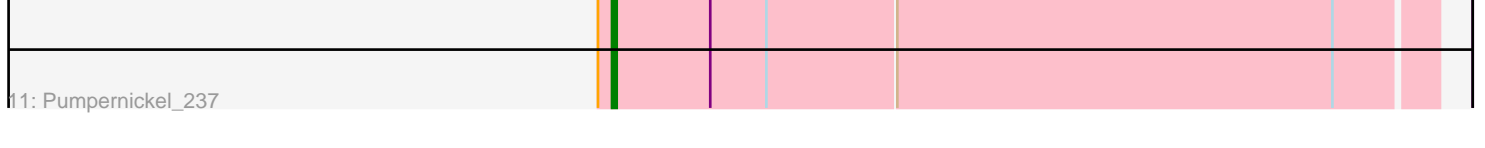
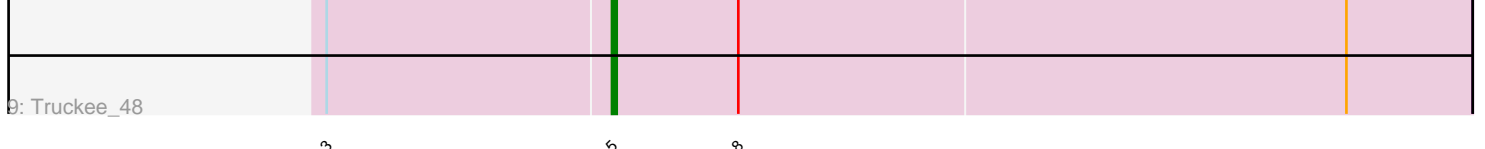
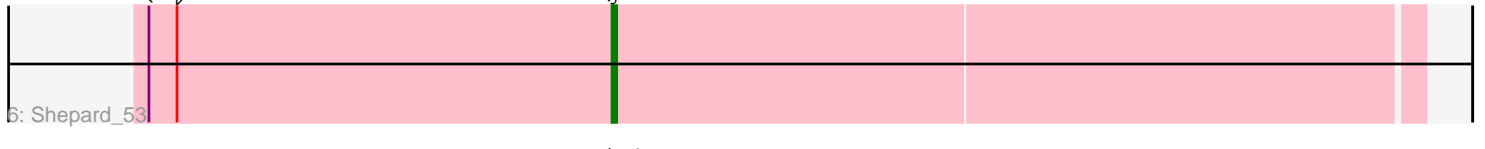
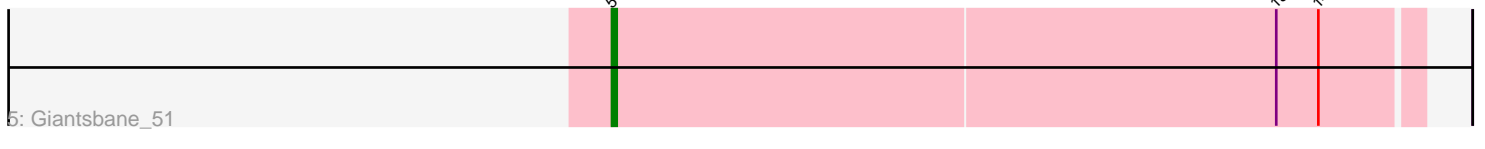
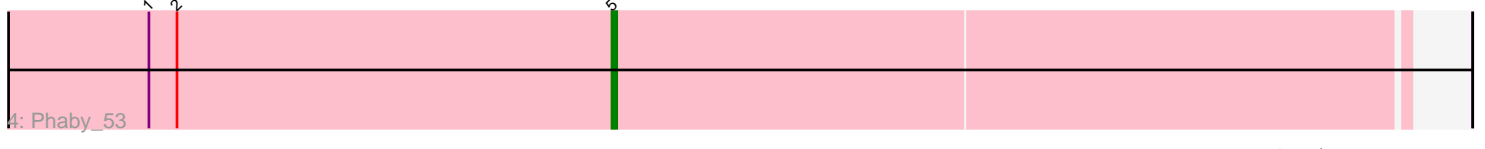
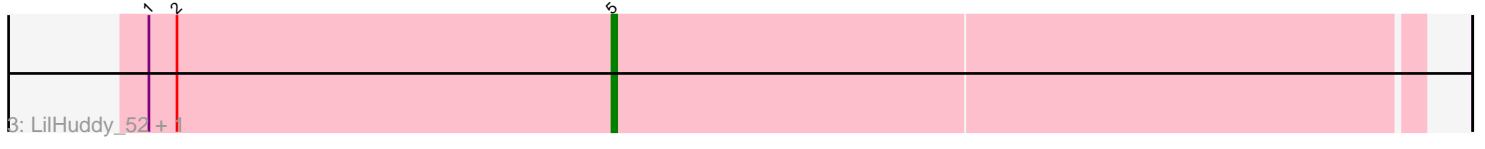
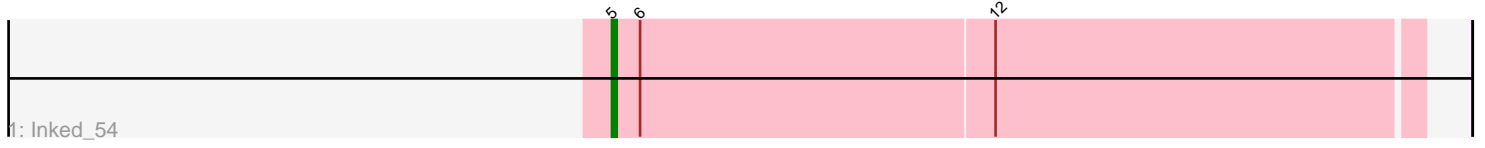


