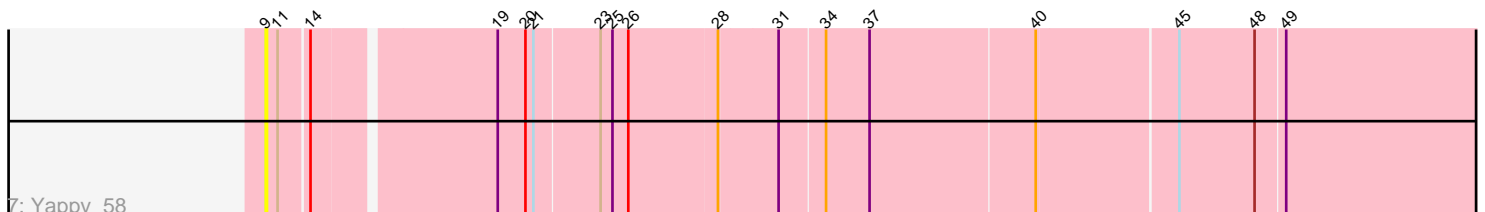
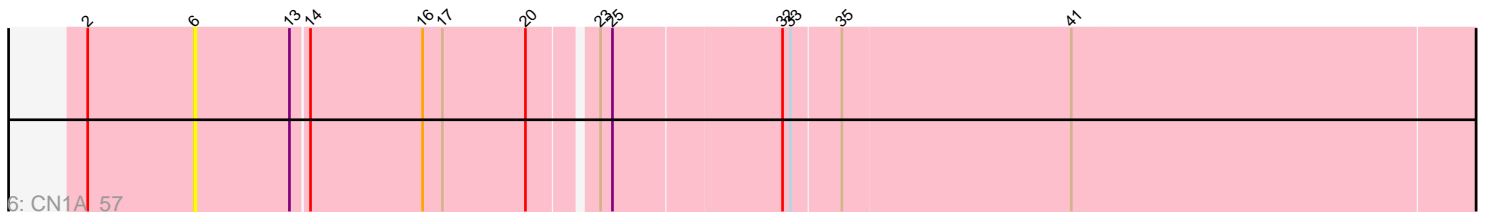
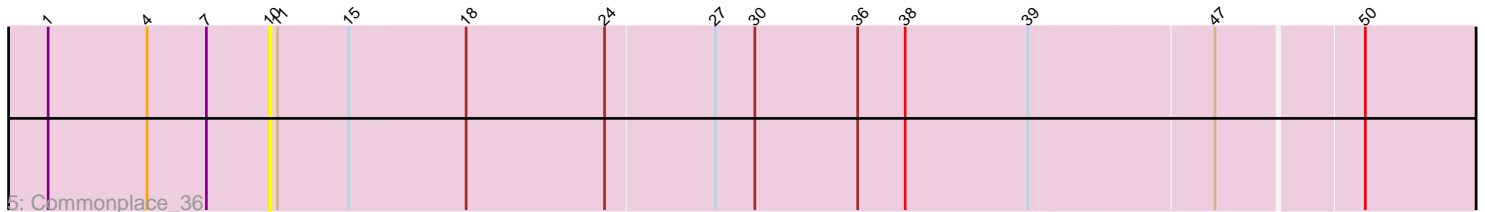
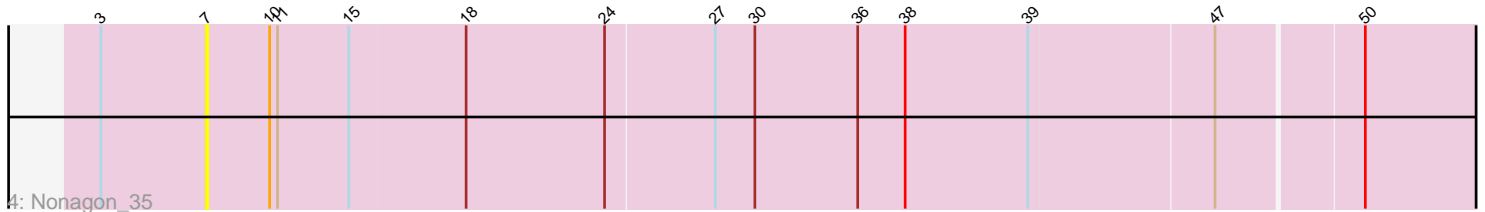
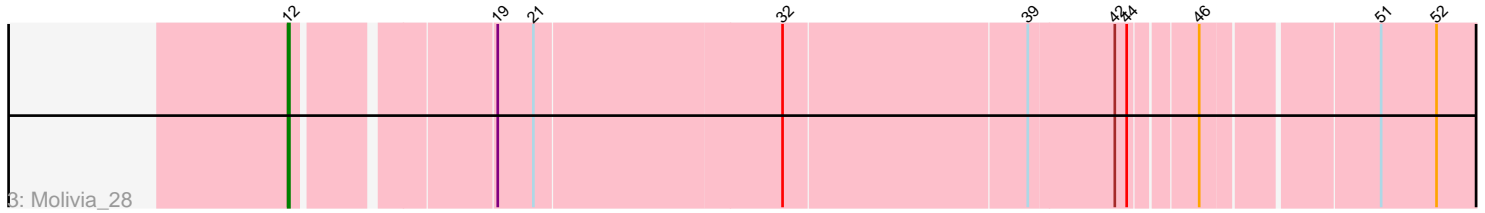
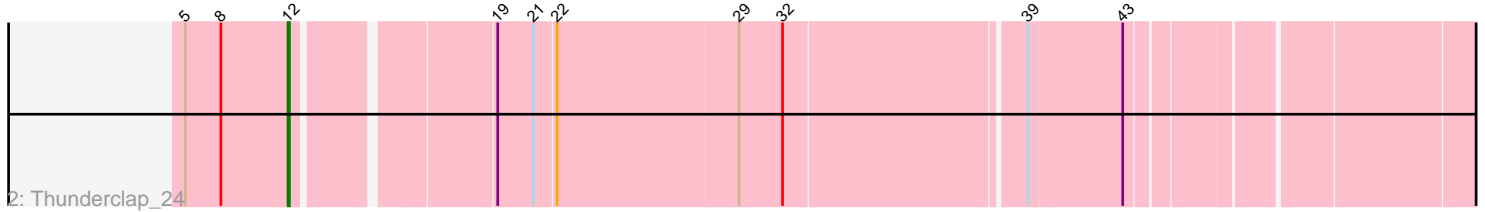
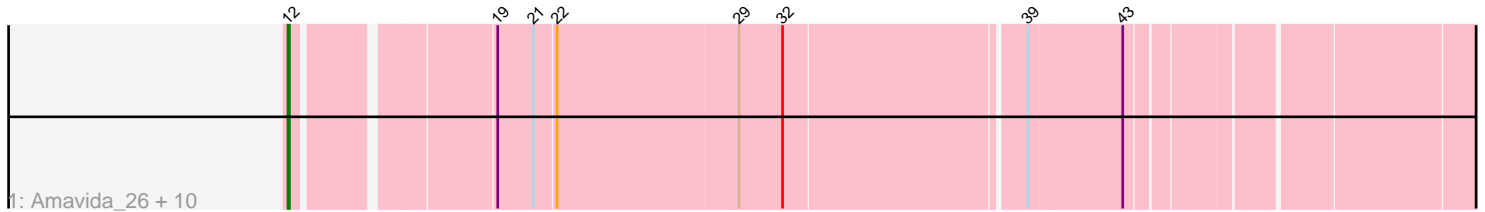


