



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 4690 Report

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

Pham number 4690 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ayotoya\_5, NancyRae\_5, Pimento\_4, Chop\_5, WheatThin\_5, GrandSlam\_5, DelRio\_5, Parada\_5
- Track 2 : Brylie\_5, Hamood\_5, Francois\_5, Mulch\_5, Bock\_5, Nadeem\_5, BetterKatz\_5

### ***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 7 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ayotoya\_5, Chop\_5, DelRio\_5, GrandSlam\_5, NancyRae\_5, Parada\_5, Pimento\_4, WheatThin\_5,

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

- BetterKatz\_5, Bock\_5, Brylie\_5, Francois\_5, Hamood\_5, Mulch\_5, Nadeem\_5,

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

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

Start 2:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 46.7% of time when present
- Phage (with cluster) where this start called: BetterKatz\_5 (DI), Bock\_5 (DI), Brylie\_5 (DI), Francois\_5 (DI), Hamood\_5 (DI), Mulch\_5 (DI), Nadeem\_5 (DI),

Start 3:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 13
- Called 53.3% of time when present

- Phage (with cluster) where this start called: Ayotoya\_5 (DI), Chop\_5 (DI), DelRio\_5 (DI), GrandSlam\_5 (DI), NancyRae\_5 (DI), Parada\_5 (DI), Pimento\_4 (DI), WheatThin\_5 (DI),

### **Summary by clusters:**

There is one cluster represented in this pham: DI

Info for manual annotations of cluster DI:

- Start number 2 was manually annotated 6 times for cluster DI.
- Start number 3 was manually annotated 7 times for cluster DI.

### **Gene Information:**

Gene: Ayotoya\_5 Start: 1746, Stop: 2147, Start Num: 3

Candidate Starts for Ayotoya\_5:

(1, 1542), (Start: 2 @1728 has 6 MA's), (Start: 3 @1746 has 7 MA's), (4, 1770), (5, 1938), (6, 2013),

Gene: BetterKatz\_5 Start: 1729, Stop: 2148, Start Num: 2

Candidate Starts for BetterKatz\_5:

(1, 1543), (Start: 2 @1729 has 6 MA's), (Start: 3 @1747 has 7 MA's), (4, 1771), (5, 1939), (6, 2014),

Gene: Bock\_5 Start: 1476, Stop: 1898, Start Num: 2

Candidate Starts for Bock\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Brylie\_5 Start: 1476, Stop: 1895, Start Num: 2

Candidate Starts for Brylie\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Chop\_5 Start: 1494, Stop: 1895, Start Num: 3

Candidate Starts for Chop\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: DelRio\_5 Start: 1746, Stop: 2147, Start Num: 3

Candidate Starts for DelRio\_5:

(1, 1542), (Start: 2 @1728 has 6 MA's), (Start: 3 @1746 has 7 MA's), (4, 1770), (5, 1938), (6, 2013),

Gene: Francois\_5 Start: 1478, Stop: 1894, Start Num: 2

Candidate Starts for Francois\_5:

(1, 1292), (Start: 2 @1478 has 6 MA's), (Start: 3 @1496 has 7 MA's), (4, 1517), (5, 1685), (6, 1760),

Gene: GrandSlam\_5 Start: 1494, Stop: 1895, Start Num: 3

Candidate Starts for GrandSlam\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Hamood\_5 Start: 1476, Stop: 1895, Start Num: 2

Candidate Starts for Hamood\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Mulch\_5 Start: 1476, Stop: 1895, Start Num: 2

Candidate Starts for Mulch\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Nadeem\_5 Start: 1476, Stop: 1895, Start Num: 2

Candidate Starts for Nadeem\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: NancyRae\_5 Start: 1494, Stop: 1895, Start Num: 3

Candidate Starts for NancyRae\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Parada\_5 Start: 1494, Stop: 1895, Start Num: 3

Candidate Starts for Parada\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: Pimento\_4 Start: 1494, Stop: 1895, Start Num: 3

Candidate Starts for Pimento\_4:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),

Gene: WheatThin\_5 Start: 1494, Stop: 1895, Start Num: 3

Candidate Starts for WheatThin\_5:

(1, 1290), (Start: 2 @1476 has 6 MA's), (Start: 3 @1494 has 7 MA's), (4, 1518), (5, 1686), (6, 1761),