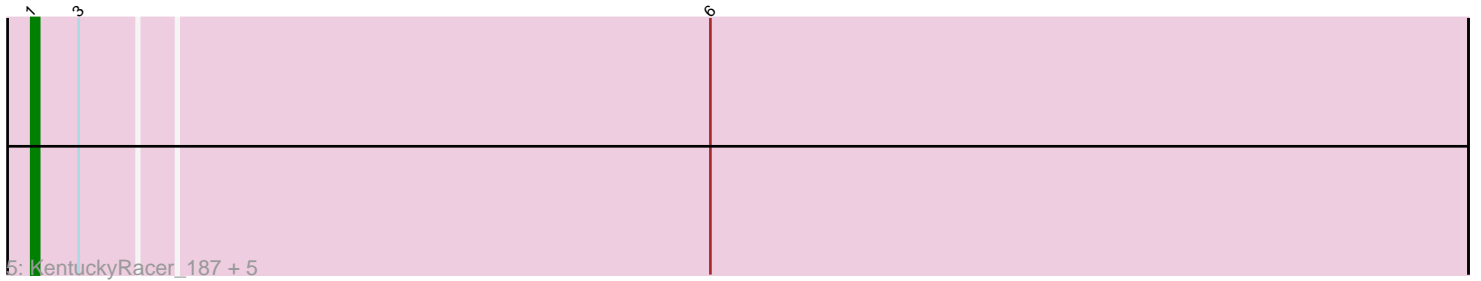
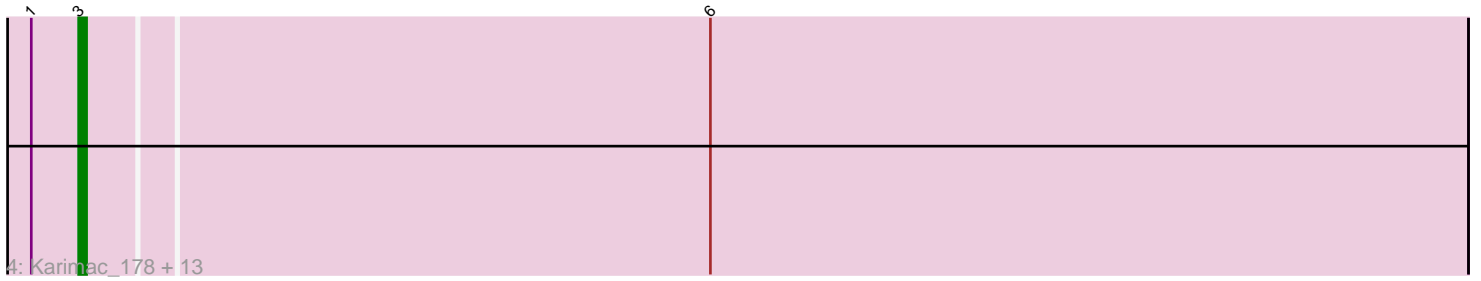
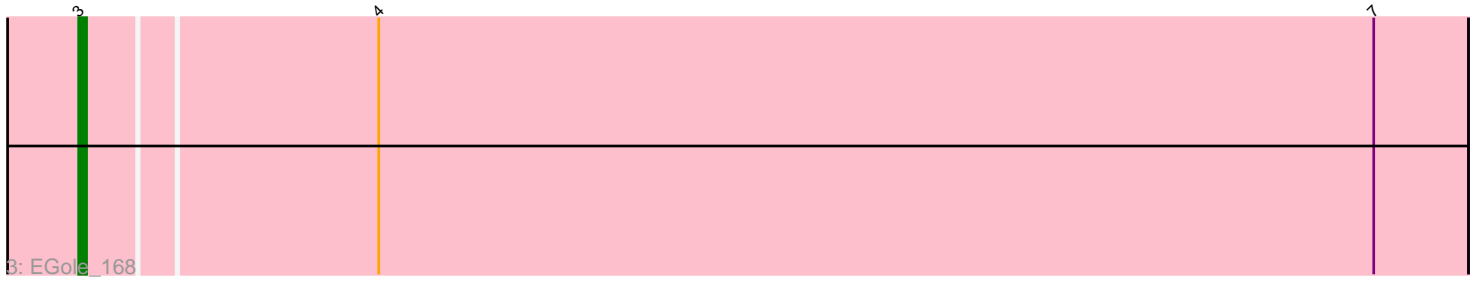
