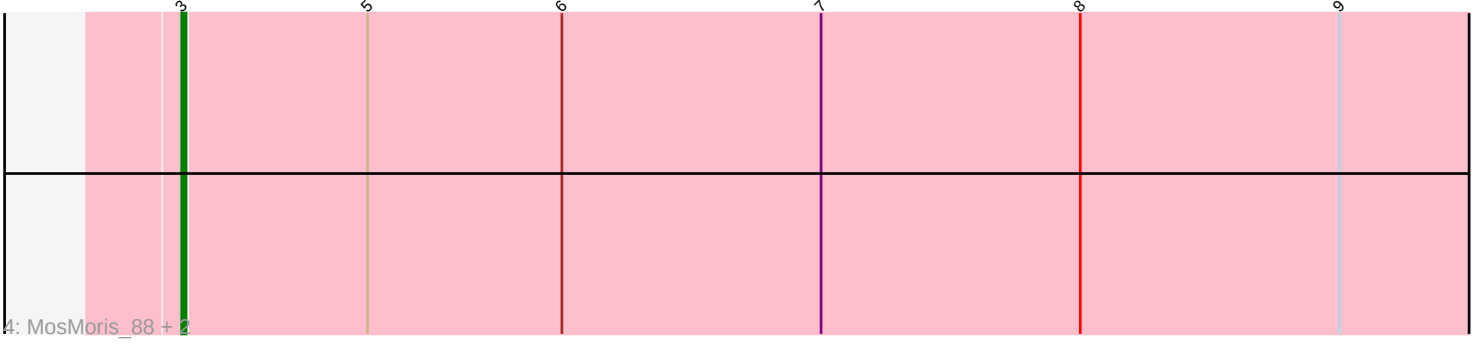
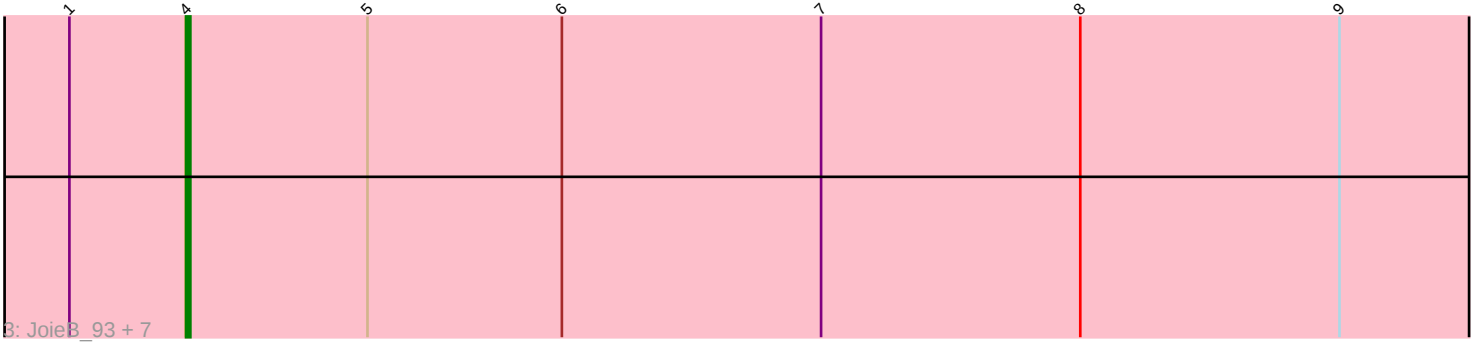
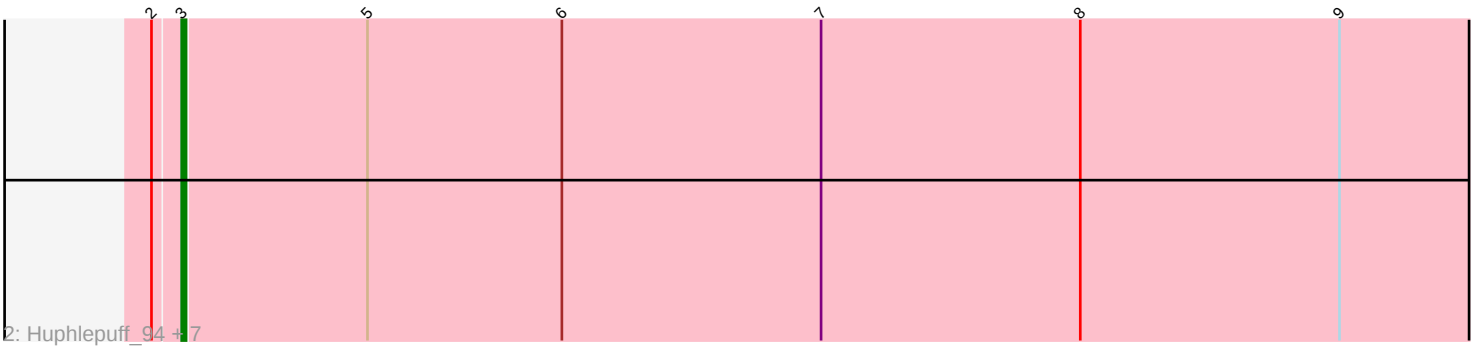
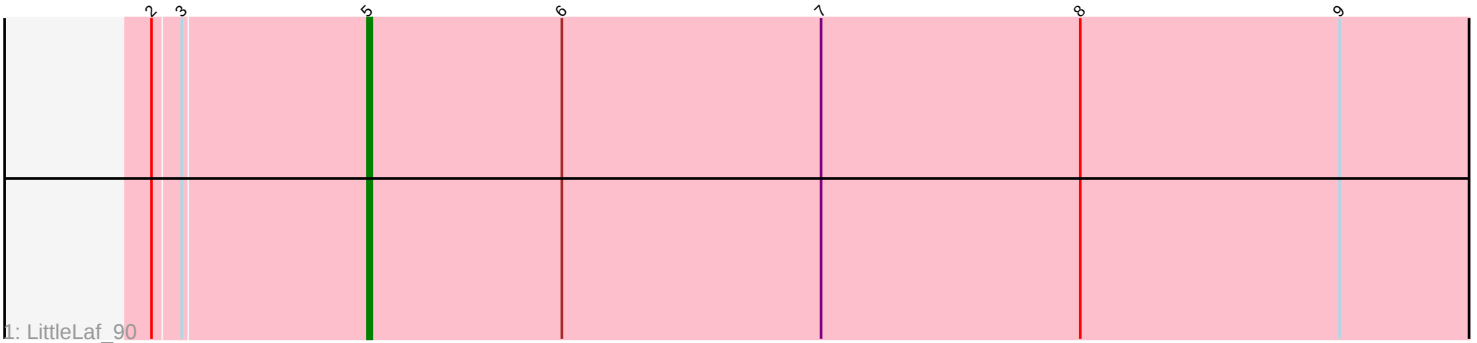




