



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 301859 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301859 has 16 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Sabourin\_60
- Track 2 : Kalimba\_60, Donkey\_60, Gambol\_61, Cappuccino\_60, Sooty\_60
- Track 3 : Mysterium\_59, SpecialK\_60, Moss\_60, Ashes\_60, RockScotty\_59, Beaupre\_59, Halsey\_60
- Track 4 : Stuu\_60, Giorgio\_59, Gumpizza\_59

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

Genes that call this "Most Annotated" start:

- Ashes\_60, Beaupre\_59, Cappuccino\_60, Donkey\_60, Gambol\_61, Halsey\_60, Kalimba\_60, Moss\_60, Mysterium\_59, RockScotty\_59, Sooty\_60, SpecialK\_60,

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

- Giorgio\_59, Gumpizza\_59, Sabourin\_60, Stuu\_60,

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

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

Start 3:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Giorgio\_59 (AZ5), Gumpizza\_59 (AZ5), Sabourin\_60 (AZ5), Stuu\_60 (AZ5),

Start 4:

- Found in 16 of 16 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 16
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Ashes\_60 (AZ5), Beaupre\_59 (AZ5), Cappuccino\_60 (AZ5), Donkey\_60 (AZ5), Gambol\_61 (AZ5), Halsey\_60 (AZ5), Kalimba\_60 (AZ5), Moss\_60 (AZ5), Mysterium\_59 (AZ5), RockScotty\_59 (AZ5), Sooty\_60 (AZ5), SpecialK\_60 (AZ5),

### **Summary by clusters:**

There is one cluster represented in this pham: AZ5

Info for manual annotations of cluster AZ5:

- Start number 3 was manually annotated 4 times for cluster AZ5.
- Start number 4 was manually annotated 12 times for cluster AZ5.

### **Gene Information:**

Gene: Ashes\_60 Start: 38817, Stop: 39089, Start Num: 4

Candidate Starts for Ashes\_60:

(Start: 3 @38760 has 4 MA's), (Start: 4 @38817 has 12 MA's),

Gene: Beaupre\_59 Start: 38627, Stop: 38899, Start Num: 4

Candidate Starts for Beaupre\_59:

(Start: 3 @38570 has 4 MA's), (Start: 4 @38627 has 12 MA's),

Gene: Cappuccino\_60 Start: 38667, Stop: 38939, Start Num: 4

Candidate Starts for Cappuccino\_60:

(1, 38586), (2, 38604), (Start: 3 @38610 has 4 MA's), (Start: 4 @38667 has 12 MA's), (5, 38817),

Gene: Donkey\_60 Start: 38657, Stop: 38929, Start Num: 4

Candidate Starts for Donkey\_60:

(1, 38576), (2, 38594), (Start: 3 @38600 has 4 MA's), (Start: 4 @38657 has 12 MA's), (5, 38807),

Gene: Gambol\_61 Start: 38676, Stop: 38948, Start Num: 4

Candidate Starts for Gambol\_61:

(1, 38595), (2, 38613), (Start: 3 @38619 has 4 MA's), (Start: 4 @38676 has 12 MA's), (5, 38826),

Gene: Giorgio\_59 Start: 38553, Stop: 38882, Start Num: 3

Candidate Starts for Giorgio\_59:

(Start: 3 @38553 has 4 MA's), (Start: 4 @38610 has 12 MA's),

Gene: Gumpizza\_59 Start: 38509, Stop: 38838, Start Num: 3

Candidate Starts for Gumpizza\_59:

(Start: 3 @38509 has 4 MA's), (Start: 4 @38566 has 12 MA's),

Gene: Halsey\_60 Start: 38807, Stop: 39079, Start Num: 4

Candidate Starts for Halsey\_60:

(Start: 3 @38750 has 4 MA's), (Start: 4 @38807 has 12 MA's),

Gene: Kalimba\_60 Start: 38654, Stop: 38926, Start Num: 4

Candidate Starts for Kalimba\_60:

(1, 38573), (2, 38591), (Start: 3 @38597 has 4 MA's), (Start: 4 @38654 has 12 MA's), (5, 38804),

Gene: Moss\_60 Start: 38754, Stop: 39026, Start Num: 4  
Candidate Starts for Moss\_60:  
(Start: 3 @38697 has 4 MA's), (Start: 4 @38754 has 12 MA's),

Gene: Mysterium\_59 Start: 38595, Stop: 38867, Start Num: 4  
Candidate Starts for Mysterium\_59:  
(Start: 3 @38538 has 4 MA's), (Start: 4 @38595 has 12 MA's),

Gene: RockScotty\_59 Start: 38590, Stop: 38862, Start Num: 4  
Candidate Starts for RockScotty\_59:  
(Start: 3 @38533 has 4 MA's), (Start: 4 @38590 has 12 MA's),

Gene: Sabourin\_60 Start: 38598, Stop: 38927, Start Num: 3  
Candidate Starts for Sabourin\_60:  
(1, 38574), (2, 38592), (Start: 3 @38598 has 4 MA's), (Start: 4 @38655 has 12 MA's), (5, 38805),

Gene: Sooty\_60 Start: 38669, Stop: 38941, Start Num: 4  
Candidate Starts for Sooty\_60:  
(1, 38588), (2, 38606), (Start: 3 @38612 has 4 MA's), (Start: 4 @38669 has 12 MA's), (5, 38819),

Gene: SpecialK\_60 Start: 38663, Stop: 38935, Start Num: 4  
Candidate Starts for SpecialK\_60:  
(Start: 3 @38606 has 4 MA's), (Start: 4 @38663 has 12 MA's),

Gene: Stuu\_60 Start: 38715, Stop: 39044, Start Num: 3  
Candidate Starts for Stuu\_60:  
(Start: 3 @38715 has 4 MA's), (Start: 4 @38772 has 12 MA's),