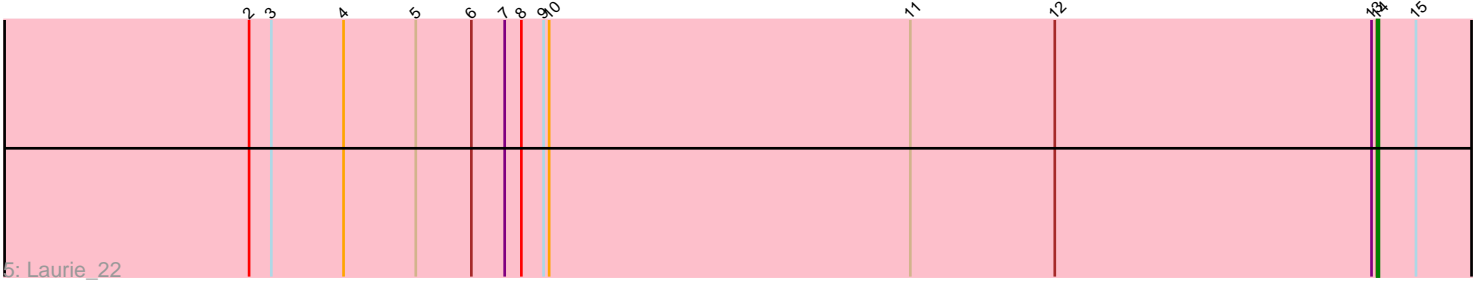
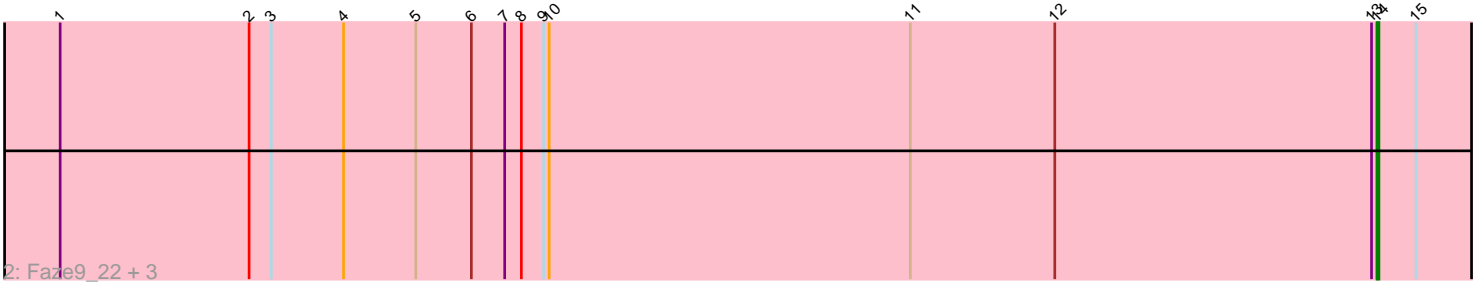


Pham 2599



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 2599 Report

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

Pham number 2599 has 33 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Glass_22, Kaleb_22, Brownie5_22, Allegro_22, Boyle_22, Calamitous_22, West99_22, LizLemon_22, TA17A_22, Arbiter_22, Kheth_22, Blocker23_22, Ares_22, Lars_22, Tres_22, Lephleur_22, Opia_22, ItsyBitsy1_22, Rosebush_22, Godines_22, Hedgerow_22, Holeinone_22, MasterPo_22, Tinciduntolum_23, Rhinoforte_22, FrenchFry_22
- Track 2 : Faze9_22, Phantasmagoria_22, Coffee_22, Bananafish_22
- Track 3 : Eaglehorse_22
- Track 4 : Sabella_22
- Track 5 : Laurie_22

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

The start number called the most often in the published annotations is 14, it was called in 31 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Allegro_22, Arbiter_22, Ares_22, Bananafish_22, Blocker23_22, Boyle_22, Brownie5_22, Calamitous_22, Coffee_22, Eaglehorse_22, Faze9_22, FrenchFry_22, Glass_22, Godines_22, Hedgerow_22, Holeinone_22, ItsyBitsy1_22, Kaleb_22, Kheth_22, Lars_22, Laurie_22, Lephleur_22, LizLemon_22, MasterPo_22, Opia_22, Phantasmagoria_22, Rhinoforte_22, Rosebush_22, Sabella_22, TA17A_22, Tinciduntolum_23, Tres_22, West99_22,

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 14:

- Found in 33 of 33 (100.0%) of genes in pham
- Manual Annotations of this start: 31 of 31

