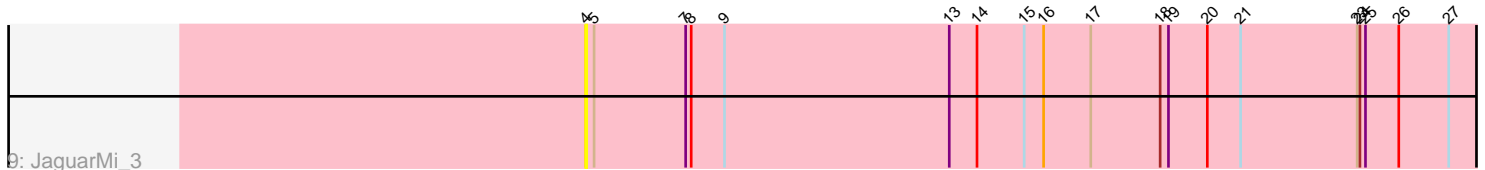
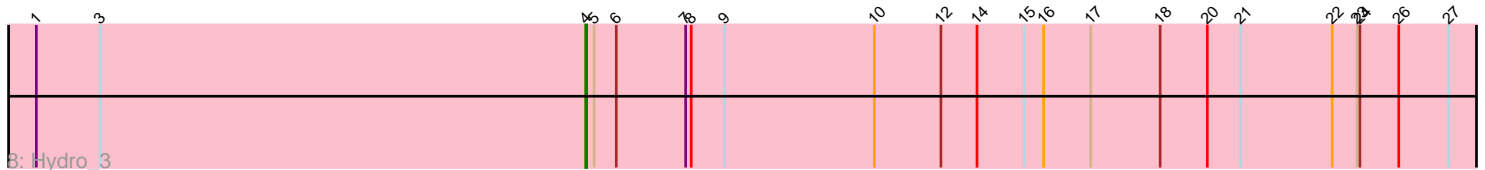
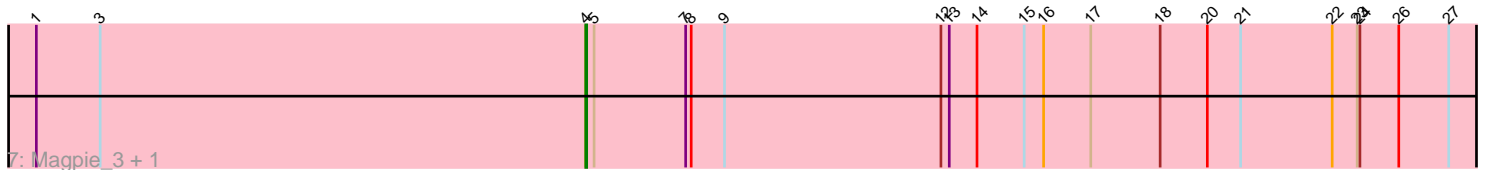
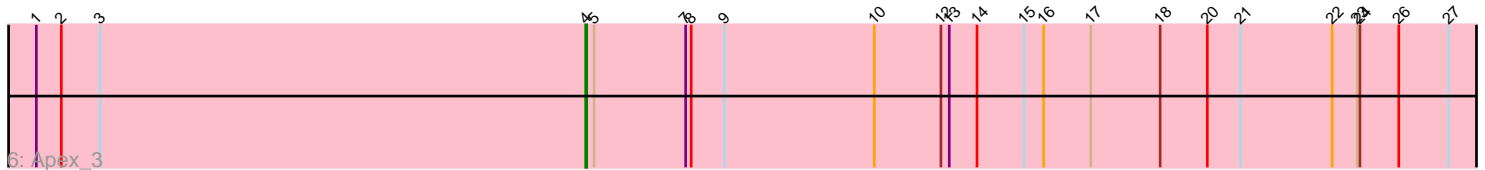
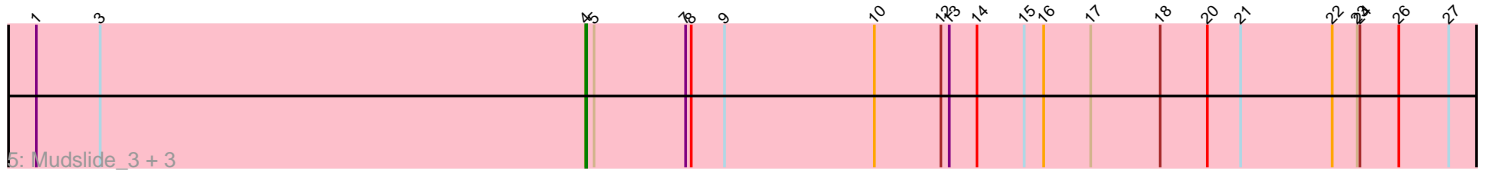
