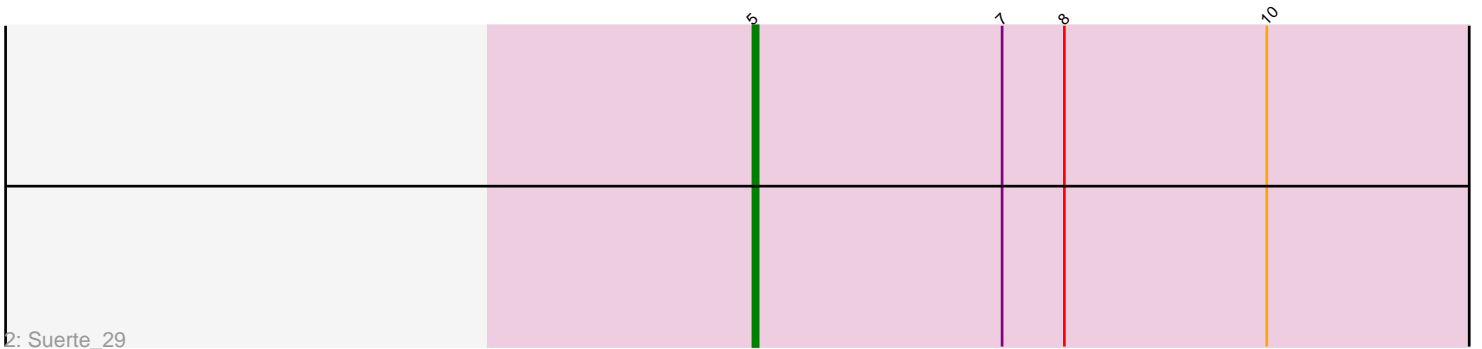
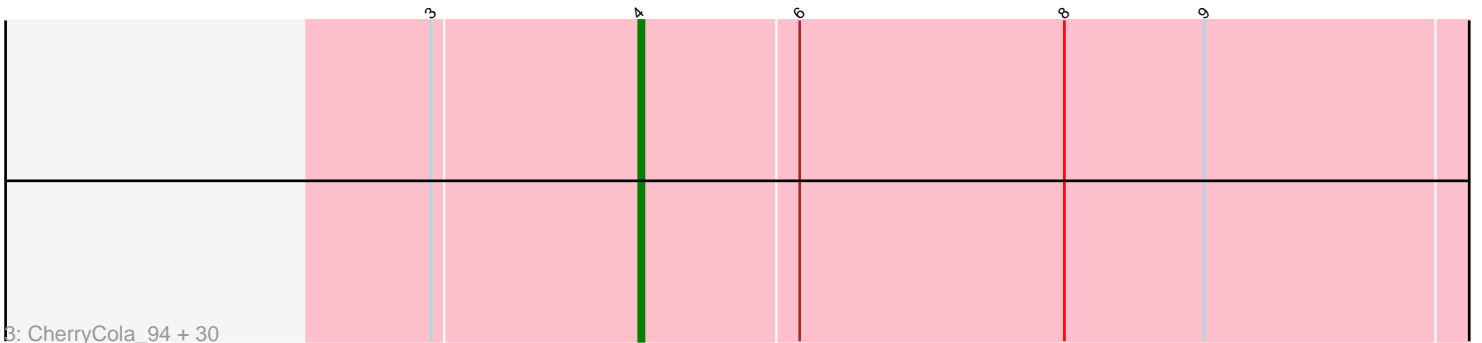


