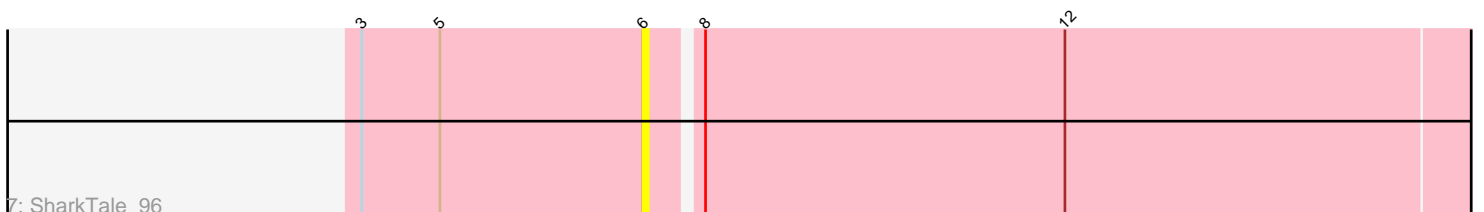
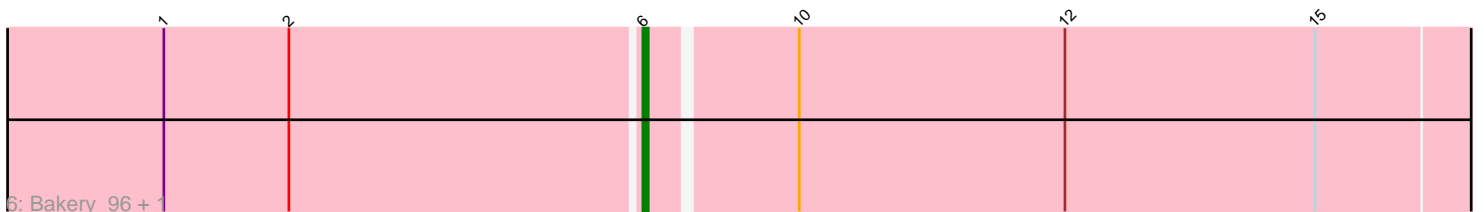
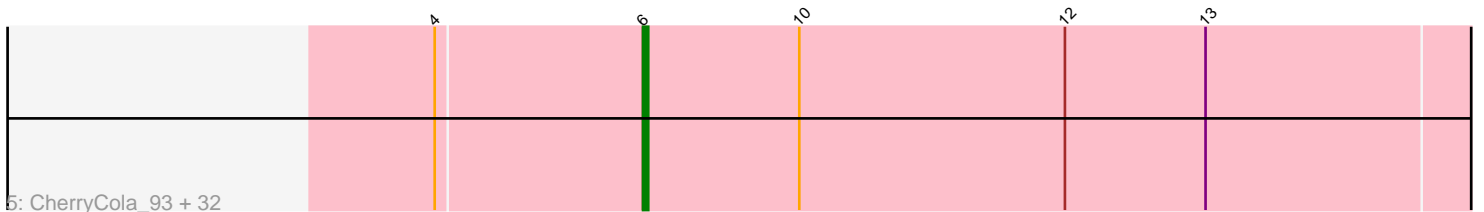
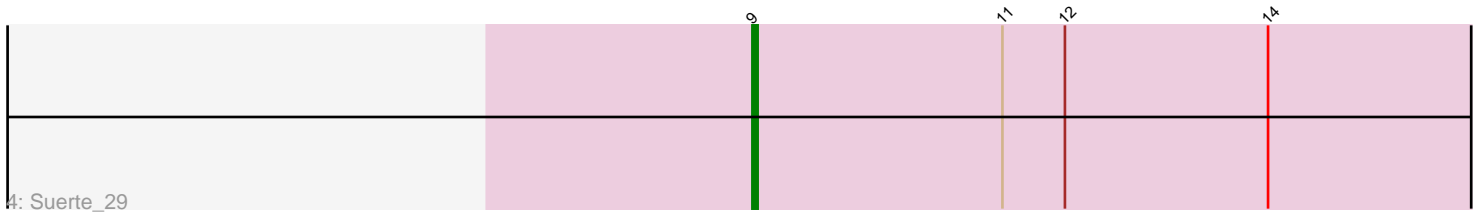
