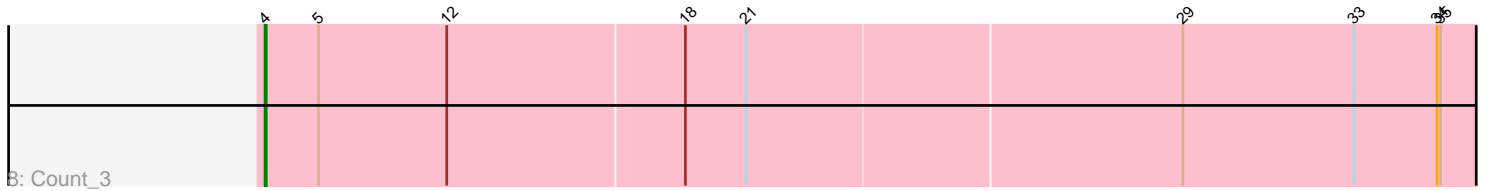
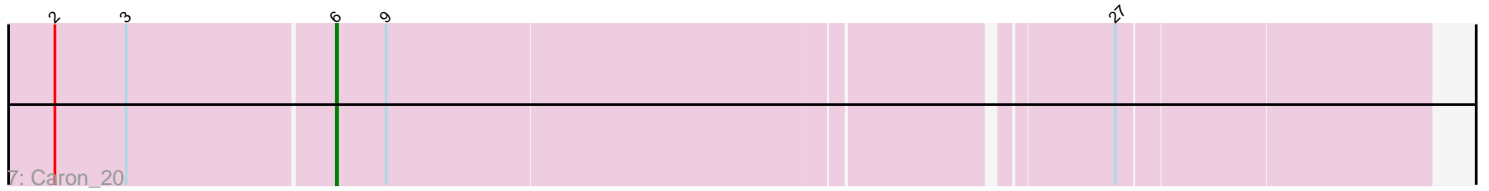
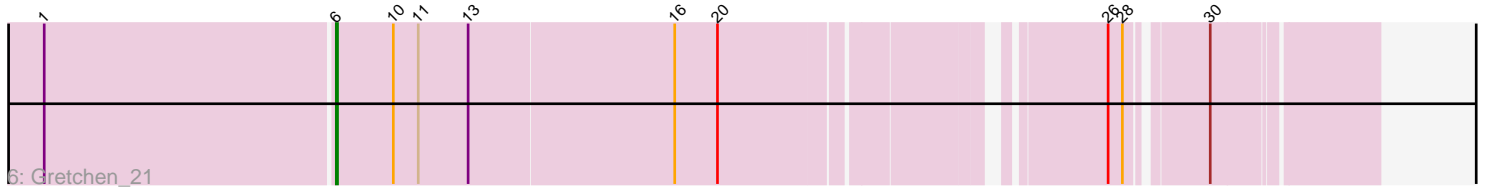
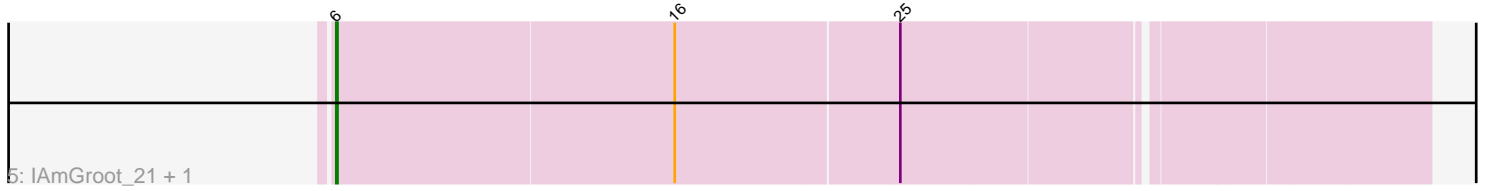
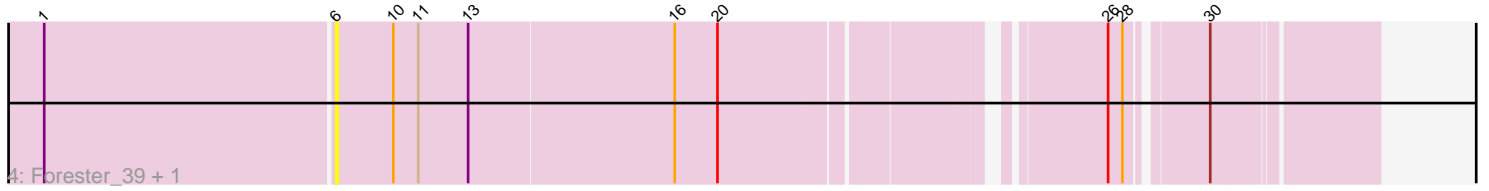
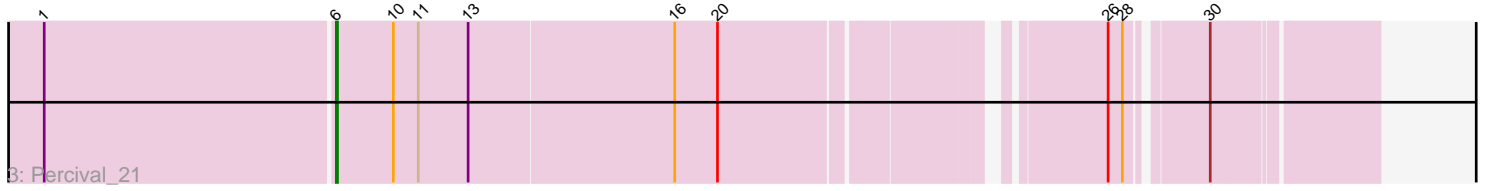
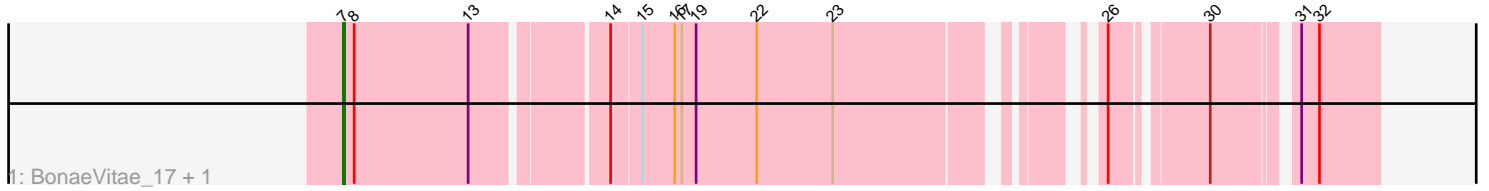