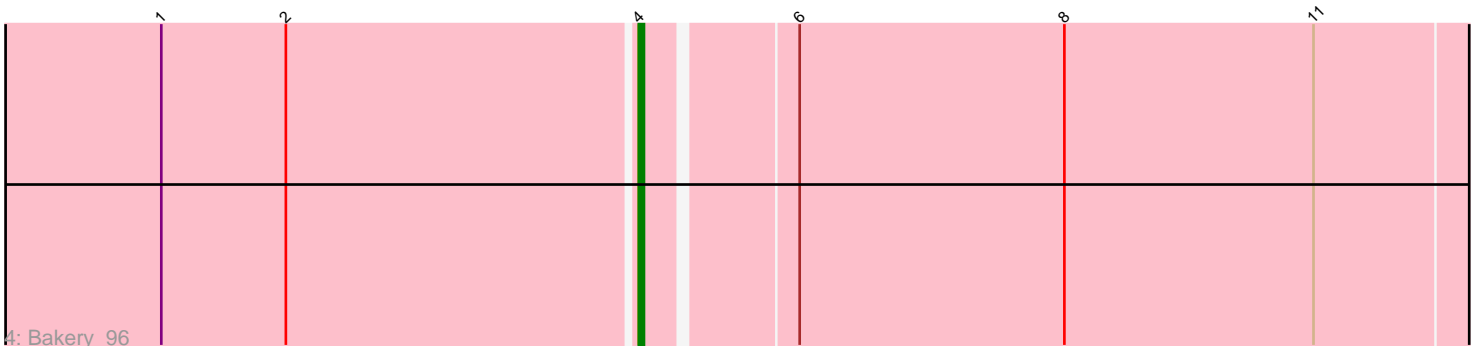
1: Fairfaxidum_33



2: Suerte_29



3: CherryCola_94 + 30



4: Bakery_96

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 223307 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223307 has 34 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Fairfaxidum_33
- Track 2 : Suerte_29
- Track 3 : CherryCola_94, Evamon_94, Portcullis_94, Shinji_93, RogerDodger_97, CoveyB_96, Salvador_94, Jambalaya_91, Fireball_97, Valary_95, Nubi_97, Mutzi_94, Arri_94, ClamChowder_97, Halo3_93, PullumCavea_92, Phlop_91, Gezellig_93, PinkCoffee_96, TillyBobJoe_93, Danyall_95, KimmyK_92, SmokingBunny_95, VanDeWege_96, YungMoney_94, Twister6_93, Barb_98, Togo_94, Savbucketdawg_89, Egi03_93, Wizard_89
- Track 4 : Bakery_96

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 27 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri_94, Bakery_96, Barb_98, CherryCola_94, ClamChowder_97, CoveyB_96, Danyall_95, Egi03_93, Evamon_94, Fireball_97, Gezellig_93, Halo3_93, Jambalaya_91, KimmyK_92, Mutzi_94, Nubi_97, Phlop_91, PinkCoffee_96, Portcullis_94, PullumCavea_92, RogerDodger_97, Salvador_94, Savbucketdawg_89, Shinji_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:

- Fairfaxidum_33, Suerte_29,

Summary by start number:

Start 4:

- Found in 32 of 34 (94.1%) of genes in pham
- Manual Annotations of this start: 27 of 29

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri_94 (DC1), Bakery_96 (DC1), Barb_98 (DC1), CherryCola_94 (DC1), ClamChowder_97 (DC1), CoveyB_96 (DC1), Danyall_95 (DC1), Egi03_93 (DC1), Evamon_94 (DC1), Fireball_97 (DC1), Gezellig_93 (DC1), Halo3_93 (DC1), Jambalaya_91 (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), Shinji_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 5:

- Found in 2 of 34 (5.9%) of genes in pham
- Manual Annotations of this start: 2 of 29
- 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 3 clusters represented in this pham: CV, CZ4, DC1,

Info for manual annotations of cluster CV:

- Start number 5 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ4:

- Start number 5 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster DC1:

- Start number 4 was manually annotated 27 times for cluster DC1.

