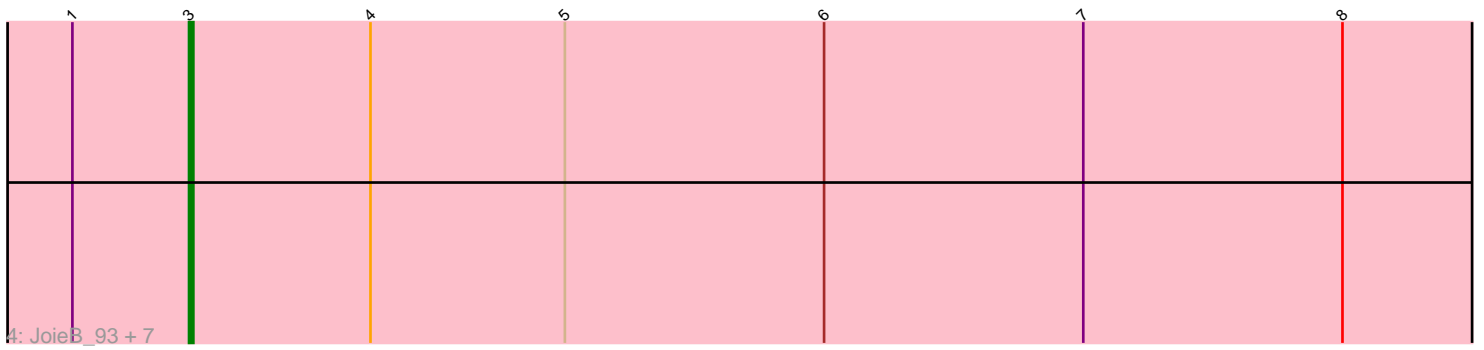
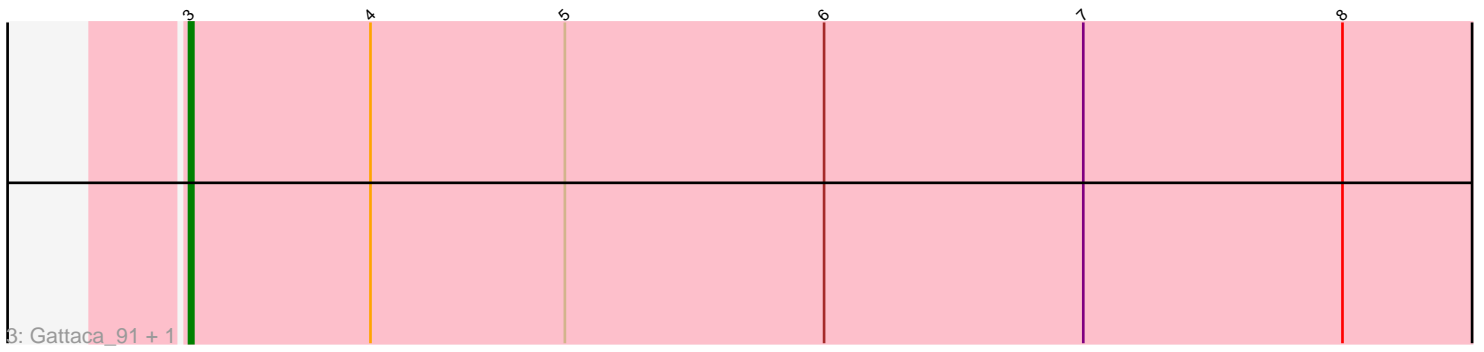
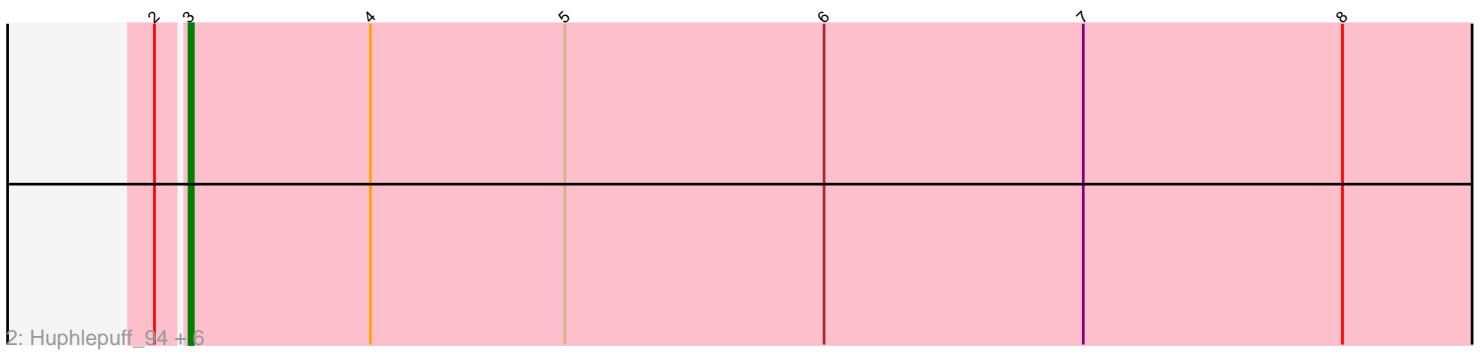
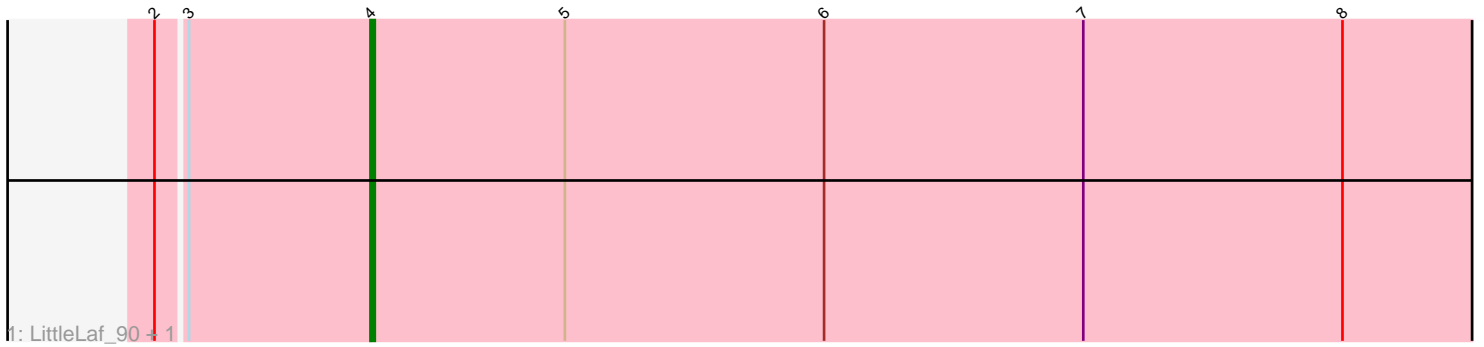