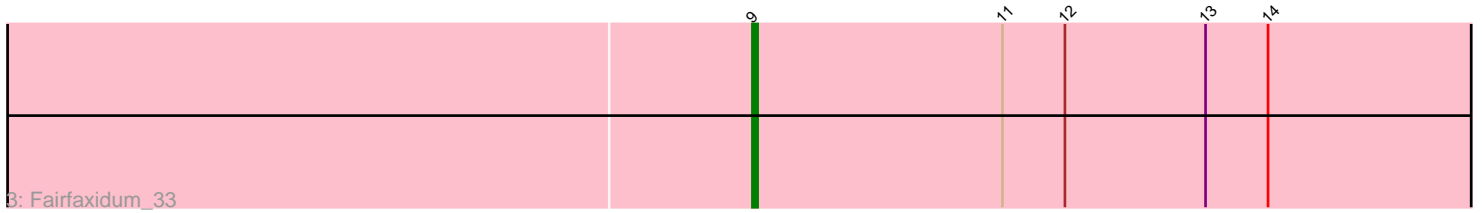
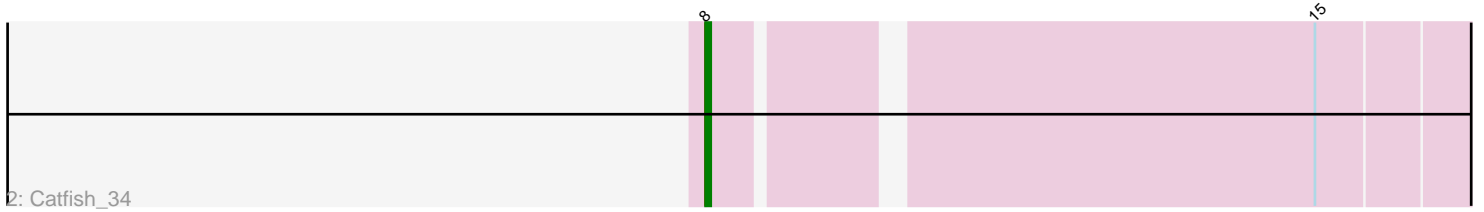
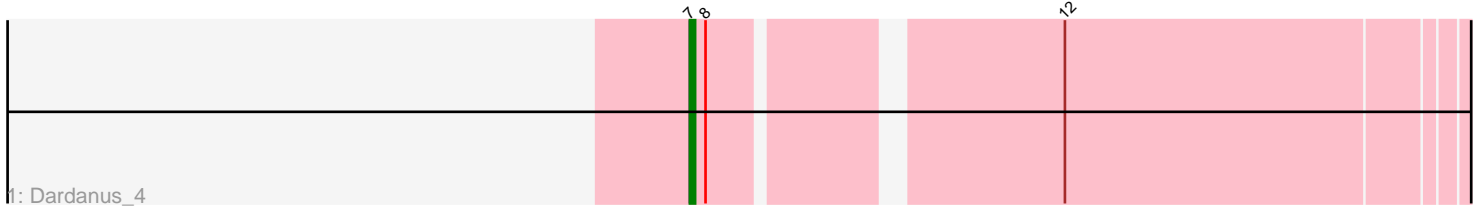


