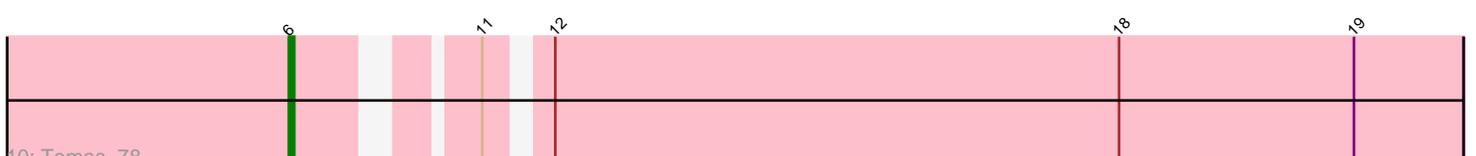
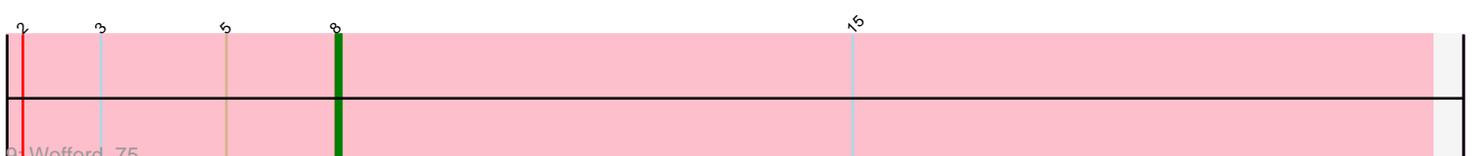
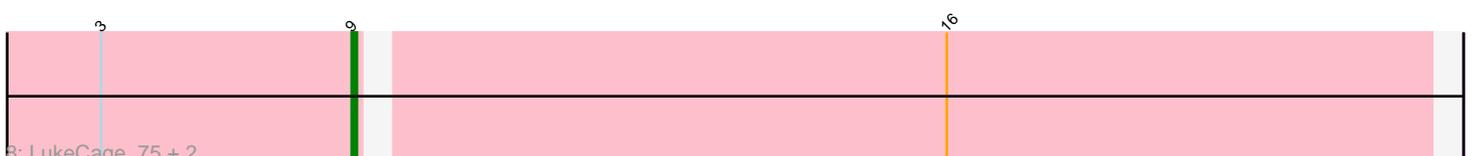
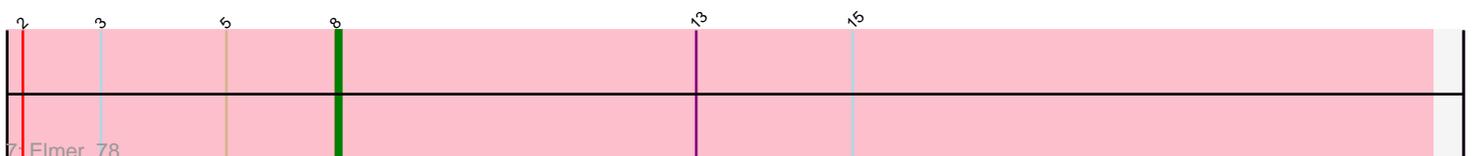
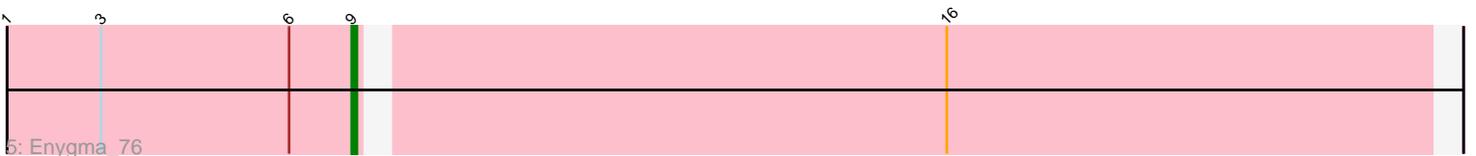
