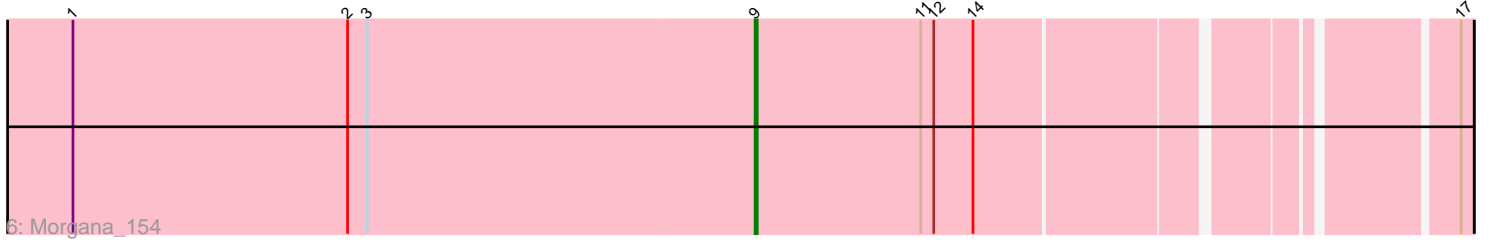
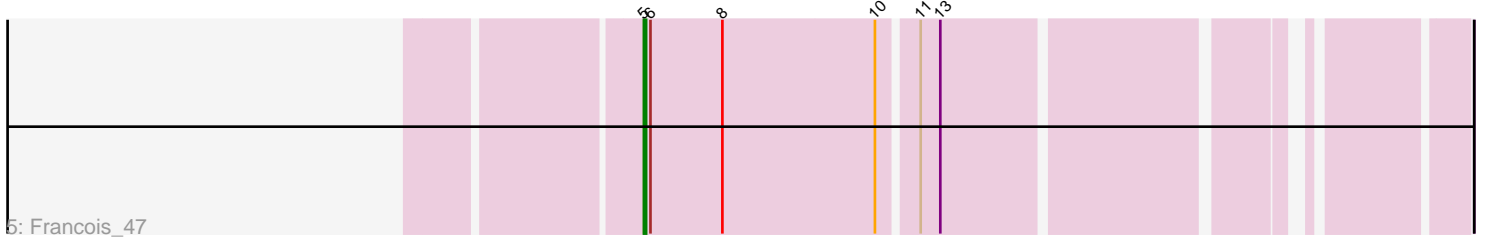
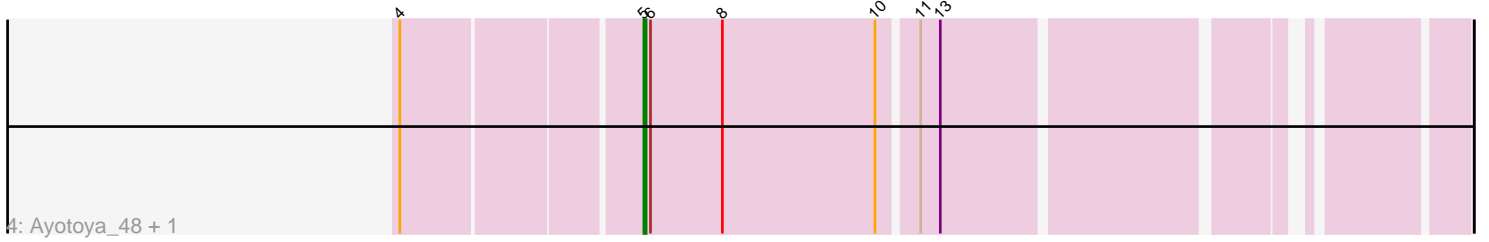
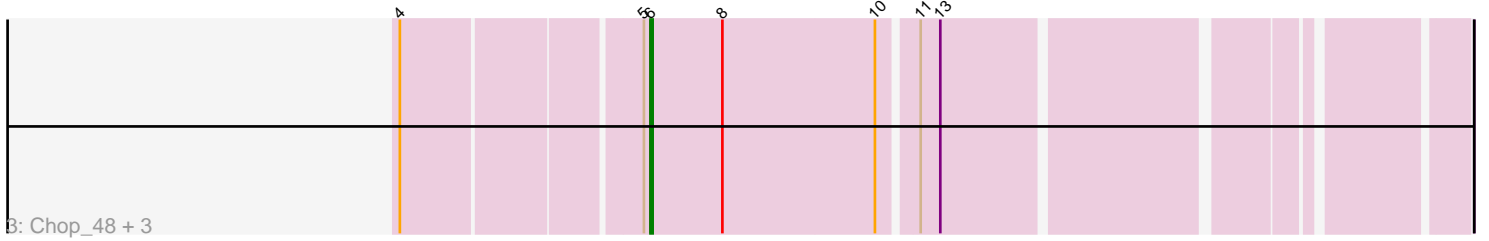
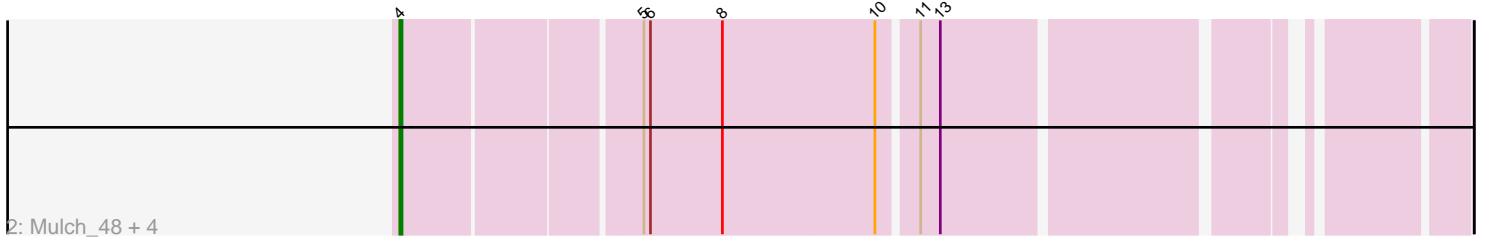
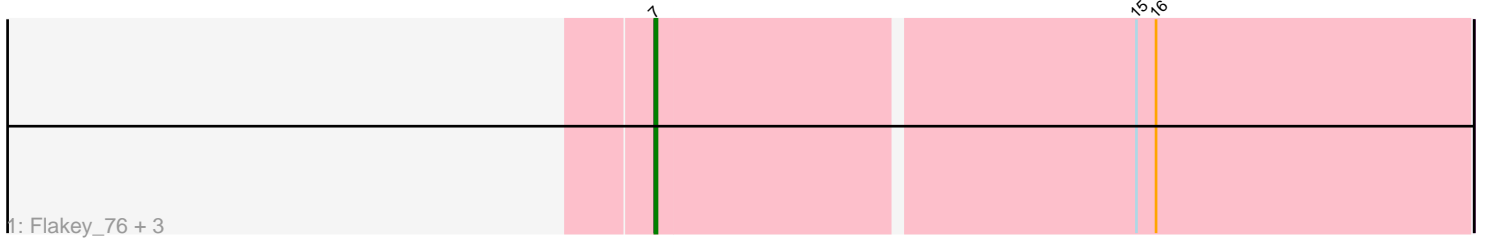