Pham 311789



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 311789 Report

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

Pham number 311789 has 40 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Dardanus\_4
- Track 2 : Catfish\_34
- Track 3 : Fairfaxidum\_33
- Track 4 : Suerte\_29
- Track 5 : CherryCola\_93, JohnPork\_95, Arri\_94, Portcullis\_94, Sendy\_96, Shinji\_93, RogerDodger\_97, CoveyB\_96, Salvador\_94, Evamon\_94, Fireball\_97, Jambalaya\_91, Valary\_95, Gezellig\_90, PinkCoffee\_96, Nubi\_97, Mutzi\_94, ClamChowder\_97, Halo3\_93, PullumCavea\_92, Phlop\_91, TillyBobJoe\_93, Danyall\_95, KimmyK\_92, SmokingBunny\_95, VanDeWege\_96, Twister6\_93, Barb\_98, Togo\_94, Savbucketdawg\_89, YungMoney\_94, Egi03\_92, Wizard\_89
- Track 6 : Bakery\_96, Sixsevenium\_93
- Track 7 : SharkTale\_96

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

The start number called the most often in the published annotations is 6, it was called in 31 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_94, Bakery\_96, Barb\_98, CherryCola\_93, ClamChowder\_97, CoveyB\_96, Danyall\_95, Egi03\_92, Evamon\_94, Fireball\_97, Gezellig\_90, Halo3\_93, Jambalaya\_91, JohnPork\_95, KimmyK\_92, Mutzi\_94, Nubi\_97, Phlop\_91, PinkCoffee\_96, Portcullis\_94, PullumCavea\_92, RogerDodger\_97, Salvador\_94, Savbucketdawg\_89, Sendy\_96, SharkTale\_96, Shinji\_93, Sixsevenium\_93, SmokingBunny\_95, TillyBobJoe\_93, Togo\_94, Twister6\_93, Valary\_95, VanDeWege\_96, Wizard\_89, YungMoney\_94,

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

- 

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

- Catfish\_34, Dardanus\_4, Fairfaxidum\_33, Suerte\_29,

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

Start 6:

- Found in 36 of 40 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 31 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri\_94 (DC1), Bakery\_96 (DC1), Barb\_98 (DC1), CherryCola\_93 (DC1), ClamChowder\_97 (DC1), CoveyB\_96 (DC1), Danyall\_95 (DC1), Egi03\_92 (DC1), Evamon\_94 (DC1), Fireball\_97 (DC1), Gezellig\_90 (DC1), Halo3\_93 (DC1), Jambalaya\_91 (DC1), JohnPork\_95 (DC1), KimmyK\_92 (DC1), Mutzi\_94 (DC1), Nubi\_97 (DC1), Phlop\_91 (DC1), PinkCoffee\_96 (DC1), Portcullis\_94 (DC1), PullumCavea\_92 (DC1), RogerDodger\_97 (DC1), Salvador\_94 (DC1), Savbucketdawg\_89 (DC1), Sendy\_96 (DC1), SharkTale\_96 (DC1), Shinji\_93 (DC1), Sixsevenium\_93 (DC1), SmokingBunny\_95 (DC1), TillyBobJoe\_93 (DC1), Togo\_94 (DC1), Twister6\_93 (DC1), Valary\_95 (DC1), VanDeWege\_96 (DC1), Wizard\_89 (DC1), YungMoney\_94 (DC1),

Start 7:

- Found in 1 of 40 ( 2.5% ) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dardanus\_4 (CU3),

Start 8:

- Found in 3 of 40 ( 7.5% ) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Catfish\_34 (CU5),

Start 9:

- Found in 2 of 40 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 2 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fairfaxidum\_33 (CV), Suerte\_29 (CZ4),

**Summary by clusters:**

There are 5 clusters represented in this pham: CU5, CU3, CV, CZ4, DC1,

Info for manual annotations of cluster CU3:

- Start number 7 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU5:

- Start number 8 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:

- Start number 9 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ4:

- Start number 9 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DC1:

- Start number 6 was manually annotated 31 times for cluster DC1.

**Gene Information:**

Gene: Arri\_94 Start: 58525, Stop: 58352, Start Num: 6

Candidate Starts for Arri\_94:

(4, 58564), (Start: 6 @58525 has 31 MA's), (10, 58495), (12, 58444), (13, 58417),

Gene: Bakery\_96 Start: 60344, Stop: 60174, Start Num: 6

Candidate Starts for Bakery\_96:

(1, 60434), (2, 60410), (Start: 6 @60344 has 31 MA's), (10, 60317), (12, 60266), (15, 60218),

Gene: Barb\_98 Start: 59389, Stop: 59216, Start Num: 6

Candidate Starts for Barb\_98:

(4, 59428), (Start: 6 @59389 has 31 MA's), (10, 59359), (12, 59308), (13, 59281),

Gene: Catfish\_34 Start: 26703, Stop: 26843, Start Num: 8

Candidate Starts for Catfish\_34:

(Start: 8 @26703 has 1 MA's), (15, 26811),

Gene: CherryCola\_93 Start: 58938, Stop: 58765, Start Num: 6

Candidate Starts for CherryCola\_93:

(4, 58977), (Start: 6 @58938 has 31 MA's), (10, 58908), (12, 58857), (13, 58830),

Gene: ClamChowder\_97 Start: 59389, Stop: 59216, Start Num: 6

Candidate Starts for ClamChowder\_97:

(4, 59428), (Start: 6 @59389 has 31 MA's), (10, 59359), (12, 59308), (13, 59281),

