



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 221842 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221842 has 17 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Brunswick\_81
- Track 2 : Darby\_76
- Track 3 : Synepsis\_74, CastorTray\_82, AreFloNak\_83, Trustiboi\_78, Nivinsha\_80
- Track 4 : Niktson\_79, ElephantMan\_79
- Track 5 : ScienceWizSam\_80, DevitoJr\_78, Nightmare\_80, Tatanka\_73
- Track 6 : Acai\_77
- Track 7 : Bouchard\_82
- Track 8 : GantcherGoblin\_86
- Track 9 : Tenney120\_90

### ***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 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai\_77, AreFloNak\_83, Brunswick\_81, CastorTray\_82, Darby\_76, DevitoJr\_78, ElephantMan\_79, Nightmare\_80, Niktson\_79, Nivinsha\_80, ScienceWizSam\_80, Synepsis\_74, Tatanka\_73, Trustiboi\_78,

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

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

- Bouchard\_82, GantcherGoblin\_86, Tenney120\_90,

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

Start 5:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GantcherGoblin\_86 (AU6), Tenney120\_90 (AU6),

Start 6:

- Found in 14 of 17 ( 82.4% ) of genes in pham
- Manual Annotations of this start: 11 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acai\_77 (AU1), AreFloNak\_83 (AU1), Brunswick\_81 (AU1), CastorTray\_82 (AU1), Darby\_76 (AU1), DevitoJr\_78 (AU1), ElephantMan\_79 (AU1), Nightmare\_80 (AU1), Niktson\_79 (AU1), Nivinsha\_80 (AU1), ScienceWizSam\_80 (AU1), Synepsis\_74 (AU1), Tatanka\_73 (AU1), Trustiboi\_78 (AU1),

Start 7:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bouchard\_82 (AU2),

**Summary by clusters:**

There are 3 clusters represented in this pham: AU1, AU2, AU6,

Info for manual annotations of cluster AU1:

- Start number 6 was manually annotated 11 times for cluster AU1.

Info for manual annotations of cluster AU6:

- Start number 5 was manually annotated 1 time for cluster AU6.

**Gene Information:**

Gene: Acai\_77 Start: 51061, Stop: 51291, Start Num: 6

Candidate Starts for Acai\_77:

(Start: 6 @51061 has 11 MA's), (12, 51271),

Gene: AreFloNak\_83 Start: 50922, Stop: 51155, Start Num: 6

Candidate Starts for AreFloNak\_83:

(Start: 6 @50922 has 11 MA's), (12, 51135),

Gene: Bouchard\_82 Start: 51534, Stop: 51761, Start Num: 7

Candidate Starts for Bouchard\_82:

(3, 51477), (7, 51534), (11, 51705), (12, 51741),

Gene: Brunswick\_81 Start: 51309, Stop: 51539, Start Num: 6

Candidate Starts for Brunswick\_81:

(1, 51216), (Start: 6 @51309 has 11 MA's), (12, 51519),

Gene: CastorTray\_82 Start: 51690, Stop: 51923, Start Num: 6

Candidate Starts for CastorTray\_82:

(Start: 6 @51690 has 11 MA's), (12, 51903),

Gene: Darby\_76 Start: 50736, Stop: 50969, Start Num: 6

Candidate Starts for Darby\_76:  
(Start: 6 @50736 has 11 MA's), (12, 50949),

Gene: DevitoJr\_78 Start: 50862, Stop: 51095, Start Num: 6  
Candidate Starts for DevitoJr\_78:  
(Start: 6 @50862 has 11 MA's), (12, 51075),

Gene: ElephantMan\_79 Start: 51646, Stop: 51876, Start Num: 6  
Candidate Starts for ElephantMan\_79:  
(2, 51559), (Start: 6 @51646 has 11 MA's), (12, 51856),

Gene: GantcherGoblin\_86 Start: 50607, Stop: 50828, Start Num: 5  
Candidate Starts for GantcherGoblin\_86:  
(4, 50577), (Start: 5 @50607 has 1 MA's), (8, 50703), (9, 50751), (10, 50778),

Gene: Nightmare\_80 Start: 51816, Stop: 52049, Start Num: 6  
Candidate Starts for Nightmare\_80:  
(Start: 6 @51816 has 11 MA's), (12, 52029),

Gene: Niktson\_79 Start: 51646, Stop: 51876, Start Num: 6  
Candidate Starts for Niktson\_79:  
(2, 51559), (Start: 6 @51646 has 11 MA's), (12, 51856),

Gene: Nivinsha\_80 Start: 50923, Stop: 51156, Start Num: 6  
Candidate Starts for Nivinsha\_80:  
(Start: 6 @50923 has 11 MA's), (12, 51136),

Gene: ScienceWizSam\_80 Start: 51035, Stop: 51268, Start Num: 6  
Candidate Starts for ScienceWizSam\_80:  
(Start: 6 @51035 has 11 MA's), (12, 51248),

Gene: Synopsis\_74 Start: 50849, Stop: 51082, Start Num: 6  
Candidate Starts for Synopsis\_74:  
(Start: 6 @50849 has 11 MA's), (12, 51062),

Gene: Tatanka\_73 Start: 51021, Stop: 51254, Start Num: 6  
Candidate Starts for Tatanka\_73:  
(Start: 6 @51021 has 11 MA's), (12, 51234),

Gene: Tenney120\_90 Start: 51158, Stop: 51379, Start Num: 5  
Candidate Starts for Tenney120\_90:  
(Start: 5 @51158 has 1 MA's), (9, 51302), (10, 51329),

Gene: Trustiboi\_78 Start: 51380, Stop: 51613, Start Num: 6  
Candidate Starts for Trustiboi\_78:  
(Start: 6 @51380 has 11 MA's), (12, 51593),