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Allegro_22 (B2), Arbiter_22 (B2), Ares_22 (B2), Bananafish_22 (B2), Blocker23_22 (B2), Boyle_22 (B2), Brownie5_22 (B2), Calamitous_22 (B2), Coffee_22 (B2), Eaglehorse_22 (B2), Faze9_22 (B2), FrenchFry_22 (B2), Glass_22 (B2), Godines_22 (B2), Hedgerow_22 (B2), Holeinone_22 (B2), ItsyBitsy1_22 (B2), Kaleb_22 (B2), Kheth_22 (B2), Lars_22 (B2), Laurie_22 (B2), Lephleur_22 (B2), LizLemon_22 (B2), MasterPo_22 (B2), Opia_22 (B2), Phantasmagoria_22 (B2), Rhinoforte_22 (B2), Rosebush_22 (B2), Sabella_22 (B2), TA17A_22 (B2), Tinciduntolum_23 (B2), Tres_22 (B2), West99_22 (B2),

Summary by clusters:

There is one cluster represented in this pham: B2

Info for manual annotations of cluster B2:

- Start number 14 was manually annotated 31 times for cluster B2.

Gene Information:

Gene: Allegro_22 Start: 18827, Stop: 18714, Start Num: 14

Candidate Starts for Allegro_22:

(1, 19538), (2, 19436), (3, 19424), (4, 19385), (5, 19346), (6, 19316), (7, 19298), (8, 19289), (9, 19277), (10, 19274), (11, 19079), (12, 19001), (Start: 14 @18827 has 31 MA's), (15, 18806),

Gene: Arbiter_22 Start: 18915, Stop: 18802, Start Num: 14

Candidate Starts for Arbiter_22:

(1, 19626), (2, 19524), (3, 19512), (4, 19473), (5, 19434), (6, 19404), (7, 19386), (8, 19377), (9, 19365), (10, 19362), (11, 19167), (12, 19089), (Start: 14 @18915 has 31 MA's), (15, 18894),

Gene: Ares_22 Start: 18831, Stop: 18718, Start Num: 14

Candidate Starts for Ares_22:

(1, 19542), (2, 19440), (3, 19428), (4, 19389), (5, 19350), (6, 19320), (7, 19302), (8, 19293), (9, 19281), (10, 19278), (11, 19083), (12, 19005), (Start: 14 @18831 has 31 MA's), (15, 18810),

Gene: Bananafish_22 Start: 18824, Stop: 18711, Start Num: 14

Candidate Starts for Bananafish_22:

(1, 19535), (2, 19433), (3, 19421), (4, 19382), (5, 19343), (6, 19313), (7, 19295), (8, 19286), (9, 19274), (10, 19271), (11, 19076), (12, 18998), (13, 18827), (Start: 14 @18824 has 31 MA's), (15, 18803),

Gene: Blocker23_22 Start: 18948, Stop: 18835, Start Num: 14

Candidate Starts for Blocker23_22:

(1, 19659), (2, 19557), (3, 19545), (4, 19506), (5, 19467), (6, 19437), (7, 19419), (8, 19410), (9, 19398), (10, 19395), (11, 19200), (12, 19122), (Start: 14 @18948 has 31 MA's), (15, 18927),

Gene: Boyle_22 Start: 18949, Stop: 18836, Start Num: 14

Candidate Starts for Boyle_22:

(1, 19660), (2, 19558), (3, 19546), (4, 19507), (5, 19468), (6, 19438), (7, 19420), (8, 19411), (9, 19399), (10, 19396), (11, 19201), (12, 19123), (Start: 14 @18949 has 31 MA's), (15, 18928),

Gene: Brownie5_22 Start: 18948, Stop: 18835, Start Num: 14

Candidate Starts for Brownie5_22:

(1, 19659), (2, 19557), (3, 19545), (4, 19506), (5, 19467), (6, 19437), (7, 19419), (8, 19410), (9, 19398), (10, 19395), (11, 19200), (12, 19122), (Start: 14 @18948 has 31 MA's), (15, 18927),

Gene: Calamitous_22 Start: 18828, Stop: 18715, Start Num: 14

Candidate Starts for Calamitous_22:

(1, 19539), (2, 19437), (3, 19425), (4, 19386), (5, 19347), (6, 19317), (7, 19299), (8, 19290), (9, 19278), (10, 19275), (11, 19080), (12, 19002), (Start: 14 @18828 has 31 MA's), (15, 18807),

Gene: Coffee_22 Start: 18941, Stop: 18828, Start Num: 14

Candidate Starts for Coffee_22:

(1, 19652), (2, 19550), (3, 19538), (4, 19499), (5, 19460), (6, 19430), (7, 19412), (8, 19403), (9, 19391), (10, 19388), (11, 19193), (12, 19115), (13, 18944), (Start: 14 @18941 has 31 MA's), (15, 18920),