Gene: CoveyB\_96 Start: 58876, Stop: 58703, Start Num: 6

Candidate Starts for CoveyB\_96:

(4, 58915), (Start: 6 @58876 has 31 MA's), (10, 58846), (12, 58795), (13, 58768),

Gene: Danyall\_95 Start: 58570, Stop: 58397, Start Num: 6

Candidate Starts for Danyall\_95:

(4, 58609), (Start: 6 @58570 has 31 MA's), (10, 58540), (12, 58489), (13, 58462),

Gene: Dardanus\_4 Start: 1794, Stop: 1654, Start Num: 7

Candidate Starts for Dardanus\_4:

(Start: 7 @1794 has 1 MA's), (Start: 8 @1791 has 1 MA's), (12, 1731),

Gene: Egi03\_92 Start: 57960, Stop: 57787, Start Num: 6

Candidate Starts for Egi03\_92:

(4, 57999), (Start: 6 @57960 has 31 MA's), (10, 57930), (12, 57879), (13, 57852),

Gene: Evamon\_94 Start: 58335, Stop: 58162, Start Num: 6

Candidate Starts for Evamon\_94:

(4, 58374), (Start: 6 @58335 has 31 MA's), (10, 58305), (12, 58254), (13, 58227),

Gene: Fairfaxidum\_33 Start: 28499, Stop: 28651, Start Num: 9

Candidate Starts for Fairfaxidum\_33:

(Start: 9 @28499 has 2 MA's), (11, 28547), (12, 28559), (13, 28586), (14, 28598),

Gene: Fireball\_97 Start: 58799, Stop: 58626, Start Num: 6

Candidate Starts for Fireball\_97:

(4, 58838), (Start: 6 @58799 has 31 MA's), (10, 58769), (12, 58718), (13, 58691),

Gene: Gezellig\_90 Start: 58183, Stop: 58010, Start Num: 6

Candidate Starts for Gezellig\_90:

(4, 58222), (Start: 6 @58183 has 31 MA's), (10, 58153), (12, 58102), (13, 58075),

Gene: Halo3\_93 Start: 59057, Stop: 58884, Start Num: 6

Candidate Starts for Halo3\_93:

(4, 59096), (Start: 6 @59057 has 31 MA's), (10, 59027), (12, 58976), (13, 58949),

Gene: Jambalaya\_91 Start: 57639, Stop: 57466, Start Num: 6

Candidate Starts for Jambalaya\_91:

(4, 57678), (Start: 6 @57639 has 31 MA's), (10, 57609), (12, 57558), (13, 57531),

Gene: JohnPork\_95 Start: 58239, Stop: 58066, Start Num: 6

Candidate Starts for JohnPork\_95:

(4, 58278), (Start: 6 @58239 has 31 MA's), (10, 58209), (12, 58158), (13, 58131),

Gene: KimmyK\_92 Start: 58630, Stop: 58457, Start Num: 6

Candidate Starts for KimmyK\_92:

(4, 58669), (Start: 6 @58630 has 31 MA's), (10, 58600), (12, 58549), (13, 58522),

Gene: Mutzi\_94 Start: 59530, Stop: 59357, Start Num: 6

Candidate Starts for Mutzi\_94:

(4, 59569), (Start: 6 @59530 has 31 MA's), (10, 59500), (12, 59449), (13, 59422),

Gene: Nubi\_97 Start: 58593, Stop: 58420, Start Num: 6

Candidate Starts for Nubi\_97:

(4, 58632), (Start: 6 @58593 has 31 MA's), (10, 58563), (12, 58512), (13, 58485),

Gene: Phlop\_91 Start: 58233, Stop: 58060, Start Num: 6

Candidate Starts for Phlop\_91:

(4, 58272), (Start: 6 @58233 has 31 MA's), (10, 58203), (12, 58152), (13, 58125),

Gene: PinkCoffee\_96 Start: 58434, Stop: 58261, Start Num: 6

Candidate Starts for PinkCoffee\_96:

(4, 58473), (Start: 6 @58434 has 31 MA's), (10, 58404), (12, 58353), (13, 58326),

Gene: Portcullis\_94 Start: 58239, Stop: 58066, Start Num: 6

Candidate Starts for Portcullis\_94:

(4, 58278), (Start: 6 @58239 has 31 MA's), (10, 58209), (12, 58158), (13, 58131),

