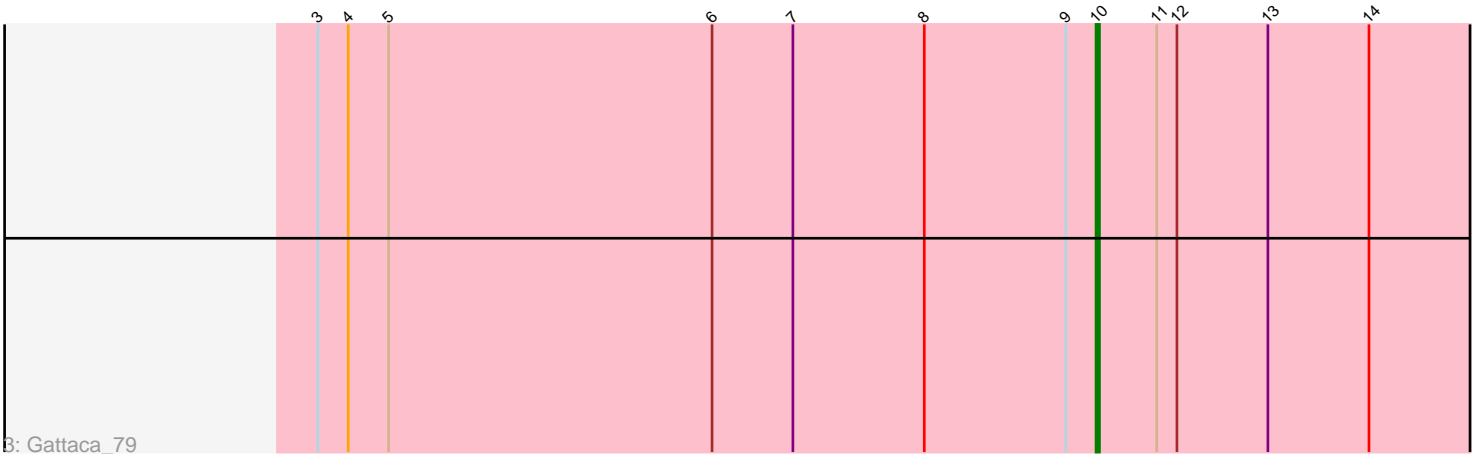
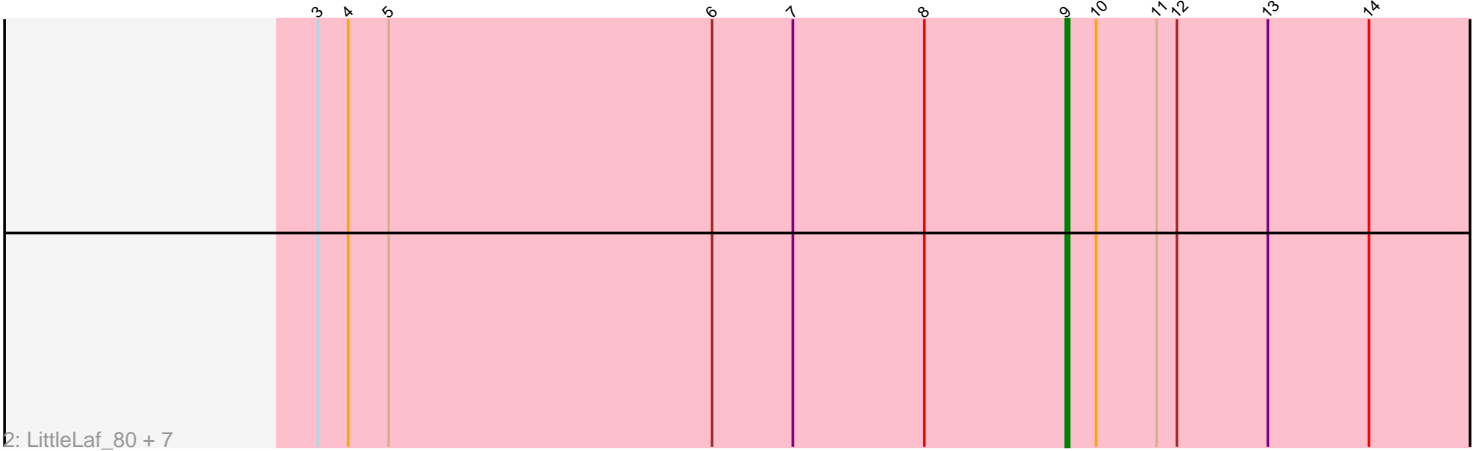
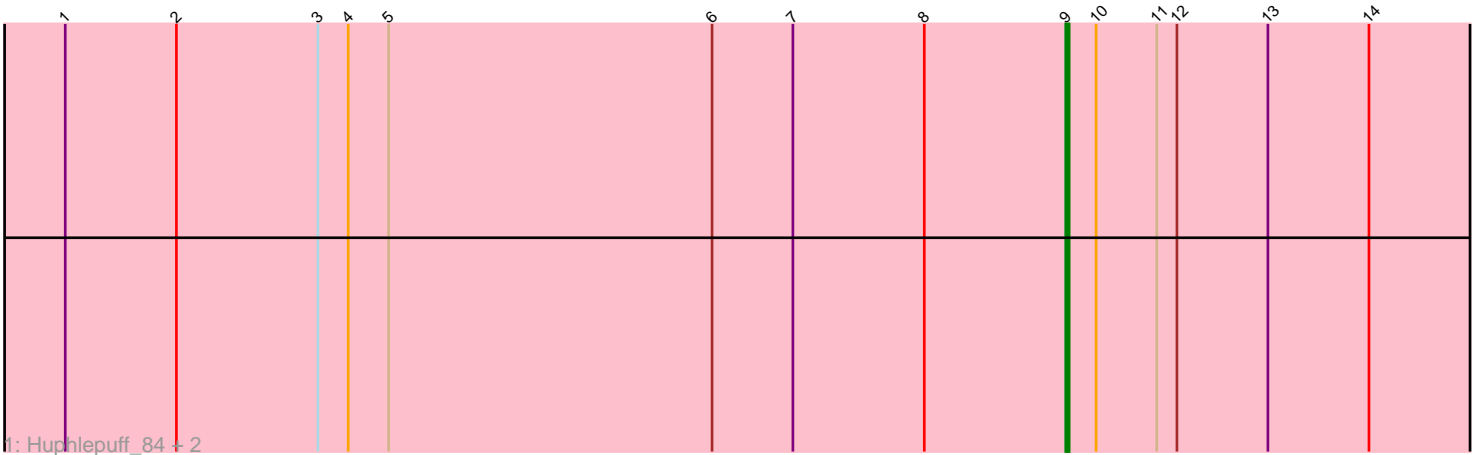


