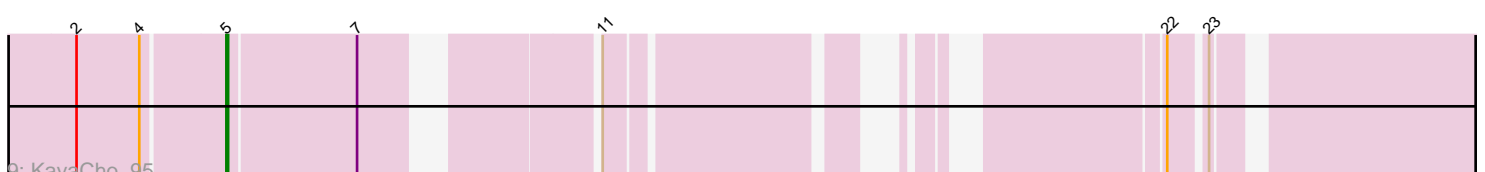
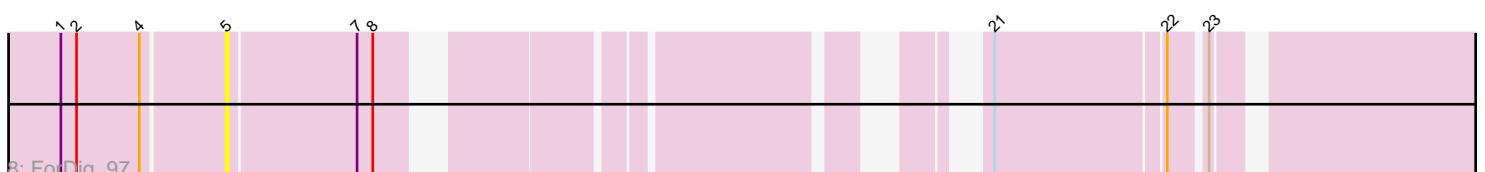
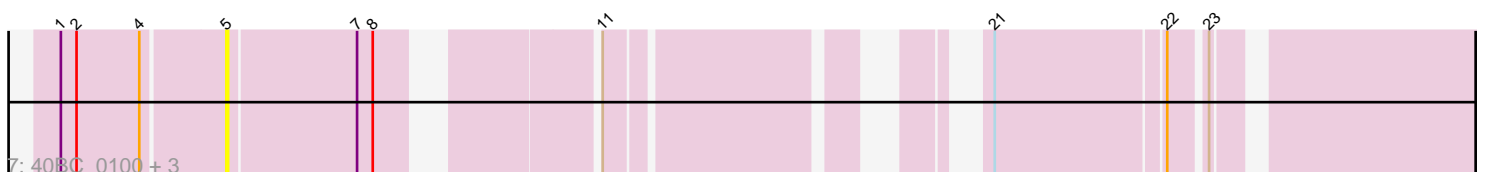
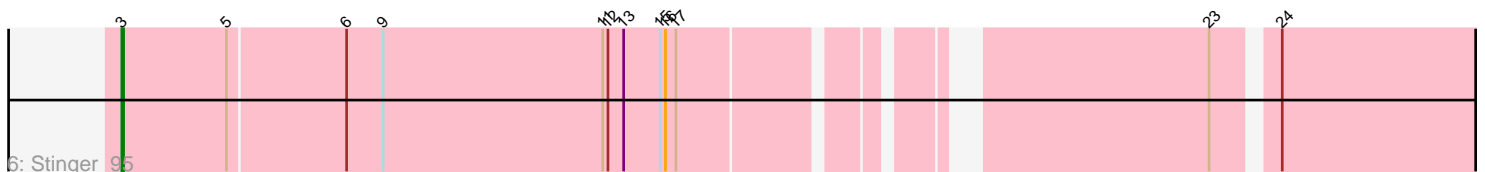
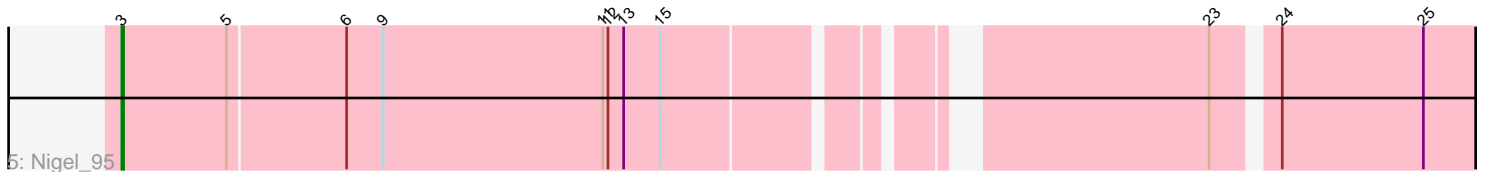
