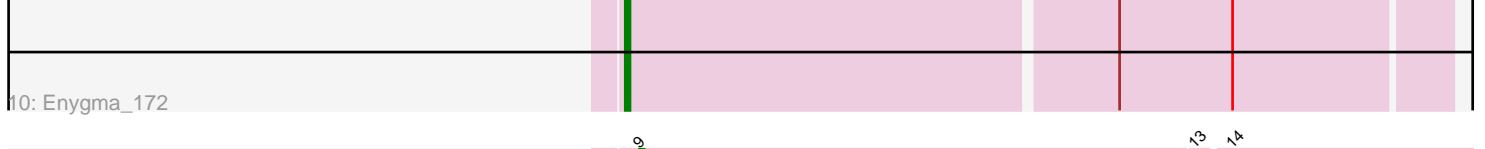
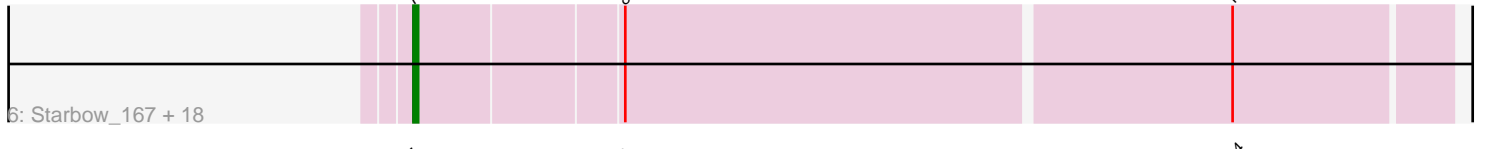
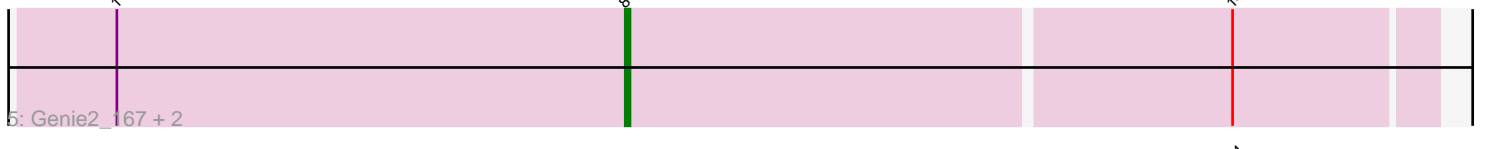
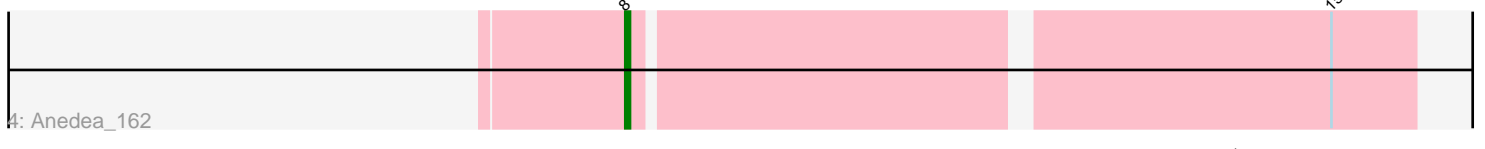
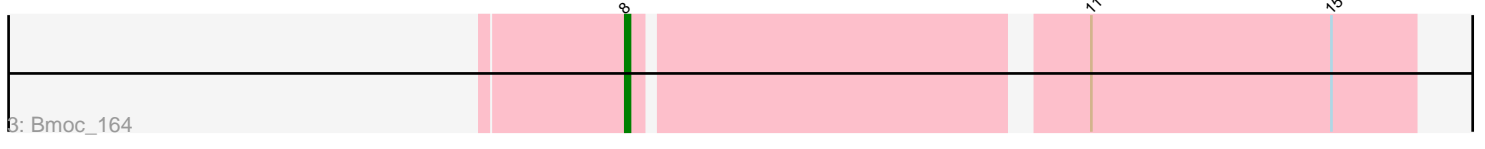
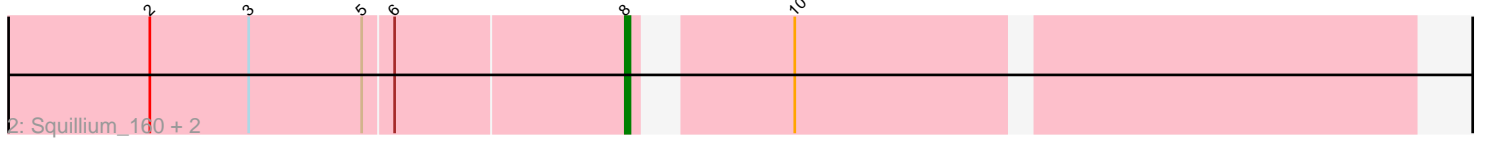
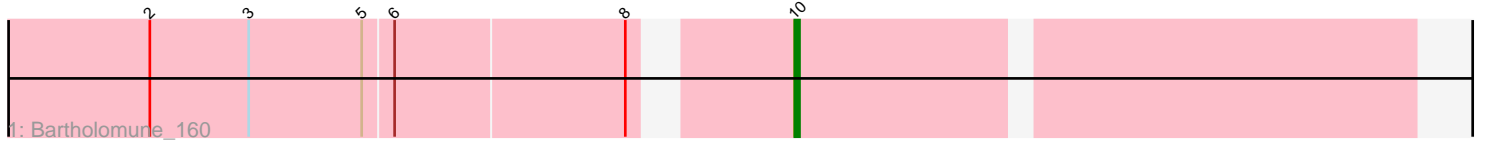


