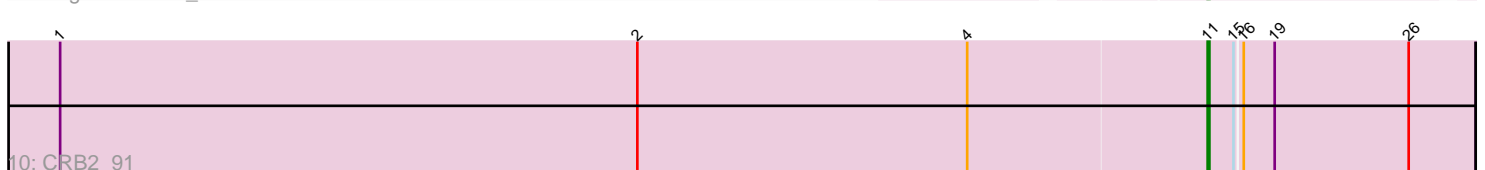
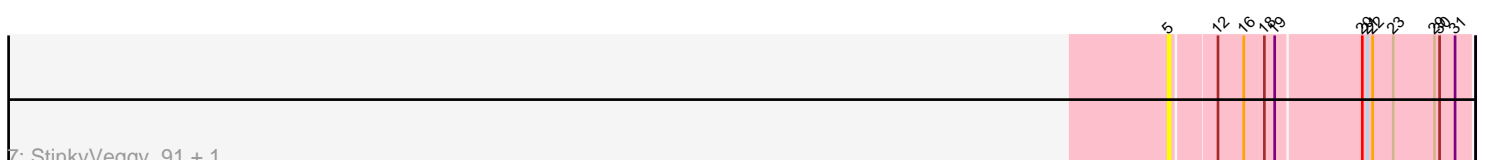
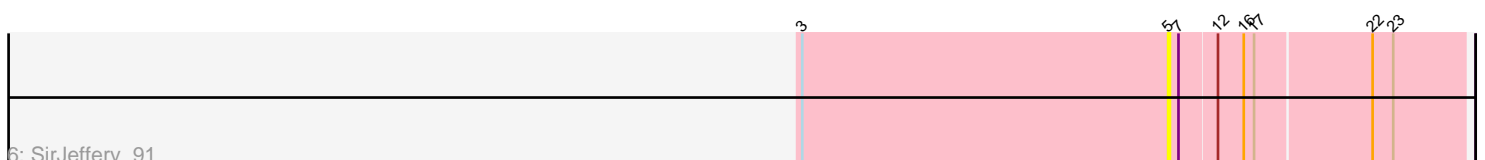
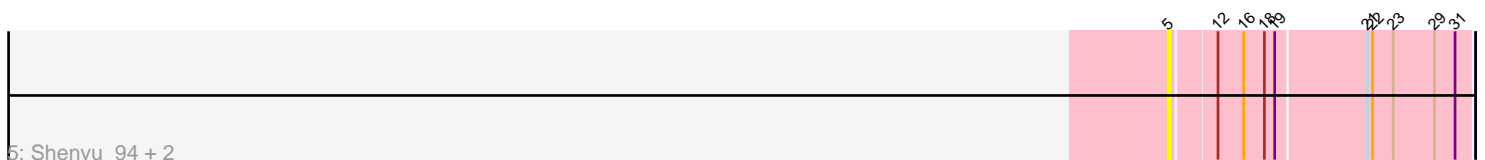
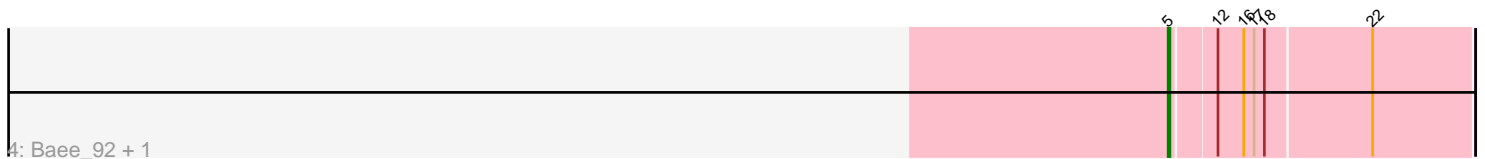
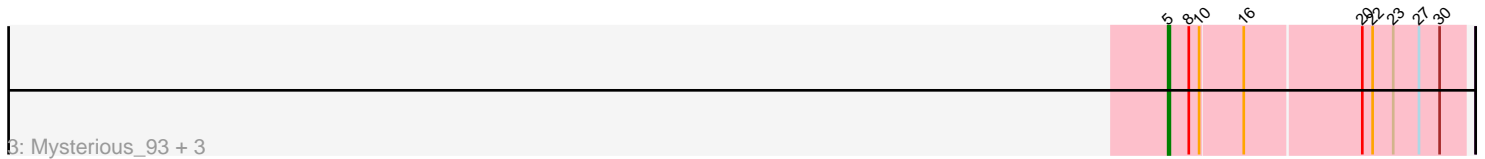
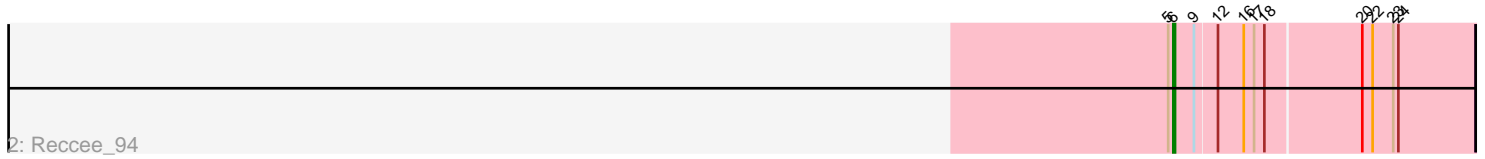


