



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 163942 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163942 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : NoShow\_5
- Track 2 : Saguaro\_73
- Track 3 : LittleLaf\_21, JoieB\_22, Clarkson\_22, Beelzebub\_25, Marvin\_20, VasuNzinga\_20, Pringar\_21, Corazon\_20
- Track 4 : Lilbit\_22
- Track 5 : RedRaider77\_22, Poise\_22, Blackbeetle\_22, MosMoris\_20, Caprice\_18, Huphlepuuff\_23, Tesla\_21, Gattaca\_21, Raela\_22

### ***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 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_25, Blackbeetle\_22, Caprice\_18, Clarkson\_22, Corazon\_20, Gattaca\_21, Huphlepuuff\_23, JoieB\_22, LittleLaf\_21, Marvin\_20, MosMoris\_20, Poise\_22, Pringar\_21, Raela\_22, RedRaider77\_22, Tesla\_21, VasuNzinga\_20,

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

- Lilbit\_22,

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

- NoShow\_5, Saguaro\_73,

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

Start 2:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow\_5 (AB),

Start 3:

- Found in 18 of 20 ( 90.0% ) of genes in pham

- Manual Annotations of this start: 16 of 18
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Beelzebub\_25 (S), Blackbeetle\_22 (S), Caprice\_18 (S), Clarkson\_22 (S), Corazon\_20 (S), Gattaca\_21 (S), Huphlepuuff\_23 (S), JoieB\_22 (S), LittleLaf\_21 (S), Marvin\_20 (S), MosMoris\_20 (S), Poise\_22 (S), Pringar\_21 (S), Raela\_22 (S), RedRaider77\_22 (S), Tesla\_21 (S), VasuNzinga\_20 (S),

#### Start 4:

- Found in 1 of 20 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Saguaro\_73 (B7),

#### Start 5:

- Found in 18 of 20 ( 90.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Lilbit\_22 (S),

### **Summary by clusters:**

There are 3 clusters represented in this pham: S, AB, B7,

Info for manual annotations of cluster AB:

- Start number 2 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster B7:

- Start number 4 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster S:

- Start number 3 was manually annotated 16 times for cluster S.

### **Gene Information:**

Gene: Beelzebub\_25 Start: 6549, Stop: 6704, Start Num: 3

Candidate Starts for Beelzebub\_25:

(Start: 3 @6549 has 16 MA's), (5, 6588),

Gene: Blackbeetle\_22 Start: 5882, Stop: 6037, Start Num: 3

Candidate Starts for Blackbeetle\_22:

(Start: 3 @5882 has 16 MA's), (5, 5921), (7, 5960),

Gene: Caprice\_18 Start: 5113, Stop: 5268, Start Num: 3

Candidate Starts for Caprice\_18:

(Start: 3 @5113 has 16 MA's), (5, 5152), (7, 5191),

Gene: Clarkson\_22 Start: 6250, Stop: 6405, Start Num: 3

Candidate Starts for Clarkson\_22:

(Start: 3 @6250 has 16 MA's), (5, 6289),

Gene: Corazon\_20 Start: 6203, Stop: 6358, Start Num: 3  
Candidate Starts for Corazon\_20:  
(Start: 3 @6203 has 16 MA's), (5, 6242),

Gene: Gattaca\_21 Start: 5771, Stop: 5926, Start Num: 3  
Candidate Starts for Gattaca\_21:  
(Start: 3 @5771 has 16 MA's), (5, 5810), (7, 5849),

Gene: Huphleuff\_23 Start: 6055, Stop: 6210, Start Num: 3  
Candidate Starts for Huphleuff\_23:  
(Start: 3 @6055 has 16 MA's), (5, 6094), (7, 6133),

Gene: JoieB\_22 Start: 6274, Stop: 6429, Start Num: 3  
Candidate Starts for JoieB\_22:  
(Start: 3 @6274 has 16 MA's), (5, 6313),

Gene: Lilbit\_22 Start: 6290, Stop: 6406, Start Num: 5  
Candidate Starts for Lilbit\_22:  
(Start: 3 @6251 has 16 MA's), (5, 6290),

Gene: LittleLaf\_21 Start: 5980, Stop: 6135, Start Num: 3  
Candidate Starts for LittleLaf\_21:  
(Start: 3 @5980 has 16 MA's), (5, 6019),

Gene: Marvin\_20 Start: 6250, Stop: 6405, Start Num: 3  
Candidate Starts for Marvin\_20:  
(Start: 3 @6250 has 16 MA's), (5, 6289),

Gene: MosMoris\_20 Start: 5771, Stop: 5926, Start Num: 3  
Candidate Starts for MosMoris\_20:  
(Start: 3 @5771 has 16 MA's), (5, 5810), (7, 5849),

Gene: NoShow\_5 Start: 4743, Stop: 4907, Start Num: 2  
Candidate Starts for NoShow\_5:  
(1, 4698), (Start: 2 @4743 has 1 MA's),

Gene: Poise\_22 Start: 5882, Stop: 6037, Start Num: 3  
Candidate Starts for Poise\_22:  
(Start: 3 @5882 has 16 MA's), (5, 5921), (7, 5960),

Gene: Pringar\_21 Start: 5880, Stop: 6035, Start Num: 3  
Candidate Starts for Pringar\_21:  
(Start: 3 @5880 has 16 MA's), (5, 5919),

Gene: Raela\_22 Start: 6437, Stop: 6592, Start Num: 3  
Candidate Starts for Raela\_22:  
(Start: 3 @6437 has 16 MA's), (5, 6476), (7, 6515),

Gene: RedRaider77\_22 Start: 6021, Stop: 6176, Start Num: 3  
Candidate Starts for RedRaider77\_22:  
(Start: 3 @6021 has 16 MA's), (5, 6060), (7, 6099),

Gene: Saguaro\_73 Start: 61316, Stop: 61456, Start Num: 4

Candidate Starts for Saguaro\_73:  
(Start: 4 @61316 has 1 MA's), (6, 61373),

Gene: Tesla\_21 Start: 5873, Stop: 6028, Start Num: 3  
Candidate Starts for Tesla\_21:  
(Start: 3 @5873 has 16 MA's), (5, 5912), (7, 5951),

Gene: VasuNzinga\_20 Start: 5457, Stop: 5612, Start Num: 3  
Candidate Starts for VasuNzinga\_20:  
(Start: 3 @5457 has 16 MA's), (5, 5496),