



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 162415 Report

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

Pham number 162415 has 9 members, 1 are drafts.

Phages represented in each track:

- Track 1 : InvictusManeo\_56, Psycho\_58, Collard\_56, Larva\_59, AlleyCat\_60, Dadosky\_60
- Track 2 : Edugator\_57, Agent47\_56
- Track 3 : Kratio\_56

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlleyCat\_60, Collard\_56, Dadosky\_60, InvictusManeo\_56, Kratio\_56, Larva\_59, Psycho\_58,

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

- Agent47\_56, Edugator\_57,

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

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

Start 1:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 8
- Called 77.8% of time when present
- Phage (with cluster) where this start called: AlleyCat\_60 (K5), Collard\_56 (K5), Dadosky\_60 (K5), InvictusManeo\_56 (K5), Kratio\_56 (K5), Larva\_59 (K5), Psycho\_58 (K5),

Start 2:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 22.2% of time when present

- Phage (with cluster) where this start called: Agent47\_56 (K5), Edugator\_57 (K5),

### **Summary by clusters:**

There is one cluster represented in this pham: K5

Info for manual annotations of cluster K5:

- Start number 1 was manually annotated 7 times for cluster K5.
- Start number 2 was manually annotated 1 time for cluster K5.

### **Gene Information:**

Gene: Agent47\_56 Start: 39833, Stop: 40000, Start Num: 2

Candidate Starts for Agent47\_56:

(Start: 1 @39821 has 7 MA's), (Start: 2 @39833 has 1 MA's), (3, 39878), (4, 39938),

Gene: AlleyCat\_60 Start: 40119, Stop: 40298, Start Num: 1

Candidate Starts for AlleyCat\_60:

(Start: 1 @40119 has 7 MA's), (Start: 2 @40131 has 1 MA's), (3, 40176), (4, 40236),

Gene: Collard\_56 Start: 39782, Stop: 39961, Start Num: 1

Candidate Starts for Collard\_56:

(Start: 1 @39782 has 7 MA's), (Start: 2 @39794 has 1 MA's), (3, 39839), (4, 39899),

Gene: Dadosky\_60 Start: 40121, Stop: 40300, Start Num: 1

Candidate Starts for Dadosky\_60:

(Start: 1 @40121 has 7 MA's), (Start: 2 @40133 has 1 MA's), (3, 40178), (4, 40238),

Gene: Edugator\_57 Start: 41554, Stop: 41721, Start Num: 2

Candidate Starts for Edugator\_57:

(Start: 1 @41542 has 7 MA's), (Start: 2 @41554 has 1 MA's), (3, 41599), (4, 41659),

Gene: InvictusManeo\_56 Start: 39825, Stop: 40004, Start Num: 1

Candidate Starts for InvictusManeo\_56:

(Start: 1 @39825 has 7 MA's), (Start: 2 @39837 has 1 MA's), (3, 39882), (4, 39942),

Gene: Kratio\_56 Start: 39561, Stop: 39740, Start Num: 1

Candidate Starts for Kratio\_56:

(Start: 1 @39561 has 7 MA's), (Start: 2 @39573 has 1 MA's), (3, 39618),

Gene: Larva\_59 Start: 40993, Stop: 41172, Start Num: 1

Candidate Starts for Larva\_59:

(Start: 1 @40993 has 7 MA's), (Start: 2 @41005 has 1 MA's), (3, 41050), (4, 41110),

Gene: Psycho\_58 Start: 40118, Stop: 40297, Start Num: 1

Candidate Starts for Psycho\_58:

(Start: 1 @40118 has 7 MA's), (Start: 2 @40130 has 1 MA's), (3, 40175), (4, 40235),