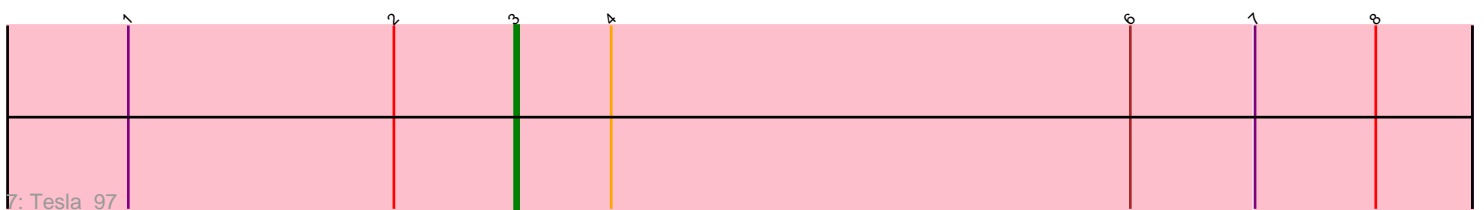
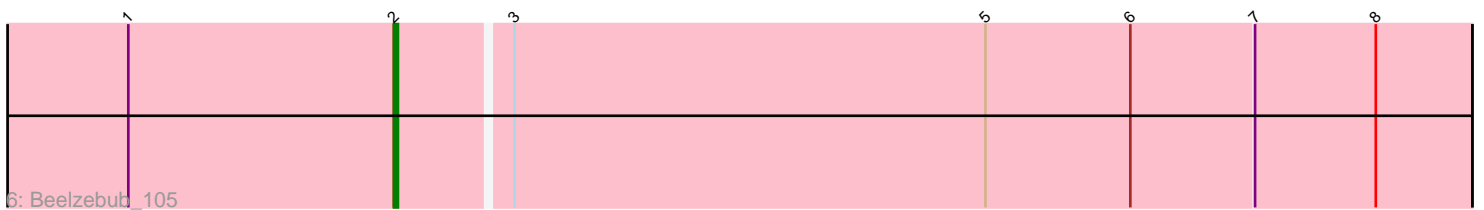
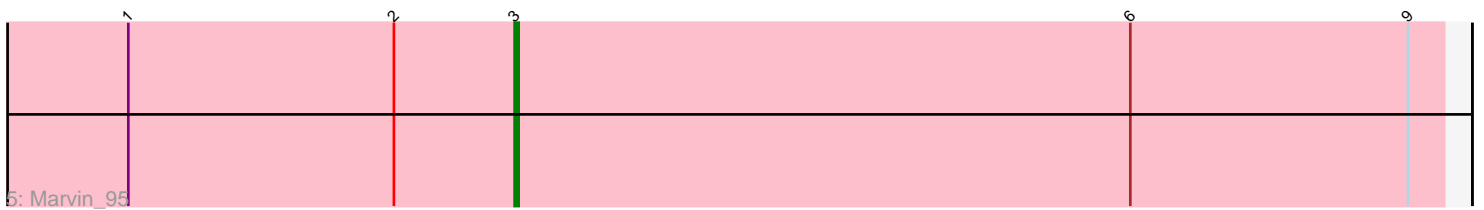
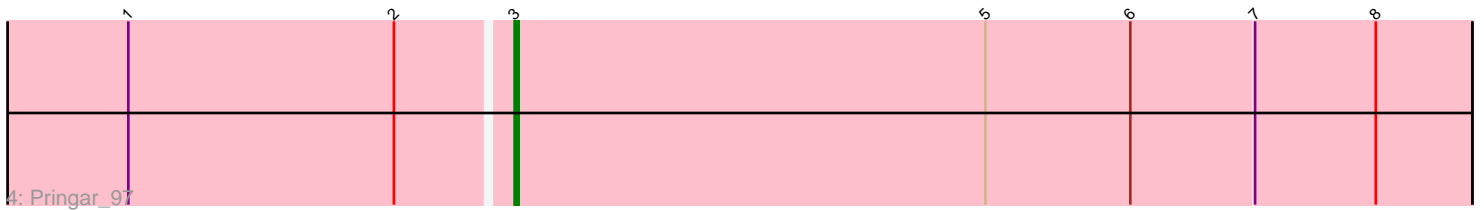
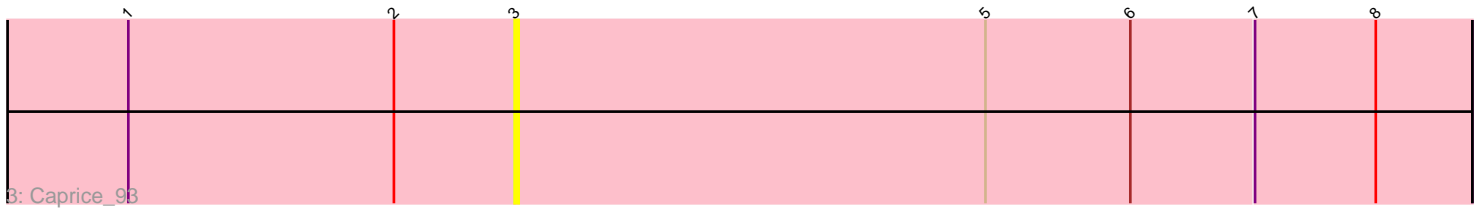
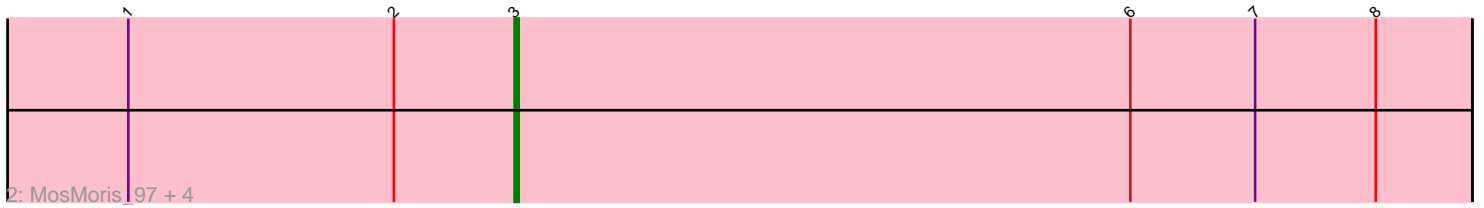
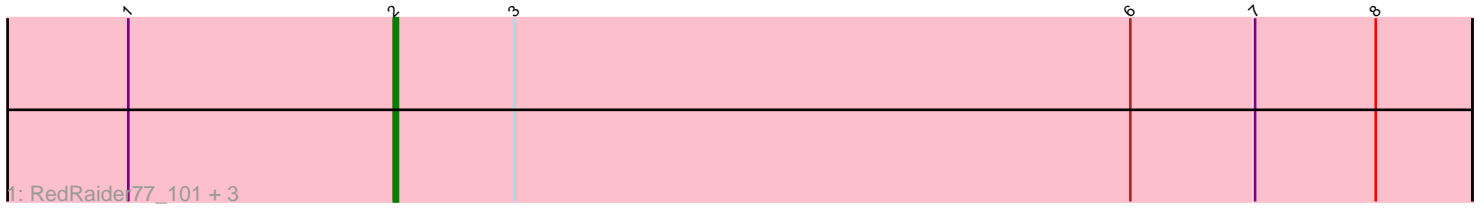