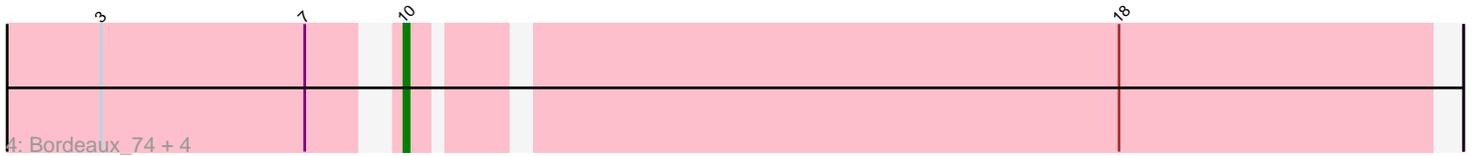
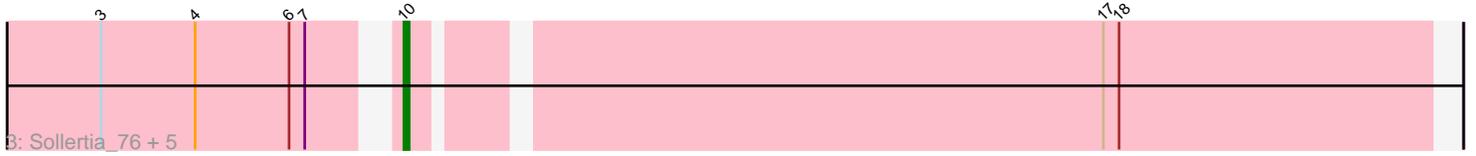
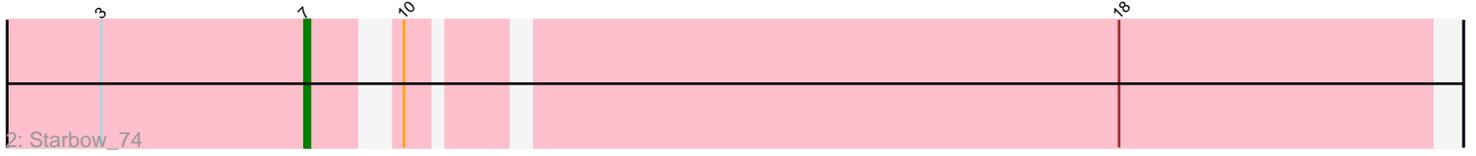
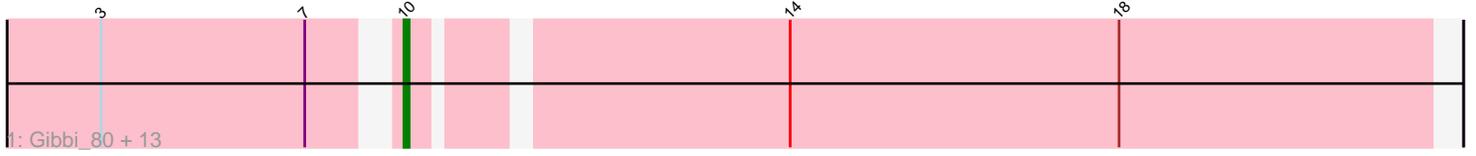


