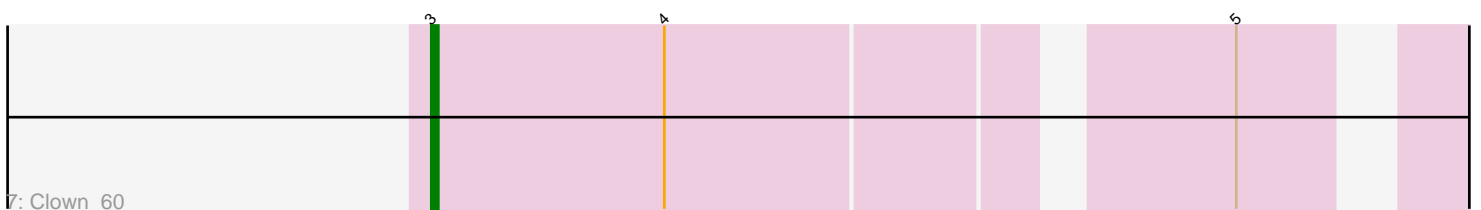
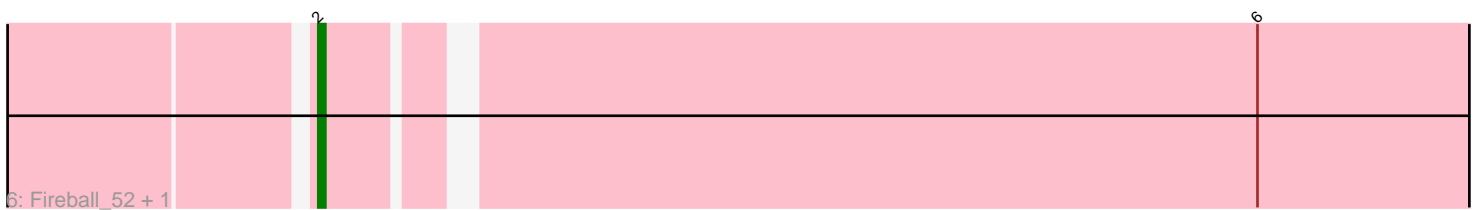
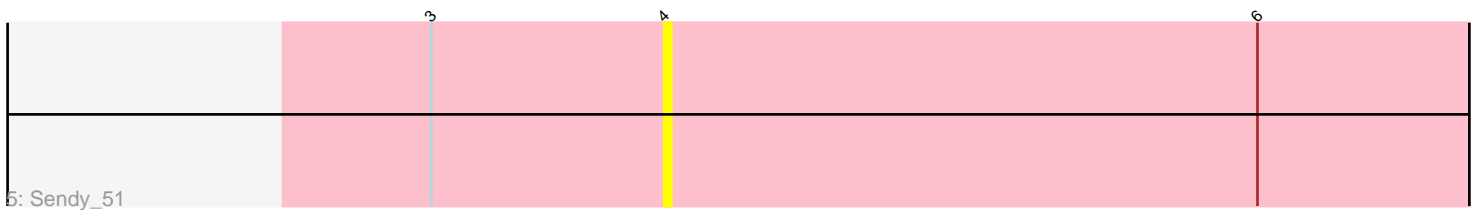
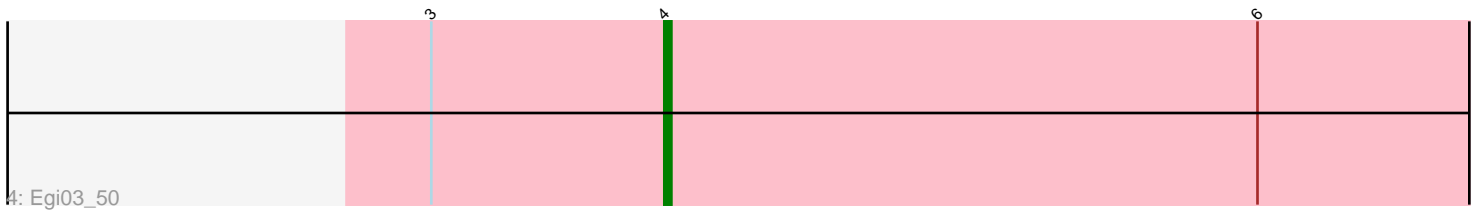
