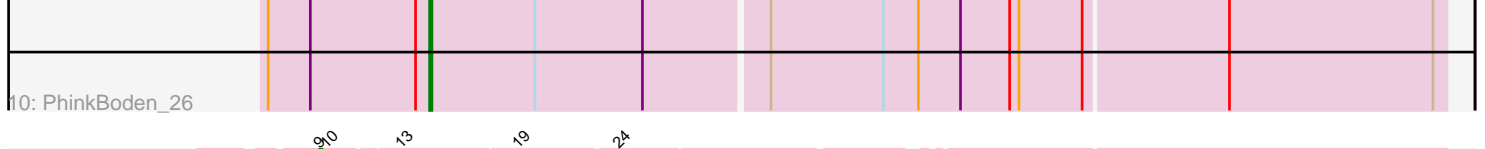
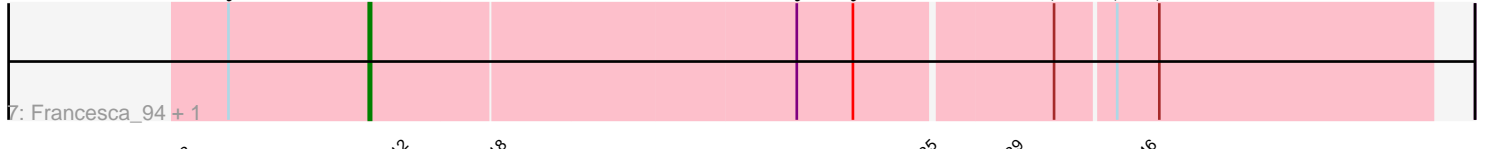
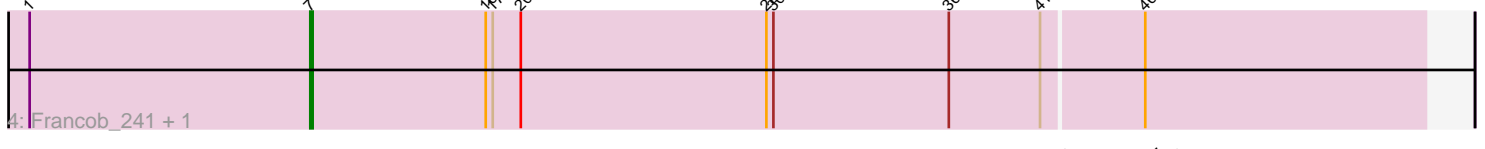
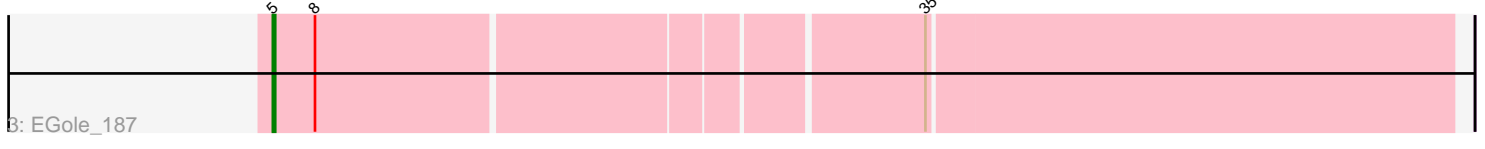
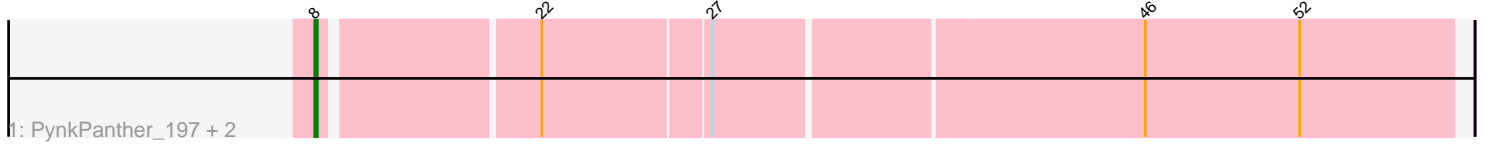


# Pham 312056



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 312056 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312056 has 19 members, 2 are drafts.