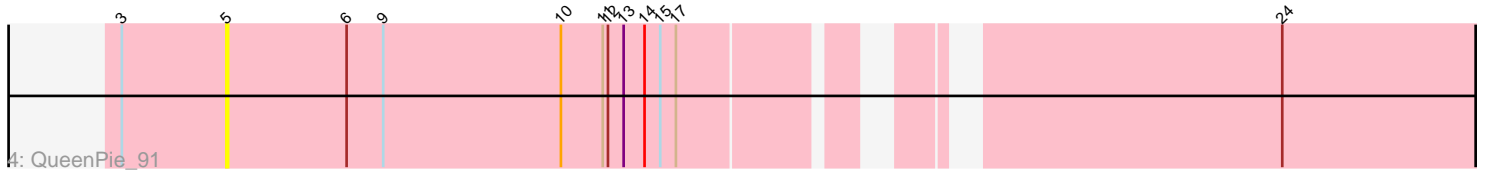
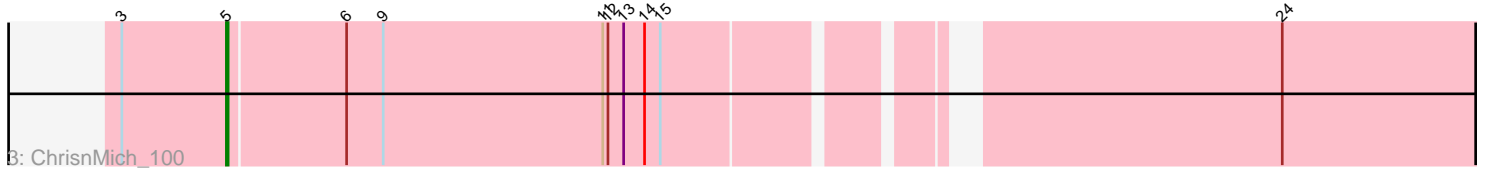
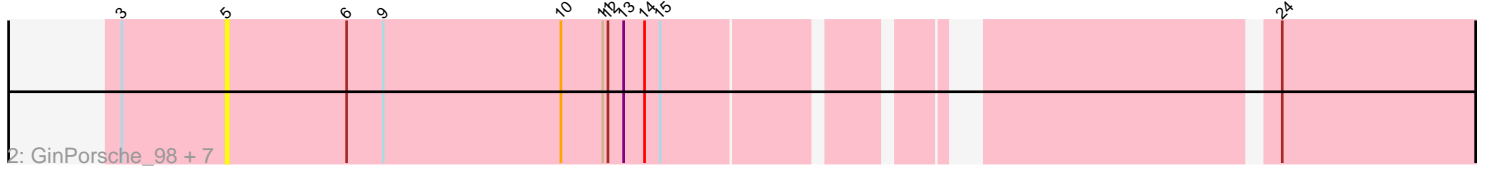
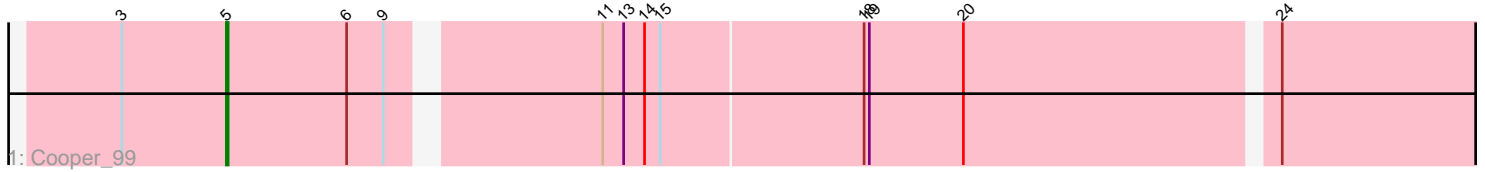