Pham 221903



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 221903 Report

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

Pham number 221903 has 14 members, 2 are drafts.

Phages represented in each track:

- Track 1 : RedRaider77\_101, Raela\_103, JoieB\_102, Poise\_102
- Track 2 : MosMoris\_97, VasuNzinga\_99, Gattaca\_100, GoongGoong\_98, Blackbeetle\_102
- Track 3 : Caprice\_93
- Track 4 : Pringar\_97
- Track 5 : Marvin\_95
- Track 6 : Beelzebub\_105
- Track 7 : Tesla\_97

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

Genes that call this "Most Annotated" start:

- Blackbeetle\_102, Caprice\_93, Gattaca\_100, GoongGoong\_98, Marvin\_95, MosMoris\_97, Pringar\_97, Tesla\_97, VasuNzinga\_99,

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

- Beelzebub\_105, JoieB\_102, Poise\_102, Raela\_103, RedRaider77\_101,

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

- 

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

Start 2:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called 35.7% of time when present
- Phage (with cluster) where this start called: Beelzebub\_105 (S), JoieB\_102 (S), Poise\_102 (S), Raela\_103 (S), RedRaider77\_101 (S),

Start 3:

- Found in 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 7 of 12
- Called 64.3% of time when present
- Phage (with cluster) where this start called: Blackbeetle\_102 (S), Caprice\_93 (S), Gattaca\_100 (S), GoongGoong\_98 (S), Marvin\_95 (S), MosMoris\_97 (S), Pringar\_97 (S), Tesla\_97 (S), VasuNzinga\_99 (S),

### **Summary by clusters:**

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 2 was manually annotated 5 times for cluster S.
- Start number 3 was manually annotated 7 times for cluster S.