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 194372 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194372 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : LittleLaf\_90, FeliMaine\_88
- Track 2 : Huphlepuuff\_94, Marvin\_86, Beelzebub\_96, Corazon\_87, Clarkson\_93, Pringar\_88, Lilbit\_90
- Track 3 : Gattaca\_91, MosMoris\_88
- Track 4 : JoieB\_93, Blackbeetle\_93, VasuNzinga\_90, Poise\_93, Raela\_94, RedRaider77\_92, Caprice\_85, Tesla\_88

### ***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 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_96, Blackbeetle\_93, Caprice\_85, Clarkson\_93, Corazon\_87, Gattaca\_91, Huphlepuuff\_94, JoieB\_93, Lilbit\_90, Marvin\_86, MosMoris\_88, Poise\_93, Pringar\_88, Raela\_94, RedRaider77\_92, Tesla\_88, VasuNzinga\_90,

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

- FeliMaine\_88, LittleLaf\_90,

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

- 

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

Start 3:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Beelzebub\_96 (S), Blackbeetle\_93 (S), Caprice\_85 (S), Clarkson\_93 (S), Corazon\_87 (S), Gattaca\_91 (S), Huphlepuuff\_94 (S), JoieB\_93 (S), Lilbit\_90 (S), Marvin\_86 (S), MosMoris\_88 (S), Poise\_93 (S), Pringar\_88 (S), Raela\_94 (S), RedRaider77\_92 (S), Tesla\_88 (S), VasuNzinga\_90 (S),

Start 4:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 10.5% of time when present
- Phage (with cluster) where this start called: FeliMaine\_88 (S), LittleLaf\_90 (S),

### **Summary by clusters:**

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 3 was manually annotated 15 times for cluster S.
- Start number 4 was manually annotated 1 time for cluster S.

### **Gene Information:**

Gene: Beelzebub\_96 Start: 49193, Stop: 49519, Start Num: 3

Candidate Starts for Beelzebub\_96:

(2, 49187), (Start: 3 @49193 has 15 MA's), (Start: 4 @49235 has 1 MA's), (5, 49280), (6, 49340), (7, 49400), (8, 49460),

Gene: Blackbeetle\_93 Start: 48691, Stop: 49017, Start Num: 3

Candidate Starts for Blackbeetle\_93:

(1, 48664), (Start: 3 @48691 has 15 MA's), (Start: 4 @48733 has 1 MA's), (5, 48778), (6, 48838), (7, 48898), (8, 48958),

Gene: Caprice\_85 Start: 48629, Stop: 48955, Start Num: 3

Candidate Starts for Caprice\_85:

(1, 48602), (Start: 3 @48629 has 15 MA's), (Start: 4 @48671 has 1 MA's), (5, 48716), (6, 48776), (7, 48836), (8, 48896),

Gene: Clarkson\_93 Start: 48873, Stop: 49199, Start Num: 3

Candidate Starts for Clarkson\_93:

(2, 48867), (Start: 3 @48873 has 15 MA's), (Start: 4 @48915 has 1 MA's), (5, 48960), (6, 49020), (7, 49080), (8, 49140),

Gene: Corazon\_87 Start: 49067, Stop: 49393, Start Num: 3

Candidate Starts for Corazon\_87:

(2, 49061), (Start: 3 @49067 has 15 MA's), (Start: 4 @49109 has 1 MA's), (5, 49154), (6, 49214), (7, 49274), (8, 49334),

Gene: FeliMaine\_88 Start: 49157, Stop: 49441, Start Num: 4

Candidate Starts for FeliMaine\_88:

(2, 49109), (Start: 3 @49115 has 15 MA's), (Start: 4 @49157 has 1 MA's), (5, 49202), (6, 49262), (7, 49322), (8, 49382),

Gene: Gattaca\_91 Start: 49103, Stop: 49429, Start Num: 3

Candidate Starts for Gattaca\_91:

(Start: 3 @49103 has 15 MA's), (Start: 4 @49145 has 1 MA's), (5, 49190), (6, 49250), (7, 49310), (8, 49370),

Gene: Huphlepuuff\_94 Start: 48678, Stop: 49004, Start Num: 3

Candidate Starts for Huphlepuuff\_94:

(2, 48672), (Start: 3 @48678 has 15 MA's), (Start: 4 @48720 has 1 MA's), (5, 48765), (6, 48825), (7, 48885), (8, 48945),

Gene: JoieB\_93 Start: 49278, Stop: 49604, Start Num: 3

Candidate Starts for JoieB\_93:

(1, 49251), (Start: 3 @49278 has 15 MA's), (Start: 4 @49320 has 1 MA's), (5, 49365), (6, 49425), (7, 49485), (8, 49545),

Gene: Lilbit\_90 Start: 49238, Stop: 49564, Start Num: 3

Candidate Starts for Lilbit\_90:

(2, 49232), (Start: 3 @49238 has 15 MA's), (Start: 4 @49280 has 1 MA's), (5, 49325), (6, 49385), (7, 49445), (8, 49505),

Gene: LittleLaf\_90 Start: 49009, Stop: 49293, Start Num: 4

Candidate Starts for LittleLaf\_90:

(2, 48961), (Start: 3 @48967 has 15 MA's), (Start: 4 @49009 has 1 MA's), (5, 49054), (6, 49114), (7, 49174), (8, 49234),

Gene: Marvin\_86 Start: 48763, Stop: 49089, Start Num: 3

Candidate Starts for Marvin\_86:

(2, 48757), (Start: 3 @48763 has 15 MA's), (Start: 4 @48805 has 1 MA's), (5, 48850), (6, 48910), (7, 48970), (8, 49030),

Gene: MosMoris\_88 Start: 49109, Stop: 49435, Start Num: 3

Candidate Starts for MosMoris\_88:

(Start: 3 @49109 has 15 MA's), (Start: 4 @49151 has 1 MA's), (5, 49196), (6, 49256), (7, 49316), (8, 49376),

Gene: Poise\_93 Start: 48691, Stop: 49017, Start Num: 3

Candidate Starts for Poise\_93:

(1, 48664), (Start: 3 @48691 has 15 MA's), (Start: 4 @48733 has 1 MA's), (5, 48778), (6, 48838), (7, 48898), (8, 48958),

Gene: Pringar\_88 Start: 48479, Stop: 48805, Start Num: 3

Candidate Starts for Pringar\_88:

(2, 48473), (Start: 3 @48479 has 15 MA's), (Start: 4 @48521 has 1 MA's), (5, 48566), (6, 48626), (7, 48686), (8, 48746),

Gene: Raela\_94 Start: 49242, Stop: 49568, Start Num: 3

Candidate Starts for Raela\_94:

(1, 49215), (Start: 3 @49242 has 15 MA's), (Start: 4 @49284 has 1 MA's), (5, 49329), (6, 49389), (7, 49449), (8, 49509),

Gene: RedRaider77\_92 Start: 48636, Stop: 48962, Start Num: 3

Candidate Starts for RedRaider77\_92:

(1, 48609), (Start: 3 @48636 has 15 MA's), (Start: 4 @48678 has 1 MA's), (5, 48723), (6, 48783), (7, 48843), (8, 48903),

Gene: Tesla\_88 Start: 48485, Stop: 48811, Start Num: 3

Candidate Starts for Tesla\_88:

(1, 48458), (Start: 3 @48485 has 15 MA's), (Start: 4 @48527 has 1 MA's), (5, 48572), (6, 48632), (7, 48692), (8, 48752),

Gene: VasuNzinga\_90 Start: 48574, Stop: 48900, Start Num: 3

Candidate Starts for VasuNzinga\_90:

(1, 48547), (Start: 3 @48574 has 15 MA's), (Start: 4 @48616 has 1 MA's), (5, 48661), (6, 48721), (7, 48781), (8, 48841),