Pham 171618



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 171618 Report

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

Pham number 171618 has 38 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Bartholomune_160
- Track 2 : Squillium_160, Liandry_160, PinkiePie_157
- Track 3 : Bmoc_164
- Track 4 : Anedea_162
- Track 5 : Genie2_167, BoomerJR_167, Sollertia_167
- Track 6 : Starbow_167, Karimac_169, Wofford_166, Jollison_175, KentuckyRacer_179, Birchlyn_169, IchabodCrane_165, TomSawyer_174, Amabiko_172, CeilingFan_179, Elmer_183, Battuta_169, Gibbi_178, SaltySpitoon_170, MindFlayer_165, LukeCage_169, Quaran19_170, Spilled_175, PumpkinSpice_172
- Track 7 : Mugiwara_176, Bordeaux_168
- Track 8 : StarPlatinum_176, JimJam_176, Spelly_173
- Track 9 : Yaboi_169, Stanimal_166
- Track 10 : Enygma_172
- Track 11 : Muntaha_124, Wakanda_122

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

The start number called the most often in the published annotations is 8, it was called in 15 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea_162, Bmoc_164, BoomerJR_167, Bordeaux_168, Enygma_172, Genie2_167, JimJam_176, Liandry_160, Mugiwara_176, PinkiePie_157, Sollertia_167, Spelly_173, Squillium_160, Stanimal_166, StarPlatinum_176, Yaboi_169,

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

- Amabiko_172, Bartholomune_160, Battuta_169, Birchlyn_169, CeilingFan_179, Elmer_183, Gibbi_178, IchabodCrane_165, Jollison_175, Karimac_169, KentuckyRacer_179, LukeCage_169, MindFlayer_165, PumpkinSpice_172, Quaran19_170, SaltySpitoon_170, Spilled_175, Starbow_167, TomSawyer_174, Wofford_166,

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

- Muntaha_124, Wakanda_122,

Summary by start number:

Start 7:

- Found in 21 of 38 (55.3%) of genes in pham
- Manual Annotations of this start: 14 of 32
- Called 90.5% of time when present
- Phage (with cluster) where this start called: Amabiko_172 (BE2), Battuta_169 (BE2), Birchlyn_169 (BE2), CeilingFan_179 (BE2), Elmer_183 (BE2), Gibbi_178 (BE2), IchabodCrane_165 (BE2), Jollison_175 (BE2), Karimac_169 (BE2), KentuckyRacer_179 (BE2), LukeCage_169 (BE2), MindFlayer_165 (BE2), PumpkinSpice_172 (BE2), Quaran19_170 (BE2), SaltySpittoon_170 (BE2), Spilled_175 (BE2), Starbow_167 (BE2), TomSawyer_174 (BE2), Wofford_166 (BE2),

Start 8:

- Found in 36 of 38 (94.7%) of genes in pham
- Manual Annotations of this start: 15 of 32
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Anedea_162 (BE1), Bmoc_164 (BE1), BoomerJR_167 (BE2), Bordeaux_168 (BE2), Enygma_172 (BE2), Genie2_167 (BE2), JimJam_176 (BE2), Liandry_160 (BE1), Mugiwara_176 (BE2), PinkiePie_157 (BE1), Sollertia_167 (BE2), Spelly_173 (BE2), Squillium_160 (BE1), Stanimal_166 (BE2), StarPlatinum_176 (BE2), Yaboi_169 (BE2),

Start 9:

- Found in 2 of 38 (5.3%) of genes in pham
- Manual Annotations of this start: 2 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Muntaha_124 (BK2), Wakanda_122 (BK2),

Start 10:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Bartholomune_160 (BE1),

Summary by clusters:

There are 3 clusters represented in this pham: BE2, BE1, BK2,

Info for manual annotations of cluster BE1:

- Start number 8 was manually annotated 5 times for cluster BE1.
- Start number 10 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 7 was manually annotated 14 times for cluster BE2.
- Start number 8 was manually annotated 10 times for cluster BE2.

