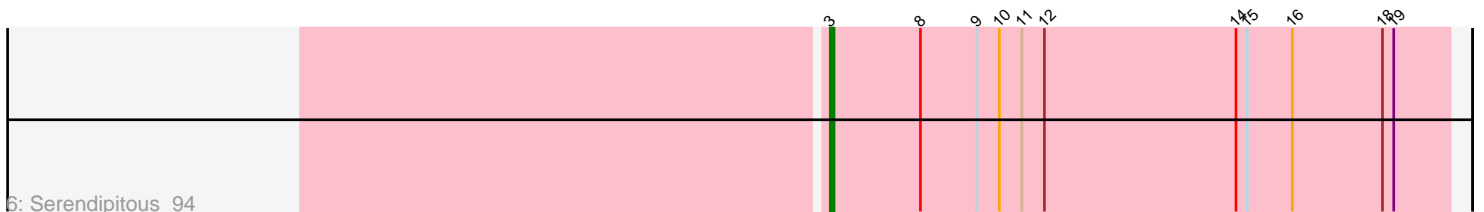
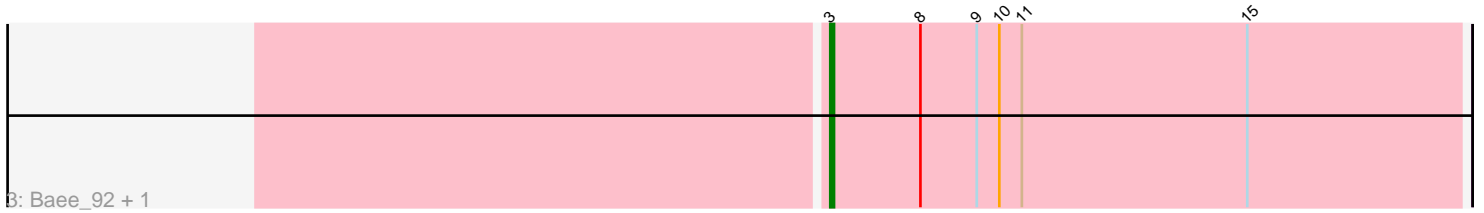
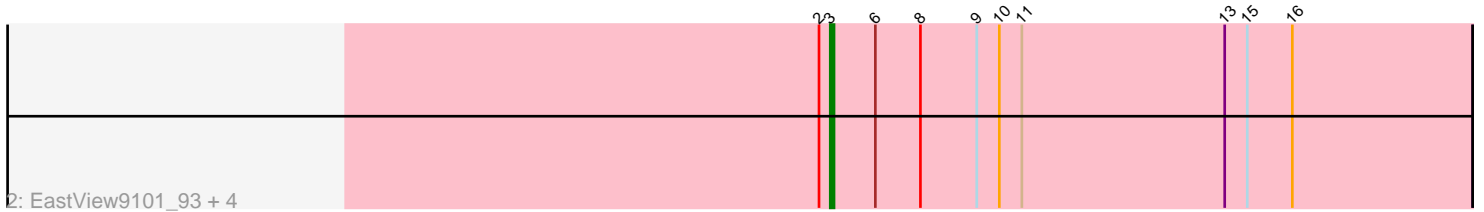
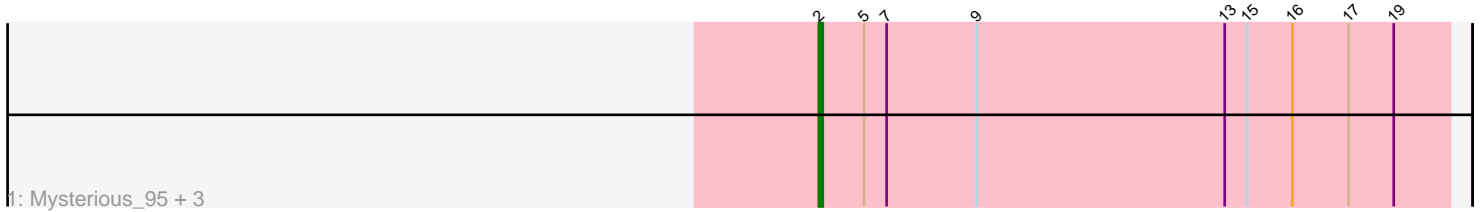


