



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 144317 Report

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

Pham number 144317 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Evamon\_56, Nubi\_57, SmokingBunny\_57, Portcullis\_58, Salvador\_56, Togo\_56
- Track 2 : PinkCoffee\_59, ClamChowder\_59, KimmyK\_58, Barb\_59, Phlop\_56, Fugax\_60
- Track 3 : RogerDodger\_60, Wizard\_56, Gezellig\_59, Valary\_59, VanDeWege\_60, Halo3\_57, PullumCavea\_56
- Track 4 : Jambalaya\_56, Shinji\_56, Fireball\_59, Savbucketdawg\_56, Mutzi\_56, Danyall\_58
- Track 5 : Twister6\_60
- Track 6 : Bakery\_62
- Track 7 : Arri\_59
- Track 8 : YungMoney\_59
- Track 9 : TillyBobJoe\_59

### ***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 28 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_59, Bakery\_62, Barb\_59, ClamChowder\_59, Danyall\_58, Evamon\_56, Fireball\_59, Fugax\_60, Gezellig\_59, Halo3\_57, Jambalaya\_56, KimmyK\_58, Mutzi\_56, Nubi\_57, Phlop\_56, PinkCoffee\_59, Portcullis\_58, PullumCavea\_56, RogerDodger\_60, Salvador\_56, Savbucketdawg\_56, Shinji\_56, SmokingBunny\_57, TillyBobJoe\_59, Togo\_56, Twister6\_60, Valary\_59, VanDeWege\_60, Wizard\_56, YungMoney\_59,

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 1:

- Found in 30 of 30 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 28 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri\_59 (DC1), Bakery\_62 (DC1), Barb\_59 (DC1), ClamChowder\_59 (DC1), Danyall\_58 (DC1), Evamon\_56 (DC1), Fireball\_59 (DC1), Fugax\_60 (DC1), Gezellig\_59 (DC1), Halo3\_57 (DC1), Jambalaya\_56 (DC1), KimmyK\_58 (DC1), Mutzi\_56 (DC1), Nubi\_57 (DC1), Phlop\_56 (DC1), PinkCoffee\_59 (DC1), Portcullis\_58 (DC1), PullumCavea\_56 (DC1), RogerDodger\_60 (DC1), Salvador\_56 (DC1), Savbucketdawg\_56 (DC1), Shinji\_56 (DC1), SmokingBunny\_57 (DC1), TillyBobJoe\_59 (DC1), Togo\_56 (DC1), Twister6\_60 (DC1), Valary\_59 (DC1), VanDeWege\_60 (DC1), Wizard\_56 (DC1), YungMoney\_59 (DC1),

### Summary by clusters:

There is one cluster represented in this pham: DC1

Info for manual annotations of cluster DC1:

- Start number 1 was manually annotated 28 times for cluster DC1.

### Gene Information:

Gene: Arri\_59 Start: 43393, Stop: 43824, Start Num: 1

Candidate Starts for Arri\_59:

(Start: 1 @43393 has 28 MA's), (2, 43522), (3, 43549), (4, 43606), (5, 43660),

Gene: Bakery\_62 Start: 44583, Stop: 45014, Start Num: 1

Candidate Starts for Bakery\_62:

(Start: 1 @44583 has 28 MA's), (2, 44712), (3, 44739), (5, 44850),

Gene: Barb\_59 Start: 43430, Stop: 43861, Start Num: 1

Candidate Starts for Barb\_59:

(Start: 1 @43430 has 28 MA's), (2, 43559), (3, 43586), (5, 43697),

Gene: ClamChowder\_59 Start: 43430, Stop: 43861, Start Num: 1

Candidate Starts for ClamChowder\_59:

(Start: 1 @43430 has 28 MA's), (2, 43559), (3, 43586), (5, 43697),

Gene: Danyall\_58 Start: 43255, Stop: 43686, Start Num: 1

Candidate Starts for Danyall\_58:

(Start: 1 @43255 has 28 MA's), (2, 43384), (3, 43411), (4, 43468), (5, 43522),

Gene: Evamon\_56 Start: 43157, Stop: 43588, Start Num: 1

Candidate Starts for Evamon\_56:

(Start: 1 @43157 has 28 MA's), (2, 43286), (3, 43313), (4, 43370), (5, 43424),

Gene: Fireball\_59 Start: 43890, Stop: 44321, Start Num: 1

Candidate Starts for Fireball\_59:

(Start: 1 @43890 has 28 MA's), (2, 44019), (3, 44046), (4, 44103), (5, 44157),

Gene: Fugax\_60 Start: 43422, Stop: 43853, Start Num: 1  
Candidate Starts for Fugax\_60:  
(Start: 1 @43422 has 28 MA's), (2, 43551), (3, 43578), (5, 43689),

Gene: Gezellig\_59 Start: 43261, Stop: 43692, Start Num: 1  
Candidate Starts for Gezellig\_59:  
(Start: 1 @43261 has 28 MA's), (2, 43390), (3, 43417), (4, 43474), (5, 43528),

Gene: Halo3\_57 Start: 43846, Stop: 44277, Start Num: 1  
Candidate Starts for Halo3\_57:  
(Start: 1 @43846 has 28 MA's), (2, 43975), (3, 44002), (4, 44059), (5, 44113),