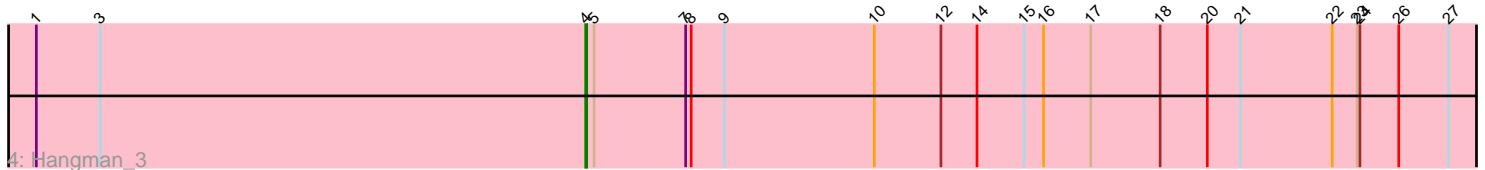
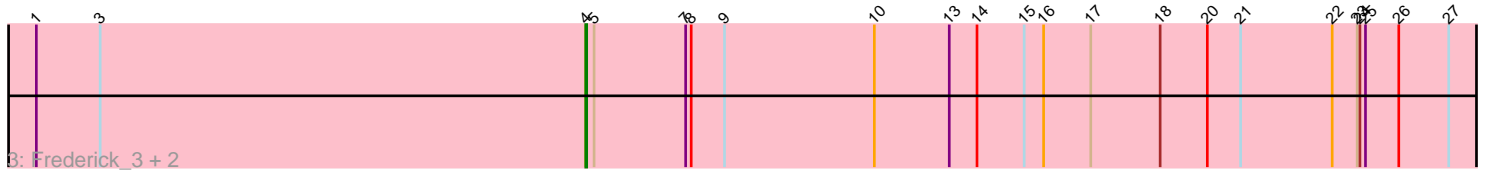
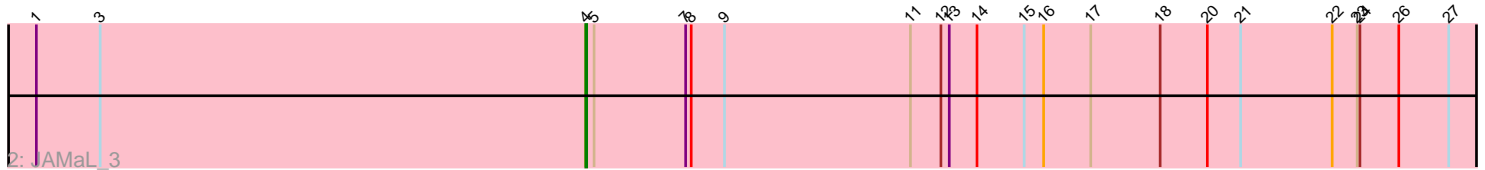
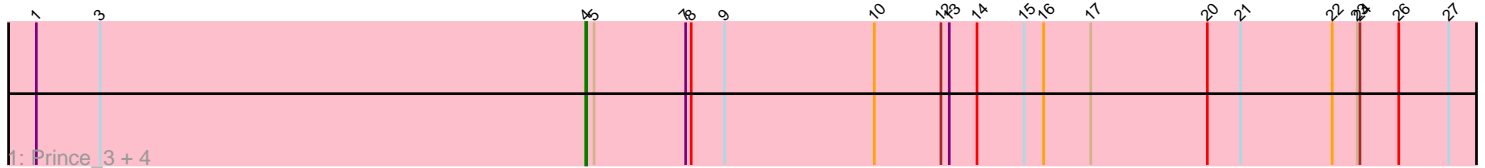