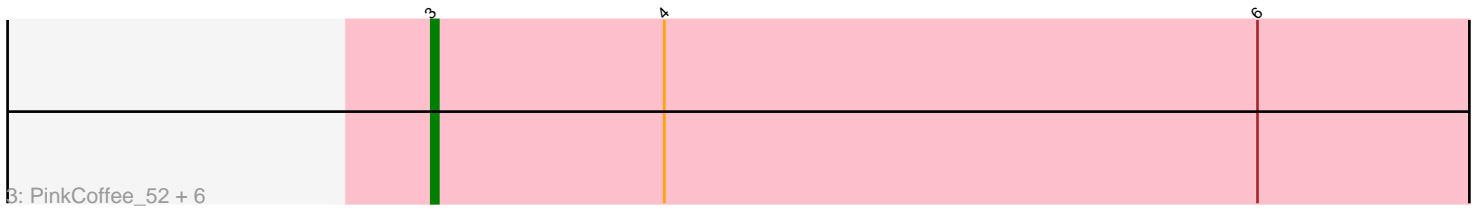
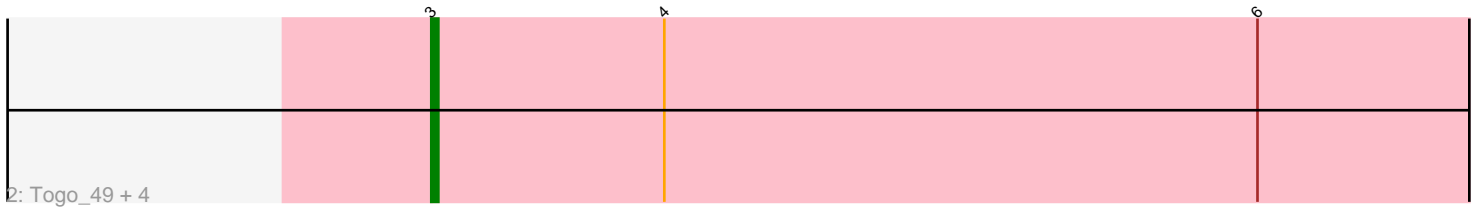
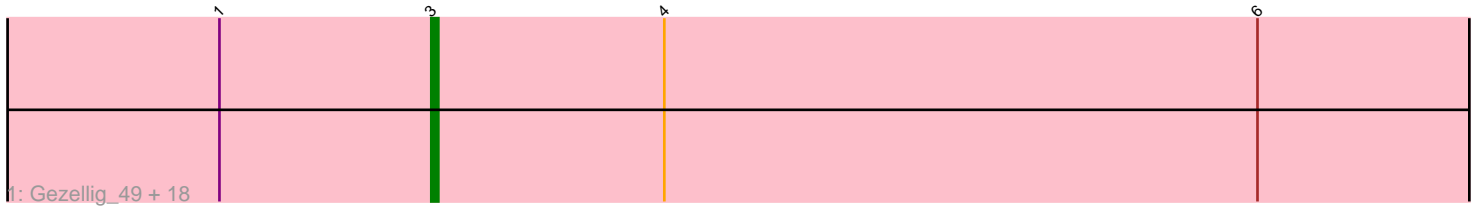