# Pham 297124



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 297124 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297124 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BonaeVitae\_17, Naby\_17
- Track 2 : Barnstormer\_20, UtzChips\_20
- Track 3 : Percival\_21
- Track 4 : Forester\_39, SuperHands\_22
- Track 5 : IAmGroot\_21, GardenState\_21
- Track 6 : Gretchen\_21
- Track 7 : Caron\_20
- Track 8 : Count\_3

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

The start number called the most often in the published annotations is 6, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barnstormer\_20, Caron\_20, Forester\_39, GardenState\_21, Gretchen\_21, IAmGroot\_21, Percival\_21, SuperHands\_22, UtzChips\_20,

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

- 

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

- BonaeVitae\_17, Count\_3, Naby\_17,

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

Start 4:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Count\_3 (EL),

Start 6:

- Found in 9 of 12 ( 75.0% ) of genes in pham

- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer\_20 (EH), Caron\_20 (EH), Forester\_39 (EH), GardenState\_21 (EH), Gretchen\_21 (EH), IAmGroot\_21 (EH), Percival\_21 (EH), SuperHands\_22 (EH), UtzChips\_20 (EH),

Start 7:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BonaeVitae\_17 (EE), Naby\_17 (EE),

### **Summary by clusters:**

There are 3 clusters represented in this pham: EE, EL, EH,

Info for manual annotations of cluster EE:

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

Info for manual annotations of cluster EH:

- Start number 6 was manually annotated 7 times for cluster EH.