# Pham 194409



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 194409 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194409 has 17 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Amavida\_26, Heylee\_26, Anansi\_24, Gorgeous\_24, Ichor\_23, Amigo\_24, Jaek\_23, Yeezus\_23, Rings\_23, SorJuana\_24, Boersma\_25
- Track 2 : Thunderclap\_24
- Track 3 : Molivia\_28
- Track 4 : Nonagon\_35
- Track 5 : Commonplace\_36
- Track 6 : CN1A\_57
- Track 7 : Yappy\_58

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

The start number called the most often in the published annotations is 12, it was called in 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amavida\_26, Amigo\_24, Anansi\_24, Boersma\_25, Gorgeous\_24, Heylee\_26, Ichor\_23, Jaek\_23, Molivia\_28, Rings\_23, SorJuana\_24, Thunderclap\_24, Yeezus\_23,

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

- 

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

- CN1A\_57, Commonplace\_36, Nonagon\_35, Yappy\_58,

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

Start 6:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CN1A\_57 (singleton),

Start 7:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Nonagon\_35 (JD),

Start 9:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yappy\_58 (singleton),

Start 10:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Commonplace\_36 (JD),

Start 12:

- Found in 13 of 17 ( 76.5% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amavida\_26 (AQ), Amigo\_24 (AQ), Anansi\_24 (AQ), Boersma\_25 (AQ), Gorgeous\_24 (AQ), Heylee\_26 (AQ), Ichor\_23 (AQ), Jaek\_23 (AQ), Molivia\_28 (AQ), Rings\_23 (AQ), SorJuana\_24 (AQ), Thunderclap\_24 (AQ), Yeezus\_23 (AQ),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AQ, JD, singleton,

Info for manual annotations of cluster AQ:

- Start number 12 was manually annotated 13 times for cluster AQ.