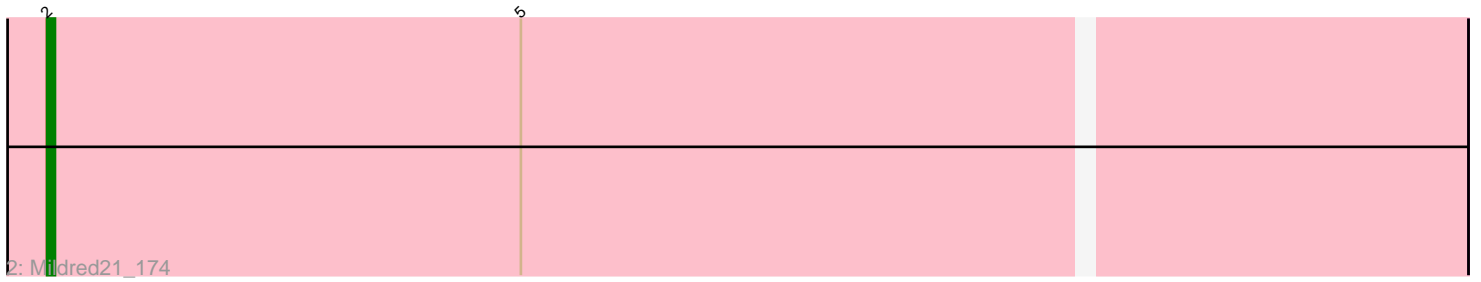
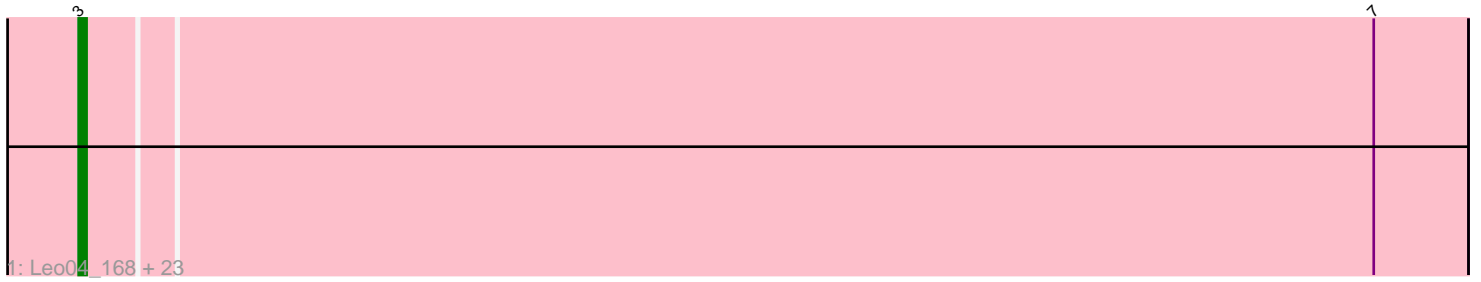