Gene Information:

Gene: Arri_94 Start: 58525, Stop: 58352, Start Num: 4

Candidate Starts for Arri_94:

(3, 58564), (Start: 4 @58525 has 27 MA's), (6, 58495), (8, 58444), (9, 58417),

Gene: Bakery_96 Start: 60344, Stop: 60174, Start Num: 4

Candidate Starts for Bakery_96:

(1, 60434), (2, 60410), (Start: 4 @60344 has 27 MA's), (6, 60317), (8, 60266), (11, 60218),

Gene: Barb_98 Start: 59389, Stop: 59216, Start Num: 4

Candidate Starts for Barb_98:

(3, 59428), (Start: 4 @59389 has 27 MA's), (6, 59359), (8, 59308), (9, 59281),

Gene: CherryCola_94 Start: 58938, Stop: 58765, Start Num: 4

Candidate Starts for CherryCola_94:

(3, 58977), (Start: 4 @58938 has 27 MA's), (6, 58908), (8, 58857), (9, 58830),

Gene: ClamChowder_97 Start: 59389, Stop: 59216, Start Num: 4

Candidate Starts for ClamChowder_97:

(3, 59428), (Start: 4 @59389 has 27 MA's), (6, 59359), (8, 59308), (9, 59281),

Gene: CoveyB_96 Start: 58876, Stop: 58703, Start Num: 4
Candidate Starts for CoveyB_96:
(3, 58915), (Start: 4 @58876 has 27 MA's), (6, 58846), (8, 58795), (9, 58768),

Gene: Danyall_95 Start: 58570, Stop: 58397, Start Num: 4
Candidate Starts for Danyall_95:
(3, 58609), (Start: 4 @58570 has 27 MA's), (6, 58540), (8, 58489), (9, 58462),

Gene: Egi03_93 Start: 57960, Stop: 57787, Start Num: 4
Candidate Starts for Egi03_93:
(3, 57999), (Start: 4 @57960 has 27 MA's), (6, 57930), (8, 57879), (9, 57852),

Gene: Evamon_94 Start: 58335, Stop: 58162, Start Num: 4
Candidate Starts for Evamon_94:
(3, 58374), (Start: 4 @58335 has 27 MA's), (6, 58305), (8, 58254), (9, 58227),

Gene: Fairfaxidum_33 Start: 28499, Stop: 28651, Start Num: 5
Candidate Starts for Fairfaxidum_33:
(Start: 5 @28499 has 2 MA's), (7, 28547), (8, 28559), (9, 28586), (10, 28598),

Gene: Fireball_97 Start: 58799, Stop: 58626, Start Num: 4
Candidate Starts for Fireball_97:
(3, 58838), (Start: 4 @58799 has 27 MA's), (6, 58769), (8, 58718), (9, 58691),

Gene: Gezellig_93 Start: 58183, Stop: 58010, Start Num: 4
Candidate Starts for Gezellig_93:
(3, 58222), (Start: 4 @58183 has 27 MA's), (6, 58153), (8, 58102), (9, 58075),

Gene: Halo3_93 Start: 59057, Stop: 58884, Start Num: 4
Candidate Starts for Halo3_93:
(3, 59096), (Start: 4 @59057 has 27 MA's), (6, 59027), (8, 58976), (9, 58949),

Gene: Jambalaya_91 Start: 57639, Stop: 57466, Start Num: 4
Candidate Starts for Jambalaya_91:
(3, 57678), (Start: 4 @57639 has 27 MA's), (6, 57609), (8, 57558), (9, 57531),

Gene: KimmyK_92 Start: 58630, Stop: 58457, Start Num: 4
Candidate Starts for KimmyK_92:
(3, 58669), (Start: 4 @58630 has 27 MA's), (6, 58600), (8, 58549), (9, 58522),

Gene: Mutzi_94 Start: 59530, Stop: 59357, Start Num: 4
Candidate Starts for Mutzi_94:
(3, 59569), (Start: 4 @59530 has 27 MA's), (6, 59500), (8, 59449), (9, 59422),

Gene: Nubi_97 Start: 58593, Stop: 58420, Start Num: 4
Candidate Starts for Nubi_97:
(3, 58632), (Start: 4 @58593 has 27 MA's), (6, 58563), (8, 58512), (9, 58485),

Gene: Phlop_91 Start: 58233, Stop: 58060, Start Num: 4
Candidate Starts for Phlop_91:
(3, 58272), (Start: 4 @58233 has 27 MA's), (6, 58203), (8, 58152), (9, 58125),

