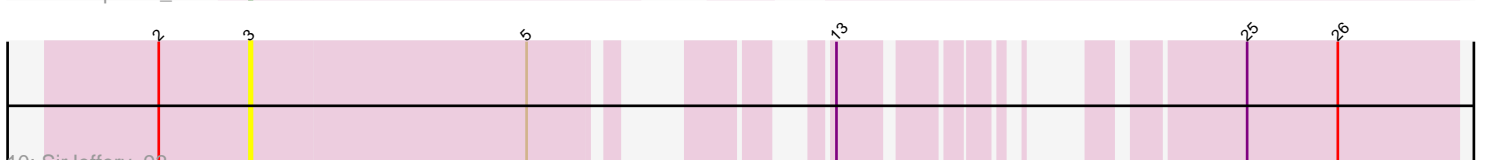
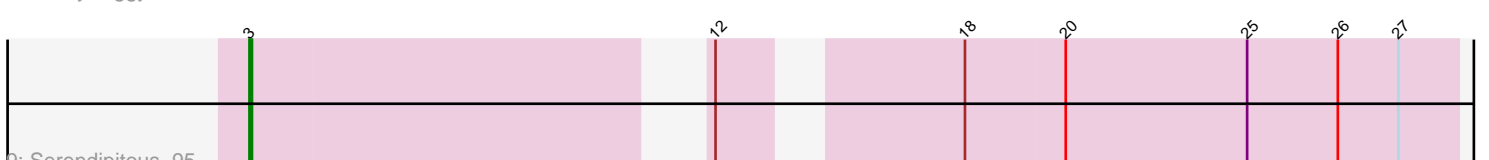
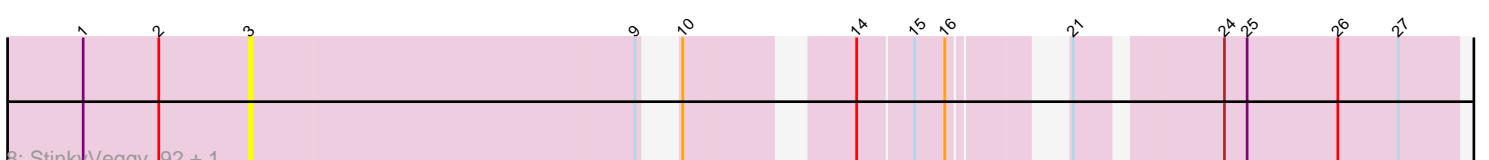
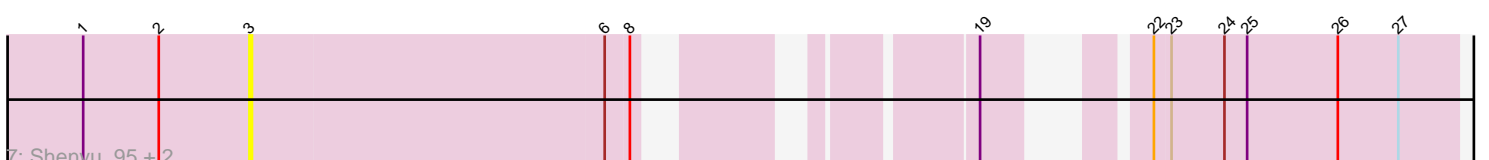
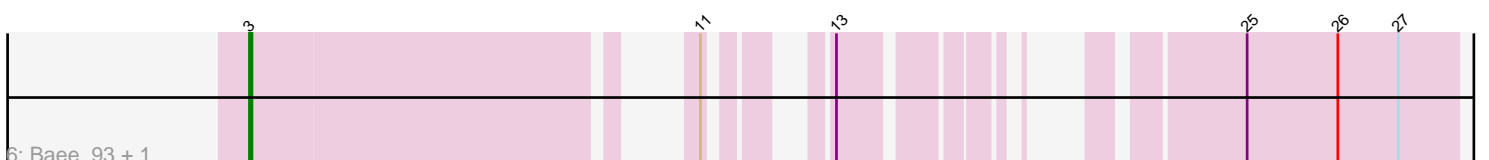
