (8, 32830), (9, 32725), (10, 32695), (12, 32662), (13, 32554),

Gene: Hitter\_43 Start: 32564, Stop: 32145, Start Num: 4

Candidate Starts for Hitter\_43:

(Start: 4 @32564 has 3 MA's), (8, 32474), (9, 32369), (10, 32339), (13, 32198), (14, 32183),

Gene: JasperJr\_40 Start: 32920, Stop: 32501, Start Num: 4

Candidate Starts for JasperJr\_40:

(Start: 4 @32920 has 3 MA's), (8, 32830), (9, 32725), (10, 32695), (12, 32662), (13, 32554),

Gene: Melba\_41 Start: 32860, Stop: 32474, Start Num: 6

Candidate Starts for Melba\_41:

(Start: 3 @32896 has 7 MA's), (5, 32866), (Start: 6 @32860 has 3 MA's), (7, 32812), (11, 32659), (13, 32527),

Gene: MintFen\_42 Start: 32970, Stop: 32548, Start Num: 3

Candidate Starts for MintFen\_42:

(Start: 3 @32970 has 7 MA's), (5, 32940), (Start: 6 @32934 has 3 MA's), (7, 32886), (11, 32733), (13, 32601),

Gene: Oblivate\_38 Start: 31257, Stop: 30835, Start Num: 3

Candidate Starts for Oblivate\_38:

(Start: 3 @31257 has 7 MA's), (5, 31227), (Start: 6 @31221 has 3 MA's), (7, 31173), (11, 31020), (13, 30888), (14, 30873),

Gene: Petra\_39 Start: 31580, Stop: 31194, Start Num: 6

Candidate Starts for Petra\_39:

(Start: 3 @31616 has 7 MA's), (5, 31586), (Start: 6 @31580 has 3 MA's), (7, 31532), (11, 31379), (13, 31247), (14, 31232),

Gene: Zarbodnamra\_41 Start: 32378, Stop: 31956, Start Num: 3

Candidate Starts for Zarbodnamra\_41:

(Start: 3 @32378 has 7 MA's), (5, 32348), (Start: 6 @32342 has 3 MA's), (7, 32294), (11, 32141), (13, 32009),