Gene: PinkCoffee_96 Start: 58434, Stop: 58261, Start Num: 4
Candidate Starts for PinkCoffee_96:
(3, 58473), (Start: 4 @58434 has 27 MA's), (6, 58404), (8, 58353), (9, 58326),

Gene: Portcullis_94 Start: 58239, Stop: 58066, Start Num: 4
Candidate Starts for Portcullis_94:
(3, 58278), (Start: 4 @58239 has 27 MA's), (6, 58209), (8, 58158), (9, 58131),

Gene: PullumCavea_92 Start: 58410, Stop: 58237, Start Num: 4
Candidate Starts for PullumCavea_92:
(3, 58449), (Start: 4 @58410 has 27 MA's), (6, 58380), (8, 58329), (9, 58302),

Gene: RogerDodger_97 Start: 58997, Stop: 58824, Start Num: 4
Candidate Starts for RogerDodger_97:
(3, 59036), (Start: 4 @58997 has 27 MA's), (6, 58967), (8, 58916), (9, 58889),

Gene: Salvador_94 Start: 58333, Stop: 58160, Start Num: 4
Candidate Starts for Salvador_94:
(3, 58372), (Start: 4 @58333 has 27 MA's), (6, 58303), (8, 58252), (9, 58225),

Gene: Savbucketdawg_89 Start: 57676, Stop: 57503, Start Num: 4
Candidate Starts for Savbucketdawg_89:
(3, 57715), (Start: 4 @57676 has 27 MA's), (6, 57646), (8, 57595), (9, 57568),

Gene: Shinji_93 Start: 58416, Stop: 58243, Start Num: 4
Candidate Starts for Shinji_93:
(3, 58455), (Start: 4 @58416 has 27 MA's), (6, 58386), (8, 58335), (9, 58308),

Gene: SmokingBunny_95 Start: 59329, Stop: 59156, Start Num: 4
Candidate Starts for SmokingBunny_95:
(3, 59368), (Start: 4 @59329 has 27 MA's), (6, 59299), (8, 59248), (9, 59221),

Gene: Suerte_29 Start: 25713, Stop: 25865, Start Num: 5
Candidate Starts for Suerte_29:
(Start: 5 @25713 has 2 MA's), (7, 25761), (8, 25773), (10, 25812),

Gene: TillyBobJoe_93 Start: 58552, Stop: 58379, Start Num: 4
Candidate Starts for TillyBobJoe_93:
(3, 58591), (Start: 4 @58552 has 27 MA's), (6, 58522), (8, 58471), (9, 58444),

Gene: Togo_94 Start: 59329, Stop: 59156, Start Num: 4
Candidate Starts for Togo_94:
(3, 59368), (Start: 4 @59329 has 27 MA's), (6, 59299), (8, 59248), (9, 59221),

Gene: Twister6_93 Start: 57679, Stop: 57506, Start Num: 4
Candidate Starts for Twister6_93:
(3, 57718), (Start: 4 @57679 has 27 MA's), (6, 57649), (8, 57598), (9, 57571),

Gene: Valary_95 Start: 59323, Stop: 59150, Start Num: 4
Candidate Starts for Valary_95:
(3, 59362), (Start: 4 @59323 has 27 MA's), (6, 59293), (8, 59242), (9, 59215),

Gene: VanDeWege_96 Start: 58847, Stop: 58674, Start Num: 4

Candidate Starts for VanDeWege_96:

(3, 58886), (Start: 4 @58847 has 27 MA's), (6, 58817), (8, 58766), (9, 58739),

Gene: Wizard_89 Start: 58183, Stop: 58010, Start Num: 4

Candidate Starts for Wizard_89:

(3, 58222), (Start: 4 @58183 has 27 MA's), (6, 58153), (8, 58102), (9, 58075),

Gene: YungMoney_94 Start: 60370, Stop: 60197, Start Num: 4

Candidate Starts for YungMoney_94:

(3, 60409), (Start: 4 @60370 has 27 MA's), (6, 60340), (8, 60289), (9, 60262),