Pham 196897



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 196897 Report

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

Pham number 196897 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Flakey_76, Monty_76, Lizzo_77, CathyBurgh_76
- Track 2 : Mulch_48, Bock_48, BetterKatz_48, Pimento_49, Brylie_48
- Track 3 : Chop_48, Parada_48, Hamood_48, GrandSlam_48
- Track 4 : Ayotoya_48, Nadeem_48
- Track 5 : Francois_47
- Track 6 : Morgana_154

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BetterKatz_48, Bock_48, Brylie_48, Mulch_48, Pimento_49,

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

- Ayotoya_48, Chop_48, GrandSlam_48, Hamood_48, Nadeem_48, Parada_48,

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

- CathyBurgh_76, Flakey_76, Francois_47, Lizzo_77, Monty_76, Morgana_154,

Summary by start number:

Start 4:

- Found in 11 of 17 (64.7%) of genes in pham
- Manual Annotations of this start: 5 of 16
- Called 45.5% of time when present
- Phage (with cluster) where this start called: BetterKatz_48 (DI), Bock_48 (DI), Brylie_48 (DI), Mulch_48 (DI), Pimento_49 (DI),

Start 5:

- Found in 12 of 17 (70.6%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 25.0% of time when present

- Phage (with cluster) where this start called: Ayotoya_48 (DI), Francois_47 (DI), Nadeem_48 (DI),

Start 6:

- Found in 12 of 17 (70.6%) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Chop_48 (DI), GrandSlam_48 (DI), Hamood_48 (DI), Parada_48 (DI),

Start 7:

- Found in 4 of 17 (23.5%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CathyBurgh_76 (CS2), Flakey_76 (CS2), Lizzo_77 (CS2), Monty_76 (CS2),

Start 9:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morgana_154 (DZ),

Summary by clusters:

There are 3 clusters represented in this pham: CS2, DZ, DI,

Info for manual annotations of cluster CS2:

- Start number 7 was manually annotated 3 times for cluster CS2.

Info for manual annotations of cluster DI:

- Start number 4 was manually annotated 5 times for cluster DI.
- Start number 5 was manually annotated 3 times for cluster DI.
- Start number 6 was manually annotated 4 times for cluster DI.

