



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 203316 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203316 has 21 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Chupacabra\_42, Goose\_43, OKCentral2016\_42
- Track 2 : PeaceMeal1\_41, KittenMittens\_40, Poompha\_42, Severus\_41, Drake94\_41
- Track 3 : Shapes\_47, DustyMartin\_47, Twister\_41, WalterMcMickey\_41, Edison31\_42, RhynO\_44, Topanga\_41, Rowdy\_47
- Track 4 : Kristoff\_43
- Track 5 : Eaglepride\_44
- Track 6 : Trike\_40
- Track 7 : DontArgue\_42
- Track 8 : Rebeuca\_43

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

The start number called the most often in the published annotations is 4, it was called in 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chupacabra\_42, DontArgue\_42, Drake94\_41, DustyMartin\_47, Eaglepride\_44, Edison31\_42, Goose\_43, KittenMittens\_40, Kristoff\_43, OKCentral2016\_42, PeaceMeal1\_41, Poompha\_42, Rebeuca\_43, RhynO\_44, Rowdy\_47, Severus\_41, Shapes\_47, Topanga\_41, Trike\_40, Twister\_41, WalterMcMickey\_41,

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 4:

- Found in 21 of 21 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 17 of 17
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Chupacabra\_42 (A10), DontArgue\_42 (A10), Drake94\_41 (A10), DustyMartin\_47 (A10), Eaglepride\_44 (A10), Edison31\_42 (A10), Goose\_43 (A10), KittenMittens\_40 (A10), Kristoff\_43 (A10), OKCentral2016\_42 (A10), PeaceMeal1\_41 (A10), Poompha\_42 (A10), Rebeuca\_43 (A10), RhynO\_44 (A10), Rowdy\_47 (A10), Severus\_41 (A10), Shapes\_47 (A10), Topanga\_41 (A10), Trike\_40 (A10), Twister\_41 (A10), WalterMcMickey\_41 (A10),

### **Summary by clusters:**

There is one cluster represented in this pham: A10

Info for manual annotations of cluster A10:

•Start number 4 was manually annotated 17 times for cluster A10.

### **Gene Information:**

Gene: Chupacabra\_42 Start: 29275, Stop: 29105, Start Num: 4

Candidate Starts for Chupacabra\_42:

(Start: 4 @29275 has 17 MA's), (6, 29260), (8, 29227), (9, 29197), (12, 29143),

Gene: DontArgue\_42 Start: 28524, Stop: 28354, Start Num: 4

Candidate Starts for DontArgue\_42:

(1, 28755), (3, 28653), (Start: 4 @28524 has 17 MA's), (12, 28392),

Gene: Drake94\_41 Start: 28536, Stop: 28366, Start Num: 4

Candidate Starts for Drake94\_41:

(Start: 4 @28536 has 17 MA's), (8, 28488), (12, 28404),

Gene: DustyMartin\_47 Start: 29355, Stop: 29188, Start Num: 4

Candidate Starts for DustyMartin\_47:

(Start: 4 @29355 has 17 MA's), (5, 29343), (7, 29337), (10, 29250), (12, 29226),

Gene: Eaglepride\_44 Start: 29372, Stop: 29205, Start Num: 4

Candidate Starts for Eaglepride\_44:

(Start: 4 @29372 has 17 MA's), (7, 29354), (12, 29243),

Gene: Edison31\_42 Start: 29295, Stop: 29128, Start Num: 4

Candidate Starts for Edison31\_42:

(Start: 4 @29295 has 17 MA's), (5, 29283), (7, 29277), (10, 29190), (12, 29166),

Gene: Goose\_43 Start: 29079, Stop: 28909, Start Num: 4

Candidate Starts for Goose\_43:

(Start: 4 @29079 has 17 MA's), (6, 29064), (8, 29031), (9, 29001), (12, 28947),

Gene: KittenMittens\_40 Start: 28544, Stop: 28374, Start Num: 4

Candidate Starts for KittenMittens\_40:

(Start: 4 @28544 has 17 MA's), (8, 28496), (12, 28412),

Gene: Kristoff\_43 Start: 29647, Stop: 29477, Start Num: 4

Candidate Starts for Kristoff\_43:

(Start: 4 @29647 has 17 MA's), (6, 29632), (8, 29599), (12, 29515), (13, 29485),

Gene: OKCentral2016\_42 Start: 28982, Stop: 28812, Start Num: 4  
Candidate Starts for OKCentral2016\_42:  
(Start: 4 @28982 has 17 MA's), (6, 28967), (8, 28934), (9, 28904), (12, 28850),

Gene: PeaceMeal1\_41 Start: 28545, Stop: 28375, Start Num: 4  
Candidate Starts for PeaceMeal1\_41:  
(Start: 4 @28545 has 17 MA's), (8, 28497), (12, 28413),

Gene: Poompha\_42 Start: 28543, Stop: 28373, Start Num: 4  
Candidate Starts for Poompha\_42:  
(Start: 4 @28543 has 17 MA's), (8, 28495), (12, 28411),

Gene: Rebeuca\_43 Start: 29648, Stop: 29478, Start Num: 4  
Candidate Starts for Rebeuca\_43:  
(Start: 4 @29648 has 17 MA's), (6, 29633), (8, 29600), (11, 29531), (12, 29516),

Gene: RhynO\_44 Start: 29447, Stop: 29280, Start Num: 4  
Candidate Starts for RhynO\_44:  
(Start: 4 @29447 has 17 MA's), (5, 29435), (7, 29429), (10, 29342), (12, 29318),

Gene: Rowdy\_47 Start: 29355, Stop: 29188, Start Num: 4  
Candidate Starts for Rowdy\_47:  
(Start: 4 @29355 has 17 MA's), (5, 29343), (7, 29337), (10, 29250), (12, 29226),

Gene: Severus\_41 Start: 28543, Stop: 28373, Start Num: 4  
Candidate Starts for Severus\_41:  
(Start: 4 @28543 has 17 MA's), (8, 28495), (12, 28411),

Gene: Shapes\_47 Start: 29355, Stop: 29188, Start Num: 4  
Candidate Starts for Shapes\_47:  
(Start: 4 @29355 has 17 MA's), (5, 29343), (7, 29337), (10, 29250), (12, 29226),

Gene: Topanga\_41 Start: 29297, Stop: 29130, Start Num: 4  
Candidate Starts for Topanga\_41:  
(Start: 4 @29297 has 17 MA's), (5, 29285), (7, 29279), (10, 29192), (12, 29168),

Gene: Trike\_40 Start: 28376, Stop: 28206, Start Num: 4  
Candidate Starts for Trike\_40:  
(2, 28532), (Start: 4 @28376 has 17 MA's), (8, 28328), (12, 28244),

Gene: Twister\_41 Start: 29208, Stop: 29041, Start Num: 4  
Candidate Starts for Twister\_41:  
(Start: 4 @29208 has 17 MA's), (5, 29196), (7, 29190), (10, 29103), (12, 29079),

Gene: WalterMcMickey\_41 Start: 29208, Stop: 29041, Start Num: 4  
Candidate Starts for WalterMcMickey\_41:  
(Start: 4 @29208 has 17 MA's), (5, 29196), (7, 29190), (10, 29103), (12, 29079),