Info for manual annotations of cluster BK2:

- Start number 9 was manually annotated 2 times for cluster BK2.

Gene Information:

Gene: Amabiko_172 Start: 92074, Stop: 92286, Start Num: 7

Candidate Starts for Amabiko_172:

(Start: 7 @92074 has 14 MA's), (Start: 8 @92116 has 15 MA's), (14, 92242),

Gene: Anedea_162 Start: 90647, Stop: 90805, Start Num: 8

Candidate Starts for Anedea_162:

(Start: 8 @90647 has 15 MA's), (15, 90788),

Gene: Bartholomune_160 Start: 90858, Stop: 90983, Start Num: 10

Candidate Starts for Bartholomune_160:

(2, 90732), (3, 90753), (5, 90777), (6, 90783), (Start: 8 @90831 has 15 MA's), (Start: 10 @90858 has 1 MA's),

Gene: Battuta_169 Start: 91856, Stop: 92068, Start Num: 7

Candidate Starts for Battuta_169:

(Start: 7 @91856 has 14 MA's), (Start: 8 @91898 has 15 MA's), (14, 92024),

Gene: Birchlyn_169 Start: 89713, Stop: 89925, Start Num: 7

Candidate Starts for Birchlyn_169:

(Start: 7 @89713 has 14 MA's), (Start: 8 @89755 has 15 MA's), (14, 89881),

Gene: Bmoc_164 Start: 91216, Stop: 91374, Start Num: 8

Candidate Starts for Bmoc_164:

(Start: 8 @91216 has 15 MA's), (11, 91306), (15, 91357),

Gene: BoomerJR_167 Start: 92190, Stop: 92357, Start Num: 8

Candidate Starts for BoomerJR_167:

(1, 92082), (Start: 8 @92190 has 15 MA's), (14, 92316),

Gene: Bordeaux_168 Start: 92405, Stop: 92575, Start Num: 8

Candidate Starts for Bordeaux_168:

(Start: 7 @92363 has 14 MA's), (Start: 8 @92405 has 15 MA's), (14, 92531),

Gene: CeilingFan_179 Start: 92597, Stop: 92809, Start Num: 7

Candidate Starts for CeilingFan_179:

(Start: 7 @92597 has 14 MA's), (Start: 8 @92639 has 15 MA's), (14, 92765),

Gene: Elmer_183 Start: 95654, Stop: 95866, Start Num: 7

Candidate Starts for Elmer_183:

(Start: 7 @95654 has 14 MA's), (Start: 8 @95696 has 15 MA's), (14, 95822),

Gene: Enygma_172 Start: 94770, Stop: 94940, Start Num: 8

Candidate Starts for Enygma_172:

(Start: 8 @94770 has 15 MA's), (12, 94872), (14, 94896),

Gene: Genie2_167 Start: 92304, Stop: 92471, Start Num: 8

Candidate Starts for Genie2_167:

(1, 92196), (Start: 8 @92304 has 15 MA's), (14, 92430),

Gene: Gibbi_178 Start: 92651, Stop: 92863, Start Num: 7
Candidate Starts for Gibbi_178:
(Start: 7 @92651 has 14 MA's), (Start: 8 @92693 has 15 MA's), (14, 92819),

Gene: IchabodCrane_165 Start: 91775, Stop: 91987, Start Num: 7
Candidate Starts for IchabodCrane_165:
(Start: 7 @91775 has 14 MA's), (Start: 8 @91817 has 15 MA's), (14, 91943),

Gene: JimJam_176 Start: 93738, Stop: 93908, Start Num: 8
Candidate Starts for JimJam_176:
(4, 93678), (5, 93684), (Start: 8 @93738 has 15 MA's), (14, 93864),

Gene: Jollison_175 Start: 92297, Stop: 92509, Start Num: 7
Candidate Starts for Jollison_175:
(Start: 7 @92297 has 14 MA's), (Start: 8 @92339 has 15 MA's), (14, 92465),

Gene: Karimac_169 Start: 92320, Stop: 92532, Start Num: 7
Candidate Starts for Karimac_169:
(Start: 7 @92320 has 14 MA's), (Start: 8 @92362 has 15 MA's), (14, 92488),

Gene: KentuckyRacer_179 Start: 93442, Stop: 93654, Start Num: 7
Candidate Starts for KentuckyRacer_179:
(Start: 7 @93442 has 14 MA's), (Start: 8 @93484 has 15 MA's), (14, 93610),

Gene: Liandry_160 Start: 91574, Stop: 91726, Start Num: 8
Candidate Starts for Liandry_160:
(2, 91475), (3, 91496), (5, 91520), (6, 91526), (Start: 8 @91574 has 15 MA's), (Start: 10 @91601 has 1 MA's),

