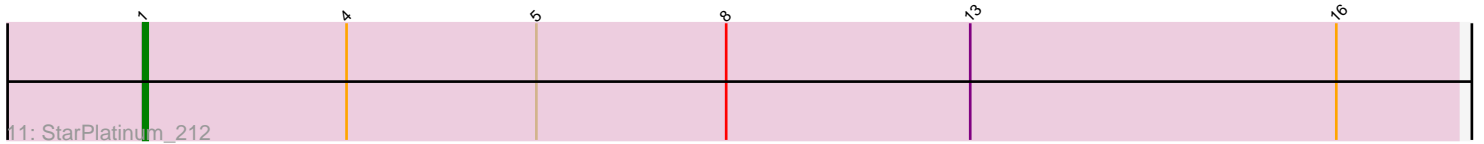
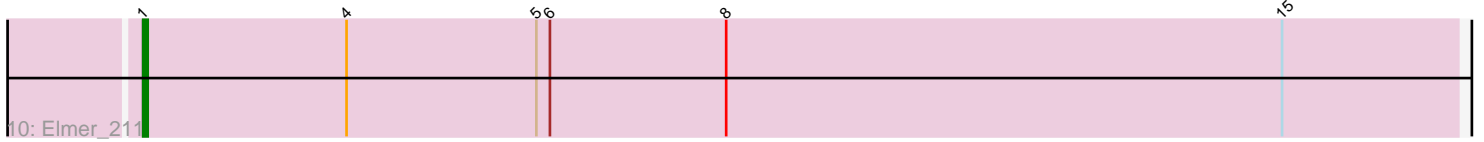
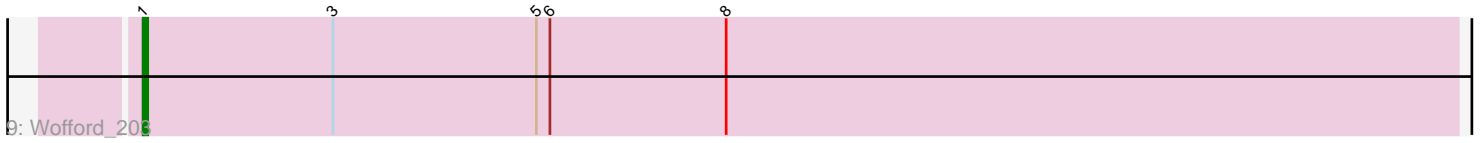
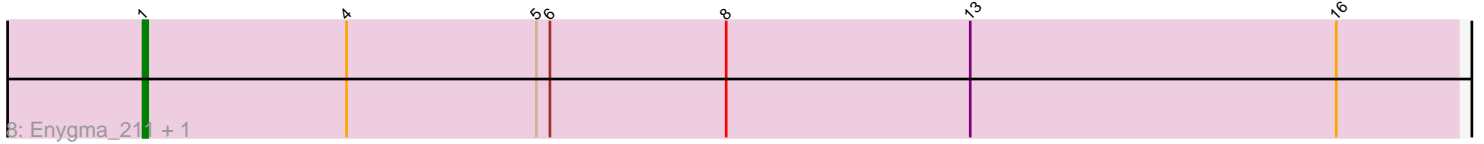
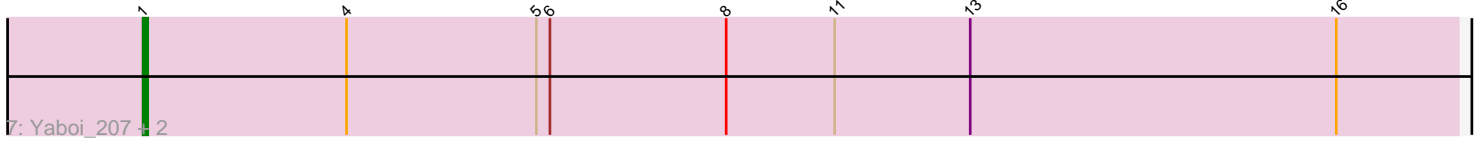