Pham 220163



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 220163 Report

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

Pham number 220163 has 18 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Mysterious_95, Phelemich_91, Nehemiah_93, Reprobate_93
- Track 2 : EastView9101_93, Acadian_93, Suigeneris_94, Rita130_92, Donny_93
- Track 3 : Bae_92, Rich_91
- Track 4 : Shenyu_94, DigitDog_95, Nangang_94
- Track 5 : StinkyVeggy_91, KarasumaRum_91
- Track 6 : Serendipitous_94
- Track 7 : SirJeffery_91

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 7 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian_93, Bae_92, DigitDog_95, Donny_93, EastView9101_93, KarasumaRum_91, Nangang_94, Rich_91, Rita130_92, Serendipitous_94, Shenyu_94, StinkyVeggy_91, Suigeneris_94,

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

-

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

- Mysterious_95, Nehemiah_93, Phelemich_91, Reprobate_93, SirJeffery_91,

Summary by start number:

Start 2:

- Found in 10 of 18 (55.6%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mysterious_95 (B5), Nehemiah_93 (B5), Phelemich_91 (B5), Reprobate_93 (B5), SirJeffery_91 (B5),

Start 3:

- Found in 13 of 18 (72.2%) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian_93 (B5), Bae_92 (B5), DigitDog_95 (B5), Donny_93 (B5), EastView9101_93 (B5), KarasumaRum_91 (B5), Nangang_94 (B5), Rich_91 (B5), Rita130_92 (B5), Serendipitous_94 (B5), Shenyu_94 (B5), StinkyVeggy_91 (B5), Suigeneris_94 (B5),

Summary by clusters:

There is one cluster represented in this pham: B5

Info for manual annotations of cluster B5:

- Start number 2 was manually annotated 2 times for cluster B5.
- Start number 3 was manually annotated 7 times for cluster B5.

Gene Information:

Gene: Acadian_93 Start: 68014, Stop: 67844, Start Num: 3

Candidate Starts for Acadian_93:

(Start: 2 @68017 has 2 MA's), (Start: 3 @68014 has 7 MA's), (6, 68002), (8, 67990), (9, 67975), (10, 67969), (11, 67963), (13, 67909), (15, 67903), (16, 67891),

Gene: Bae_92 Start: 68527, Stop: 68360, Start Num: 3

Candidate Starts for Bae_92:

(Start: 3 @68527 has 7 MA's), (8, 68503), (9, 68488), (10, 68482), (11, 68476), (15, 68416),

Gene: DigitDog_95 Start: 68558, Stop: 68391, Start Num: 3

Candidate Starts for DigitDog_95:

(Start: 3 @68558 has 7 MA's), (8, 68534), (9, 68519), (11, 68507), (12, 68501), (14, 68450), (15, 68447), (16, 68435), (18, 68411), (20, 68399),

Gene: Donny_93 Start: 67841, Stop: 67671, Start Num: 3

Candidate Starts for Donny_93:

(Start: 2 @67844 has 2 MA's), (Start: 3 @67841 has 7 MA's), (6, 67829), (8, 67817), (9, 67802), (10, 67796), (11, 67790), (13, 67736), (15, 67730), (16, 67718),

Gene: EastView9101_93 Start: 68033, Stop: 67863, Start Num: 3

Candidate Starts for EastView9101_93:

(Start: 2 @68036 has 2 MA's), (Start: 3 @68033 has 7 MA's), (6, 68021), (8, 68009), (9, 67994), (10, 67988), (11, 67982), (13, 67928), (15, 67922), (16, 67910),

Gene: KarasumaRum_91 Start: 67825, Stop: 67658, Start Num: 3

Candidate Starts for KarasumaRum_91:

(Start: 3 @67825 has 7 MA's), (8, 67801), (9, 67786), (11, 67774), (12, 67768), (13, 67720), (14, 67717), (15, 67714), (16, 67702), (18, 67678), (19, 67675), (20, 67666),