Gene: LukeCage_169 Start: 93330, Stop: 93542, Start Num: 7
Candidate Starts for LukeCage_169:
(Start: 7 @93330 has 14 MA's), (Start: 8 @93372 has 15 MA's), (14, 93498),

Gene: MindFlayer_165 Start: 91682, Stop: 91894, Start Num: 7
Candidate Starts for MindFlayer_165:
(Start: 7 @91682 has 14 MA's), (Start: 8 @91724 has 15 MA's), (14, 91850),

Gene: Mugiwara_176 Start: 93003, Stop: 93173, Start Num: 8
Candidate Starts for Mugiwara_176:
(Start: 7 @92961 has 14 MA's), (Start: 8 @93003 has 15 MA's), (14, 93129),

Gene: Muntaha_124 Start: 73558, Stop: 73734, Start Num: 9
Candidate Starts for Muntaha_124:
(Start: 9 @73558 has 2 MA's), (13, 73675), (14, 73681),

Gene: PinkiePie_157 Start: 91574, Stop: 91726, Start Num: 8
Candidate Starts for PinkiePie_157:
(2, 91475), (3, 91496), (5, 91520), (6, 91526), (Start: 8 @91574 has 15 MA's), (Start: 10 @91601 has 1 MA's),

Gene: PumpkinSpice_172 Start: 92903, Stop: 93115, Start Num: 7
Candidate Starts for PumpkinSpice_172:

(Start: 7 @92903 has 14 MA's), (Start: 8 @92945 has 15 MA's), (14, 93071),

Gene: Quaran19_170 Start: 92342, Stop: 92554, Start Num: 7

Candidate Starts for Quaran19_170:

(Start: 7 @92342 has 14 MA's), (Start: 8 @92384 has 15 MA's), (14, 92510),

Gene: SaltySpittoon_170 Start: 91886, Stop: 92098, Start Num: 7

Candidate Starts for SaltySpittoon_170:

(Start: 7 @91886 has 14 MA's), (Start: 8 @91928 has 15 MA's), (14, 92054),

Gene: Sollertia_167 Start: 92304, Stop: 92471, Start Num: 8

Candidate Starts for Sollertia_167:

(1, 92196), (Start: 8 @92304 has 15 MA's), (14, 92430),

Gene: Spelly_173 Start: 91857, Stop: 92027, Start Num: 8

Candidate Starts for Spelly_173:

(4, 91797), (5, 91803), (Start: 8 @91857 has 15 MA's), (14, 91983),

Gene: Spilled_175 Start: 92628, Stop: 92840, Start Num: 7

Candidate Starts for Spilled_175:

(Start: 7 @92628 has 14 MA's), (Start: 8 @92670 has 15 MA's), (14, 92796),

Gene: Squillium_160 Start: 91576, Stop: 91728, Start Num: 8

Candidate Starts for Squillium_160:

(2, 91477), (3, 91498), (5, 91522), (6, 91528), (Start: 8 @91576 has 15 MA's), (Start: 10 @91603 has 1 MA's),

Gene: Stanimal_166 Start: 92663, Stop: 92833, Start Num: 8

Candidate Starts for Stanimal_166:

(Start: 8 @92663 has 15 MA's), (11, 92759), (12, 92765), (14, 92789),

Gene: StarPlatinum_176 Start: 94401, Stop: 94571, Start Num: 8

Candidate Starts for StarPlatinum_176:

(4, 94341), (5, 94347), (Start: 8 @94401 has 15 MA's), (14, 94527),

Gene: Starbow_167 Start: 91859, Stop: 92071, Start Num: 7

Candidate Starts for Starbow_167:

(Start: 7 @91859 has 14 MA's), (Start: 8 @91901 has 15 MA's), (14, 92027),

Gene: TomSawyer_174 Start: 93547, Stop: 93759, Start Num: 7

Candidate Starts for TomSawyer_174:

(Start: 7 @93547 has 14 MA's), (Start: 8 @93589 has 15 MA's), (14, 93715),

Gene: Wakanda_122 Start: 73400, Stop: 73576, Start Num: 9

Candidate Starts for Wakanda_122:

(Start: 9 @73400 has 2 MA's), (13, 73517), (14, 73523),

Gene: Wofford_166 Start: 94815, Stop: 95027, Start Num: 7

Candidate Starts for Wofford_166:

(Start: 7 @94815 has 14 MA's), (Start: 8 @94857 has 15 MA's), (14, 94983),

Gene: Yaboi_169 Start: 92237, Stop: 92407, Start Num: 8

Candidate Starts for Yaboi_169:

(Start: 8 @92237 has 15 MA's), (11, 92333), (12, 92339), (14, 92363),