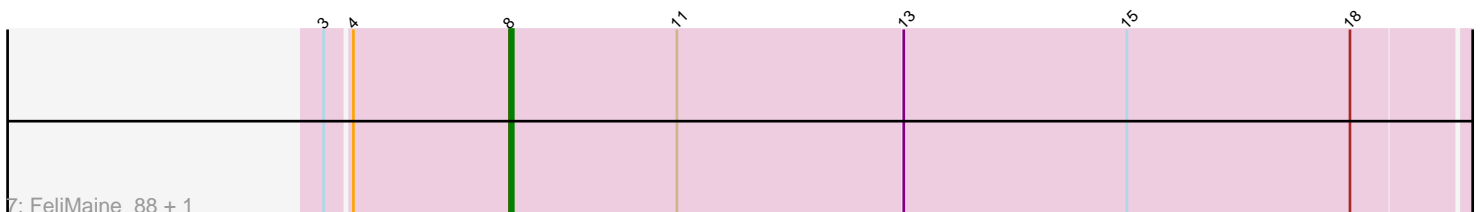
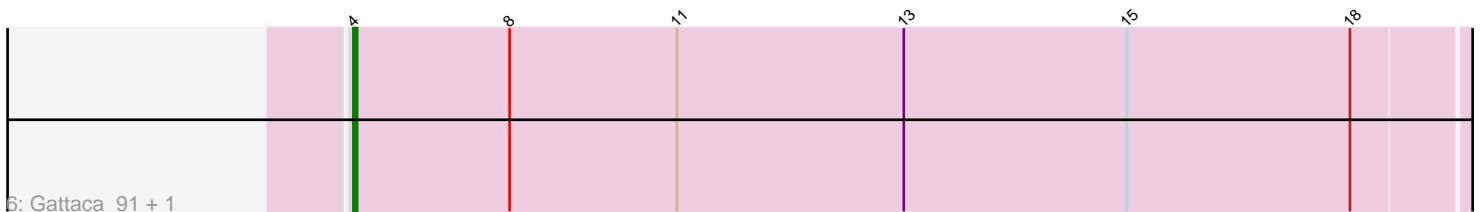
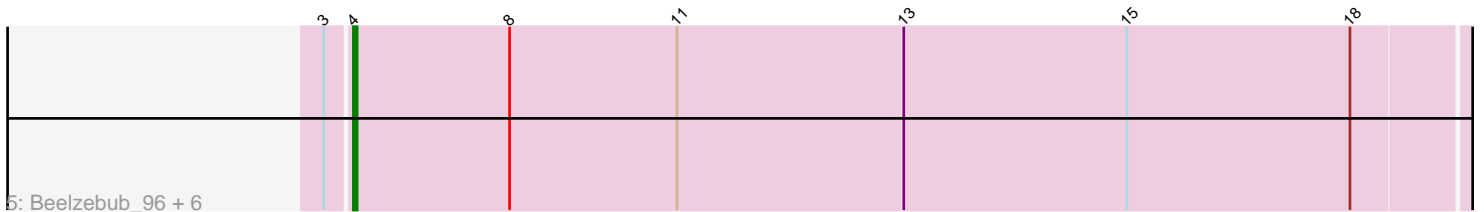
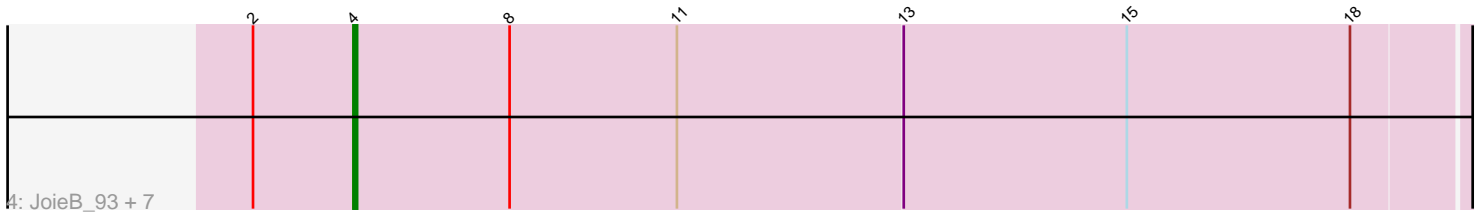
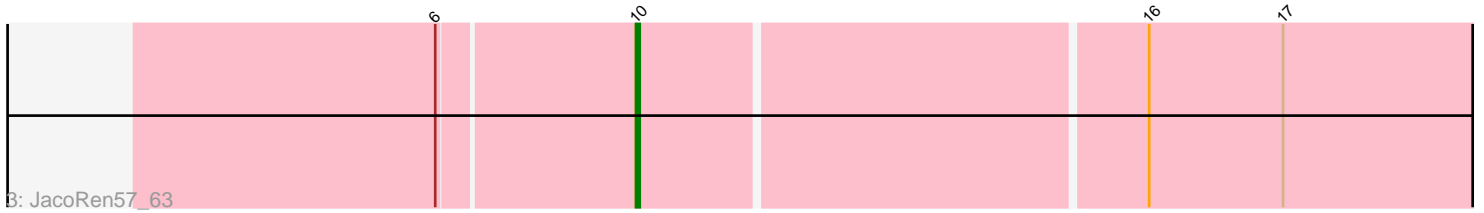
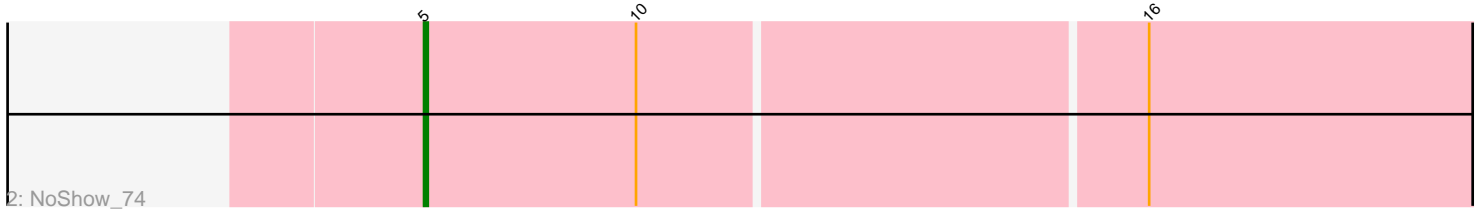
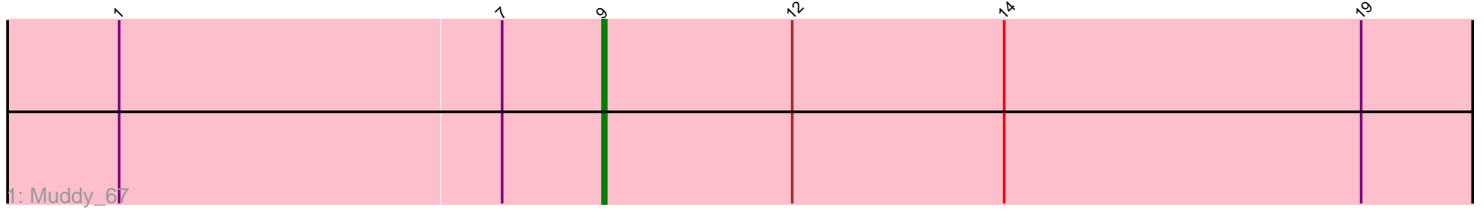