Pham 291352



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 291352 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291352 has 36 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Gibbi_80, PumpkinSpice_75, AcciDwight_80, JimJam_76, TomSawyer_74, CeilingFan_75, Birchlyn_73, Spelly_76, SaltySpitoon_76, Karimac_75, MindFlayer_74, Rikishi_76, Amabiko_76, Wipeout_74
- Track 2 : Starbow_74
- Track 3 : Sollertia_76, Stanimal_76, BoomerJR_76, Yaboi_76, AngryGiraffe_75, Genie2_76
- Track 4 : Bordeaux_74, Spilled_77, Battuta_74, IchabodCrane_73, Brizzy_75
- Track 5 : Enygma_76
- Track 6 : Quaran19_76, KentuckyRacer_76, Jollison_75
- Track 7 : Elmer_78
- Track 8 : LukeCage_75, StarPlatinum_76, Mugiwara_75
- Track 9 : Wofford_75
- Track 10 : Tomas_78

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

The start number called the most often in the published annotations is 10, it was called in 23 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_80, Amabiko_76, AngryGiraffe_75, Battuta_74, Birchlyn_73, BoomerJR_76, Bordeaux_74, Brizzy_75, CeilingFan_75, Genie2_76, Gibbi_80, IchabodCrane_73, JimJam_76, Karimac_75, MindFlayer_74, PumpkinSpice_75, Rikishi_76, SaltySpitoon_76, Sollertia_76, Spelly_76, Spilled_77, Stanimal_76, TomSawyer_74, Wipeout_74, Yaboi_76,

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

- Starbow_74,

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

- Elmer_78, Enygma_76, Jollison_75, KentuckyRacer_76, LukeCage_75, Mugiwara_75, Quaran19_76, StarPlatinum_76, Tomas_78, Wofford_75,

Summary by start number:

Start 6:

- Found in 8 of 36 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Tomas_78 (BE2),

Start 7:

- Found in 29 of 36 (80.6%) of genes in pham
- Manual Annotations of this start: 4 of 34
- Called 13.8% of time when present
- Phage (with cluster) where this start called: Jollison_75 (BE2), KentuckyRacer_76 (BE2), Quaran19_76 (BE2), Starbow_74 (BE2),

Start 8:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elmer_78 (BE2), Wofford_75 (BE2),

Start 9:

- Found in 4 of 36 (11.1%) of genes in pham
- Manual Annotations of this start: 4 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma_76 (BE2), LukeCage_75 (BE2), Mugiwara_75 (BE2), StarPlatinum_76 (BE2),

Start 10:

- Found in 26 of 36 (72.2%) of genes in pham
- Manual Annotations of this start: 23 of 34
- Called 96.2% of time when present
- Phage (with cluster) where this start called: AcciDwight_80 (BE2), Amabiko_76 (BE2), AngryGiraffe_75 (BE2), Battuta_74 (BE2), Birchlyn_73 (BE2), BoomerJR_76 (BE2), Bordeaux_74 (BE2), Brizzy_75 (BE2), CeilingFan_75 (BE2), Genie2_76 (BE2), Gibbi_80 (BE2), IchabodCrane_73 (BE2), JimJam_76 (BE2), Karimac_75 (BE2), MindFlayer_74 (BE2), PumpkinSpice_75 (BE2), Rikishi_76 (BE2), SaltySpittoon_76 (BE2), Sollertia_76 (BE2), Spelly_76 (BE2), Spilled_77 (BE2), Stanimal_76 (BE2), TomSawyer_74 (BE2), Wipeout_74 (BE2), Yaboi_76 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:

- Start number 6 was manually annotated 1 time for cluster BE2.
- Start number 7 was manually annotated 4 times for cluster BE2.
- Start number 8 was manually annotated 2 times for cluster BE2.
- Start number 9 was manually annotated 4 times for cluster BE2.
- Start number 10 was manually annotated 23 times for cluster BE2.

Gene Information:

Gene: AcciDwight_80 Start: 54382, Stop: 54570, Start Num: 10
Candidate Starts for AcciDwight_80:
(3, 54331), (Start: 7 @54370 has 4 MA's), (Start: 10 @54382 has 23 MA's), (14, 54448), (18, 54511),

Gene: Amabiko_76 Start: 54427, Stop: 54615, Start Num: 10
Candidate Starts for Amabiko_76:
(3, 54376), (Start: 7 @54415 has 4 MA's), (Start: 10 @54427 has 23 MA's), (14, 54493), (18, 54556),

Gene: AngryGiraffe_75 Start: 54378, Stop: 54566, Start Num: 10
Candidate Starts for AngryGiraffe_75:
(3, 54327), (4, 54345), (Start: 6 @54363 has 1 MA's), (Start: 7 @54366 has 4 MA's), (Start: 10 @54378 has 23 MA's), (17, 54504), (18, 54507),

Gene: Battuta_74 Start: 54401, Stop: 54589, Start Num: 10
Candidate Starts for Battuta_74:
(3, 54350), (Start: 7 @54389 has 4 MA's), (Start: 10 @54401 has 23 MA's), (18, 54530),

Gene: Birchlyn_73 Start: 52284, Stop: 52472, Start Num: 10
Candidate Starts for Birchlyn_73:
(3, 52233), (Start: 7 @52272 has 4 MA's), (Start: 10 @52284 has 23 MA's), (14, 52350), (18, 52413),