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 300365 Report

This analysis was run 06/08/26 on database version 649.

Pham number 300365 has 21 members, 8 are drafts.

Phages represented in each track:

- Track 1 : EastView9101\_93, Suigeneris\_94, Rita130\_92, Acadian\_93, Donny\_93
- Track 2 : Reccee\_94
- Track 3 : Mysterious\_93, Phelemich\_91, Nehemiah\_93, Reprobate\_93
- Track 4 : Bae\_92, Rich\_91
- Track 5 : Shenyu\_94, DigitDog\_95, Nangang\_94
- Track 6 : SirJeffery\_91
- Track 7 : StinkyVeggy\_91, KarasumaRum\_91
- Track 8 : Serendipitous\_94
- Track 9 : PenguinLover67\_92
- Track 10 : CRB2\_91

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bae\_92, DigitDog\_95, KarasumaRum\_91, Mysterious\_93, Nangang\_94, Nehemiah\_93, Phelemich\_91, Reprobate\_93, Rich\_91, Serendipitous\_94, Shenyu\_94, SirJeffery\_91, StinkyVeggy\_91,

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

- Acadian\_93, Donny\_93, EastView9101\_93, Reccee\_94, Rita130\_92, Suigeneris\_94,

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

- CRB2\_91, PenguinLover67\_92,

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

Start 5:

- Found in 19 of 21 ( 90.5% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 68.4% of time when present

- Phage (with cluster) where this start called: Bae\_92 (B5), DigitDog\_95 (B5), KarasumaRum\_91 (B5), Mysterious\_93 (B5), Nangang\_94 (B5), Nehemiah\_93 (B5), Phelemich\_91 (B5), Reprobate\_93 (B5), Rich\_91 (B5), Serendipitous\_94 (B5), Shenyu\_94 (B5), SirJeffery\_91 (B5), StinkyVeggy\_91 (B5),

#### Start 6:

- Found in 6 of 21 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian\_93 (B5), Donny\_93 (B5), EastView9101\_93 (B5), Reccee\_94 (B5), Rita130\_92 (B5), Suigeneris\_94 (B5),

#### Start 11:

- Found in 2 of 21 ( 9.5% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2\_91 (B9), PenguinLover67\_92 (B9),

### Summary by clusters:

There are 2 clusters represented in this pham: B5, B9,

Info for manual annotations of cluster B5:

- Start number 5 was manually annotated 6 times for cluster B5.
- Start number 6 was manually annotated 5 times for cluster B5.