Pham 192781



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 192781 Report

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

Pham number 192781 has 31 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Inked\_54
- Track 2 : Teacup\_51, DevitoJr\_50, Trustiboi\_50, Issa\_51, Nightmare\_52, Breylor17\_50, Nivinsha\_52, Gordon\_48, Darby\_49, Niktson\_50, ScienceWizSam\_51, AreFloNak\_53, ElephantMan\_50, Brunswick\_51, Synepsis\_49, CapnMurica\_48, Tenno\_51, CastorTray\_53, MiniBagel\_50
- Track 3 : LilHuddy\_52, Tokki\_55
- Track 4 : Phaby\_53
- Track 5 : Giantsbane\_51
- Track 6 : Shepard\_53
- Track 7 : Ingrid\_52
- Track 8 : Caterpillar\_47, MediumFry\_48
- Track 9 : Truckee\_48
- Track 10 : Makai\_50
- Track 11 : Pumpnickel\_237

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

The start number called the most often in the published annotations is 5, it was called in 28 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AreFloNak\_53, Breylor17\_50, Brunswick\_51, CapnMurica\_48, CastorTray\_53, Caterpillar\_47, Darby\_49, DevitoJr\_50, ElephantMan\_50, Giantsbane\_51, Gordon\_48, Ingrid\_52, Inked\_54, Issa\_51, LilHuddy\_52, Makai\_50, MediumFry\_48, MiniBagel\_50, Nightmare\_52, Niktson\_50, Nivinsha\_52, Phaby\_53, Pumpnickel\_237, ScienceWizSam\_51, Shepard\_53, Synepsis\_49, Teacup\_51, Tenno\_51, Tokki\_55, Truckee\_48, Trustiboi\_50,

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 5:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 28 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AreFloNak\_53 (AU1), Breylor17\_50 (AU1), Brunswick\_51 (AU1), CapnMurica\_48 (AU1), CastorTray\_53 (AU1), Caterpillar\_47 (AU4), Darby\_49 (AU1), DevitoJr\_50 (AU1), ElephantMan\_50 (AU1), Giantsbane\_51 (AU2), Gordon\_48 (AU1), Ingrid\_52 (AU3), Inked\_54 (AU), Issa\_51 (AU1), LilHuddy\_52 (AU2), Makai\_50 (AU5), MediumFry\_48 (AU4), MiniBagel\_50 (AU1), Nightmare\_52 (AU1), Niktson\_50 (AU1), Nivinsha\_52 (AU1), Phaby\_53 (AU2), Pumpernickel\_237 (GD4), ScienceWizSam\_51 (AU1), Shepard\_53 (AU2), Synopsis\_49 (AU1), Teacup\_51 (AU1), Tenno\_51 (AU1), Tokki\_55 (AU2), Truckee\_48 (AU5), Trustiboi\_50 (AU1),

## Summary by clusters:

There are 7 clusters represented in this pham: GD4, AU1, AU3, AU2, AU5, AU4, AU,

Info for manual annotations of cluster AU:

- Start number 5 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 5 was manually annotated 16 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 5 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 5 was manually annotated 1 time for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 5 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster GD4:

- Start number 5 was manually annotated 1 time for cluster GD4.

## Gene Information:

Gene: AreFloNak\_53 Start: 35628, Stop: 35798, Start Num: 5

Candidate Starts for AreFloNak\_53:

(Start: 5 @35628 has 28 MA's),

Gene: Breylor17\_50 Start: 36219, Stop: 36389, Start Num: 5

Candidate Starts for Breylor17\_50:

(Start: 5 @36219 has 28 MA's),

Gene: Brunswick\_51 Start: 35512, Stop: 35682, Start Num: 5  
Candidate Starts for Brunswick\_51:  
(Start: 5 @35512 has 28 MA's),

Gene: CapnMurica\_48 Start: 36412, Stop: 36582, Start Num: 5  
Candidate Starts for CapnMurica\_48:  
(Start: 5 @36412 has 28 MA's),

Gene: CastorTray\_53 Start: 36283, Stop: 36453, Start Num: 5  
Candidate Starts for CastorTray\_53:  
(Start: 5 @36283 has 28 MA's),

Gene: Caterpillar\_47 Start: 34682, Stop: 34852, Start Num: 5  
Candidate Starts for Caterpillar\_47:  
(Start: 5 @34682 has 28 MA's), (10, 34733),