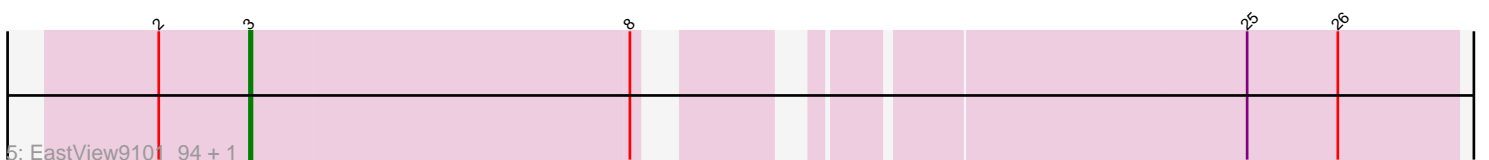
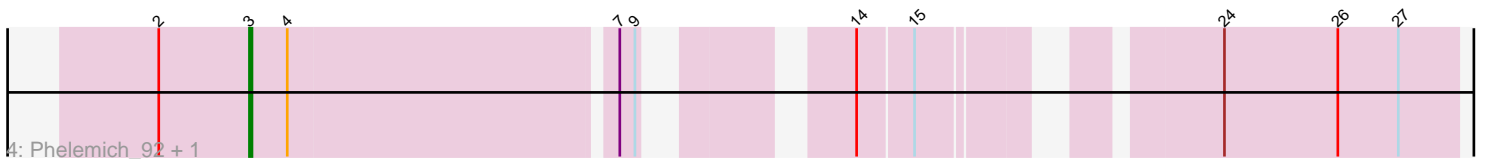
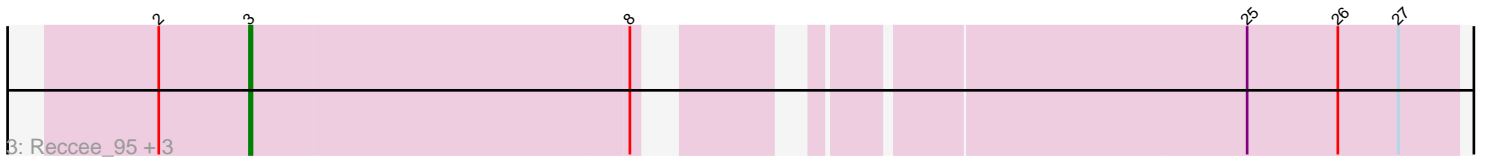
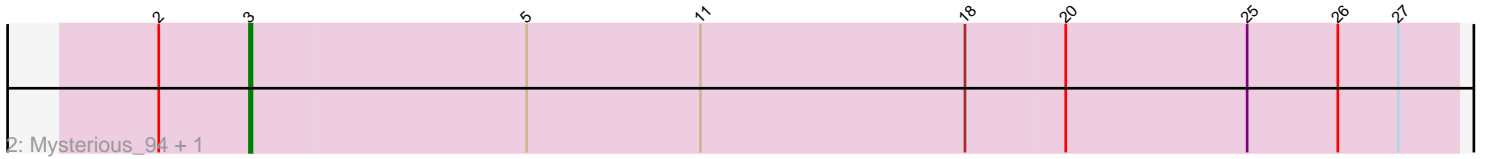
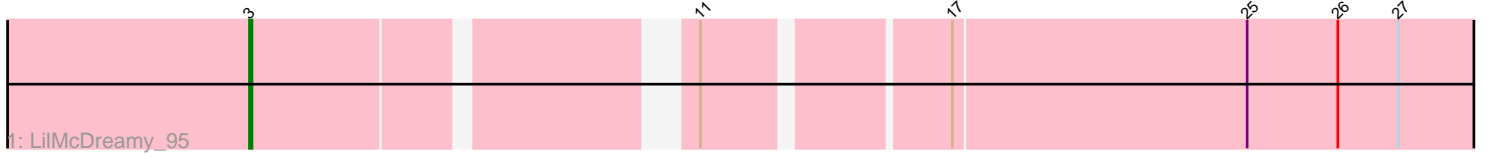


