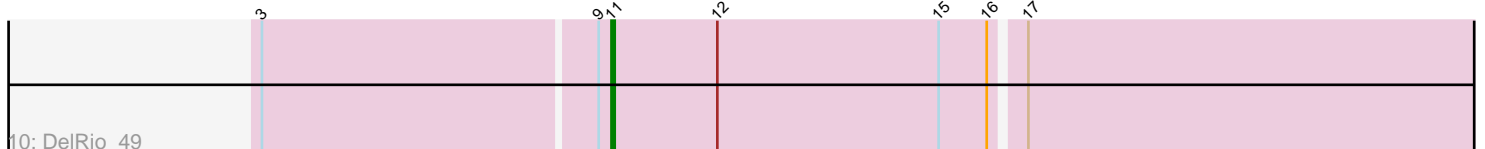
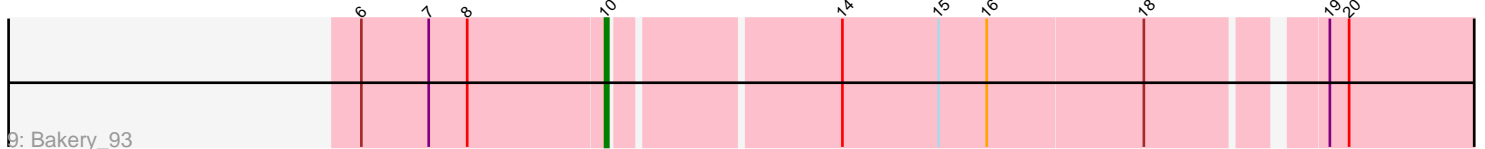
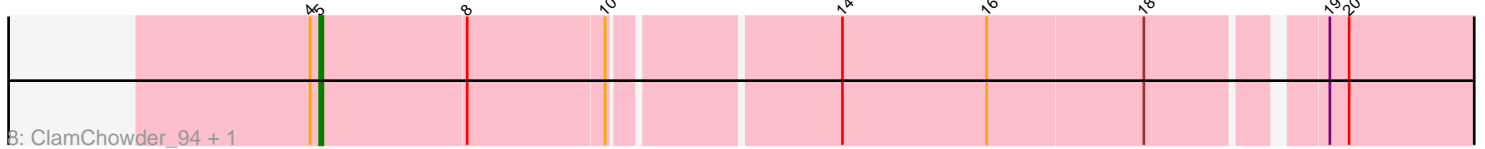
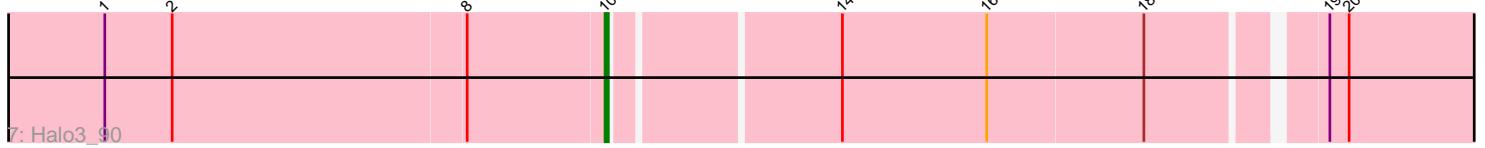
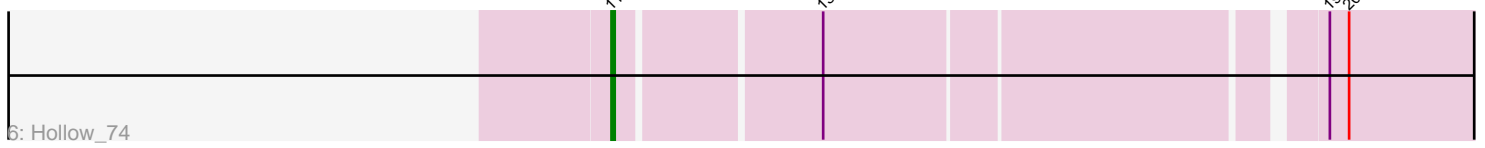