Pham 221808



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 221808 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221808 has 19 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Cooper\_99
- Track 2 : GinPorsche\_98, Hally898\_96, Ahwei\_96, Poster\_97, Nanao\_98, Antihero\_98, Epah\_98, Lambano\_96
- Track 3 : ChrisnMich\_100
- Track 4 : QueenPie\_91
- Track 5 : Nigel\_95
- Track 6 : Stinger\_95
- Track 7 : 40BC\_0100, Hosp\_095, Jolie1\_098, 39HC\_0100
- Track 8 : ForDig\_97
- Track 9 : KayaCho\_95

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

The start number called the most often in the published annotations is 5, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC\_0100, 40BC\_0100, Ahwei\_96, Antihero\_98, ChrisnMich\_100, Cooper\_99, Epah\_98, ForDig\_97, GinPorsche\_98, Hally898\_96, Hosp\_095, Jolie1\_098, KayaCho\_95, Lambano\_96, Nanao\_98, Poster\_97, QueenPie\_91,

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

- Nigel\_95, Stinger\_95,

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

- 

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

Start 3:

- Found in 13 of 19 ( 68.4% ) of genes in pham
- Manual Annotations of this start: 2 of 5
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Nigel\_95 (B4), Stinger\_95 (B4),

Start 5:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 5
- Called 89.5% of time when present
- Phage (with cluster) where this start called: 39HC\_0100 (B6), 40BC\_0100 (B6), Ahwei\_96 (B4), Antihero\_98 (B4), ChrisnMich\_100 (B4), Cooper\_99 (B4), Epah\_98 (B4), ForDig\_97 (B6), GinPorsche\_98 (B4), Hally898\_96 (B4), Hosp\_095 (B6), Jolie1\_098 (B6), KayaCho\_95 (B6), Lambano\_96 (B4), Nanao\_98 (B4), Poster\_97 (B4), QueenPie\_91 (B4),

**Summary by clusters:**

There are 2 clusters represented in this pham: B4, B6,

Info for manual annotations of cluster B4:

- Start number 3 was manually annotated 2 times for cluster B4.
- Start number 5 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B6:

- Start number 5 was manually annotated 1 time for cluster B6.

**Gene Information:**

Gene: 39HC\_0100 Start: 71338, Stop: 70730, Start Num: 5

Candidate Starts for 39HC\_0100:

(1, 71428), (2, 71419), (4, 71383), (Start: 5 @71338 has 3 MA's), (7, 71266), (8, 71257), (11, 71158), (21, 70999), (22, 70906), (23, 70888),

Gene: 40BC\_0100 Start: 71338, Stop: 70730, Start Num: 5

Candidate Starts for 40BC\_0100:

(1, 71428), (2, 71419), (4, 71383), (Start: 5 @71338 has 3 MA's), (7, 71266), (8, 71257), (11, 71158), (21, 70999), (22, 70906), (23, 70888),

Gene: Ahwei\_96 Start: 70567, Stop: 69878, Start Num: 5

Candidate Starts for Ahwei\_96:

(Start: 3 @70627 has 2 MA's), (Start: 5 @70567 has 3 MA's), (6, 70498), (9, 70477), (10, 70375), (11, 70351), (12, 70348), (13, 70339), (14, 70327), (15, 70318), (24, 70018),

Gene: Antihero\_98 Start: 70492, Stop: 69803, Start Num: 5

Candidate Starts for Antihero\_98:

(Start: 3 @70552 has 2 MA's), (Start: 5 @70492 has 3 MA's), (6, 70423), (9, 70402), (10, 70300), (11, 70276), (12, 70273), (13, 70264), (14, 70252), (15, 70243), (24, 69943),

Gene: ChrisnMich\_100 Start: 70192, Stop: 69494, Start Num: 5

Candidate Starts for ChrisnMich\_100:

(Start: 3 @70252 has 2 MA's), (Start: 5 @70192 has 3 MA's), (6, 70126), (9, 70105), (11, 69979), (12, 69976), (13, 69967), (14, 69955), (15, 69946), (24, 69634),

Gene: Cooper\_99 Start: 70418, Stop: 69705, Start Num: 5

Candidate Starts for Cooper\_99:

(Start: 3 @70478 has 2 MA's), (Start: 5 @70418 has 3 MA's), (6, 70349), (9, 70328), (11, 70220), (13, 70208), (14, 70196), (15, 70187), (18, 70073), (19, 70070), (20, 70016), (24, 69845),

Gene: Epah\_98 Start: 70492, Stop: 69803, Start Num: 5

Candidate Starts for Epah\_98:

(Start: 3 @70552 has 2 MA's), (Start: 5 @70492 has 3 MA's), (6, 70423), (9, 70402), (10, 70300), (11, 70276), (12, 70273), (13, 70264), (14, 70252), (15, 70243), (24, 69943),