Pham 311819



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 311819 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311819 has 36 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Gezellig\_49, VanDeWege\_53, Jambalaya\_50, Bakery\_56, CherryCola\_52, Valary\_52, Shinji\_50, Portcullis\_52, RogerDodger\_53, Sixsevenium\_54, Wizard\_49, Mutzi\_50, Halo3\_51, Savbucketdawg\_50, Twister6\_52, Danyall\_52, Arri\_53, JohnPork\_53, SharkTale\_52
- Track 2 : Togo\_49, Evamon\_49, Nubi\_50, SmokingBunny\_50, Salvador\_49
- Track 3 : PinkCoffee\_52, ClamChowder\_52, Phlop\_49, KimmyK\_51, PullumCavea\_49, Barb\_52, Fugax\_53
- Track 4 : Egi03\_50
- Track 5 : Sendy\_51
- Track 6 : Fireball\_52, TillyBobJoe\_51
- Track 7 : Clown\_60

### ***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 28 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_53, Bakery\_56, Barb\_52, CherryCola\_52, ClamChowder\_52, Clown\_60, Danyall\_52, Evamon\_49, Fugax\_53, Gezellig\_49, Halo3\_51, Jambalaya\_50, JohnPork\_53, KimmyK\_51, Mutzi\_50, Nubi\_50, Phlop\_49, PinkCoffee\_52, Portcullis\_52, PullumCavea\_49, RogerDodger\_53, Salvador\_49, Savbucketdawg\_50, SharkTale\_52, Shinji\_50, Sixsevenium\_54, SmokingBunny\_50, Togo\_49, Twister6\_52, Valary\_52, VanDeWege\_53, Wizard\_49,

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

- Egi03\_50, Sendy\_51,

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

- Fireball\_52, TillyBobJoe\_51,

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

Start 2:

- Found in 2 of 36 ( 5.6% ) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fireball\_52 (DC1), TillyBobJoe\_51 (DC1),

#### Start 3:

- Found in 34 of 36 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 28 of 31
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Arri\_53 (DC1), Bakery\_56 (DC1), Barb\_52 (DC1), CherryCola\_52 (DC1), ClamChowder\_52 (DC1), Clown\_60 (DC2), Danyall\_52 (DC1), Evamon\_49 (DC1), Fugax\_53 (DC1), Gezellig\_49 (DC1), Halo3\_51 (DC1), Jambalaya\_50 (DC1), JohnPork\_53 (DC1), KimmyK\_51 (DC1), Mutzi\_50 (DC1), Nubi\_50 (DC1), Phlop\_49 (DC1), PinkCoffee\_52 (DC1), Portcullis\_52 (DC1), PullumCavea\_49 (DC1), RogerDodger\_53 (DC1), Salvador\_49 (DC1), Savbucketdawg\_50 (DC1), SharkTale\_52 (DC1), Shinji\_50 (DC1), Sixsevenium\_54 (DC1), SmokingBunny\_50 (DC1), Togo\_49 (DC1), Twister6\_52 (DC1), Valary\_52 (DC1), VanDeWege\_53 (DC1), Wizard\_49 (DC1),

#### Start 4:

- Found in 34 of 36 ( 94.4% ) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Egi03\_50 (DC1), Sendy\_51 (DC1),

### Summary by clusters:

There are 2 clusters represented in this pham: DC2, DC1,

Info for manual annotations of cluster DC1:

- Start number 2 was manually annotated 2 times for cluster DC1.
- Start number 3 was manually annotated 27 times for cluster DC1.
- Start number 4 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 3 was manually annotated 1 time for cluster DC2.

### Gene Information:

Gene: Arri\_53 Start: 40230, Stop: 40388, Start Num: 3

Candidate Starts for Arri\_53:

(1, 40200), (Start: 3 @40230 has 28 MA's), (Start: 4 @40263 has 1 MA's), (6, 40347),

Gene: Bakery\_56 Start: 41371, Stop: 41529, Start Num: 3

Candidate Starts for Bakery\_56:

(1, 41341), (Start: 3 @41371 has 28 MA's), (Start: 4 @41404 has 1 MA's), (6, 41488),

Gene: Barb\_52 Start: 40349, Stop: 40507, Start Num: 3

Candidate Starts for Barb\_52:

(Start: 3 @40349 has 28 MA's), (Start: 4 @40382 has 1 MA's), (6, 40466),

Gene: CherryCola\_52 Start: 41003, Stop: 41161, Start Num: 3  
Candidate Starts for CherryCola\_52:  
(1, 40973), (Start: 3 @41003 has 28 MA's), (Start: 4 @41036 has 1 MA's), (6, 41120),

Gene: ClamChowder\_52 Start: 40349, Stop: 40507, Start Num: 3  
Candidate Starts for ClamChowder\_52:  
(Start: 3 @40349 has 28 MA's), (Start: 4 @40382 has 1 MA's), (6, 40466),