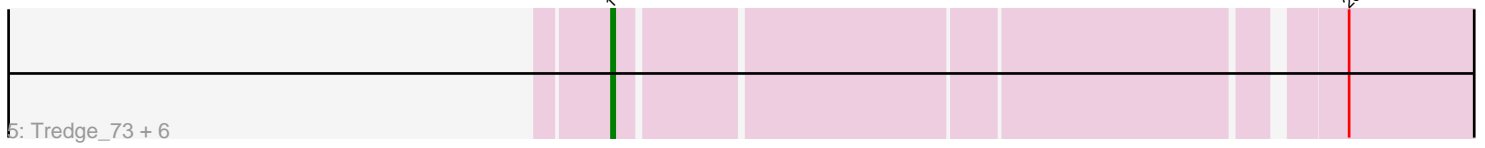
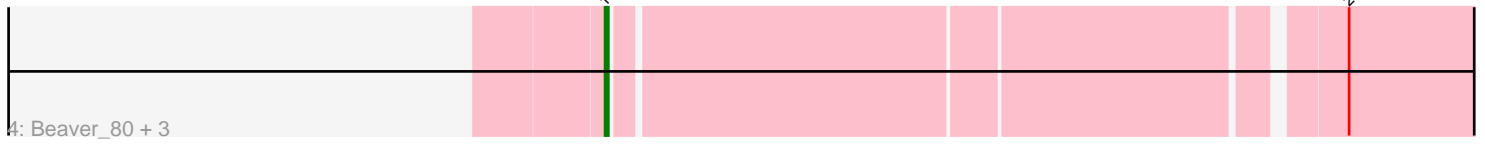
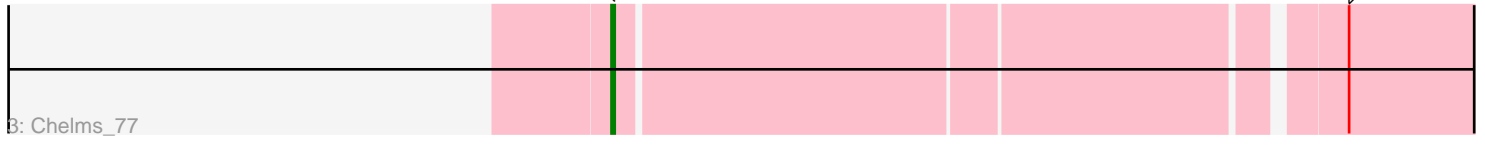
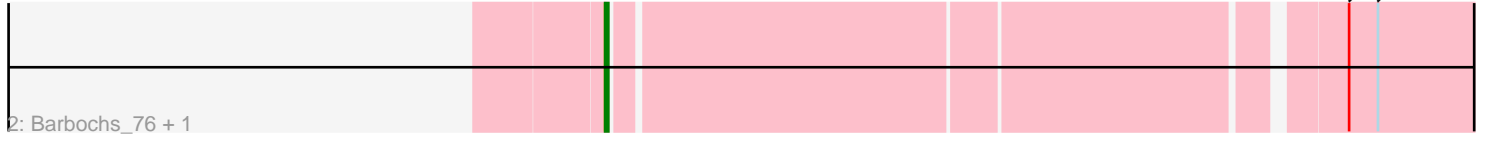
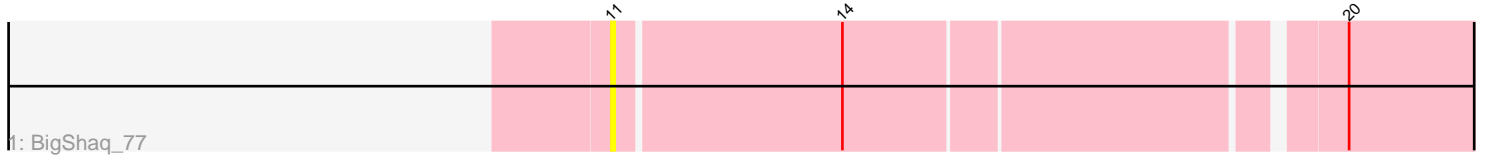