Gene: ForDig\_97 Start: 70596, Stop: 69988, Start Num: 5

Candidate Starts for ForDig\_97:

(1, 70686), (2, 70677), (4, 70641), (Start: 5 @70596 has 3 MA's), (7, 70524), (8, 70515), (21, 70257), (22, 70164), (23, 70146),

Gene: GinPorsche\_98 Start: 70489, Stop: 69800, Start Num: 5

Candidate Starts for GinPorsche\_98:

(Start: 3 @70549 has 2 MA's), (Start: 5 @70489 has 3 MA's), (6, 70420), (9, 70399), (10, 70297), (11, 70273), (12, 70270), (13, 70261), (14, 70249), (15, 70240), (24, 69940),

Gene: Hally898\_96 Start: 70329, Stop: 69640, Start Num: 5

Candidate Starts for Hally898\_96:

(Start: 3 @70389 has 2 MA's), (Start: 5 @70329 has 3 MA's), (6, 70260), (9, 70239), (10, 70137), (11, 70113), (12, 70110), (13, 70101), (14, 70089), (15, 70080), (24, 69780),

Gene: Hosp\_095 Start: 68642, Stop: 68034, Start Num: 5

Candidate Starts for Hosp\_095:

(1, 68732), (2, 68723), (4, 68687), (Start: 5 @68642 has 3 MA's), (7, 68570), (8, 68561), (11, 68462), (21, 68303), (22, 68210), (23, 68192),

Gene: Jolie1\_098 Start: 70831, Stop: 70223, Start Num: 5

Candidate Starts for Jolie1\_098:

(1, 70921), (2, 70912), (4, 70876), (Start: 5 @70831 has 3 MA's), (7, 70759), (8, 70750), (11, 70651), (21, 70492), (22, 70399), (23, 70381),

Gene: KayaCho\_95 Start: 70610, Stop: 70008, Start Num: 5

Candidate Starts for KayaCho\_95:

(2, 70691), (4, 70655), (Start: 5 @70610 has 3 MA's), (7, 70538), (11, 70430), (22, 70184), (23, 70166),

Gene: Lambano\_96 Start: 70329, Stop: 69640, Start Num: 5

Candidate Starts for Lambano\_96:

(Start: 3 @70389 has 2 MA's), (Start: 5 @70329 has 3 MA's), (6, 70260), (9, 70239), (10, 70137), (11, 70113), (12, 70110), (13, 70101), (14, 70089), (15, 70080), (24, 69780),

Gene: Nanao\_98 Start: 70342, Stop: 69653, Start Num: 5

Candidate Starts for Nanao\_98:

(Start: 3 @70402 has 2 MA's), (Start: 5 @70342 has 3 MA's), (6, 70273), (9, 70252), (10, 70150), (11, 70126), (12, 70123), (13, 70114), (14, 70102), (15, 70093), (24, 69793),

Gene: Nigel\_95 Start: 69728, Stop: 68988, Start Num: 3

Candidate Starts for Nigel\_95:

(Start: 3 @69728 has 2 MA's), (Start: 5 @69668 has 3 MA's), (6, 69602), (9, 69581), (11, 69455), (12, 69452), (13, 69443), (15, 69422), (23, 69155), (24, 69125), (25, 69044),

Gene: Poster\_97 Start: 70343, Stop: 69654, Start Num: 5

Candidate Starts for Poster\_97:

(Start: 3 @70403 has 2 MA's), (Start: 5 @70343 has 3 MA's), (6, 70274), (9, 70253), (10, 70151), (11, 70127), (12, 70124), (13, 70115), (14, 70103), (15, 70094), (24, 69794),

Gene: QueenPie\_91 Start: 70092, Stop: 69403, Start Num: 5

Candidate Starts for QueenPie\_91:

(Start: 3 @70152 has 2 MA's), (Start: 5 @70092 has 3 MA's), (6, 70023), (9, 70002), (10, 69900), (11, 69876), (12, 69873), (13, 69864), (14, 69852), (15, 69843), (17, 69834), (24, 69543),

Gene: Stinger\_95 Start: 69465, Stop: 68722, Start Num: 3

Candidate Starts for Stinger\_95:

(Start: 3 @69465 has 2 MA's), (Start: 5 @69405 has 3 MA's), (6, 69339), (9, 69318), (11, 69192), (12, 69189), (13, 69180), (15, 69159), (16, 69156), (17, 69150), (23, 68892), (24, 68862),