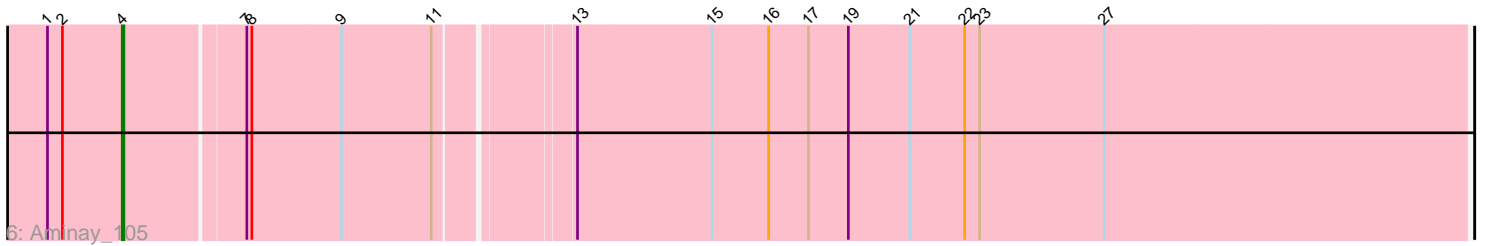
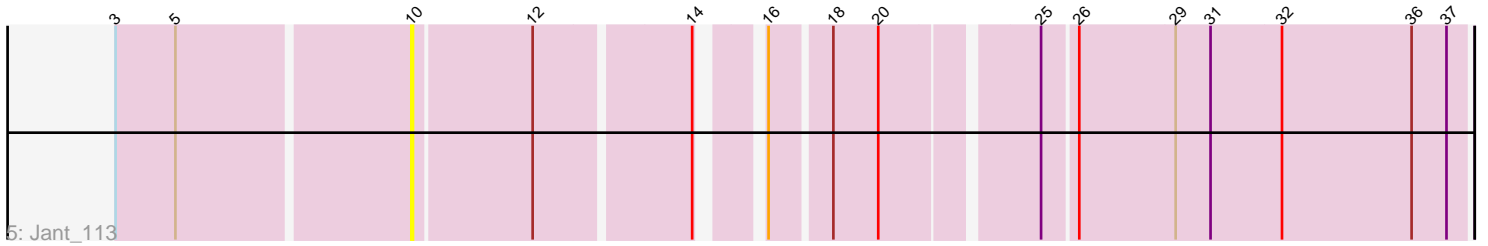
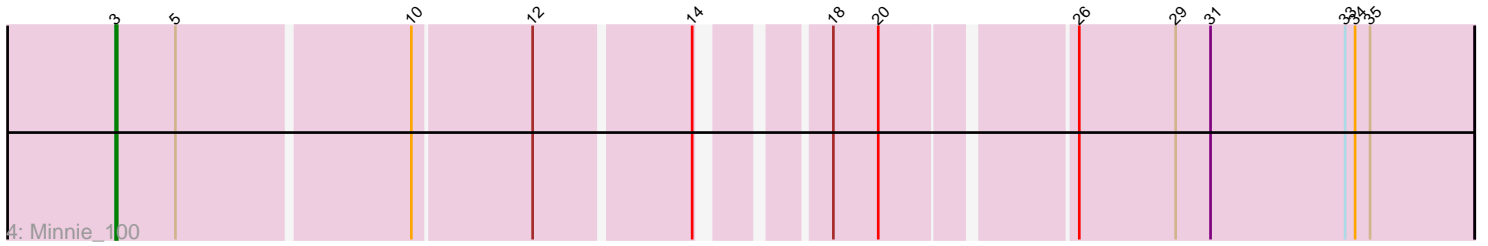
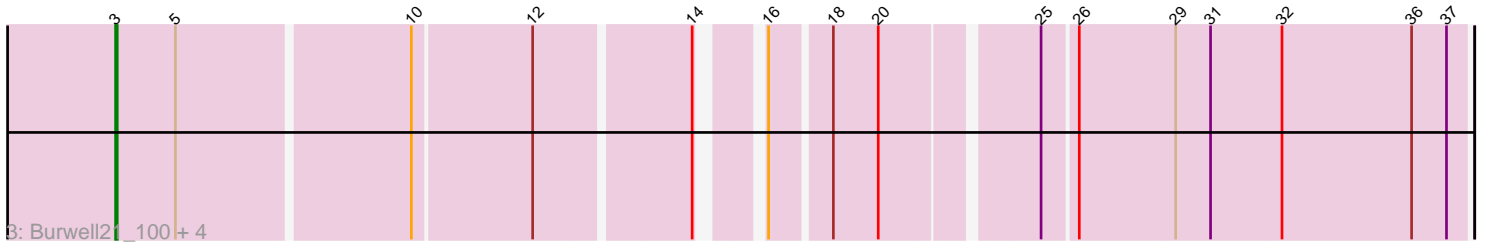
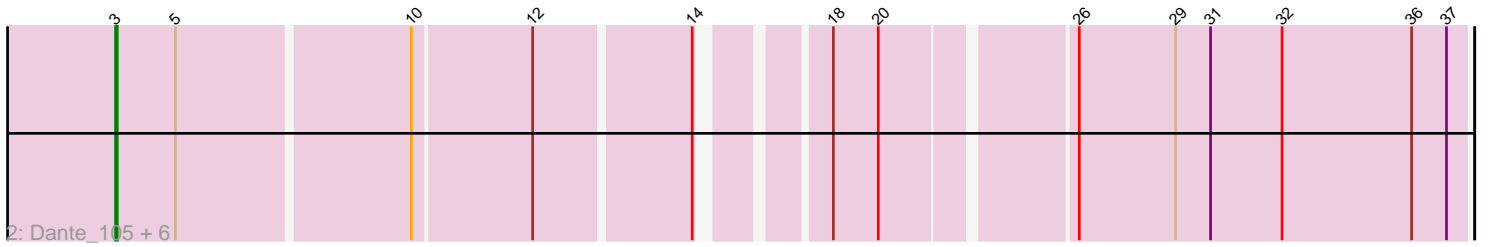
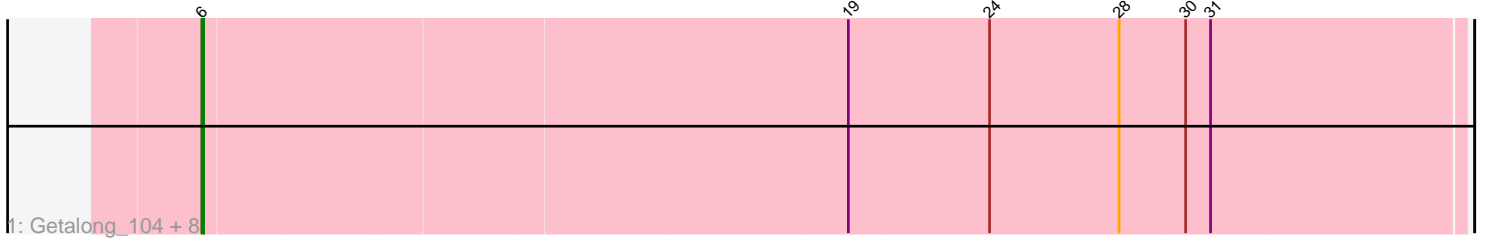