# Pham 86837



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 86837 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86837 has 19 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Prince\_3, Waleliano\_3, Mithril\_3, BrownCNA\_3, Austelle\_3
- Track 2 : JAMaL\_3
- Track 3 : Frederick\_3, Heath\_3, Zemanar\_3
- Track 4 : Hangman\_3
- Track 5 : Mudslide\_3, Lolalove\_3, BobbyK\_3, RawrgerThat\_3
- Track 6 : Apex\_3
- Track 7 : Magpie\_3, VioletZ\_3
- Track 8 : Hydro\_3
- Track 9 : JaguarMi\_3

### ***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 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apex\_3, Austelle\_3, BobbyK\_3, BrownCNA\_3, Frederick\_3, Hangman\_3, Heath\_3, Hydro\_3, JAMaL\_3, JaguarMi\_3, Lolalove\_3, Magpie\_3, Mithril\_3, Mudslide\_3, Prince\_3, RawrgerThat\_3, VioletZ\_3, Waleliano\_3, Zemanar\_3,

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

- 

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

- 

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

Start 4:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 15 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apex\_3 (B4), Austelle\_3 (B4), BobbyK\_3 (B4), BrownCNA\_3 (B4), Frederick\_3 (B4), Hangman\_3 (B4), Heath\_3

(B4), Hydro\_3 (B4), JAMaL\_3 (B4), JaguarMi\_3 (B4), Lolalove\_3 (B4), Magpie\_3 (B4), Mithril\_3 (B4), Mudslide\_3 (B4), Prince\_3 (B4), RawrgerThat\_3 (B4), VioletZ\_3 (B4), Waleliano\_3 (B4), Zemanar\_3 (B4),

### **Summary by clusters:**

There is one cluster represented in this pham: B4

Info for manual annotations of cluster B4:

- Start number 4 was manually annotated 15 times for cluster B4.

### **Gene Information:**

Gene: Apex\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Apex\_3:

(1, 1258), (2, 1285), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Austelle\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Austelle\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: BobbyK\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for BobbyK\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: BrownCNA\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for BrownCNA\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Frederick\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Frederick\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (25, 2695), (26, 2731), (27, 2785),

Gene: Hangman\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Hangman\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Heath\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Heath\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (25, 2695), (26, 2731), (27, 2785),

Gene: Hydro\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Hydro\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (6, 1885), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: JAMaL\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for JAMaL\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (11, 2203), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: JaguarMi\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for JaguarMi\_3:

(Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (19, 2482), (20, 2524), (21, 2560), (23, 2686), (24, 2689), (25, 2695), (26, 2731), (27, 2785),

Gene: Lolalove\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Lolalove\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Magpie\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Magpie\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Mithril\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Mithril\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Mudslide\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Mudslide\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Prince\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Prince\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: RawrgerThat\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for RawrgerThat\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: VioletZ\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for VioletZ\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Waleliano\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Waleliano\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (12, 2236), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (26, 2731), (27, 2785),

Gene: Zemanar\_3 Start: 1852, Stop: 2826, Start Num: 4

Candidate Starts for Zemanar\_3:

(1, 1258), (3, 1327), (Start: 4 @1852 has 15 MA's), (5, 1861), (7, 1960), (8, 1966), (9, 2002), (10, 2164), (13, 2245), (14, 2275), (15, 2326), (16, 2347), (17, 2398), (18, 2473), (20, 2524), (21, 2560), (22, 2659), (23, 2686), (24, 2689), (25, 2695), (26, 2731), (27, 2785),