Pham 171752



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 171752 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171752 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Muddy_67
- Track 2 : NoShow_74
- Track 3 : JacoRen57_63
- Track 4 : JoieB_93, Poise_93, Raela_94, Caprice_85, Blackbeetle_93, VasuNzinga_90, RedRaider77_92, Tesla_88
- Track 5 : Beelzebub_96, Corazon_87, Marvin_86, Clarkson_93, Huphlebuff_94, Pringar_88, Lilbit_90
- Track 6 : Gattaca_91, MosMoris_88
- Track 7 : FeliMaine_88, LittleLaf_90

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

The start number called the most often in the published annotations is 4, it was called in 15 of the 19 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, Huphlebuff_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:

- JacoRen57_63, Muddy_67, NoShow_74,

Summary by start number:

Start 4:

- Found in 19 of 22 (86.4%) of genes in pham
- Manual Annotations of this start: 15 of 19
- 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), Huphlebuff_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 5:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_74 (AB),

Start 8:

- Found in 19 of 22 (86.4%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 10.5% of time when present
- Phage (with cluster) where this start called: FeliMaine_88 (S), LittleLaf_90 (S),

Start 9:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Muddy_67 (AB),

Start 10:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_63 (AB),

Summary by clusters:

There are 2 clusters represented in this pham: S, AB,

Info for manual annotations of cluster AB:

- Start number 5 was manually annotated 1 time for cluster AB.
- Start number 9 was manually annotated 1 time for cluster AB.
- Start number 10 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster S:

- Start number 4 was manually annotated 15 times for cluster S.
- Start number 8 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Beelzebub_96 Start: 49193, Stop: 49519, Start Num: 4

Candidate Starts for Beelzebub_96:

(3, 49187), (Start: 4 @49193 has 15 MA's), (Start: 8 @49235 has 1 MA's), (11, 49280), (13, 49340), (15, 49400), (18, 49460),

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

Candidate Starts for Blackbeetle_93:

(2, 48664), (Start: 4 @48691 has 15 MA's), (Start: 8 @48733 has 1 MA's), (11, 48778), (13, 48838), (15, 48898), (18, 48958),

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

Candidate Starts for Caprice_85:

(2, 48602), (Start: 4 @48629 has 15 MA's), (Start: 8 @48671 has 1 MA's), (11, 48716), (13, 48776), (15, 48836), (18, 48896),

Gene: Clarkson_93 Start: 48873, Stop: 49199, Start Num: 4

Candidate Starts for Clarkson_93:

(3, 48867), (Start: 4 @48873 has 15 MA's), (Start: 8 @48915 has 1 MA's), (11, 48960), (13, 49020), (15, 49080), (18, 49140),