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 305330 Report

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

Pham number 305330 has 20 members, 8 are drafts.

Phages represented in each track:

- Track 1 : LilMcDreamy\_95
- Track 2 : Mysterious\_94, Nehemiah\_94
- Track 3 : Reccee\_95, Suigeneris\_95, Acadian\_94, Rita130\_93
- Track 4 : Phelemich\_92, Reprobate\_94
- Track 5 : EastView9101\_94, Donny\_94
- Track 6 : Bae\_93, Rich\_92
- Track 7 : Shenyu\_95, DigitDog\_96, Nangang\_95
- Track 8 : StinkyVeggy\_92, KarasumaRum\_92
- Track 9 : Serendipitous\_95
- Track 10 : SirJeffery\_92

### ***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 12 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian\_94, Bae\_93, DigitDog\_96, Donny\_94, EastView9101\_94, KarasumaRum\_92, LilMcDreamy\_95, Mysterious\_94, Nangang\_95, Nehemiah\_94, Phelemich\_92, Reccee\_95, Reprobate\_94, Rich\_92, Rita130\_93, Serendipitous\_95, Shenyu\_95, SirJeffery\_92, StinkyVeggy\_92, Suigeneris\_95,

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 3:

- Found in 20 of 20 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 12 of 12
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Acadian\_94 (B5), Bae\_93 (B5), DigitDog\_96 (B5), Donny\_94 (B5), EastView9101\_94 (B5), KarasumaRum\_92 (B5), LilMcDreamy\_95 (B12), Mysterious\_94 (B5), Nangang\_95 (B5), Nehemiah\_94 (B5), Phelemich\_92 (B5), Reccee\_95 (B5), Reprobate\_94 (B5), Rich\_92 (B5), Rita130\_93 (B5), Serendipitous\_95 (B5), Shenyu\_95 (B5), SirJeffery\_92 (B5), StinkyVeggy\_92 (B5), Suigeneris\_95 (B5),

### **Summary by clusters:**

There are 2 clusters represented in this pham: B5, B12,

Info for manual annotations of cluster B12:

- Start number 3 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B5:

- Start number 3 was manually annotated 11 times for cluster B5.

### **Gene Information:**

Gene: Acadian\_94 Start: 68448, Stop: 68014, Start Num: 3

Candidate Starts for Acadian\_94:

(2, 68484), (Start: 3 @68448 has 12 MA's), (8, 68301), (25, 68097), (26, 68061), (27, 68037),

Gene: Bae\_93 Start: 68886, Stop: 68524, Start Num: 3

Candidate Starts for Bae\_93:

(Start: 3 @68886 has 12 MA's), (11, 68742), (13, 68715), (25, 68607), (26, 68571), (27, 68547),

Gene: DigitDog\_96 Start: 68959, Stop: 68555, Start Num: 3

Candidate Starts for DigitDog\_96:

(1, 69025), (2, 68995), (Start: 3 @68959 has 12 MA's), (6, 68821), (8, 68812), (19, 68713), (22, 68674), (23, 68668), (24, 68647), (25, 68638), (26, 68602), (27, 68578),

Gene: Donny\_94 Start: 68275, Stop: 67841, Start Num: 3

Candidate Starts for Donny\_94:

(2, 68311), (Start: 3 @68275 has 12 MA's), (8, 68128), (25, 67924), (26, 67888),

Gene: EastView9101\_94 Start: 68467, Stop: 68033, Start Num: 3

Candidate Starts for EastView9101\_94:

(2, 68503), (Start: 3 @68467 has 12 MA's), (8, 68320), (25, 68116), (26, 68080),

Gene: KarasumaRum\_92 Start: 68235, Stop: 67822, Start Num: 3

Candidate Starts for KarasumaRum\_92:

(1, 68301), (2, 68271), (Start: 3 @68235 has 12 MA's), (9, 68085), (10, 68082), (14, 68028), (15, 68007), (16, 67995), (21, 67965), (24, 67914), (25, 67905), (26, 67869), (27, 67845),

Gene: LilMcDreamy\_95 Start: 70337, Stop: 69876, Start Num: 3

Candidate Starts for LilMcDreamy\_95:

(Start: 3 @70337 has 12 MA's), (11, 70187), (17, 70100), (25, 69986), (26, 69950), (27, 69926),