Pham 163695



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 163695 Report

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

Pham number 163695 has 46 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Leo04_168, NootNoot_162, Bartholomune_167, Persimmon_168, Cross_167, Lululemon_170, Peebs_164, Liandry_167, Larnav_176, WhereRU_172, Navo_170, Sushi23_166, Squillium_168, Samisti12_168, Watermoore_166, Teutsch_165, PacManQ_170, BlueOtter_170, Cursive_166, HangryHippo_170, Tribute_165, Pepperwood_166, PinkiePie_165, Braelyn_168
- Track 2 : Mildred21_174
- Track 3 : EGole_168
- Track 4 : Karimac_178, Battuta_177, Wipeout_171, Birchlyn_177, Amabiko_180, Spilled_183, Starbow_175, Gibbi_186, JimJam_184, Quaran19_178, Jollison_182, PumpkinSpice_180, Bordeaux_176, TomSawyer_182
- Track 5 : KentuckyRacer_187, MindFlayer_173, IchabodCrane_173, CeilingFan_187, Spelly_181, SaltySpittoon_178

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 30 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_180, Bartholomune_167, Battuta_177, Birchlyn_177, BlueOtter_170, Bordeaux_176, Braelyn_168, Cross_167, Cursive_166, EGole_168, Gibbi_186, HangryHippo_170, JimJam_184, Jollison_182, Karimac_178, Larnav_176, Leo04_168, Liandry_167, Lululemon_170, Navo_170, NootNoot_162, PacManQ_170, Peebs_164, Pepperwood_166, Persimmon_168, PinkiePie_165, PumpkinSpice_180, Quaran19_178, Samisti12_168, Spilled_183, Squillium_168, Starbow_175, Sushi23_166, Teutsch_165, TomSawyer_182, Tribute_165, Watermoore_166, WhereRU_172, Wipeout_171,

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

- CeilingFan_187, IchabodCrane_173, KentuckyRacer_187, MindFlayer_173, SaltySpittoon_178, Spelly_181,

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

- Mildred21_174,

Summary by start number:

Start 1:

- Found in 20 of 46 (43.5%) of genes in pham
- Manual Annotations of this start: 4 of 35
- Called 30.0% of time when present
- Phage (with cluster) where this start called: CeilingFan_187 (BE2), IchabodCrane_173 (BE2), KentuckyRacer_187 (BE2), MindFlayer_173 (BE2), SaltySpittoon_178 (BE2), Spelly_181 (BE2),

Start 2:

- Found in 1 of 46 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mildred21_174 (BE1),

Start 3:

- Found in 45 of 46 (97.8%) of genes in pham
- Manual Annotations of this start: 30 of 35
- Called 86.7% of time when present
- Phage (with cluster) where this start called: Amabiko_180 (BE2), Bartholomune_167 (BE1), Battuta_177 (BE2), Birchlyn_177 (BE2), BlueOtter_170 (BE1), Bordeaux_176 (BE2), Braelyn_168 (BE1), Cross_167 (BE1), Cursive_166 (BE1), EGole_168 (BE1), Gibbi_186 (BE2), HangryHippo_170 (BE1), JimJam_184 (BE2), Jollison_182 (BE2), Karimac_178 (BE2), Larnav_176 (BE1), Leo04_168 (BE1), Liandry_167 (BE1), Lululemon_170 (BE1), Navo_170 (BE1), NootNoot_162 (BE1), PacManQ_170 (BE1), Peebs_164 (BE1), Pepperwood_166 (BE1), Persimmon_168 (BE1), PinkiePie_165 (BE1), PumpkinSpice_180 (BE2), Quarant19_178 (BE2), Samisti12_168 (BE1), Spilled_183 (BE2), Squillium_168 (BE1), Starbow_175 (BE2), Sushi23_166 (BE1), Teutsch_165 (BE1), TomSawyer_182 (BE2), Tribute_165 (BE1), Watermoore_166 (BE1), WhereRU_172 (BE1), Wipeout_171 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 2 was manually annotated 1 time for cluster BE1.
- Start number 3 was manually annotated 18 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 1 was manually annotated 4 times for cluster BE2.
- Start number 3 was manually annotated 12 times for cluster BE2.

Gene Information:

Gene: Amabiko_180 Start: 94031, Stop: 94204, Start Num: 3

Candidate Starts for Amabiko_180:

(Start: 1 @94025 has 4 MA's), (Start: 3 @94031 has 30 MA's), (6, 94109),

Gene: Bartholomune_167 Start: 92676, Stop: 92849, Start Num: 3
Candidate Starts for Bartholomune_167:
(Start: 3 @92676 has 30 MA's), (7, 92838),

Gene: Battuta_177 Start: 93813, Stop: 93986, Start Num: 3
Candidate Starts for Battuta_177:
(Start: 1 @93807 has 4 MA's), (Start: 3 @93813 has 30 MA's), (6, 93891),

Gene: Birchlyn_177 Start: 91670, Stop: 91843, Start Num: 3
Candidate Starts for Birchlyn_177:
(Start: 1 @91664 has 4 MA's), (Start: 3 @91670 has 30 MA's), (6, 91748),

Gene: BlueOtter_170 Start: 94039, Stop: 94212, Start Num: 3
Candidate Starts for BlueOtter_170:
(Start: 3 @94039 has 30 MA's), (7, 94201),

Gene: Bordeaux_176 Start: 94320, Stop: 94493, Start Num: 3
Candidate Starts for Bordeaux_176:
(Start: 1 @94314 has 4 MA's), (Start: 3 @94320 has 30 MA's), (6, 94398),