Gene: Eaglehorse_22 Start: 18849, Stop: 18736, Start Num: 14

Candidate Starts for Eaglehorse_22:

(Start: 14 @18849 has 31 MA's), (15, 18828),

Gene: Faze9_22 Start: 18945, Stop: 18832, Start Num: 14

Candidate Starts for Faze9_22:

(1, 19656), (2, 19554), (3, 19542), (4, 19503), (5, 19464), (6, 19434), (7, 19416), (8, 19407), (9, 19395), (10, 19392), (11, 19197), (12, 19119), (13, 18948), (Start: 14 @18945 has 31 MA's), (15, 18924),

Gene: FrenchFry_22 Start: 18948, Stop: 18835, Start Num: 14

Candidate Starts for FrenchFry_22:

(1, 19659), (2, 19557), (3, 19545), (4, 19506), (5, 19467), (6, 19437), (7, 19419), (8, 19410), (9, 19398), (10, 19395), (11, 19200), (12, 19122), (Start: 14 @18948 has 31 MA's), (15, 18927),

Gene: Glass_22 Start: 18948, Stop: 18835, Start Num: 14

Candidate Starts for Glass_22:

(1, 19659), (2, 19557), (3, 19545), (4, 19506), (5, 19467), (6, 19437), (7, 19419), (8, 19410), (9, 19398), (10, 19395), (11, 19200), (12, 19122), (Start: 14 @18948 has 31 MA's), (15, 18927),

Gene: Godines_22 Start: 18841, Stop: 18728, Start Num: 14

Candidate Starts for Godines_22:

(1, 19552), (2, 19450), (3, 19438), (4, 19399), (5, 19360), (6, 19330), (7, 19312), (8, 19303), (9, 19291), (10, 19288), (11, 19093), (12, 19015), (Start: 14 @18841 has 31 MA's), (15, 18820),

Gene: Hedgerow_22 Start: 18930, Stop: 18817, Start Num: 14

Candidate Starts for Hedgerow_22:

(1, 19641), (2, 19539), (3, 19527), (4, 19488), (5, 19449), (6, 19419), (7, 19401), (8, 19392), (9, 19380), (10, 19377), (11, 19182), (12, 19104), (Start: 14 @18930 has 31 MA's), (15, 18909),

Gene: Holeinone_22 Start: 18826, Stop: 18713, Start Num: 14

Candidate Starts for Holeinone_22:

(1, 19537), (2, 19435), (3, 19423), (4, 19384), (5, 19345), (6, 19315), (7, 19297), (8, 19288), (9, 19276), (10, 19273), (11, 19078), (12, 19000), (Start: 14 @18826 has 31 MA's), (15, 18805),

Gene: ItsyBitsy1_22 Start: 18819, Stop: 18706, Start Num: 14

Candidate Starts for ItsyBitsy1_22:

(1, 19530), (2, 19428), (3, 19416), (4, 19377), (5, 19338), (6, 19308), (7, 19290), (8, 19281), (9, 19269), (10, 19266), (11, 19071), (12, 18993), (Start: 14 @18819 has 31 MA's), (15, 18798),

Gene: Kaleb_22 Start: 18945, Stop: 18832, Start Num: 14

Candidate Starts for Kaleb_22:

(1, 19656), (2, 19554), (3, 19542), (4, 19503), (5, 19464), (6, 19434), (7, 19416), (8, 19407), (9, 19395), (10, 19392), (11, 19197), (12, 19119), (Start: 14 @18945 has 31 MA's), (15, 18924),

Gene: Kheth_22 Start: 18831, Stop: 18718, Start Num: 14

Candidate Starts for Kheth_22:

(1, 19542), (2, 19440), (3, 19428), (4, 19389), (5, 19350), (6, 19320), (7, 19302), (8, 19293), (9, 19281), (10, 19278), (11, 19083), (12, 19005), (Start: 14 @18831 has 31 MA's), (15, 18810),

Gene: Lars_22 Start: 18948, Stop: 18835, Start Num: 14

Candidate Starts for Lars_22:

(1, 19659), (2, 19557), (3, 19545), (4, 19506), (5, 19467), (6, 19437), (7, 19419), (8, 19410), (9, 19398), (10, 19395), (11, 19200), (12, 19122), (Start: 14 @18948 has 31 MA's), (15, 18927),

Gene: Laurie_22 Start: 18822, Stop: 18709, Start Num: 14

Candidate Starts for Laurie_22:

(2, 19431), (3, 19419), (4, 19380), (5, 19341), (6, 19311), (7, 19293), (8, 19284), (9, 19272), (10, 19269), (11, 19074), (12, 18996), (13, 18825), (Start: 14 @18822 has 31 MA's), (15, 18801),