### **Gene Information:**

Gene: Beelzebub\_105 Start: 58428, Stop: 58165, Start Num: 2

Candidate Starts for Beelzebub\_105:

(1, 58494), (Start: 2 @58428 has 5 MA's), (Start: 3 @58401 has 7 MA's), (5, 58284), (6, 58248), (7, 58218), (8, 58188),

Gene: Blackbeetle\_102 Start: 57898, Stop: 57662, Start Num: 3

Candidate Starts for Blackbeetle\_102:

(1, 57994), (Start: 2 @57928 has 5 MA's), (Start: 3 @57898 has 7 MA's), (6, 57745), (7, 57715), (8, 57685),

Gene: Caprice\_93 Start: 57839, Stop: 57603, Start Num: 3

Candidate Starts for Caprice\_93:

(1, 57935), (Start: 2 @57869 has 5 MA's), (Start: 3 @57839 has 7 MA's), (5, 57722), (6, 57686), (7, 57656), (8, 57626),

Gene: Gattaca\_100 Start: 58310, Stop: 58074, Start Num: 3

Candidate Starts for Gattaca\_100:

(1, 58406), (Start: 2 @58340 has 5 MA's), (Start: 3 @58310 has 7 MA's), (6, 58157), (7, 58127), (8, 58097),

Gene: GoongGoong\_98 Start: 58116, Stop: 57880, Start Num: 3

Candidate Starts for GoongGoong\_98:

(1, 58212), (Start: 2 @58146 has 5 MA's), (Start: 3 @58116 has 7 MA's), (6, 57963), (7, 57933), (8, 57903),

Gene: JoieB\_102 Start: 58515, Stop: 58249, Start Num: 2

Candidate Starts for JoieB\_102:

(1, 58581), (Start: 2 @58515 has 5 MA's), (Start: 3 @58485 has 7 MA's), (6, 58332), (7, 58302), (8, 58272),

Gene: Marvin\_95 Start: 57970, Stop: 57740, Start Num: 3

Candidate Starts for Marvin\_95:

(1, 58066), (Start: 2 @58000 has 5 MA's), (Start: 3 @57970 has 7 MA's), (6, 57817), (9, 57748),

Gene: MosMoris\_97 Start: 58316, Stop: 58080, Start Num: 3

Candidate Starts for MosMoris\_97:

(1, 58412), (Start: 2 @58346 has 5 MA's), (Start: 3 @58316 has 7 MA's), (6, 58163), (7, 58133), (8, 58103),

Gene: Poise\_102 Start: 57928, Stop: 57662, Start Num: 2

Candidate Starts for Poise\_102:

(1, 57994), (Start: 2 @57928 has 5 MA's), (Start: 3 @57898 has 7 MA's), (6, 57745), (7, 57715), (8, 57685),

Gene: Pringar\_97 Start: 57688, Stop: 57452, Start Num: 3

Candidate Starts for Pringar\_97:

(1, 57781), (Start: 2 @57715 has 5 MA's), (Start: 3 @57688 has 7 MA's), (5, 57571), (6, 57535), (7, 57505), (8, 57475),

Gene: Raela\_103 Start: 58483, Stop: 58217, Start Num: 2

Candidate Starts for Raela\_103:

(1, 58549), (Start: 2 @58483 has 5 MA's), (Start: 3 @58453 has 7 MA's), (6, 58300), (7, 58270), (8, 58240),

Gene: RedRaider77\_101 Start: 57876, Stop: 57610, Start Num: 2

Candidate Starts for RedRaider77\_101:

(1, 57942), (Start: 2 @57876 has 5 MA's), (Start: 3 @57846 has 7 MA's), (6, 57693), (7, 57663), (8, 57633),

Gene: Tesla\_97 Start: 57693, Stop: 57457, Start Num: 3

Candidate Starts for Tesla\_97:

(1, 57789), (Start: 2 @57723 has 5 MA's), (Start: 3 @57693 has 7 MA's), (4, 57669), (6, 57540), (7, 57510), (8, 57480),

Gene: VasuNzinga\_99 Start: 57779, Stop: 57543, Start Num: 3

Candidate Starts for VasuNzinga\_99:

(1, 57875), (Start: 2 @57809 has 5 MA's), (Start: 3 @57779 has 7 MA's), (6, 57626), (7, 57596), (8, 57566),