Info for manual annotations of cluster DZ:

- Start number 9 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: Ayotoya_48 Start: 35650, Stop: 35985, Start Num: 5

Candidate Starts for Ayotoya_48:

(Start: 4 @35548 has 5 MA's), (Start: 5 @35650 has 3 MA's), (Start: 6 @35653 has 4 MA's), (8, 35686), (10, 35755), (11, 35770), (13, 35779),

Gene: BetterKatz_48 Start: 35022, Stop: 35471, Start Num: 4

Candidate Starts for BetterKatz_48:

(Start: 4 @35022 has 5 MA's), (Start: 5 @35124 has 3 MA's), (Start: 6 @35127 has 4 MA's), (8, 35160), (10, 35229), (11, 35244), (13, 35253),

Gene: Bock_48 Start: 34771, Stop: 35208, Start Num: 4

Candidate Starts for Bock_48:

(Start: 4 @34771 has 5 MA's), (Start: 5 @34873 has 3 MA's), (Start: 6 @34876 has 4 MA's), (8, 34909), (10, 34978), (11, 34993), (13, 35002),

Gene: Brylie_48 Start: 34818, Stop: 35255, Start Num: 4

Candidate Starts for Brylie_48:

(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 3 MA's), (Start: 6 @34923 has 4 MA's), (8, 34956), (10, 35025), (11, 35040), (13, 35049),

Gene: CathyBurgh_76 Start: 60701, Stop: 60336, Start Num: 7

Candidate Starts for CathyBurgh_76:

(Start: 7 @60701 has 3 MA's), (15, 60488), (16, 60479),

Gene: Chop_48 Start: 35400, Stop: 35738, Start Num: 6

Candidate Starts for Chop_48:

(Start: 4 @35295 has 5 MA's), (Start: 5 @35397 has 3 MA's), (Start: 6 @35400 has 4 MA's), (8, 35433), (10, 35502), (11, 35517), (13, 35526),

Gene: Flakey_76 Start: 60687, Stop: 60322, Start Num: 7

Candidate Starts for Flakey_76:

(Start: 7 @60687 has 3 MA's), (15, 60474), (16, 60465),

Gene: Francois_47 Start: 34916, Stop: 35251, Start Num: 5

Candidate Starts for Francois_47:

(Start: 5 @34916 has 3 MA's), (Start: 6 @34919 has 4 MA's), (8, 34952), (10, 35021), (11, 35036), (13, 35045),

Gene: GrandSlam_48 Start: 35400, Stop: 35738, Start Num: 6

Candidate Starts for GrandSlam_48:

(Start: 4 @35295 has 5 MA's), (Start: 5 @35397 has 3 MA's), (Start: 6 @35400 has 4 MA's), (8, 35433), (10, 35502), (11, 35517), (13, 35526),

Gene: Hamood_48 Start: 35400, Stop: 35738, Start Num: 6

Candidate Starts for Hamood_48:

(Start: 4 @35295 has 5 MA's), (Start: 5 @35397 has 3 MA's), (Start: 6 @35400 has 4 MA's), (8, 35433), (10, 35502), (11, 35517), (13, 35526),

Gene: Lizzo_77 Start: 60701, Stop: 60336, Start Num: 7

Candidate Starts for Lizzo_77:

(Start: 7 @60701 has 3 MA's), (15, 60488), (16, 60479),

Gene: Monty_76 Start: 59914, Stop: 59549, Start Num: 7

Candidate Starts for Monty_76:

(Start: 7 @59914 has 3 MA's), (15, 59701), (16, 59692),

Gene: Morgana_154 Start: 78675, Stop: 78376, Start Num: 9

Candidate Starts for Morgana_154:

(1, 78987), (2, 78861), (3, 78852), (Start: 9 @78675 has 1 MA's), (11, 78600), (12, 78594), (14, 78576), (17, 78381),

Gene: Mulch_48 Start: 34818, Stop: 35255, Start Num: 4

Candidate Starts for Mulch_48:

(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 3 MA's), (Start: 6 @34923 has 4 MA's), (8, 34956), (10, 35025), (11, 35040), (13, 35049),

Gene: Nadeem_48 Start: 34920, Stop: 35255, Start Num: 5

Candidate Starts for Nadeem_48:

(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 3 MA's), (Start: 6 @34923 has 4 MA's), (8, 34956), (10, 35025), (11, 35040), (13, 35049),

Gene: Parada_48 Start: 34923, Stop: 35255, Start Num: 6

Candidate Starts for Parada_48:

(Start: 4 @34818 has 5 MA's), (Start: 5 @34920 has 3 MA's), (Start: 6 @34923 has 4 MA's), (8, 34956), (10, 35025), (11, 35040), (13, 35049),

Gene: Pimento_49 Start: 34409, Stop: 34852, Start Num: 4

Candidate Starts for Pimento_49:

(Start: 4 @34409 has 5 MA's), (Start: 5 @34511 has 3 MA's), (Start: 6 @34514 has 4 MA's), (8, 34547), (10, 34616), (11, 34631), (13, 34640),