# Pham 295030



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 295030 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295030 has 24 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Getalong\_104, LitninMcQueen\_111, Asapag\_99, Horus\_104, Frickyeah\_108, Budski\_107, BENtherdunthat\_102, ShawBrad\_111, Leroy\_104
- Track 2 : Dante\_105, WillSterrel\_104, Sandalphon\_104, Royals2015\_109, IrishSherpFalk\_106, Mahavrat\_99, Juniper1\_99
- Track 3 : Burwell21\_100, Llij\_100, Phanphagia\_110, Shauna1\_107, Whatsapiecost\_100
- Track 4 : Minnie\_100
- Track 5 : Jant\_113
- Track 6 : Aminay\_105

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

The start number called the most often in the published annotations is 3, it was called in 13 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Burwell21\_100, Dante\_105, IrishSherpFalk\_106, Juniper1\_99, Llij\_100, Mahavrat\_99, Minnie\_100, Phanphagia\_110, Royals2015\_109, Sandalphon\_104, Shauna1\_107, Whatsapiecost\_100, WillSterrel\_104,

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

- Jant\_113,

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

- Aminay\_105, Asapag\_99, BENtherdunthat\_102, Budski\_107, Frickyeah\_108, Getalong\_104, Horus\_104, Leroy\_104, LitninMcQueen\_111, ShawBrad\_111,

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

Start 3:

- Found in 14 of 24 ( 58.3% ) of genes in pham
- Manual Annotations of this start: 13 of 21
- Called 92.9% of time when present

- Phage (with cluster) where this start called: Burwell21\_100 (F1), Dante\_105 (F1), IrishSherpFalk\_106 (F1), Juniper1\_99 (F1), Llij\_100 (F1), Mahavrat\_99 (F1), Minnie\_100 (F1), Phanphagia\_110 (F1), Royals2015\_109 (F1), Sandalphon\_104 (F1), Shauna1\_107 (F1), Whatsapiecost\_100 (F1), WillSterrel\_104 (F1),

Start 4:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay\_105 (K7),

Start 6:

- Found in 9 of 24 ( 37.5% ) of genes in pham
- Manual Annotations of this start: 7 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asapag\_99 (DN1), BENtherdunthat\_102 (DN1), Budski\_107 (DN), Frickyeah\_108 (DN1), Getalong\_104 (DN1), Horus\_104 (DN1), Leroy\_104 (DN1), LitninMcQueen\_111 (DN1), ShawBrad\_111 (DN1),

Start 10:

- Found in 14 of 24 ( 58.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 7.1% of time when present
- Phage (with cluster) where this start called: Jant\_113 (F1),

### **Summary by clusters:**

There are 4 clusters represented in this pham: DN, F1, DN1, K7,

Info for manual annotations of cluster DN:

- Start number 6 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 6 was manually annotated 6 times for cluster DN1.