Gene: BoomerJR_76 Start: 54267, Stop: 54455, Start Num: 10
Candidate Starts for BoomerJR_76:
(3, 54216), (4, 54234), (Start: 6 @54252 has 1 MA's), (Start: 7 @54255 has 4 MA's), (Start: 10 @54267 has 23 MA's), (17, 54393), (18, 54396),

Gene: Bordeaux_74 Start: 54556, Stop: 54744, Start Num: 10
Candidate Starts for Bordeaux_74:
(3, 54505), (Start: 7 @54544 has 4 MA's), (Start: 10 @54556 has 23 MA's), (18, 54685),

Gene: Brizzy_75 Start: 54075, Stop: 54263, Start Num: 10
Candidate Starts for Brizzy_75:
(3, 54024), (Start: 7 @54063 has 4 MA's), (Start: 10 @54075 has 23 MA's), (18, 54204),

Gene: CeilingFan_75 Start: 54316, Stop: 54504, Start Num: 10
Candidate Starts for CeilingFan_75:
(3, 54265), (Start: 7 @54304 has 4 MA's), (Start: 10 @54316 has 23 MA's), (14, 54382), (18, 54445),

Gene: Elmer_78 Start: 55487, Stop: 55696, Start Num: 8
Candidate Starts for Elmer_78:
(2, 55427), (3, 55442), (5, 55466), (Start: 8 @55487 has 2 MA's), (13, 55556), (15, 55586),

Gene: Enygma_76 Start: 56198, Stop: 56398, Start Num: 9
Candidate Starts for Enygma_76:
(1, 56132), (3, 56150), (Start: 6 @56186 has 1 MA's), (Start: 9 @56198 has 4 MA's), (16, 56306),

Gene: Genie2_76 Start: 54381, Stop: 54569, Start Num: 10
Candidate Starts for Genie2_76:
(3, 54330), (4, 54348), (Start: 6 @54366 has 1 MA's), (Start: 7 @54369 has 4 MA's), (Start: 10 @54381 has 23 MA's), (17, 54507), (18, 54510),

Gene: Gibbi_80 Start: 54539, Stop: 54727, Start Num: 10
Candidate Starts for Gibbi_80:

(3, 54488), (Start: 7 @54527 has 4 MA's), (Start: 10 @54539 has 23 MA's), (14, 54605), (18, 54668),

Gene: IchabodCrane_73 Start: 54128, Stop: 54316, Start Num: 10

Candidate Starts for IchabodCrane_73:

(3, 54077), (Start: 7 @54116 has 4 MA's), (Start: 10 @54128 has 23 MA's), (18, 54257),

Gene: JimJam_76 Start: 54502, Stop: 54690, Start Num: 10

Candidate Starts for JimJam_76:

(3, 54451), (Start: 7 @54490 has 4 MA's), (Start: 10 @54502 has 23 MA's), (14, 54568), (18, 54631),

Gene: Jollison_75 Start: 54372, Stop: 54572, Start Num: 7

Candidate Starts for Jollison_75:

(3, 54333), (Start: 7 @54372 has 4 MA's), (14, 54450), (18, 54513),

Gene: Karimac_75 Start: 54533, Stop: 54721, Start Num: 10

Candidate Starts for Karimac_75:

(3, 54482), (Start: 7 @54521 has 4 MA's), (Start: 10 @54533 has 23 MA's), (14, 54599), (18, 54662),

Gene: KentuckyRacer_76 Start: 54305, Stop: 54505, Start Num: 7

Candidate Starts for KentuckyRacer_76:

(3, 54266), (Start: 7 @54305 has 4 MA's), (14, 54383), (18, 54446),

Gene: LukeCage_75 Start: 54284, Stop: 54484, Start Num: 9

Candidate Starts for LukeCage_75:

(3, 54236), (Start: 9 @54284 has 4 MA's), (16, 54392),

Gene: MindFlayer_74 Start: 54035, Stop: 54223, Start Num: 10

Candidate Starts for MindFlayer_74:

(3, 53984), (Start: 7 @54023 has 4 MA's), (Start: 10 @54035 has 23 MA's), (14, 54101), (18, 54164),

Gene: Mugiwara_75 Start: 54783, Stop: 54983, Start Num: 9

Candidate Starts for Mugiwara_75:

