



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 192993 Report

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

Pham number 192993 has 15 members, 0 are drafts.

Phages represented in each track:

- Track 1 : NancyRae\_17
- Track 2 : Ayotoya\_17, Chop\_17, Hamood\_17, GrandSlam\_17
- Track 3 : Parada\_17, Nadeem\_17, WheatThin\_17, Brylie\_17, Pimento\_18, Mulch\_17, BetterKatz\_17, Bock\_17
- Track 4 : Francois\_17
- Track 5 : DelRio\_18

### ***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 14 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_17, BetterKatz\_17, Bock\_17, Brylie\_17, Chop\_17, DelRio\_18, GrandSlam\_17, Hamood\_17, Mulch\_17, Nadeem\_17, NancyRae\_17, Parada\_17, Pimento\_18, WheatThin\_17,

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

- Francois\_17,

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

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

Start 4:

- Found in 6 of 15 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Francois\_17 (DI),

Start 5:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 15

- Called 93.3% of time when present
- Phage (with cluster) where this start called: Ayotoya\_17 (DI), BetterKatz\_17 (DI), Bock\_17 (DI), Brylie\_17 (DI), Chop\_17 (DI), DelRio\_18 (DI), GrandSlam\_17 (DI), Hamood\_17 (DI), Mulch\_17 (DI), Nadeem\_17 (DI), NancyRae\_17 (DI), Parada\_17 (DI), Pimento\_18 (DI), WheatThin\_17 (DI),

### **Summary by clusters:**

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

- Start number 4 was manually annotated 1 time for cluster DI.
- Start number 5 was manually annotated 14 times for cluster DI.

### **Gene Information:**

Gene: Ayotoya\_17 Start: 10530, Stop: 10919, Start Num: 5

Candidate Starts for Ayotoya\_17:

(1, 10014), (2, 10173), (3, 10197), (Start: 4 @10527 has 1 MA's), (Start: 5 @10530 has 14 MA's), (6, 10839),

Gene: BetterKatz\_17 Start: 10498, Stop: 10860, Start Num: 5

Candidate Starts for BetterKatz\_17:

(2, 10141), (3, 10165), (Start: 5 @10498 has 14 MA's),

Gene: Bock\_17 Start: 10248, Stop: 10610, Start Num: 5

Candidate Starts for Bock\_17:

(2, 9891), (3, 9915), (Start: 5 @10248 has 14 MA's),

Gene: Brylie\_17 Start: 10245, Stop: 10607, Start Num: 5

Candidate Starts for Brylie\_17:

(2, 9888), (3, 9912), (Start: 5 @10245 has 14 MA's),

Gene: Chop\_17 Start: 10278, Stop: 10667, Start Num: 5

Candidate Starts for Chop\_17:

(1, 9762), (2, 9921), (3, 9945), (Start: 4 @10275 has 1 MA's), (Start: 5 @10278 has 14 MA's), (6, 10587),

Gene: DelRio\_18 Start: 10755, Stop: 11141, Start Num: 5

Candidate Starts for DelRio\_18:

(1, 10239), (2, 10398), (3, 10422), (Start: 4 @10752 has 1 MA's), (Start: 5 @10755 has 14 MA's),

Gene: Francois\_17 Start: 10256, Stop: 10624, Start Num: 4

Candidate Starts for Francois\_17:

(2, 9902), (3, 9926), (Start: 4 @10256 has 1 MA's), (Start: 5 @10259 has 14 MA's),

Gene: GrandSlam\_17 Start: 10278, Stop: 10667, Start Num: 5

Candidate Starts for GrandSlam\_17:

(1, 9762), (2, 9921), (3, 9945), (Start: 4 @10275 has 1 MA's), (Start: 5 @10278 has 14 MA's), (6, 10587),

Gene: Hamood\_17 Start: 10278, Stop: 10667, Start Num: 5  
Candidate Starts for Hamood\_17:  
(1, 9762), (2, 9921), (3, 9945), (Start: 4 @10275 has 1 MA's), (Start: 5 @10278 has 14 MA's), (6, 10587),

Gene: Mulch\_17 Start: 10245, Stop: 10607, Start Num: 5  
Candidate Starts for Mulch\_17:  
(2, 9888), (3, 9912), (Start: 5 @10245 has 14 MA's),

Gene: Nadeem\_17 Start: 10245, Stop: 10607, Start Num: 5  
Candidate Starts for Nadeem\_17:  
(2, 9888), (3, 9912), (Start: 5 @10245 has 14 MA's),

Gene: NancyRae\_17 Start: 10245, Stop: 10607, Start Num: 5  
Candidate Starts for NancyRae\_17:  
(Start: 5 @10245 has 14 MA's),

Gene: Parada\_17 Start: 10245, Stop: 10607, Start Num: 5  
Candidate Starts for Parada\_17:  
(2, 9888), (3, 9912), (Start: 5 @10245 has 14 MA's),

Gene: Pimento\_18 Start: 10449, Stop: 10811, Start Num: 5  
Candidate Starts for Pimento\_18:  
(2, 10092), (3, 10116), (Start: 5 @10449 has 14 MA's),

Gene: WheatThin\_17 Start: 10245, Stop: 10607, Start Num: 5  
Candidate Starts for WheatThin\_17:  
(2, 9888), (3, 9912), (Start: 5 @10245 has 14 MA's),