### ***Gene Information:***

Gene: Amavida\_26 Start: 11936, Stop: 12838, Start Num: 12

Candidate Starts for Amavida\_26:

(Start: 12 @11936 has 13 MA's), (19, 12071), (21, 12098), (22, 12113), (29, 12248), (32, 12281), (39, 12455), (43, 12524),

Gene: Amigo\_24 Start: 11810, Stop: 12712, Start Num: 12

Candidate Starts for Amigo\_24:

(Start: 12 @11810 has 13 MA's), (19, 11945), (21, 11972), (22, 11987), (29, 12122), (32, 12155), (39, 12329), (43, 12398),

Gene: Anansi\_24 Start: 11819, Stop: 12721, Start Num: 12

Candidate Starts for Anansi\_24:

(Start: 12 @11819 has 13 MA's), (19, 11954), (21, 11981), (22, 11996), (29, 12131), (32, 12164), (39, 12338), (43, 12407),

Gene: Boersma\_25 Start: 11810, Stop: 12712, Start Num: 12

Candidate Starts for Boersma\_25:

(Start: 12 @11810 has 13 MA's), (19, 11945), (21, 11972), (22, 11987), (29, 12122), (32, 12155), (39, 12329), (43, 12398),

Gene: CN1A\_57 Start: 45536, Stop: 44523, Start Num: 6

Candidate Starts for CN1A\_57:

(2, 45617), (6, 45536), (13, 45464), (14, 45452), (16, 45368), (17, 45353), (20, 45290), (23, 45245), (25, 45236), (32, 45113), (33, 45107), (35, 45071), (41, 44900),

Gene: Commonplace\_36 Start: 16981, Stop: 17955, Start Num: 10

Candidate Starts for Commonplace\_36:

(1, 16813), (4, 16888), (7, 16933), (10, 16981), (11, 16987), (15, 17041), (18, 17128), (24, 17233), (27, 17314), (30, 17344), (36, 17422), (38, 17458), (39, 17551), (47, 17686), (50, 17791),

Gene: Gorgeous\_24 Start: 11819, Stop: 12721, Start Num: 12

Candidate Starts for Gorgeous\_24:

(Start: 12 @11819 has 13 MA's), (19, 11954), (21, 11981), (22, 11996), (29, 12131), (32, 12164), (39, 12338), (43, 12407),

Gene: Heylee\_26 Start: 11936, Stop: 12838, Start Num: 12

Candidate Starts for Heylee\_26:

(Start: 12 @11936 has 13 MA's), (19, 12071), (21, 12098), (22, 12113), (29, 12248), (32, 12281), (39, 12455), (43, 12524),

Gene: Ichor\_23 Start: 11810, Stop: 12712, Start Num: 12

Candidate Starts for Ichor\_23:

(Start: 12 @11810 has 13 MA's), (19, 11945), (21, 11972), (22, 11987), (29, 12122), (32, 12155), (39, 12329), (43, 12398),

Gene: Jaek\_23 Start: 11810, Stop: 12712, Start Num: 12

Candidate Starts for Jaek\_23:

(Start: 12 @11810 has 13 MA's), (19, 11945), (21, 11972), (22, 11987), (29, 12122), (32, 12155), (39, 12329), (43, 12398),

Gene: Molivia\_28 Start: 12093, Stop: 13004, Start Num: 12

Candidate Starts for Molivia\_28:

(Start: 12 @12093 has 13 MA's), (19, 12228), (21, 12255), (32, 12438), (39, 12618), (42, 12681), (44, 12690), (46, 12735), (51, 12858), (52, 12900),

Gene: Nonagon\_35 Start: 16633, Stop: 17655, Start Num: 7

Candidate Starts for Nonagon\_35:

(3, 16555), (7, 16633), (10, 16681), (11, 16687), (15, 16741), (18, 16828), (24, 16933), (27, 17014), (30, 17044), (36, 17122), (38, 17158), (39, 17251), (47, 17386), (50, 17491),

Gene: Rings\_23 Start: 11941, Stop: 12843, Start Num: 12

Candidate Starts for Rings\_23:

(Start: 12 @11941 has 13 MA's), (19, 12076), (21, 12103), (22, 12118), (29, 12253), (32, 12286), (39, 12460), (43, 12529),

Gene: SorJuana\_24 Start: 11819, Stop: 12721, Start Num: 12

Candidate Starts for SorJuana\_24:

(Start: 12 @11819 has 13 MA's), (19, 11954), (21, 11981), (22, 11996), (29, 12131), (32, 12164), (39, 12338), (43, 12407),

Gene: Thunderclap\_24 Start: 11839, Stop: 12741, Start Num: 12

Candidate Starts for Thunderclap\_24:

(5, 11761), (8, 11788), (Start: 12 @11839 has 13 MA's), (19, 11974), (21, 12001), (22, 12016), (29, 12151), (32, 12184), (39, 12358), (43, 12427),

Gene: Yappy\_58 Start: 17814, Stop: 18776, Start Num: 9

Candidate Starts for Yappy\_58:

(9, 17814), (11, 17823), (14, 17844), (19, 17973), (20, 17994), (21, 18000), (23, 18048), (25, 18057), (26, 18069), (28, 18135), (31, 18177), (34, 18210), (37, 18243), (40, 18366), (45, 18468), (48, 18525), (49, 18546),

Gene: Yeezus\_23 Start: 11809, Stop: 12711, Start Num: 12

Candidate Starts for Yeezus\_23:

(Start: 12 @11809 has 13 MA's), (19, 11944), (21, 11971), (22, 11986), (29, 12121), (32, 12154), (39, 12328), (43, 12397),