(3, 54735), (Start: 9 @54783 has 4 MA's), (16, 54891),

Gene: PumpkinSpice_75 Start: 54427, Stop: 54615, Start Num: 10

Candidate Starts for PumpkinSpice_75:

(3, 54376), (Start: 7 @54415 has 4 MA's), (Start: 10 @54427 has 23 MA's), (14, 54493), (18, 54556),

Gene: Quaran19_76 Start: 54406, Stop: 54606, Start Num: 7

Candidate Starts for Quaran19_76:

(3, 54367), (Start: 7 @54406 has 4 MA's), (14, 54484), (18, 54547),

Gene: Rikishi_76 Start: 54333, Stop: 54521, Start Num: 10

Candidate Starts for Rikishi_76:

(3, 54282), (Start: 7 @54321 has 4 MA's), (Start: 10 @54333 has 23 MA's), (14, 54399), (18, 54462),

Gene: SaltySpittoon_76 Start: 54427, Stop: 54615, Start Num: 10

Candidate Starts for SaltySpittoon_76:

(3, 54376), (Start: 7 @54415 has 4 MA's), (Start: 10 @54427 has 23 MA's), (14, 54493), (18, 54556),

Gene: Sollertia_76 Start: 54381, Stop: 54569, Start Num: 10

Candidate Starts for Sollertia_76:

(3, 54330), (4, 54348), (Start: 6 @54366 has 1 MA's), (Start: 7 @54369 has 4 MA's), (Start: 10 @54381 has 23 MA's), (17, 54507), (18, 54510),

Gene: Spelly_76 Start: 54382, Stop: 54570, Start Num: 10

Candidate Starts for Spelly_76:

(3, 54331), (Start: 7 @54370 has 4 MA's), (Start: 10 @54382 has 23 MA's), (14, 54448), (18, 54511),

Gene: Spilled_77 Start: 54499, Stop: 54687, Start Num: 10

Candidate Starts for Spilled_77:

(3, 54448), (Start: 7 @54487 has 4 MA's), (Start: 10 @54499 has 23 MA's), (18, 54628),

Gene: Stanimal_76 Start: 54270, Stop: 54458, Start Num: 10

Candidate Starts for Stanimal_76:

(3, 54219), (4, 54237), (Start: 6 @54255 has 1 MA's), (Start: 7 @54258 has 4 MA's), (Start: 10 @54270 has 23 MA's), (17, 54396), (18, 54399),

Gene: StarPlatinum_76 Start: 54924, Stop: 55124, Start Num: 9

Candidate Starts for StarPlatinum_76:

(3, 54876), (Start: 9 @54924 has 4 MA's), (16, 55032),

Gene: Starbow_74 Start: 54391, Stop: 54591, Start Num: 7

Candidate Starts for Starbow_74:

(3, 54352), (Start: 7 @54391 has 4 MA's), (Start: 10 @54403 has 23 MA's), (18, 54532),

Gene: TomSawyer_74 Start: 54021, Stop: 54209, Start Num: 10

Candidate Starts for TomSawyer_74:

(3, 53970), (Start: 7 @54009 has 4 MA's), (Start: 10 @54021 has 23 MA's), (14, 54087), (18, 54150),

Gene: Tomas_78 Start: 56737, Stop: 56946, Start Num: 6

Candidate Starts for Tomas_78:

(Start: 6 @56737 has 1 MA's), (11, 56764), (12, 56773), (18, 56881), (19, 56926),

Gene: Wipeout_74 Start: 54772, Stop: 54960, Start Num: 10

Candidate Starts for Wipeout_74:

(3, 54721), (Start: 7 @54760 has 4 MA's), (Start: 10 @54772 has 23 MA's), (14, 54838), (18, 54901),

Gene: Wofford_75 Start: 55450, Stop: 55659, Start Num: 8

Candidate Starts for Wofford_75:

(2, 55390), (3, 55405), (5, 55429), (Start: 8 @55450 has 2 MA's), (15, 55549),

Gene: Yaboi_76 Start: 54358, Stop: 54546, Start Num: 10

Candidate Starts for Yaboi_76:

(3, 54307), (4, 54325), (Start: 6 @54343 has 1 MA's), (Start: 7 @54346 has 4 MA's), (Start: 10 @54358 has 23 MA's), (17, 54484), (18, 54487),