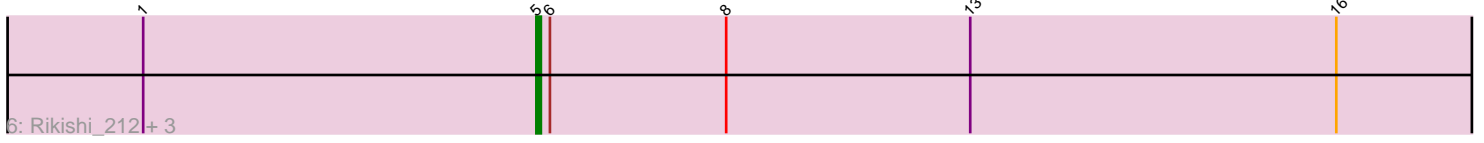
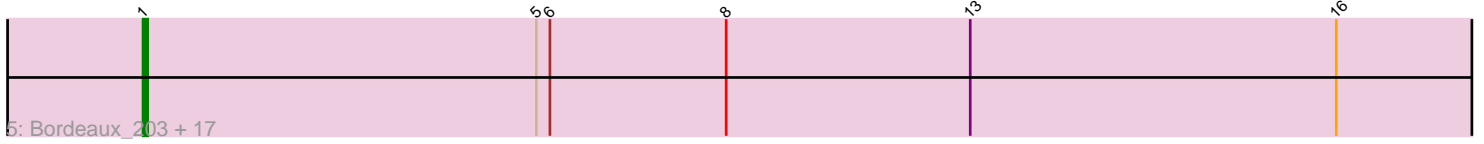
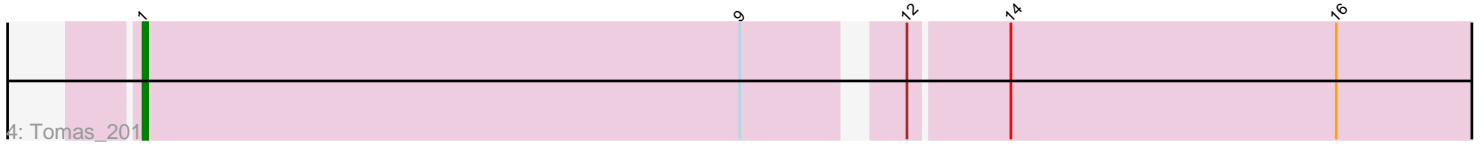
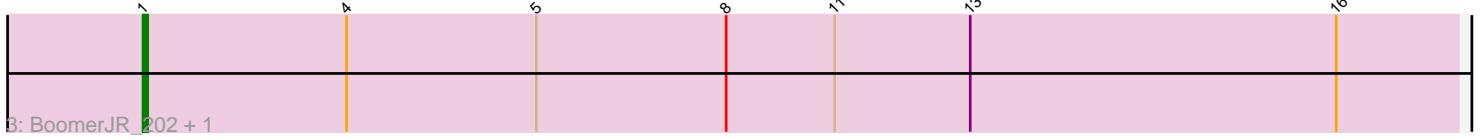
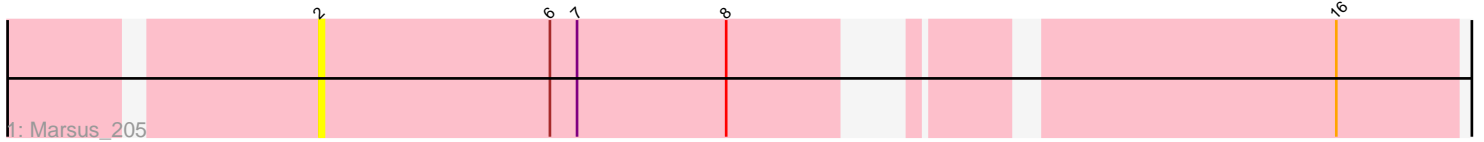