Gene: Mysterious_95 Start: 68892, Stop: 68725, Start Num: 2

Candidate Starts for Mysterious_95:

(Start: 2 @68892 has 2 MA's), (5, 68880), (7, 68874), (9, 68850), (13, 68784), (15, 68778), (16, 68766), (17, 68751), (19, 68739),

Gene: Nangang_94 Start: 68454, Stop: 68287, Start Num: 3

Candidate Starts for Nangang_94:

(Start: 3 @68454 has 7 MA's), (8, 68430), (9, 68415), (11, 68403), (12, 68397), (14, 68346), (15, 68343), (16, 68331), (18, 68307), (20, 68295),

Gene: Nehemiah_93 Start: 68760, Stop: 68593, Start Num: 2

Candidate Starts for Nehemiah_93:

(Start: 2 @68760 has 2 MA's), (5, 68748), (7, 68742), (9, 68718), (13, 68652), (15, 68646), (16, 68634), (17, 68619), (19, 68607),

Gene: Phelemich_91 Start: 68789, Stop: 68622, Start Num: 2

Candidate Starts for Phelemich_91:

(Start: 2 @68789 has 2 MA's), (5, 68777), (7, 68771), (9, 68747), (13, 68681), (15, 68675), (16, 68663), (17, 68648), (19, 68636),

Gene: Reprobate_93 Start: 68794, Stop: 68627, Start Num: 2

Candidate Starts for Reprobate_93:

(Start: 2 @68794 has 2 MA's), (5, 68782), (7, 68776), (9, 68752), (13, 68686), (15, 68680), (16, 68668), (17, 68653), (19, 68641),

Gene: Rich_91 Start: 68079, Stop: 67912, Start Num: 3

Candidate Starts for Rich_91:

(Start: 3 @68079 has 7 MA's), (8, 68055), (9, 68040), (10, 68034), (11, 68028), (15, 67968),

Gene: Rita130_92 Start: 67987, Stop: 67817, Start Num: 3

Candidate Starts for Rita130_92:

(Start: 2 @67990 has 2 MA's), (Start: 3 @67987 has 7 MA's), (6, 67975), (8, 67963), (9, 67948), (10, 67942), (11, 67936), (13, 67882), (15, 67876), (16, 67864),

Gene: Serendipitous_94 Start: 68023, Stop: 67859, Start Num: 3

Candidate Starts for Serendipitous_94:

(Start: 3 @68023 has 7 MA's), (8, 67999), (9, 67984), (10, 67978), (11, 67972), (12, 67966), (14, 67915), (15, 67912), (16, 67900), (18, 67876), (19, 67873),

Gene: Shenyu_94 Start: 68452, Stop: 68285, Start Num: 3

Candidate Starts for Shenyu_94:

(Start: 3 @68452 has 7 MA's), (8, 68428), (9, 68413), (11, 68401), (12, 68395), (14, 68344), (15, 68341), (16, 68329), (18, 68305), (20, 68293),

Gene: SirJeffery_91 Start: 68071, Stop: 67904, Start Num: 2

Candidate Starts for SirJeffery_91:

(1, 68284), (Start: 2 @68071 has 2 MA's), (4, 68065), (8, 68044), (9, 68029), (10, 68023), (15, 67957), (16, 67945),

Gene: StinkyVeggy_91 Start: 67825, Stop: 67658, Start Num: 3

Candidate Starts for StinkyVeggy_91:

(Start: 3 @67825 has 7 MA's), (8, 67801), (9, 67786), (11, 67774), (12, 67768), (13, 67720), (14, 67717), (15, 67714), (16, 67702), (18, 67678), (19, 67675), (20, 67666),

Gene: Suigeneris_94 Start: 68229, Stop: 68059, Start Num: 3

Candidate Starts for Suigeneris_94:

(Start: 2 @68232 has 2 MA's), (Start: 3 @68229 has 7 MA's), (6, 68217), (8, 68205), (9, 68190), (10, 68184), (11, 68178), (13, 68124), (15, 68118), (16, 68106),