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280901 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280901 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : LittleLaf_90
- Track 2 : Huphlepuuff_94, Marvin_86, Beelzebub_96, Corazon_87, Clarkson_93, Lilbit_88, FeliMaine_92, Pringar_88
- Track 3 : JoieB_93, Blackbeetle_93, VasuNzinga_90, Poise_93, Raela_94, RedRaider77_92, Caprice_85, Tesla_88
- Track 4 : MosMoris_88, GoongGoong_90, Gattaca_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 10 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_96, Clarkson_93, Corazon_87, FeliMaine_92, Gattaca_91, GoongGoong_90, Huphlepuuff_94, Lilbit_88, Marvin_86, MosMoris_88, Pringar_88,

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

- LittleLaf_90,

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

- Blackbeetle_93, Caprice_85, JoieB_93, Poise_93, Raela_94, RedRaider77_92, Tesla_88, VasuNzinga_90,

Summary by start number:

Start 3:

- Found in 12 of 20 (60.0%) of genes in pham
- Manual Annotations of this start: 10 of 18
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Beelzebub_96 (S), Clarkson_93 (S), Corazon_87 (S), FeliMaine_92 (S), Gattaca_91 (S), GoongGoong_90 (S), Huphlepuuff_94 (S), Lilbit_88 (S), Marvin_86 (S), MosMoris_88 (S), Pringar_88 (S),

Start 4:

- Found in 8 of 20 (40.0%) of genes in pham
- Manual Annotations of this start: 7 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blackbeetle_93 (S), Caprice_85 (S), JoieB_93 (S), Poise_93 (S), Raela_94 (S), RedRaider77_92 (S), Tesla_88 (S), VasuNzinga_90 (S),

Start 5:

- Found in 20 of 20 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 5.0% of time when present
- Phage (with cluster) where this start called: 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 10 times for cluster S.
- Start number 4 was manually annotated 7 times for cluster S.
- Start number 5 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 10 MA's), (Start: 5 @49235 has 1 MA's), (6, 49280), (7, 49340), (8, 49400), (9, 49460),

Gene: Blackbeetle_93 Start: 48691, Stop: 49017, Start Num: 4

Candidate Starts for Blackbeetle_93:

(1, 48664), (Start: 4 @48691 has 7 MA's), (Start: 5 @48733 has 1 MA's), (6, 48778), (7, 48838), (8, 48898), (9, 48958),

Gene: Caprice_85 Start: 48629, Stop: 48955, Start Num: 4

Candidate Starts for Caprice_85:

(1, 48602), (Start: 4 @48629 has 7 MA's), (Start: 5 @48671 has 1 MA's), (6, 48716), (7, 48776), (8, 48836), (9, 48896),

Gene: Clarkson_93 Start: 48873, Stop: 49199, Start Num: 3

Candidate Starts for Clarkson_93:

(2, 48867), (Start: 3 @48873 has 10 MA's), (Start: 5 @48915 has 1 MA's), (6, 48960), (7, 49020), (8, 49080), (9, 49140),