Gene: Clown\_60 Start: 44246, Stop: 44386, Start Num: 3  
Candidate Starts for Clown\_60:  
(Start: 3 @44246 has 28 MA's), (Start: 4 @44279 has 1 MA's), (5, 44351),

Gene: Danyall\_52 Start: 40050, Stop: 40208, Start Num: 3  
Candidate Starts for Danyall\_52:  
(1, 40020), (Start: 3 @40050 has 28 MA's), (Start: 4 @40083 has 1 MA's), (6, 40167),

Gene: Egi03\_50 Start: 39863, Stop: 39988, Start Num: 4  
Candidate Starts for Egi03\_50:  
(Start: 3 @39830 has 28 MA's), (Start: 4 @39863 has 1 MA's), (6, 39947),

Gene: Evamon\_49 Start: 40069, Stop: 40227, Start Num: 3  
Candidate Starts for Evamon\_49:  
(Start: 3 @40069 has 28 MA's), (Start: 4 @40102 has 1 MA's), (6, 40186),

Gene: Fireball\_52 Start: 40676, Stop: 40843, Start Num: 2  
Candidate Starts for Fireball\_52:  
(Start: 2 @40676 has 2 MA's), (6, 40802),

Gene: Fugax\_53 Start: 40341, Stop: 40499, Start Num: 3  
Candidate Starts for Fugax\_53:  
(Start: 3 @40341 has 28 MA's), (Start: 4 @40374 has 1 MA's), (6, 40458),

Gene: Gezellig\_49 Start: 40201, Stop: 40359, Start Num: 3  
Candidate Starts for Gezellig\_49:  
(1, 40171), (Start: 3 @40201 has 28 MA's), (Start: 4 @40234 has 1 MA's), (6, 40318),

Gene: Halo3\_51 Start: 40786, Stop: 40944, Start Num: 3  
Candidate Starts for Halo3\_51:  
(1, 40756), (Start: 3 @40786 has 28 MA's), (Start: 4 @40819 has 1 MA's), (6, 40903),

Gene: Jambalaya\_50 Start: 39848, Stop: 40006, Start Num: 3  
Candidate Starts for Jambalaya\_50:  
(1, 39818), (Start: 3 @39848 has 28 MA's), (Start: 4 @39881 has 1 MA's), (6, 39965),

Gene: JohnPork\_53 Start: 39861, Stop: 40019, Start Num: 3  
Candidate Starts for JohnPork\_53:  
(1, 39831), (Start: 3 @39861 has 28 MA's), (Start: 4 @39894 has 1 MA's), (6, 39978),

Gene: KimmyK\_51 Start: 40783, Stop: 40941, Start Num: 3  
Candidate Starts for KimmyK\_51:  
(Start: 3 @40783 has 28 MA's), (Start: 4 @40816 has 1 MA's), (6, 40900),

Gene: Mutzi\_50 Start: 41177, Stop: 41335, Start Num: 3  
Candidate Starts for Mutzi\_50:  
(1, 41147), (Start: 3 @41177 has 28 MA's), (Start: 4 @41210 has 1 MA's), (6, 41294),

Gene: Nubi\_50 Start: 40174, Stop: 40332, Start Num: 3  
Candidate Starts for Nubi\_50:  
(Start: 3 @40174 has 28 MA's), (Start: 4 @40207 has 1 MA's), (6, 40291),

Gene: Phlop\_49 Start: 40255, Stop: 40413, Start Num: 3  
Candidate Starts for Phlop\_49:  
(Start: 3 @40255 has 28 MA's), (Start: 4 @40288 has 1 MA's), (6, 40372),

Gene: PinkCoffee\_52 Start: 40358, Stop: 40516, Start Num: 3  
Candidate Starts for PinkCoffee\_52:  
(Start: 3 @40358 has 28 MA's), (Start: 4 @40391 has 1 MA's), (6, 40475),

Gene: Portcullis\_52 Start: 39861, Stop: 40019, Start Num: 3  
Candidate Starts for Portcullis\_52:  
(1, 39831), (Start: 3 @39861 has 28 MA's), (Start: 4 @39894 has 1 MA's), (6, 39978),