Gene: Corazon_87 Start: 49067, Stop: 49393, Start Num: 4

Candidate Starts for Corazon_87:

(3, 49061), (Start: 4 @49067 has 15 MA's), (Start: 8 @49109 has 1 MA's), (11, 49154), (13, 49214), (15, 49274), (18, 49334),

Gene: FeliMaine_88 Start: 49157, Stop: 49441, Start Num: 8

Candidate Starts for FeliMaine_88:

(3, 49109), (Start: 4 @49115 has 15 MA's), (Start: 8 @49157 has 1 MA's), (11, 49202), (13, 49262), (15, 49322), (18, 49382),

Gene: Gattaca_91 Start: 49103, Stop: 49429, Start Num: 4

Candidate Starts for Gattaca_91:

(Start: 4 @49103 has 15 MA's), (Start: 8 @49145 has 1 MA's), (11, 49190), (13, 49250), (15, 49310), (18, 49370),

Gene: Huphlebuff_94 Start: 48678, Stop: 49004, Start Num: 4

Candidate Starts for Huphlebuff_94:

(3, 48672), (Start: 4 @48678 has 15 MA's), (Start: 8 @48720 has 1 MA's), (11, 48765), (13, 48825), (15, 48885), (18, 48945),

Gene: JacoRen57_63 Start: 47251, Stop: 47520, Start Num: 10

Candidate Starts for JacoRen57_63:

(6, 47200), (Start: 10 @47251 has 1 MA's), (16, 47383), (17, 47419),

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

Candidate Starts for JoieB_93:

(2, 49251), (Start: 4 @49278 has 15 MA's), (Start: 8 @49320 has 1 MA's), (11, 49365), (13, 49425), (15, 49485), (18, 49545),

Gene: Lilbit_90 Start: 49238, Stop: 49564, Start Num: 4

Candidate Starts for Lilbit_90:

(3, 49232), (Start: 4 @49238 has 15 MA's), (Start: 8 @49280 has 1 MA's), (11, 49325), (13, 49385), (15, 49445), (18, 49505),

Gene: LittleLaf_90 Start: 49009, Stop: 49293, Start Num: 8

Candidate Starts for LittleLaf_90:

(3, 48961), (Start: 4 @48967 has 15 MA's), (Start: 8 @49009 has 1 MA's), (11, 49054), (13, 49114), (15, 49174), (18, 49234),

Gene: Marvin_86 Start: 48763, Stop: 49089, Start Num: 4

Candidate Starts for Marvin_86:

(3, 48757), (Start: 4 @48763 has 15 MA's), (Start: 8 @48805 has 1 MA's), (11, 48850), (13, 48910), (15, 48970), (18, 49030),

Gene: MosMoris_88 Start: 49109, Stop: 49435, Start Num: 4

Candidate Starts for MosMoris_88:

(Start: 4 @49109 has 15 MA's), (Start: 8 @49151 has 1 MA's), (11, 49196), (13, 49256), (15, 49316), (18, 49376),

Gene: Muddy_67 Start: 46594, Stop: 46866, Start Num: 9

Candidate Starts for Muddy_67:

(1, 46465), (7, 46567), (Start: 9 @46594 has 1 MA's), (12, 46645), (14, 46702), (19, 46798),

Gene: NoShow_74 Start: 49650, Stop: 49970, Start Num: 5

Candidate Starts for NoShow_74:

(Start: 5 @49650 has 1 MA's), (Start: 10 @49707 has 1 MA's), (16, 49839),

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

Candidate Starts for Poise_93:

(2, 48664), (Start: 4 @48691 has 15 MA's), (Start: 8 @48733 has 1 MA's), (11, 48778), (13, 48838), (15, 48898), (18, 48958),

Gene: Pringar_88 Start: 48479, Stop: 48805, Start Num: 4

Candidate Starts for Pringar_88:

(3, 48473), (Start: 4 @48479 has 15 MA's), (Start: 8 @48521 has 1 MA's), (11, 48566), (13, 48626), (15, 48686), (18, 48746),

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

Candidate Starts for Raela_94:

(2, 49215), (Start: 4 @49242 has 15 MA's), (Start: 8 @49284 has 1 MA's), (11, 49329), (13, 49389), (15, 49449), (18, 49509),

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

Candidate Starts for RedRaider77_92:

(2, 48609), (Start: 4 @48636 has 15 MA's), (Start: 8 @48678 has 1 MA's), (11, 48723), (13, 48783), (15, 48843), (18, 48903),

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

Candidate Starts for Tesla_88:

(2, 48458), (Start: 4 @48485 has 15 MA's), (Start: 8 @48527 has 1 MA's), (11, 48572), (13, 48632), (15, 48692), (18, 48752),

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

Candidate Starts for VasuNzinga_90:

(2, 48547), (Start: 4 @48574 has 15 MA's), (Start: 8 @48616 has 1 MA's), (11, 48661), (13, 48721), (15, 48781), (18, 48841),