Pham 196836



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 196836 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196836 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : BigShaq\_77
- Track 2 : Barbochs\_76, Hotorobo\_77
- Track 3 : Chelms\_77
- Track 4 : Beaver\_80, Gorko\_76, Adgers\_80, Squibbles\_76
- Track 5 : Tredge\_73, Kvothe\_72, Benczkowski14\_73, Niagara\_73, Teech\_71, Katyusha\_72, Teatealatte\_74
- Track 6 : Hollow\_74
- Track 7 : Halo3\_90
- Track 8 : ClamChowder\_94, PinkCoffee\_93
- Track 9 : Bakery\_93
- Track 10 : DelRio\_49

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

The start number called the most often in the published annotations is 11, it was called in 9 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Benczkowski14\_73, BigShaq\_77, Chelms\_77, DelRio\_49, Hollow\_74, Katyusha\_72, Kvothe\_72, Niagara\_73, Teatealatte\_74, Teech\_71, Tredge\_73,

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

- 

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

- Adgers\_80, Bakery\_93, Barbochs\_76, Beaver\_80, ClamChowder\_94, Gorko\_76, Halo3\_90, Hotorobo\_77, PinkCoffee\_93, Squibbles\_76,

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

Start 5:

- Found in 2 of 21 ( 9.5% ) 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: ClamChowder\_94 (DC1), PinkCoffee\_93 (DC1),

Start 10:

- Found in 10 of 21 ( 47.6% ) of genes in pham
- Manual Annotations of this start: 6 of 17
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Adgers\_80 (CS2), Bakery\_93 (DC1), Barbochs\_76 (CS2), Beaver\_80 (CS2), Gorko\_76 (CS2), Halo3\_90 (DC1), Hotorobo\_77 (CS2), Squibbles\_76 (CS2),

Start 11:

- Found in 11 of 21 ( 52.4% ) of genes in pham
- Manual Annotations of this start: 9 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14\_73 (CS4), BigShaq\_77 (CS2), Chelms\_77 (CS2), DelRio\_49 (DI), Hollow\_74 (CS4), Katyusha\_72 (CS4), Kvothe\_72 (CS4), Niagara\_73 (CS4), Teatealatte\_74 (CS4), Teech\_71 (CS4), Tredge\_73 (CS4),

### **Summary by clusters:**

There are 4 clusters represented in this pham: CS4, CS2, DI, DC1,

Info for manual annotations of cluster CS2:

- Start number 10 was manually annotated 4 times for cluster CS2.
- Start number 11 was manually annotated 1 time for cluster CS2.

Info for manual annotations of cluster CS4:

- Start number 11 was manually annotated 7 times for cluster CS4.

Info for manual annotations of cluster DC1:

- Start number 5 was manually annotated 2 times for cluster DC1.
- Start number 10 was manually annotated 2 times for cluster DC1.

Info for manual annotations of cluster DI:

- Start number 11 was manually annotated 1 time for cluster DI.

### **Gene Information:**

Gene: Adgers\_80 Start: 60593, Stop: 60273, Start Num: 10

Candidate Starts for Adgers\_80:

(Start: 10 @60593 has 6 MA's), (20, 60380),

Gene: Bakery\_93 Start: 59467, Stop: 59129, Start Num: 10

Candidate Starts for Bakery\_93:

(6, 59542), (7, 59521), (8, 59509), (Start: 10 @59467 has 6 MA's), (14, 59401), (15, 59371), (16, 59356), (18, 59308), (19, 59260), (20, 59254),

Gene: Barbochs\_76 Start: 59970, Stop: 59629, Start Num: 10

Candidate Starts for Barbochs\_76:

(Start: 10 @59970 has 6 MA's), (20, 59757), (21, 59748),

Gene: Beaver\_80 Start: 61914, Stop: 61585, Start Num: 10

Candidate Starts for Beaver\_80:

(Start: 10 @61914 has 6 MA's), (20, 61701),

Gene: Benczkowski14\_73 Start: 60661, Stop: 60341, Start Num: 11

Candidate Starts for Benczkowski14\_73:

(Start: 11 @60661 has 9 MA's), (20, 60451),

Gene: BigShaq\_77 Start: 60737, Stop: 60411, Start Num: 11

Candidate Starts for BigShaq\_77:

(Start: 11 @60737 has 9 MA's), (14, 60668), (20, 60524),

Gene: Chelms\_77 Start: 60667, Stop: 60350, Start Num: 11

Candidate Starts for Chelms\_77:

(Start: 11 @60667 has 9 MA's), (20, 60454),

Gene: ClamChowder\_94 Start: 58597, Stop: 58172, Start Num: 5

Candidate Starts for ClamChowder\_94:

(4, 58600), (Start: 5 @58597 has 2 MA's), (8, 58552), (Start: 10 @58510 has 6 MA's), (14, 58444), (16, 58399), (18, 58351), (19, 58303), (20, 58297),

Gene: DelRio\_49 Start: 36105, Stop: 36449, Start Num: 11

Candidate Starts for DelRio\_49:

(3, 36000), (9, 36102), (Start: 11 @36105 has 9 MA's), (12, 36138), (15, 36207), (16, 36222), (17, 36231),

Gene: Gorko\_76 Start: 59788, Stop: 59468, Start Num: 10

Candidate Starts for Gorko\_76:

(Start: 10 @59788 has 6 MA's), (20, 59575),

Gene: Halo3\_90 Start: 58179, Stop: 57841, Start Num: 10

Candidate Starts for Halo3\_90:

(1, 58332), (2, 58311), (8, 58221), (Start: 10 @58179 has 6 MA's), (14, 58113), (16, 58068), (18, 58020), (19, 57972), (20, 57966),

Gene: Hollow\_74 Start: 60832, Stop: 60512, Start Num: 11

Candidate Starts for Hollow\_74:

(Start: 11 @60832 has 9 MA's), (13, 60772), (19, 60628), (20, 60622),

Gene: Hotorobo\_77 Start: 60751, Stop: 60410, Start Num: 10

Candidate Starts for Hotorobo\_77:

(Start: 10 @60751 has 6 MA's), (20, 60538), (21, 60529),

Gene: Katyusha\_72 Start: 60661, Stop: 60341, Start Num: 11

Candidate Starts for Katyusha\_72:

(Start: 11 @60661 has 9 MA's), (20, 60451),

Gene: Kvothe\_72 Start: 60503, Stop: 60183, Start Num: 11

Candidate Starts for Kvothe\_72:

(Start: 11 @60503 has 9 MA's), (20, 60293),

Gene: Niagara\_73 Start: 60594, Stop: 60274, Start Num: 11

Candidate Starts for Niagara\_73:

(Start: 11 @60594 has 9 MA's), (20, 60384),

Gene: PinkCoffee\_93 Start: 57642, Stop: 57217, Start Num: 5

Candidate Starts for PinkCoffee\_93:

(4, 57645), (Start: 5 @57642 has 2 MA's), (8, 57597), (Start: 10 @57555 has 6 MA's), (14, 57489),  
(16, 57444), (18, 57396), (19, 57348), (20, 57342),

Gene: Squibbles\_76 Start: 60731, Stop: 60402, Start Num: 10

Candidate Starts for Squibbles\_76:

(Start: 10 @60731 has 6 MA's), (20, 60518),

Gene: Teatealatte\_74 Start: 60491, Stop: 60171, Start Num: 11

Candidate Starts for Teatealatte\_74:

(Start: 11 @60491 has 9 MA's), (20, 60281),

Gene: Teech\_71 Start: 60307, Stop: 59987, Start Num: 11

Candidate Starts for Teech\_71:

(Start: 11 @60307 has 9 MA's), (20, 60097),

Gene: Tredge\_73 Start: 60491, Stop: 60171, Start Num: 11

Candidate Starts for Tredge\_73:

(Start: 11 @60491 has 9 MA's), (20, 60281),