Info for manual annotations of cluster B9:

- Start number 11 was manually annotated 2 times for cluster B9.

### Gene Information:

Gene: Acadian\_93 Start: 68014, Stop: 67844, Start Num: 6

Candidate Starts for Acadian\_93:

(Start: 5 @68017 has 6 MA's), (Start: 6 @68014 has 5 MA's), (9, 68002), (12, 67990), (16, 67975), (17, 67969), (18, 67963), (20, 67909), (22, 67903), (23, 67891),

Gene: Bae\_92 Start: 68527, Stop: 68360, Start Num: 5

Candidate Starts for Bae\_92:

(Start: 5 @68527 has 6 MA's), (12, 68503), (16, 68488), (17, 68482), (18, 68476), (22, 68416),

Gene: CRB2\_91 Start: 69535, Stop: 69383, Start Num: 11

Candidate Starts for CRB2\_91:

(1, 70201), (2, 69865), (4, 69673), (Start: 11 @69535 has 2 MA's), (15, 69520), (16, 69517), (19, 69499), (26, 69421),

Gene: DigitDog\_95 Start: 68558, Stop: 68391, Start Num: 5

Candidate Starts for DigitDog\_95:

(Start: 5 @68558 has 6 MA's), (12, 68534), (16, 68519), (18, 68507), (19, 68501), (21, 68450), (22, 68447), (23, 68435), (29, 68411), (31, 68399),

Gene: Donny\_93 Start: 67841, Stop: 67671, Start Num: 6

Candidate Starts for Donny\_93:

(Start: 5 @67844 has 6 MA's), (Start: 6 @67841 has 5 MA's), (9, 67829), (12, 67817), (16, 67802), (17, 67796), (18, 67790), (20, 67736), (22, 67730), (23, 67718),

Gene: EastView9101\_93 Start: 68033, Stop: 67863, Start Num: 6

Candidate Starts for EastView9101\_93:

(Start: 5 @68036 has 6 MA's), (Start: 6 @68033 has 5 MA's), (9, 68021), (12, 68009), (16, 67994), (17, 67988), (18, 67982), (20, 67928), (22, 67922), (23, 67910),

Gene: KarasumaRum\_91 Start: 67825, Stop: 67658, Start Num: 5

Candidate Starts for KarasumaRum\_91:

(Start: 5 @67825 has 6 MA's), (12, 67801), (16, 67786), (18, 67774), (19, 67768), (20, 67720), (21, 67717), (22, 67714), (23, 67702), (29, 67678), (30, 67675), (31, 67666),

Gene: Mysterious\_93 Start: 68892, Stop: 68725, Start Num: 5

Candidate Starts for Mysterious\_93:

(Start: 5 @68892 has 6 MA's), (8, 68880), (10, 68874), (16, 68850), (20, 68784), (22, 68778), (23, 68766), (27, 68751), (30, 68739),

Gene: Nangang\_94 Start: 68454, Stop: 68287, Start Num: 5

Candidate Starts for Nangang\_94:

(Start: 5 @68454 has 6 MA's), (12, 68430), (16, 68415), (18, 68403), (19, 68397), (21, 68346), (22, 68343), (23, 68331), (29, 68307), (31, 68295),

Gene: Nehemiah\_93 Start: 68760, Stop: 68593, Start Num: 5

Candidate Starts for Nehemiah\_93:

(Start: 5 @68760 has 6 MA's), (8, 68748), (10, 68742), (16, 68718), (20, 68652), (22, 68646), (23, 68634), (27, 68619), (30, 68607),

Gene: PenguinLover67\_92 Start: 67716, Stop: 67573, Start Num: 11

Candidate Starts for PenguinLover67\_92:

(Start: 11 @67716 has 2 MA's), (13, 67707), (14, 67704), (16, 67695), (21, 67623), (24, 67605), (25, 67602), (28, 67587),

Gene: Phelemich\_91 Start: 68789, Stop: 68622, Start Num: 5

Candidate Starts for Phelemich\_91:

(Start: 5 @68789 has 6 MA's), (8, 68777), (10, 68771), (16, 68747), (20, 68681), (22, 68675), (23, 68663), (27, 68648), (30, 68636),

Gene: Reccee\_94 Start: 68284, Stop: 68114, Start Num: 6

Candidate Starts for Reccee\_94:

(Start: 5 @68287 has 6 MA's), (Start: 6 @68284 has 5 MA's), (9, 68272), (12, 68260), (16, 68245), (17, 68239), (18, 68233), (20, 68179), (22, 68173), (23, 68161), (24, 68158),

Gene: Reprobate\_93 Start: 68794, Stop: 68627, Start Num: 5

Candidate Starts for Reprobate\_93:

(Start: 5 @68794 has 6 MA's), (8, 68782), (10, 68776), (16, 68752), (20, 68686), (22, 68680), (23, 68668), (27, 68653), (30, 68641),

Gene: Rich\_91 Start: 68079, Stop: 67912, Start Num: 5

Candidate Starts for Rich\_91:

(Start: 5 @68079 has 6 MA's), (12, 68055), (16, 68040), (17, 68034), (18, 68028), (22, 67968),

Gene: Rita130\_92 Start: 67987, Stop: 67817, Start Num: 6

Candidate Starts for Rita130\_92:

(Start: 5 @67990 has 6 MA's), (Start: 6 @67987 has 5 MA's), (9, 67975), (12, 67963), (16, 67948), (17, 67942), (18, 67936), (20, 67882), (22, 67876), (23, 67864),

Gene: Serendipitous\_94 Start: 68023, Stop: 67859, Start Num: 5

Candidate Starts for Serendipitous\_94:

(Start: 5 @68023 has 6 MA's), (12, 67999), (16, 67984), (17, 67978), (18, 67972), (19, 67966), (21, 67915), (22, 67912), (23, 67900), (29, 67876), (30, 67873),

Gene: Shenyu\_94 Start: 68452, Stop: 68285, Start Num: 5

Candidate Starts for Shenyu\_94:

(Start: 5 @68452 has 6 MA's), (12, 68428), (16, 68413), (18, 68401), (19, 68395), (21, 68344), (22, 68341), (23, 68329), (29, 68305), (31, 68293),

Gene: SirJeffery\_91 Start: 68071, Stop: 67904, Start Num: 5

Candidate Starts for SirJeffery\_91:

(3, 68284), (Start: 5 @68071 has 6 MA's), (7, 68065), (12, 68044), (16, 68029), (17, 68023), (22, 67957), (23, 67945),

Gene: StinkyVeggy\_91 Start: 67825, Stop: 67658, Start Num: 5

Candidate Starts for StinkyVeggy\_91:

(Start: 5 @67825 has 6 MA's), (12, 67801), (16, 67786), (18, 67774), (19, 67768), (20, 67720), (21, 67717), (22, 67714), (23, 67702), (29, 67678), (30, 67675), (31, 67666),

Gene: Suigeneris\_94 Start: 68229, Stop: 68059, Start Num: 6

Candidate Starts for Suigeneris\_94:

(Start: 5 @68232 has 6 MA's), (Start: 6 @68229 has 5 MA's), (9, 68217), (12, 68205), (16, 68190), (17, 68184), (18, 68178), (20, 68124), (22, 68118), (23, 68106),