Pham 87254



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 87254 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87254 has 12 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Huphlebuff_84, Clarkson_83, Beelzebub_86
- Track 2 : LittleLaf_80, Blackbeetle_82, JoieB_82, RedRaider77_81, Caprice_74, Poise_82, Raela_83, Lilbit_80
- Track 3 : Gattaca_79

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

The start number called the most often in the published annotations is 9, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_86, Blackbeetle_82, Caprice_74, Clarkson_83, Huphlebuff_84, JoieB_82, Lilbit_80, LittleLaf_80, Poise_82, Raela_83, RedRaider77_81,

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

- Gattaca_79,

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

•

Summary by start number:

Start 9:

- Found in 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Beelzebub_86 (S), Blackbeetle_82 (S), Caprice_74 (S), Clarkson_83 (S), Huphlebuff_84 (S), JoieB_82 (S), Lilbit_80 (S), LittleLaf_80 (S), Poise_82 (S), Raela_83 (S), RedRaider77_81 (S),

Start 10:

- Found in 12 of 12 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 8.3% of time when present

- Phage (with cluster) where this start called: Gattaca_79 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 9 was manually annotated 9 times for cluster S.
- Start number 10 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Beelzebub_86 Start: 44630, Stop: 44785, Start Num: 9

Candidate Starts for Beelzebub_86:

(1, 44333), (2, 44366), (3, 44408), (4, 44417), (5, 44429), (6, 44525), (7, 44549), (8, 44588), (Start: 9 @44630 has 9 MA's), (Start: 10 @44639 has 1 MA's), (11, 44657), (12, 44663), (13, 44690), (14, 44720),

Gene: Blackbeetle_82 Start: 43991, Stop: 44146, Start Num: 9

Candidate Starts for Blackbeetle_82:

(3, 43769), (4, 43778), (5, 43790), (6, 43886), (7, 43910), (8, 43949), (Start: 9 @43991 has 9 MA's), (Start: 10 @44000 has 1 MA's), (11, 44018), (12, 44024), (13, 44051), (14, 44081),

Gene: Caprice_74 Start: 43929, Stop: 44084, Start Num: 9

Candidate Starts for Caprice_74:

(3, 43707), (4, 43716), (5, 43728), (6, 43824), (7, 43848), (8, 43887), (Start: 9 @43929 has 9 MA's), (Start: 10 @43938 has 1 MA's), (11, 43956), (12, 43962), (13, 43989), (14, 44019),

Gene: Clarkson_83 Start: 44310, Stop: 44465, Start Num: 9

Candidate Starts for Clarkson_83:

(1, 44013), (2, 44046), (3, 44088), (4, 44097), (5, 44109), (6, 44205), (7, 44229), (8, 44268), (Start: 9 @44310 has 9 MA's), (Start: 10 @44319 has 1 MA's), (11, 44337), (12, 44343), (13, 44370), (14, 44400),

Gene: Gattaca_79 Start: 44098, Stop: 44244, Start Num: 10

Candidate Starts for Gattaca_79:

(3, 43867), (4, 43876), (5, 43888), (6, 43984), (7, 44008), (8, 44047), (Start: 9 @44089 has 9 MA's), (Start: 10 @44098 has 1 MA's), (11, 44116), (12, 44122), (13, 44149), (14, 44179),

Gene: Huphlebuff_84 Start: 44115, Stop: 44270, Start Num: 9

Candidate Starts for Huphlebuff_84:

(1, 43818), (2, 43851), (3, 43893), (4, 43902), (5, 43914), (6, 44010), (7, 44034), (8, 44073), (Start: 9 @44115 has 9 MA's), (Start: 10 @44124 has 1 MA's), (11, 44142), (12, 44148), (13, 44175), (14, 44205),

Gene: JoieB_82 Start: 44578, Stop: 44733, Start Num: 9

Candidate Starts for JoieB_82:

(3, 44356), (4, 44365), (5, 44377), (6, 44473), (7, 44497), (8, 44536), (Start: 9 @44578 has 9 MA's), (Start: 10 @44587 has 1 MA's), (11, 44605), (12, 44611), (13, 44638), (14, 44668),

Gene: Lilbit_80 Start: 44675, Stop: 44830, Start Num: 9

Candidate Starts for Lilbit_80:

(3, 44453), (4, 44462), (5, 44474), (6, 44570), (7, 44594), (8, 44633), (Start: 9 @44675 has 9 MA's),
(Start: 10 @44684 has 1 MA's), (11, 44702), (12, 44708), (13, 44735), (14, 44765),

Gene: LittleLaf_80 Start: 44404, Stop: 44559, Start Num: 9

Candidate Starts for LittleLaf_80:

(3, 44182), (4, 44191), (5, 44203), (6, 44299), (7, 44323), (8, 44362), (Start: 9 @44404 has 9 MA's),
(Start: 10 @44413 has 1 MA's), (11, 44431), (12, 44437), (13, 44464), (14, 44494),

Gene: Poise_82 Start: 43991, Stop: 44146, Start Num: 9

Candidate Starts for Poise_82:

(3, 43769), (4, 43778), (5, 43790), (6, 43886), (7, 43910), (8, 43949), (Start: 9 @43991 has 9 MA's),
(Start: 10 @44000 has 1 MA's), (11, 44018), (12, 44024), (13, 44051), (14, 44081),

Gene: Raela_83 Start: 44542, Stop: 44697, Start Num: 9

Candidate Starts for Raela_83:

(3, 44320), (4, 44329), (5, 44341), (6, 44437), (7, 44461), (8, 44500), (Start: 9 @44542 has 9 MA's),
(Start: 10 @44551 has 1 MA's), (11, 44569), (12, 44575), (13, 44602), (14, 44632),

Gene: RedRaider77_81 Start: 43936, Stop: 44091, Start Num: 9

Candidate Starts for RedRaider77_81:

(3, 43714), (4, 43723), (5, 43735), (6, 43831), (7, 43855), (8, 43894), (Start: 9 @43936 has 9 MA's),
(Start: 10 @43945 has 1 MA's), (11, 43963), (12, 43969), (13, 43996), (14, 44026),