Info for manual annotations of cluster F1:

- Start number 3 was manually annotated 13 times for cluster F1.

Info for manual annotations of cluster K7:

- Start number 4 was manually annotated 1 time for cluster K7.

### **Gene Information:**

Gene: Aminay\_105 Start: 59595, Stop: 60371, Start Num: 4

Candidate Starts for Aminay\_105:

(1, 59550), (2, 59559), (Start: 4 @59595 has 1 MA's), (7, 59664), (8, 59667), (9, 59718), (11, 59772), (13, 59844), (15, 59922), (16, 59955), (17, 59979), (19, 60003), (21, 60039), (22, 60072), (23, 60081), (27, 60156),

Gene: Asapag\_99 Start: 54319, Stop: 55062, Start Num: 6

Candidate Starts for Asapag\_99:

(Start: 6 @54319 has 7 MA's), (19, 54697), (24, 54781), (28, 54859), (30, 54898), (31, 54913),

Gene: BENtherdunthat\_102 Start: 54067, Stop: 54810, Start Num: 6

Candidate Starts for BENtherdunthat\_102:

(Start: 6 @54067 has 7 MA's), (19, 54445), (24, 54529), (28, 54607), (30, 54646), (31, 54661),

Gene: Budski\_107 Start: 55759, Stop: 56502, Start Num: 6

Candidate Starts for Budski\_107:

(Start: 6 @55759 has 7 MA's), (19, 56137), (24, 56221), (28, 56299), (30, 56338), (31, 56353),

Gene: Burwell21\_100 Start: 57289, Stop: 58032, Start Num: 3

Candidate Starts for Burwell21\_100:

(Start: 3 @57289 has 13 MA's), (5, 57325), (10, 57460), (12, 57529), (14, 57616), (16, 57640), (18, 57673), (20, 57700), (25, 57784), (26, 57802), (29, 57859), (31, 57880), (32, 57922), (36, 58000), (37, 58021),

Gene: Dante\_105 Start: 58836, Stop: 59579, Start Num: 3

Candidate Starts for Dante\_105:

(Start: 3 @58836 has 13 MA's), (5, 58872), (10, 59007), (12, 59076), (14, 59163), (18, 59220), (20, 59247), (26, 59349), (29, 59406), (31, 59427), (32, 59469), (36, 59547), (37, 59568),

Gene: Frickyeah\_108 Start: 54593, Stop: 55336, Start Num: 6

Candidate Starts for Frickyeah\_108:

(Start: 6 @54593 has 7 MA's), (19, 54971), (24, 55055), (28, 55133), (30, 55172), (31, 55187),

Gene: Getalong\_104 Start: 55414, Stop: 56157, Start Num: 6

Candidate Starts for Getalong\_104:

(Start: 6 @55414 has 7 MA's), (19, 55792), (24, 55876), (28, 55954), (30, 55993), (31, 56008),

Gene: Horus\_104 Start: 54868, Stop: 55611, Start Num: 6

Candidate Starts for Horus\_104:

(Start: 6 @54868 has 7 MA's), (19, 55246), (24, 55330), (28, 55408), (30, 55447), (31, 55462),

Gene: IrishSherpFalk\_106 Start: 57759, Stop: 58502, Start Num: 3

Candidate Starts for IrishSherpFalk\_106:

(Start: 3 @57759 has 13 MA's), (5, 57795), (10, 57930), (12, 57999), (14, 58086), (18, 58143), (20, 58170), (26, 58272), (29, 58329), (31, 58350), (32, 58392), (36, 58470), (37, 58491),

Gene: Jant\_113 Start: 57191, Stop: 57763, Start Num: 10

Candidate Starts for Jant\_113:

(Start: 3 @57020 has 13 MA's), (5, 57056), (10, 57191), (12, 57260), (14, 57347), (16, 57371), (18, 57404), (20, 57431), (25, 57515), (26, 57533), (29, 57590), (31, 57611), (32, 57653), (36, 57731), (37, 57752),

Gene: Juniper1\_99 Start: 56460, Stop: 57203, Start Num: 3

Candidate Starts for Juniper1\_99:

(Start: 3 @56460 has 13 MA's), (5, 56496), (10, 56631), (12, 56700), (14, 56787), (18, 56844), (20, 56871), (26, 56973), (29, 57030), (31, 57051), (32, 57093), (36, 57171), (37, 57192),

Gene: Leroy\_104 Start: 53063, Stop: 53806, Start Num: 6

Candidate Starts for Leroy\_104:

(Start: 6 @53063 has 7 MA's), (19, 53441), (24, 53525), (28, 53603), (30, 53642), (31, 53657),

Gene: LitninMcQueen\_111 Start: 56492, Stop: 57235, Start Num: 6  
Candidate Starts for LitninMcQueen\_111:  
(Start: 6 @56492 has 7 MA's), (19, 56870), (24, 56954), (28, 57032), (30, 57071), (31, 57086),

Gene: Llij\_100 Start: 56053, Stop: 56796, Start Num: 3  
Candidate Starts for Llij\_100:  
(Start: 3 @56053 has 13 MA's), (5, 56089), (10, 56224), (12, 56293), (14, 56380), (16, 56404), (18, 56437), (20, 56464), (25, 56548), (26, 56566), (29, 56623), (31, 56644), (32, 56686), (36, 56764), (37, 56785),

Gene: Mahavrat\_99 Start: 55132, Stop: 55875, Start Num: 3  
Candidate Starts for Mahavrat\_99:  
(Start: 3 @55132 has 13 MA's), (5, 55168), (10, 55303), (12, 55372), (14, 55459), (18, 55516), (20, 55543), (26, 55645), (29, 55702), (31, 55723), (32, 55765), (36, 55843), (37, 55864),

Gene: Minnie\_100 Start: 58451, Stop: 59200, Start Num: 3  
Candidate Starts for Minnie\_100:  
(Start: 3 @58451 has 13 MA's), (5, 58487), (10, 58622), (12, 58691), (14, 58778), (18, 58835), (20, 58862), (26, 58964), (29, 59021), (31, 59042), (33, 59123), (34, 59129), (35, 59138),

Gene: Phanphagia\_110 Start: 58890, Stop: 59633, Start Num: 3  
Candidate Starts for Phanphagia\_110:  
(Start: 3 @58890 has 13 MA's), (5, 58926), (10, 59061), (12, 59130), (14, 59217), (16, 59241), (18, 59274), (20, 59301), (25, 59385), (26, 59403), (29, 59460), (31, 59481), (32, 59523), (36, 59601), (37, 59622),

Gene: Royals2015\_109 Start: 56541, Stop: 57284, Start Num: 3  
Candidate Starts for Royals2015\_109:  
(Start: 3 @56541 has 13 MA's), (5, 56577), (10, 56712), (12, 56781), (14, 56868), (18, 56925), (20, 56952), (26, 57054), (29, 57111), (31, 57132), (32, 57174), (36, 57252), (37, 57273),

Gene: Sandalphon\_104 Start: 58724, Stop: 59467, Start Num: 3  
Candidate Starts for Sandalphon\_104:  
(Start: 3 @58724 has 13 MA's), (5, 58760), (10, 58895), (12, 58964), (14, 59051), (18, 59108), (20, 59135), (26, 59237), (29, 59294), (31, 59315), (32, 59357), (36, 59435), (37, 59456),

Gene: Shauna1\_107 Start: 58506, Stop: 59249, Start Num: 3  
Candidate Starts for Shauna1\_107:  
(Start: 3 @58506 has 13 MA's), (5, 58542), (10, 58677), (12, 58746), (14, 58833), (16, 58857), (18, 58890), (20, 58917), (25, 59001), (26, 59019), (29, 59076), (31, 59097), (32, 59139), (36, 59217), (37, 59238),

Gene: ShawBrad\_111 Start: 55126, Stop: 55869, Start Num: 6  
Candidate Starts for ShawBrad\_111:  
(Start: 6 @55126 has 7 MA's), (19, 55504), (24, 55588), (28, 55666), (30, 55705), (31, 55720),

Gene: Whatsapiecost\_100 Start: 52789, Stop: 53532, Start Num: 3  
Candidate Starts for Whatsapiecost\_100:  
(Start: 3 @52789 has 13 MA's), (5, 52825), (10, 52960), (12, 53029), (14, 53116), (16, 53140), (18, 53173), (20, 53200), (25, 53284), (26, 53302), (29, 53359), (31, 53380), (32, 53422), (36, 53500), (37, 53521),

Gene: WillSterrel\_104 Start: 57792, Stop: 58535, Start Num: 3

Candidate Starts for WillSterrel\_104:

(Start: 3 @57792 has 13 MA's), (5, 57828), (10, 57963), (12, 58032), (14, 58119), (18, 58176), (20, 58203), (26, 58305), (29, 58362), (31, 58383), (32, 58425), (36, 58503), (37, 58524),