Gene: Jambalaya\_56 Start: 43053, Stop: 43484, Start Num: 1  
Candidate Starts for Jambalaya\_56:  
(Start: 1 @43053 has 28 MA's), (2, 43182), (3, 43209), (4, 43266), (5, 43320),

Gene: KimmyK\_58 Start: 43864, Stop: 44295, Start Num: 1  
Candidate Starts for KimmyK\_58:  
(Start: 1 @43864 has 28 MA's), (2, 43993), (3, 44020), (5, 44131),

Gene: Mutzi\_56 Start: 44382, Stop: 44813, Start Num: 1  
Candidate Starts for Mutzi\_56:  
(Start: 1 @44382 has 28 MA's), (2, 44511), (3, 44538), (4, 44595), (5, 44649),

Gene: Nubi\_57 Start: 43262, Stop: 43693, Start Num: 1  
Candidate Starts for Nubi\_57:  
(Start: 1 @43262 has 28 MA's), (2, 43391), (3, 43418), (4, 43475), (5, 43529),

Gene: Phlop\_56 Start: 43336, Stop: 43767, Start Num: 1  
Candidate Starts for Phlop\_56:  
(Start: 1 @43336 has 28 MA's), (2, 43465), (3, 43492), (5, 43603),

Gene: PinkCoffee\_59 Start: 43439, Stop: 43870, Start Num: 1  
Candidate Starts for PinkCoffee\_59:  
(Start: 1 @43439 has 28 MA's), (2, 43568), (3, 43595), (5, 43706),

Gene: Portcullis\_58 Start: 43055, Stop: 43486, Start Num: 1  
Candidate Starts for Portcullis\_58:  
(Start: 1 @43055 has 28 MA's), (2, 43184), (3, 43211), (4, 43268), (5, 43322),

Gene: PullumCavea\_56 Start: 43336, Stop: 43767, Start Num: 1  
Candidate Starts for PullumCavea\_56:  
(Start: 1 @43336 has 28 MA's), (2, 43465), (3, 43492), (4, 43549), (5, 43603),

Gene: RogerDodger\_60 Start: 43458, Stop: 43889, Start Num: 1  
Candidate Starts for RogerDodger\_60:  
(Start: 1 @43458 has 28 MA's), (2, 43587), (3, 43614), (4, 43671), (5, 43725),

Gene: Salvador\_56 Start: 43155, Stop: 43586, Start Num: 1  
Candidate Starts for Salvador\_56:  
(Start: 1 @43155 has 28 MA's), (2, 43284), (3, 43311), (4, 43368), (5, 43422),

Gene: Savbucketdawg\_56 Start: 43053, Stop: 43484, Start Num: 1  
Candidate Starts for Savbucketdawg\_56:  
(Start: 1 @43053 has 28 MA's), (2, 43182), (3, 43209), (4, 43266), (5, 43320),

Gene: Shinji\_56 Start: 42816, Stop: 43247, Start Num: 1  
Candidate Starts for Shinji\_56:  
(Start: 1 @42816 has 28 MA's), (2, 42945), (3, 42972), (4, 43029), (5, 43083),

Gene: SmokingBunny\_57 Start: 43248, Stop: 43679, Start Num: 1  
Candidate Starts for SmokingBunny\_57:  
(Start: 1 @43248 has 28 MA's), (2, 43377), (3, 43404), (4, 43461), (5, 43515),

Gene: TillyBobJoe\_59 Start: 44770, Stop: 45225, Start Num: 1  
Candidate Starts for TillyBobJoe\_59:  
(Start: 1 @44770 has 28 MA's), (2, 44896), (3, 44950), (5, 45061),

Gene: Togo\_56 Start: 43248, Stop: 43679, Start Num: 1  
Candidate Starts for Togo\_56:  
(Start: 1 @43248 has 28 MA's), (2, 43377), (3, 43404), (4, 43461), (5, 43515),

Gene: Twister6\_60 Start: 43655, Stop: 44086, Start Num: 1  
Candidate Starts for Twister6\_60:  
(Start: 1 @43655 has 28 MA's), (2, 43784), (3, 43811), (4, 43868), (5, 43922),

Gene: Valary\_59 Start: 44063, Stop: 44494, Start Num: 1  
Candidate Starts for Valary\_59:  
(Start: 1 @44063 has 28 MA's), (2, 44192), (3, 44219), (4, 44276), (5, 44330),

Gene: VanDeWege\_60 Start: 43355, Stop: 43786, Start Num: 1  
Candidate Starts for VanDeWege\_60:  
(Start: 1 @43355 has 28 MA's), (2, 43484), (3, 43511), (4, 43568), (5, 43622),

Gene: Wizard\_56 Start: 43261, Stop: 43692, Start Num: 1  
Candidate Starts for Wizard\_56:  
(Start: 1 @43261 has 28 MA's), (2, 43390), (3, 43417), (4, 43474), (5, 43528),

Gene: YungMoney\_59 Start: 46924, Stop: 47355, Start Num: 1  
Candidate Starts for YungMoney\_59:  
(Start: 1 @46924 has 28 MA's), (2, 47053), (3, 47080), (5, 47191),