Info for manual annotations of cluster EL:

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

### **Gene Information:**

Gene: Barnstormer\_20 Start: 17742, Stop: 18602, Start Num: 6

Candidate Starts for Barnstormer\_20:

(Start: 6 @17742 has 7 MA's), (24, 18162), (27, 18360),

Gene: BonaeVitae\_17 Start: 12824, Stop: 13576, Start Num: 7

Candidate Starts for BonaeVitae\_17:

(Start: 7 @12824 has 2 MA's), (8, 12833), (13, 12929), (14, 13031), (15, 13052), (16, 13079), (17, 13085), (19, 13097), (22, 13148), (23, 13211), (26, 13385), (30, 13454), (31, 13511), (32, 13526),

Gene: Caron\_20 Start: 17127, Stop: 17996, Start Num: 6

Candidate Starts for Caron\_20:

(2, 16896), (3, 16956), (Start: 6 @17127 has 7 MA's), (9, 17169), (27, 17745),

Gene: Count\_3 Start: 493, Stop: 1518, Start Num: 4

Candidate Starts for Count\_3:

(Start: 4 @493 has 1 MA's), (5, 538), (12, 646), (18, 841), (21, 892), (29, 1252), (33, 1396), (34, 1465), (35, 1468),

Gene: Forester\_39 Start: 19652, Stop: 20449, Start Num: 6

Candidate Starts for Forester\_39:

(1, 19412), (Start: 6 @19652 has 7 MA's), (10, 19700), (11, 19721), (13, 19763), (16, 19934), (20, 19970), (26, 20252), (28, 20264), (30, 20321),

Gene: GardenState\_21 Start: 18154, Stop: 19038, Start Num: 6

Candidate Starts for GardenState\_21:  
(Start: 6 @18154 has 7 MA's), (16, 18436), (25, 18619),

Gene: Gretchen\_21 Start: 18931, Stop: 19728, Start Num: 6  
Candidate Starts for Gretchen\_21:  
(1, 18691), (Start: 6 @18931 has 7 MA's), (10, 18979), (11, 19000), (13, 19042), (16, 19213), (20, 19249), (26, 19531), (28, 19543), (30, 19600),

Gene: IAmGroot\_21 Start: 18815, Stop: 19699, Start Num: 6  
Candidate Starts for IAmGroot\_21:  
(Start: 6 @18815 has 7 MA's), (16, 19097), (25, 19280),

Gene: Naby\_17 Start: 12821, Stop: 13573, Start Num: 7  
Candidate Starts for Naby\_17:  
(Start: 7 @12821 has 2 MA's), (8, 12830), (13, 12926), (14, 13028), (15, 13049), (16, 13076), (17, 13082), (19, 13094), (22, 13145), (23, 13208), (26, 13382), (30, 13451), (31, 13508), (32, 13523),

Gene: Percival\_21 Start: 18765, Stop: 19562, Start Num: 6  
Candidate Starts for Percival\_21:  
(1, 18525), (Start: 6 @18765 has 7 MA's), (10, 18813), (11, 18834), (13, 18876), (16, 19047), (20, 19083), (26, 19365), (28, 19377), (30, 19434),

Gene: SuperHands\_22 Start: 19659, Stop: 20459, Start Num: 6  
Candidate Starts for SuperHands\_22:  
(1, 19419), (Start: 6 @19659 has 7 MA's), (10, 19707), (11, 19728), (13, 19770), (16, 19941), (20, 19977), (26, 20262), (28, 20274), (30, 20331),

Gene: UtzChips\_20 Start: 17730, Stop: 18590, Start Num: 6  
Candidate Starts for UtzChips\_20:  
(Start: 6 @17730 has 7 MA's), (24, 18150), (27, 18348),