Phages represented in each track:

- Track 1 : PynkPanther\_197, ArianaSWT\_194, Cadmus\_181
- Track 2 : Cursive\_185
- Track 3 : EGole\_187
- Track 4 : Francob\_241, Karp\_233
- Track 5 : Gilson\_237, Phredrick\_242
- Track 6 : Francesca\_166
- Track 7 : Francesca\_94, Dorin\_94
- Track 8 : Francesca\_74
- Track 9 : Smoothie\_26, Aphelion\_25, Lozinak\_25, Norvs\_26
- Track 10 : PhinkBoden\_26
- Track 11 : GodonK\_149

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

The start number called the most often in the published annotations is 15, it was called in 5 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion\_25, Lozinak\_25, Norvs\_26, PhinkBoden\_26, Smoothie\_26,

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

- 

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

- ArianaSWT\_194, Cadmus\_181, Cursive\_185, Dorin\_94, EGole\_187, Francesca\_166, Francesca\_74, Francesca\_94, Francob\_241, Gilson\_237, GodonK\_149, Karp\_233, Phredrick\_242, PynkPanther\_197,

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

Start 5:

- Found in 2 of 19 ( 10.5% ) 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: Cursive\_185 (BE1), EGole\_187 (BE1),

Start 6:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Francesca\_166 (CG),

Start 7:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Francob\_241 (BK1), Karp\_233 (BK1),

Start 8:

- Found in 5 of 19 ( 26.3% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 60.0% of time when present
- Phage (with cluster) where this start called: ArianaSWT\_194 (BE1), Cadmus\_181 (BE1), PynkPanther\_197 (BE1),

Start 9:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GodonK\_149 (DK),

Start 11:

- Found in 4 of 19 ( 21.1% ) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorin\_94 (CG), Francesca\_94 (CG), Gilson\_237 (BK1), Phredrick\_242 (BK1),

Start 12:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Francesca\_74 (CG),

Start 15:

- Found in 5 of 19 ( 26.3% ) of genes in pham
- Manual Annotations of this start: 5 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aphelion\_25 (CQ1), Lozinak\_25 (CQ1), Norvs\_26 (CQ1), PhinkBoden\_26 (CQ1), Smoothie\_26 (CQ1),

### **Summary by clusters:**

There are 5 clusters represented in this pham: CQ1, BE1, CG, BK1, DK,

Info for manual annotations of cluster BE1:

- Start number 5 was manually annotated 2 times for cluster BE1.

- Start number 8 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:

- Start number 7 was manually annotated 2 times for cluster BK1.
- Start number 11 was manually annotated 2 times for cluster BK1.

Info for manual annotations of cluster CG:

- Start number 6 was manually annotated 1 time for cluster CG.
- Start number 11 was manually annotated 2 times for cluster CG.
- Start number 12 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CQ1:

- Start number 15 was manually annotated 5 times for cluster CQ1.

Info for manual annotations of cluster DK:

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

### **Gene Information:**

Gene: Aphelion\_25 Start: 6963, Stop: 7388, Start Num: 15

Candidate Starts for Aphelion\_25:

(14, 6957), (Start: 15 @6963 has 5 MA's), (21, 7008), (25, 7053), (29, 7104), (33, 7152), (34, 7167), (37, 7185), (38, 7206), (40, 7209), (44, 7236), (50, 7296), (53, 7383),

Gene: ArianaSWT\_194 Start: 99072, Stop: 98608, Start Num: 8

Candidate Starts for ArianaSWT\_194:

(Start: 8 @99072 has 1 MA's), (22, 98985), (27, 98916), (46, 98739), (52, 98673),

Gene: Cadmus\_181 Start: 98306, Stop: 97842, Start Num: 8

Candidate Starts for Cadmus\_181:

(Start: 8 @98306 has 1 MA's), (22, 98219), (27, 98150), (46, 97973), (52, 97907),

Gene: Cursive\_185 Start: 97975, Stop: 97490, Start Num: 5

Candidate Starts for Cursive\_185:

(Start: 5 @97975 has 2 MA's), (Start: 8 @97957 has 1 MA's),

Gene: Dorin\_94 Start: 72328, Stop: 72768, Start Num: 11

Candidate Starts for Dorin\_94:

(3, 72268), (Start: 11 @72328 has 4 MA's), (31, 72505), (32, 72529), (42, 72610), (45, 72634), (48, 72652),