Gene: Braelyn_168 Start: 93625, Stop: 93798, Start Num: 3
Candidate Starts for Braelyn_168:
(Start: 3 @93625 has 30 MA's), (7, 93787),

Gene: CeilingFan_187 Start: 94548, Stop: 94727, Start Num: 1
Candidate Starts for CeilingFan_187:
(Start: 1 @94548 has 4 MA's), (Start: 3 @94554 has 30 MA's), (6, 94632),

Gene: Cross_167 Start: 94684, Stop: 94857, Start Num: 3
Candidate Starts for Cross_167:
(Start: 3 @94684 has 30 MA's), (7, 94846),

Gene: Cursive_166 Start: 92893, Stop: 93066, Start Num: 3
Candidate Starts for Cursive_166:
(Start: 3 @92893 has 30 MA's), (7, 93055),

Gene: EGole_168 Start: 95701, Stop: 95874, Start Num: 3
Candidate Starts for EGole_168:
(Start: 3 @95701 has 30 MA's), (4, 95737), (7, 95863),

Gene: Gibbi_186 Start: 94608, Stop: 94781, Start Num: 3
Candidate Starts for Gibbi_186:
(Start: 1 @94602 has 4 MA's), (Start: 3 @94608 has 30 MA's), (6, 94686),

Gene: HangryHippo_170 Start: 94039, Stop: 94212, Start Num: 3
Candidate Starts for HangryHippo_170:
(Start: 3 @94039 has 30 MA's), (7, 94201),

Gene: IchabodCrane_173 Start: 93726, Stop: 93905, Start Num: 1
Candidate Starts for IchabodCrane_173:
(Start: 1 @93726 has 4 MA's), (Start: 3 @93732 has 30 MA's), (6, 93810),

Gene: JimJam_184 Start: 95653, Stop: 95826, Start Num: 3

Candidate Starts for JimJam_184:

(Start: 1 @95647 has 4 MA's), (Start: 3 @95653 has 30 MA's), (6, 95731),

Gene: Jollison_182 Start: 94254, Stop: 94427, Start Num: 3

Candidate Starts for Jollison_182:

(Start: 1 @94248 has 4 MA's), (Start: 3 @94254 has 30 MA's), (6, 94332),

Gene: Karimac_178 Start: 94449, Stop: 94622, Start Num: 3

Candidate Starts for Karimac_178:

(Start: 1 @94443 has 4 MA's), (Start: 3 @94449 has 30 MA's), (6, 94527),

Gene: KentuckyRacer_187 Start: 95393, Stop: 95572, Start Num: 1

Candidate Starts for KentuckyRacer_187:

(Start: 1 @95393 has 4 MA's), (Start: 3 @95399 has 30 MA's), (6, 95477),

Gene: Larnav_176 Start: 94658, Stop: 94831, Start Num: 3

Candidate Starts for Larnav_176:

(Start: 3 @94658 has 30 MA's), (7, 94820),

Gene: Leo04_168 Start: 94539, Stop: 94712, Start Num: 3

Candidate Starts for Leo04_168:

(Start: 3 @94539 has 30 MA's), (7, 94701),

Gene: Liandry_167 Start: 93419, Stop: 93592, Start Num: 3

Candidate Starts for Liandry_167:

(Start: 3 @93419 has 30 MA's), (7, 93581),

Gene: Lululemon_170 Start: 93420, Stop: 93593, Start Num: 3

Candidate Starts for Lululemon_170:

(Start: 3 @93420 has 30 MA's), (7, 93582),

Gene: Mildred21_174 Start: 92881, Stop: 93057, Start Num: 2

Candidate Starts for Mildred21_174:

(Start: 2 @92881 has 1 MA's), (5, 92941),

Gene: MindFlayer_173 Start: 93633, Stop: 93812, Start Num: 1

Candidate Starts for MindFlayer_173:

(Start: 1 @93633 has 4 MA's), (Start: 3 @93639 has 30 MA's), (6, 93717),

Gene: Navo_170 Start: 93006, Stop: 93179, Start Num: 3

Candidate Starts for Navo_170:

(Start: 3 @93006 has 30 MA's), (7, 93168),

Gene: NootNoot_162 Start: 92322, Stop: 92495, Start Num: 3

Candidate Starts for NootNoot_162:

(Start: 3 @92322 has 30 MA's), (7, 92484),

Gene: PacManQ_170 Start: 93420, Stop: 93593, Start Num: 3

Candidate Starts for PacManQ_170:

(Start: 3 @93420 has 30 MA's), (7, 93582),

Gene: Peebs_164 Start: 94361, Stop: 94534, Start Num: 3

Candidate Starts for Peebs_164:

(Start: 3 @94361 has 30 MA's), (7, 94523),

Gene: Pepperwood_166 Start: 94305, Stop: 94478, Start Num: 3

Candidate Starts for Pepperwood_166:

(Start: 3 @94305 has 30 MA's), (7, 94467),

Gene: Persimmon_168 Start: 92779, Stop: 92952, Start Num: 3

Candidate Starts for Persimmon_168:

(Start: 3 @92779 has 30 MA's), (7, 92941),

Gene: PinkiePie_165 Start: 93419, Stop: 93592, Start Num: 3

Candidate Starts for PinkiePie_165:

(Start: 3 @93419 has 30 MA's), (7, 93581),

Gene: PumpkinSpice_180 Start: 94860, Stop: 95033, Start Num: 3

Candidate Starts for PumpkinSpice_180:

(Start: 1 @94854 has 4 MA's), (Start: 3 @94860 has 30 MA's), (6, 94938),

Gene: Quaran19_178 Start: 94299, Stop: 94472, Start Num: 3

Candidate Starts for Quaran19_178:

(Start: 1 @94293 has 4 MA's), (Start: 3 @94299 has 30 MA's), (6, 94377),

Gene: SaltySpittoon_178 Start: 93837, Stop: 94016, Start Num: 1

Candidate Starts for SaltySpittoon_178:

(Start: 1 @93837 has 4 MA's), (Start: 3 @93843 has 30 MA's), (6, 93921),

Gene: Samisti12_168 Start: 95745, Stop: 95918, Start Num: 3

Candidate Starts for Samisti12_168:

(Start: 3 @95745 has 30 MA's), (7, 95907),

Gene: Spelly_181 Start: 93766, Stop: 93945, Start Num: 1

Candidate Starts for Spelly_181:

(Start: 1 @93766 has 4 MA's), (Start: 3 @93772 has 30 MA's), (6, 93850),

Gene: Spilled_183 Start: 94585, Stop: 94758, Start Num: 3

Candidate Starts for Spilled_183:

(Start: 1 @94579 has 4 MA's), (Start: 3 @94585 has 30 MA's), (6, 94663),

Gene: Squillum_168 Start: 93421, Stop: 93594, Start Num: 3

Candidate Starts for Squillum_168:

(Start: 3 @93421 has 30 MA's), (7, 93583),

Gene: Starbow_175 Start: 93816, Stop: 93989, Start Num: 3

Candidate Starts for Starbow_175:

(Start: 1 @93810 has 4 MA's), (Start: 3 @93816 has 30 MA's), (6, 93894),

Gene: Sushi23_166 Start: 94719, Stop: 94892, Start Num: 3

Candidate Starts for Sushi23_166:

(Start: 3 @94719 has 30 MA's), (7, 94881),

Gene: Teutsch_165 Start: 94843, Stop: 95016, Start Num: 3

Candidate Starts for Teutsch_165:

(Start: 3 @94843 has 30 MA's), (7, 95005),

Gene: TomSawyer_182 Start: 95504, Stop: 95677, Start Num: 3
Candidate Starts for TomSawyer_182:
(Start: 1 @95498 has 4 MA's), (Start: 3 @95504 has 30 MA's), (6, 95582),

Gene: Tribute_165 Start: 94860, Stop: 95033, Start Num: 3
Candidate Starts for Tribute_165:
(Start: 3 @94860 has 30 MA's), (7, 95022),

Gene: Watermoore_166 Start: 95255, Stop: 95428, Start Num: 3
Candidate Starts for Watermoore_166:
(Start: 3 @95255 has 30 MA's), (7, 95417),

Gene: WhereRU_172 Start: 93531, Stop: 93704, Start Num: 3
Candidate Starts for WhereRU_172:
(Start: 3 @93531 has 30 MA's), (7, 93693),

Gene: Wipeout_171 Start: 94848, Stop: 95021, Start Num: 3
Candidate Starts for Wipeout_171:
(Start: 1 @94842 has 4 MA's), (Start: 3 @94848 has 30 MA's), (6, 94926),