Gene: Lephleur_22 Start: 18828, Stop: 18715, Start Num: 14

Candidate Starts for Lephleur_22:

(1, 19539), (2, 19437), (3, 19425), (4, 19386), (5, 19347), (6, 19317), (7, 19299), (8, 19290), (9, 19278), (10, 19275), (11, 19080), (12, 19002), (Start: 14 @18828 has 31 MA's), (15, 18807),

Gene: LizLemon_22 Start: 18945, Stop: 18832, Start Num: 14

Candidate Starts for LizLemon_22:

(1, 19656), (2, 19554), (3, 19542), (4, 19503), (5, 19464), (6, 19434), (7, 19416), (8, 19407), (9, 19395), (10, 19392), (11, 19197), (12, 19119), (Start: 14 @18945 has 31 MA's), (15, 18924),

Gene: MasterPo_22 Start: 18828, Stop: 18715, Start Num: 14

Candidate Starts for MasterPo_22:

(1, 19539), (2, 19437), (3, 19425), (4, 19386), (5, 19347), (6, 19317), (7, 19299), (8, 19290), (9, 19278), (10, 19275), (11, 19080), (12, 19002), (Start: 14 @18828 has 31 MA's), (15, 18807),

Gene: Opia_22 Start: 18828, Stop: 18715, Start Num: 14

Candidate Starts for Opia_22:

(1, 19539), (2, 19437), (3, 19425), (4, 19386), (5, 19347), (6, 19317), (7, 19299), (8, 19290), (9, 19278), (10, 19275), (11, 19080), (12, 19002), (Start: 14 @18828 has 31 MA's), (15, 18807),

Gene: Phantasmagoria_22 Start: 18824, Stop: 18711, Start Num: 14

Candidate Starts for Phantasmagoria_22:

(1, 19535), (2, 19433), (3, 19421), (4, 19382), (5, 19343), (6, 19313), (7, 19295), (8, 19286), (9, 19274), (10, 19271), (11, 19076), (12, 18998), (13, 18827), (Start: 14 @18824 has 31 MA's), (15, 18803),

Gene: Rhinoforte_22 Start: 18945, Stop: 18832, Start Num: 14

Candidate Starts for Rhinoforte_22:

(1, 19656), (2, 19554), (3, 19542), (4, 19503), (5, 19464), (6, 19434), (7, 19416), (8, 19407), (9, 19395), (10, 19392), (11, 19197), (12, 19119), (Start: 14 @18945 has 31 MA's), (15, 18924),

Gene: Rosebush_22 Start: 18945, Stop: 18832, Start Num: 14

Candidate Starts for Rosebush_22:

(1, 19656), (2, 19554), (3, 19542), (4, 19503), (5, 19464), (6, 19434), (7, 19416), (8, 19407), (9, 19395), (10, 19392), (11, 19197), (12, 19119), (Start: 14 @18945 has 31 MA's), (15, 18924),

Gene: Sabella_22 Start: 18831, Stop: 18718, Start Num: 14

Candidate Starts for Sabella_22:

(11, 19083), (12, 19005), (Start: 14 @18831 has 31 MA's), (15, 18810),

Gene: TA17A_22 Start: 18825, Stop: 18712, Start Num: 14

Candidate Starts for TA17A_22:

(1, 19536), (2, 19434), (3, 19422), (4, 19383), (5, 19344), (6, 19314), (7, 19296), (8, 19287), (9, 19275), (10, 19272), (11, 19077), (12, 18999), (Start: 14 @18825 has 31 MA's), (15, 18804),

Gene: Tinciduntolum_23 Start: 18947, Stop: 18834, Start Num: 14

Candidate Starts for Tinciduntolum_23:

(1, 19658), (2, 19556), (3, 19544), (4, 19505), (5, 19466), (6, 19436), (7, 19418), (8, 19409), (9, 19397), (10, 19394), (11, 19199), (12, 19121), (Start: 14 @18947 has 31 MA's), (15, 18926),

Gene: Tres_22 Start: 18828, Stop: 18715, Start Num: 14

Candidate Starts for Tres_22:

(1, 19539), (2, 19437), (3, 19425), (4, 19386), (5, 19347), (6, 19317), (7, 19299), (8, 19290), (9, 19278), (10, 19275), (11, 19080), (12, 19002), (Start: 14 @18828 has 31 MA's), (15, 18807),

Gene: West99_22 Start: 18948, Stop: 18835, Start Num: 14

Candidate Starts for West99_22:

(1, 19659), (2, 19557), (3, 19545), (4, 19506), (5, 19467), (6, 19437), (7, 19419), (8, 19410), (9, 19398), (10, 19395), (11, 19200), (12, 19122), (Start: 14 @18948 has 31 MA's), (15, 18927),