Gene: EGole\_187 Start: 100543, Stop: 100058, Start Num: 5

Candidate Starts for EGole\_187:

(Start: 5 @100543 has 2 MA's), (Start: 8 @100525 has 1 MA's), (35, 100279),

Gene: Francesca\_166 Start: 93586, Stop: 94017, Start Num: 6

Candidate Starts for Francesca\_166:

(Start: 6 @93586 has 1 MA's), (23, 93706), (26, 93742), (45, 93886), (51, 93961),

Gene: Francesca\_94 Start: 73066, Stop: 73506, Start Num: 11

Candidate Starts for Francesca\_94:

(3, 73006), (Start: 11 @73066 has 4 MA's), (31, 73243), (32, 73267), (42, 73348), (45, 73372), (48, 73390),

Gene: Francesca\_74 Start: 59375, Stop: 59824, Start Num: 12

Candidate Starts for Francesca\_74:

(2, 59285), (Start: 12 @59375 has 1 MA's), (18, 59417), (35, 59591), (39, 59627), (46, 59684),

Gene: Francob\_241 Start: 114350, Stop: 114823, Start Num: 7

Candidate Starts for Francob\_241:

(1, 114230), (Start: 7 @114350 has 2 MA's), (16, 114425), (17, 114428), (20, 114440), (28, 114545), (30, 114548), (36, 114623), (41, 114662), (46, 114704),

Gene: Gilson\_237 Start: 113675, Stop: 114088, Start Num: 11

Candidate Starts for Gilson\_237:

(Start: 11 @113675 has 4 MA's), (43, 113933), (47, 113972), (49, 113981),

Gene: GodonK\_149 Start: 81229, Stop: 80786, Start Num: 9

Candidate Starts for GodonK\_149:

(Start: 9 @81229 has 1 MA's), (10, 81226), (13, 81199), (19, 81151), (24, 81112),

Gene: Karp\_233 Start: 115263, Stop: 115736, Start Num: 7

Candidate Starts for Karp\_233:

(1, 115143), (Start: 7 @115263 has 2 MA's), (16, 115338), (17, 115341), (20, 115353), (28, 115458), (30, 115461), (36, 115536), (41, 115575), (46, 115617),

Gene: Lozinak\_25 Start: 6966, Stop: 7391, Start Num: 15

Candidate Starts for Lozinak\_25:

(14, 6960), (Start: 15 @6966 has 5 MA's), (21, 7011), (25, 7056), (29, 7107), (33, 7155), (34, 7170), (37, 7188), (38, 7209), (40, 7212), (44, 7239), (50, 7299), (53, 7386),

Gene: Norvs\_26 Start: 6966, Stop: 7391, Start Num: 15

Candidate Starts for Norvs\_26:

(14, 6960), (Start: 15 @6966 has 5 MA's), (21, 7011), (25, 7056), (29, 7107), (33, 7155), (34, 7170), (37, 7188), (38, 7209), (40, 7212), (44, 7239), (50, 7299), (53, 7386),

Gene: PhinkBoden\_26 Start: 7347, Stop: 7772, Start Num: 15

Candidate Starts for PhinkBoden\_26:

(4, 7278), (Start: 7 @7296 has 2 MA's), (14, 7341), (Start: 15 @7347 has 5 MA's), (21, 7392), (25, 7437), (29, 7488), (33, 7536), (34, 7551), (37, 7569), (38, 7590), (40, 7593), (44, 7620), (50, 7680), (53, 7767),

Gene: Phredrick\_242 Start: 113457, Stop: 113870, Start Num: 11

Candidate Starts for Phredrick\_242:

(Start: 11 @113457 has 4 MA's), (43, 113715), (47, 113754), (49, 113763),

Gene: PynkPanther\_197 Start: 99213, Stop: 98749, Start Num: 8

Candidate Starts for PynkPanther\_197:

(Start: 8 @99213 has 1 MA's), (22, 99126), (27, 99057), (46, 98880), (52, 98814),

Gene: Smoothie\_26 Start: 6966, Stop: 7391, Start Num: 15

Candidate Starts for Smoothie\_26:

(14, 6960), (Start: 15 @6966 has 5 MA's), (21, 7011), (25, 7056), (29, 7107), (33, 7155), (34, 7170), (37, 7188), (38, 7209), (40, 7212), (44, 7239), (50, 7299), (53, 7386),