Gene: PullumCavea\_92 Start: 58410, Stop: 58237, Start Num: 6

Candidate Starts for PullumCavea\_92:

(4, 58449), (Start: 6 @58410 has 31 MA's), (10, 58380), (12, 58329), (13, 58302),

Gene: RogerDodger\_97 Start: 58997, Stop: 58824, Start Num: 6

Candidate Starts for RogerDodger\_97:

(4, 59036), (Start: 6 @58997 has 31 MA's), (10, 58967), (12, 58916), (13, 58889),

Gene: Salvador\_94 Start: 58333, Stop: 58160, Start Num: 6

Candidate Starts for Salvador\_94:

(4, 58372), (Start: 6 @58333 has 31 MA's), (10, 58303), (12, 58252), (13, 58225),

Gene: Savbucketdawg\_89 Start: 57676, Stop: 57503, Start Num: 6

Candidate Starts for Savbucketdawg\_89:

(4, 57715), (Start: 6 @57676 has 31 MA's), (10, 57646), (12, 57595), (13, 57568),

Gene: Sendy\_96 Start: 58415, Stop: 58242, Start Num: 6

Candidate Starts for Sendy\_96:

(4, 58454), (Start: 6 @58415 has 31 MA's), (10, 58385), (12, 58334), (13, 58307),

Gene: SharkTale\_96 Start: 59372, Stop: 59202, Start Num: 6

Candidate Starts for SharkTale\_96:

(3, 59426), (5, 59411), (Start: 6 @59372 has 31 MA's), (Start: 8 @59363 has 1 MA's), (12, 59294),

Gene: Shinji\_93 Start: 58416, Stop: 58243, Start Num: 6

Candidate Starts for Shinji\_93:

(4, 58455), (Start: 6 @58416 has 31 MA's), (10, 58386), (12, 58335), (13, 58308),

Gene: Sixsevenium\_93 Start: 59325, Stop: 59155, Start Num: 6

Candidate Starts for Sixsevenium\_93:

(1, 59415), (2, 59391), (Start: 6 @59325 has 31 MA's), (10, 59298), (12, 59247), (15, 59199),

Gene: SmokingBunny\_95 Start: 59329, Stop: 59156, Start Num: 6

Candidate Starts for SmokingBunny\_95:

(4, 59368), (Start: 6 @59329 has 31 MA's), (10, 59299), (12, 59248), (13, 59221),

Gene: Suerte\_29 Start: 25713, Stop: 25865, Start Num: 9

Candidate Starts for Suerte\_29:

(Start: 9 @25713 has 2 MA's), (11, 25761), (12, 25773), (14, 25812),

Gene: TillyBobJoe\_93 Start: 58552, Stop: 58379, Start Num: 6

Candidate Starts for TillyBobJoe\_93:

(4, 58591), (Start: 6 @58552 has 31 MA's), (10, 58522), (12, 58471), (13, 58444),

Gene: Togo\_94 Start: 59329, Stop: 59156, Start Num: 6

Candidate Starts for Togo\_94:

(4, 59368), (Start: 6 @59329 has 31 MA's), (10, 59299), (12, 59248), (13, 59221),

Gene: Twister6\_93 Start: 57679, Stop: 57506, Start Num: 6

Candidate Starts for Twister6\_93:

(4, 57718), (Start: 6 @57679 has 31 MA's), (10, 57649), (12, 57598), (13, 57571),

Gene: Valary\_95 Start: 59323, Stop: 59150, Start Num: 6

Candidate Starts for Valary\_95:

(4, 59362), (Start: 6 @59323 has 31 MA's), (10, 59293), (12, 59242), (13, 59215),

Gene: VanDeWege\_96 Start: 58847, Stop: 58674, Start Num: 6

Candidate Starts for VanDeWege\_96:

(4, 58886), (Start: 6 @58847 has 31 MA's), (10, 58817), (12, 58766), (13, 58739),

Gene: Wizard\_89 Start: 58183, Stop: 58010, Start Num: 6

Candidate Starts for Wizard\_89:

(4, 58222), (Start: 6 @58183 has 31 MA's), (10, 58153), (12, 58102), (13, 58075),

Gene: YungMoney\_94 Start: 60370, Stop: 60197, Start Num: 6

Candidate Starts for YungMoney\_94:

(4, 60409), (Start: 6 @60370 has 31 MA's), (10, 60340), (12, 60289), (13, 60262),