Gene: Corazon_87 Start: 49067, Stop: 49393, Start Num: 3

Candidate Starts for Corazon_87:

(2, 49061), (Start: 3 @49067 has 10 MA's), (Start: 5 @49109 has 1 MA's), (6, 49154), (7, 49214), (8, 49274), (9, 49334),

Gene: FeliMaine_92 Start: 49115, Stop: 49441, Start Num: 3

Candidate Starts for FeliMaine_92:

(2, 49109), (Start: 3 @49115 has 10 MA's), (Start: 5 @49157 has 1 MA's), (6, 49202), (7, 49262), (8, 49322), (9, 49382),

Gene: Gattaca_91 Start: 49103, Stop: 49429, Start Num: 3

Candidate Starts for Gattaca_91:

(Start: 3 @49103 has 10 MA's), (Start: 5 @49145 has 1 MA's), (6, 49190), (7, 49250), (8, 49310), (9, 49370),

Gene: GoongGoong_90 Start: 48909, Stop: 49235, Start Num: 3

Candidate Starts for GoongGoong_90:

(Start: 3 @48909 has 10 MA's), (Start: 5 @48951 has 1 MA's), (6, 48996), (7, 49056), (8, 49116), (9, 49176),

Gene: Huphlebuff_94 Start: 48678, Stop: 49004, Start Num: 3

Candidate Starts for Huphlebuff_94:

(2, 48672), (Start: 3 @48678 has 10 MA's), (Start: 5 @48720 has 1 MA's), (6, 48765), (7, 48825), (8, 48885), (9, 48945),

Gene: JoieB_93 Start: 49278, Stop: 49604, Start Num: 4

Candidate Starts for JoieB_93:

(1, 49251), (Start: 4 @49278 has 7 MA's), (Start: 5 @49320 has 1 MA's), (6, 49365), (7, 49425), (8, 49485), (9, 49545),

Gene: Lilbit_88 Start: 49238, Stop: 49564, Start Num: 3

Candidate Starts for Lilbit_88:

(2, 49232), (Start: 3 @49238 has 10 MA's), (Start: 5 @49280 has 1 MA's), (6, 49325), (7, 49385), (8, 49445), (9, 49505),

Gene: LittleLaf_90 Start: 49009, Stop: 49293, Start Num: 5

Candidate Starts for LittleLaf_90:

(2, 48961), (Start: 3 @48967 has 10 MA's), (Start: 5 @49009 has 1 MA's), (6, 49054), (7, 49114), (8, 49174), (9, 49234),

Gene: Marvin_86 Start: 48763, Stop: 49089, Start Num: 3

Candidate Starts for Marvin_86:

(2, 48757), (Start: 3 @48763 has 10 MA's), (Start: 5 @48805 has 1 MA's), (6, 48850), (7, 48910), (8, 48970), (9, 49030),

Gene: MosMoris_88 Start: 49109, Stop: 49435, Start Num: 3

Candidate Starts for MosMoris_88:

(Start: 3 @49109 has 10 MA's), (Start: 5 @49151 has 1 MA's), (6, 49196), (7, 49256), (8, 49316), (9, 49376),

Gene: Poise_93 Start: 48691, Stop: 49017, Start Num: 4

Candidate Starts for Poise_93:

(1, 48664), (Start: 4 @48691 has 7 MA's), (Start: 5 @48733 has 1 MA's), (6, 48778), (7, 48838), (8, 48898), (9, 48958),

Gene: Pringar_88 Start: 48479, Stop: 48805, Start Num: 3

Candidate Starts for Pringar_88:

(2, 48473), (Start: 3 @48479 has 10 MA's), (Start: 5 @48521 has 1 MA's), (6, 48566), (7, 48626), (8, 48686), (9, 48746),

Gene: Raela_94 Start: 49242, Stop: 49568, Start Num: 4

Candidate Starts for Raela_94:

(1, 49215), (Start: 4 @49242 has 7 MA's), (Start: 5 @49284 has 1 MA's), (6, 49329), (7, 49389), (8, 49449), (9, 49509),

Gene: RedRaider77_92 Start: 48636, Stop: 48962, Start Num: 4

Candidate Starts for RedRaider77_92:

(1, 48609), (Start: 4 @48636 has 7 MA's), (Start: 5 @48678 has 1 MA's), (6, 48723), (7, 48783), (8, 48843), (9, 48903),

Gene: Tesla_88 Start: 48485, Stop: 48811, Start Num: 4

Candidate Starts for Tesla_88:

(1, 48458), (Start: 4 @48485 has 7 MA's), (Start: 5 @48527 has 1 MA's), (6, 48572), (7, 48632), (8, 48692), (9, 48752),

Gene: VasuNzinga_90 Start: 48574, Stop: 48900, Start Num: 4

Candidate Starts for VasuNzinga_90:

(1, 48547), (Start: 4 @48574 has 7 MA's), (Start: 5 @48616 has 1 MA's), (6, 48661), (7, 48721), (8, 48781), (9, 48841),