Gene: PullumCavea\_49 Start: 40255, Stop: 40413, Start Num: 3  
Candidate Starts for PullumCavea\_49:  
(Start: 3 @40255 has 28 MA's), (Start: 4 @40288 has 1 MA's), (6, 40372),

Gene: RogerDodger\_53 Start: 40398, Stop: 40556, Start Num: 3  
Candidate Starts for RogerDodger\_53:  
(1, 40368), (Start: 3 @40398 has 28 MA's), (Start: 4 @40431 has 1 MA's), (6, 40515),

Gene: Salvador\_49 Start: 40067, Stop: 40225, Start Num: 3  
Candidate Starts for Salvador\_49:  
(Start: 3 @40067 has 28 MA's), (Start: 4 @40100 has 1 MA's), (6, 40184),

Gene: Savbucketdawg\_50 Start: 39848, Stop: 40006, Start Num: 3  
Candidate Starts for Savbucketdawg\_50:  
(1, 39818), (Start: 3 @39848 has 28 MA's), (Start: 4 @39881 has 1 MA's), (6, 39965),

Gene: Sendy\_51 Start: 40408, Stop: 40533, Start Num: 4  
Candidate Starts for Sendy\_51:  
(Start: 3 @40375 has 28 MA's), (Start: 4 @40408 has 1 MA's), (6, 40492),

Gene: SharkTale\_52 Start: 41189, Stop: 41347, Start Num: 3  
Candidate Starts for SharkTale\_52:  
(1, 41159), (Start: 3 @41189 has 28 MA's), (Start: 4 @41222 has 1 MA's), (6, 41306),

Gene: Shinji\_50 Start: 39611, Stop: 39769, Start Num: 3  
Candidate Starts for Shinji\_50:  
(1, 39581), (Start: 3 @39611 has 28 MA's), (Start: 4 @39644 has 1 MA's), (6, 39728),

Gene: Sixsevenium\_54 Start: 40600, Stop: 40758, Start Num: 3  
Candidate Starts for Sixsevenium\_54:  
(1, 40570), (Start: 3 @40600 has 28 MA's), (Start: 4 @40633 has 1 MA's), (6, 40717),

Gene: SmokingBunny\_50 Start: 40160, Stop: 40318, Start Num: 3

Candidate Starts for SmokingBunny\_50:  
(Start: 3 @40160 has 28 MA's), (Start: 4 @40193 has 1 MA's), (6, 40277),

Gene: TillyBobJoe\_51 Start: 40342, Stop: 40509, Start Num: 2  
Candidate Starts for TillyBobJoe\_51:  
(Start: 2 @40342 has 2 MA's), (6, 40468),

Gene: Togo\_49 Start: 40160, Stop: 40318, Start Num: 3  
Candidate Starts for Togo\_49:  
(Start: 3 @40160 has 28 MA's), (Start: 4 @40193 has 1 MA's), (6, 40277),

Gene: Twister6\_52 Start: 39961, Stop: 40119, Start Num: 3  
Candidate Starts for Twister6\_52:  
(1, 39931), (Start: 3 @39961 has 28 MA's), (Start: 4 @39994 has 1 MA's), (6, 40078),

Gene: Valary\_52 Start: 41003, Stop: 41161, Start Num: 3  
Candidate Starts for Valary\_52:  
(1, 40973), (Start: 3 @41003 has 28 MA's), (Start: 4 @41036 has 1 MA's), (6, 41120),

Gene: VanDeWege\_53 Start: 40295, Stop: 40453, Start Num: 3  
Candidate Starts for VanDeWege\_53:  
(1, 40265), (Start: 3 @40295 has 28 MA's), (Start: 4 @40328 has 1 MA's), (6, 40412),

Gene: Wizard\_49 Start: 40201, Stop: 40359, Start Num: 3  
Candidate Starts for Wizard\_49:  
(1, 40171), (Start: 3 @40201 has 28 MA's), (Start: 4 @40234 has 1 MA's), (6, 40318),