Gene: Darby\_49 Start: 35457, Stop: 35627, Start Num: 5  
Candidate Starts for Darby\_49:  
(Start: 5 @35457 has 28 MA's),

Gene: DevitoJr\_50 Start: 35849, Stop: 36019, Start Num: 5  
Candidate Starts for DevitoJr\_50:  
(Start: 5 @35849 has 28 MA's),

Gene: ElephantMan\_50 Start: 36135, Stop: 36305, Start Num: 5  
Candidate Starts for ElephantMan\_50:  
(Start: 5 @36135 has 28 MA's),

Gene: Giantsbane\_51 Start: 34529, Stop: 34699, Start Num: 5  
Candidate Starts for Giantsbane\_51:  
(Start: 5 @34529 has 28 MA's), (13, 34670), (14, 34679),

Gene: Gordon\_48 Start: 36274, Stop: 36444, Start Num: 5  
Candidate Starts for Gordon\_48:  
(Start: 5 @36274 has 28 MA's),

Gene: Ingrid\_52 Start: 35475, Stop: 35645, Start Num: 5  
Candidate Starts for Ingrid\_52:  
(Start: 5 @35475 has 28 MA's), (6, 35481),

Gene: Inked\_54 Start: 36599, Stop: 36769, Start Num: 5  
Candidate Starts for Inked\_54:  
(Start: 5 @36599 has 28 MA's), (6, 36605), (12, 36680),

Gene: Issa\_51 Start: 35500, Stop: 35670, Start Num: 5  
Candidate Starts for Issa\_51:  
(Start: 5 @35500 has 28 MA's),

Gene: LilHuddy\_52 Start: 35722, Stop: 35892, Start Num: 5  
Candidate Starts for LilHuddy\_52:  
(1, 35623), (2, 35629), (Start: 5 @35722 has 28 MA's),

Gene: Makai\_50 Start: 35698, Stop: 35880, Start Num: 5

Candidate Starts for Makai\_50:  
(3, 35638), (Start: 5 @35698 has 28 MA's), (8, 35725),

Gene: MediumFry\_48 Start: 34986, Stop: 35156, Start Num: 5  
Candidate Starts for MediumFry\_48:  
(Start: 5 @34986 has 28 MA's), (10, 35037),

Gene: MiniBagel\_50 Start: 36394, Stop: 36564, Start Num: 5  
Candidate Starts for MiniBagel\_50:  
(Start: 5 @36394 has 28 MA's),

Gene: Nightmare\_52 Start: 36691, Stop: 36861, Start Num: 5  
Candidate Starts for Nightmare\_52:  
(Start: 5 @36691 has 28 MA's),

Gene: Niktson\_50 Start: 36135, Stop: 36305, Start Num: 5  
Candidate Starts for Niktson\_50:  
(Start: 5 @36135 has 28 MA's),

Gene: Nivinsha\_52 Start: 35628, Stop: 35798, Start Num: 5  
Candidate Starts for Nivinsha\_52:  
(Start: 5 @35628 has 28 MA's),

Gene: Phaby\_53 Start: 36261, Stop: 36428, Start Num: 5  
Candidate Starts for Phaby\_53:  
(1, 36162), (2, 36168), (Start: 5 @36261 has 28 MA's),

Gene: Pumpernickel\_237 Start: 140059, Stop: 140232, Start Num: 5  
Candidate Starts for Pumpernickel\_237:  
(4, 140056), (Start: 5 @140059 has 28 MA's), (7, 140080), (9, 140092), (11, 140119), (15, 140212),

Gene: ScienceWizSam\_51 Start: 35736, Stop: 35906, Start Num: 5  
Candidate Starts for ScienceWizSam\_51:  
(Start: 5 @35736 has 28 MA's),

Gene: Shepard\_53 Start: 35563, Stop: 35733, Start Num: 5  
Candidate Starts for Shepard\_53:  
(1, 35464), (2, 35470), (Start: 5 @35563 has 28 MA's),

Gene: Synopsis\_49 Start: 35804, Stop: 35974, Start Num: 5  
Candidate Starts for Synopsis\_49:  
(Start: 5 @35804 has 28 MA's),

Gene: Teacup\_51 Start: 36164, Stop: 36334, Start Num: 5  
Candidate Starts for Teacup\_51:  
(Start: 5 @36164 has 28 MA's),

Gene: Tenno\_51 Start: 36467, Stop: 36637, Start Num: 5  
Candidate Starts for Tenno\_51:  
(Start: 5 @36467 has 28 MA's),

Gene: Tokki\_55 Start: 35895, Stop: 36062, Start Num: 5  
Candidate Starts for Tokki\_55:

(1, 35796), (2, 35802), (Start: 5 @35895 has 28 MA's),

Gene: Truckee\_48 Start: 35488, Stop: 35670, Start Num: 5

Candidate Starts for Truckee\_48:

(3, 35428), (Start: 5 @35488 has 28 MA's), (8, 35515), (16, 35644),

Gene: Trustiboi\_50 Start: 36005, Stop: 36175, Start Num: 5

Candidate Starts for Trustiboi\_50:

(Start: 5 @36005 has 28 MA's),