Gene: Mysterious\_94 Start: 69365, Stop: 68889, Start Num: 3

Candidate Starts for Mysterious\_94:

(2, 69401), (Start: 3 @69365 has 12 MA's), (5, 69257), (11, 69188), (18, 69083), (20, 69044), (25, 68972), (26, 68936), (27, 68912),

Gene: Nangang\_95 Start: 68855, Stop: 68451, Start Num: 3

Candidate Starts for Nangang\_95:

(1, 68921), (2, 68891), (Start: 3 @68855 has 12 MA's), (6, 68717), (8, 68708), (19, 68609), (22, 68570), (23, 68564), (24, 68543), (25, 68534), (26, 68498), (27, 68474),

Gene: Nehemiah\_94 Start: 69233, Stop: 68757, Start Num: 3

Candidate Starts for Nehemiah\_94:

(2, 69269), (Start: 3 @69233 has 12 MA's), (5, 69125), (11, 69056), (18, 68951), (20, 68912), (25, 68840), (26, 68804), (27, 68780),

Gene: Phelemich\_92 Start: 69193, Stop: 68786, Start Num: 3

Candidate Starts for Phelemich\_92:

(2, 69229), (Start: 3 @69193 has 12 MA's), (4, 69178), (7, 69055), (9, 69049), (14, 68992), (15, 68971), (24, 68878), (26, 68833), (27, 68809),

Gene: Reccee\_95 Start: 68718, Stop: 68284, Start Num: 3

Candidate Starts for Reccee\_95:

(2, 68754), (Start: 3 @68718 has 12 MA's), (8, 68571), (25, 68367), (26, 68331), (27, 68307),

Gene: Reprobate\_94 Start: 69198, Stop: 68791, Start Num: 3

Candidate Starts for Reprobate\_94:

(2, 69234), (Start: 3 @69198 has 12 MA's), (4, 69183), (7, 69060), (9, 69054), (14, 68997), (15, 68976), (24, 68883), (26, 68838), (27, 68814),

Gene: Rich\_92 Start: 68438, Stop: 68076, Start Num: 3

Candidate Starts for Rich\_92:

(Start: 3 @68438 has 12 MA's), (11, 68294), (13, 68267), (25, 68159), (26, 68123), (27, 68099),

Gene: Rita130\_93 Start: 68421, Stop: 67987, Start Num: 3

Candidate Starts for Rita130\_93:

(2, 68457), (Start: 3 @68421 has 12 MA's), (8, 68274), (25, 68070), (26, 68034), (27, 68010),

Gene: Serendipitous\_95 Start: 68448, Stop: 68020, Start Num: 3

Candidate Starts for Serendipitous\_95:

(Start: 3 @68448 has 12 MA's), (12, 68292), (18, 68214), (20, 68175), (25, 68103), (26, 68067), (27, 68043),

Gene: Shenyu\_95 Start: 68853, Stop: 68449, Start Num: 3

Candidate Starts for Shenyu\_95:

(1, 68919), (2, 68889), (Start: 3 @68853 has 12 MA's), (6, 68715), (8, 68706), (19, 68607), (22, 68568), (23, 68562), (24, 68541), (25, 68532), (26, 68496), (27, 68472),

Gene: SirJeffery\_92 Start: 68436, Stop: 68068, Start Num: 3

Candidate Starts for SirJeffery\_92:

(2, 68472), (Start: 3 @68436 has 12 MA's), (5, 68328), (13, 68259), (25, 68151), (26, 68115),

Gene: StinkyVeggy\_92 Start: 68235, Stop: 67822, Start Num: 3

Candidate Starts for StinkyVeggy\_92:

(1, 68301), (2, 68271), (Start: 3 @68235 has 12 MA's), (9, 68085), (10, 68082), (14, 68028), (15, 68007), (16, 67995), (21, 67965), (24, 67914), (25, 67905), (26, 67869), (27, 67845),

Gene: Suigeneris\_95 Start: 68663, Stop: 68229, Start Num: 3

Candidate Starts for Suigeneris\_95:

(2, 68699), (Start: 3 @68663 has 12 MA's), (8, 68516), (25, 68312), (26, 68276), (27, 68252),