Pham 203123



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 203123 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203123 has 37 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Marsus_205
- Track 2 : LilMartin_194, Angela_196, MulchMansion_197
- Track 3 : BoomerJR_202, Stanimal_202
- Track 4 : Tomas_201
- Track 5 : Bordeaux_203, Birchlyn_203, Wipeout_196, Spilled_211, LukeCage_208, MindFlayer_198, Karimac_205, IchabodCrane_200, Amabiko_209, PumpkinSpice_207, TomSawyer_209, Quaran19_205, Battuta_202, Spelly_208, KentuckyRacer_211, Jollison_202, SaltySpittoon_204, JimJam_212
- Track 6 : Rikishi_212, CeilingFan_216, Gibbi_212, Starbow_202
- Track 7 : Yaboi_207, Sollertia_203, Genie2_202
- Track 8 : Enygma_211, Mugiwara_214
- Track 9 : Wofford_203
- Track 10 : Elmer_211
- Track 11 : StarPlatinum_212

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

The start number called the most often in the published annotations is 1, it was called in 28 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_209, Battuta_202, Birchlyn_203, BoomerJR_202, Bordeaux_203, Elmer_211, Enygma_211, Genie2_202, IchabodCrane_200, JimJam_212, Jollison_202, Karimac_205, KentuckyRacer_211, LukeCage_208, MindFlayer_198, Mugiwara_214, PumpkinSpice_207, Quaran19_205, SaltySpittoon_204, Sollertia_203, Spelly_208, Spilled_211, Stanimal_202, StarPlatinum_212, TomSawyer_209, Tomas_201, Wipeout_196, Wofford_203, Yaboi_207,

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

- CeilingFan_216, Gibbi_212, Rikishi_212, Starbow_202,

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

- Angela_196, LilMartin_194, Marsus_205, MulchMansion_197,

Summary by start number:

Start 1:

- Found in 33 of 37 (89.2%) of genes in pham
- Manual Annotations of this start: 28 of 32
- Called 87.9% of time when present
- Phage (with cluster) where this start called: Amabiko_209 (BE2), Battuta_202 (BE2), Birchlyn_203 (BE2), BoomerJR_202 (BE2), Bordeaux_203 (BE2), Elmer_211 (BE2), Enygma_211 (BE2), Genie2_202 (BE2), IchabodCrane_200 (BE2), JimJam_212 (BE2), Jollison_202 (BE2), Karimac_205 (BE2), KentuckyRacer_211 (BE2), LukeCage_208 (BE2), MindFlayer_198 (BE2), Mugiwara_214 (BE2), PumpkinSpice_207 (BE2), Quaran19_205 (BE2), SaltySpittoon_204 (BE2), Sollertia_203 (BE2), Spelly_208 (BE2), Spilled_211 (BE2), Stanimal_202 (BE2), StarPlatinum_212 (BE2), TomSawyer_209 (BE2), Tomas_201 (BE2), Wipeout_196 (BE2), Wofford_203 (BE2), Yaboi_207 (BE2),

Start 2:

- Found in 1 of 37 (2.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Marsus_205 (BE1),

Start 5:

- Found in 32 of 37 (86.5%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 12.5% of time when present
- Phage (with cluster) where this start called: CeilingFan_216 (BE2), Gibbi_212 (BE2), Rikishi_212 (BE2), Starbow_202 (BE2),

Start 6:

- Found in 33 of 37 (89.2%) of genes in pham
- Manual Annotations of this start: 3 of 32
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Angela_196 (BE1), LilMartin_194 (BE1), MulchMansion_197 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 6 was manually annotated 3 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 1 was manually annotated 28 times for cluster BE2.
- Start number 5 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Amabiko_209 Start: 102349, Stop: 102642, Start Num: 1

Candidate Starts for Amabiko_209:

(Start: 1 @102349 has 28 MA's), (Start: 5 @102436 has 1 MA's), (Start: 6 @102439 has 3 MA's), (8, 102478), (13, 102532), (16, 102613),

Gene: Angela_196 Start: 101597, Stop: 101773, Start Num: 6
Candidate Starts for Angela_196:
(Start: 6 @101597 has 3 MA's), (8, 101636), (10, 101654), (16, 101747),

Gene: Battuta_202 Start: 101665, Stop: 101958, Start Num: 1
Candidate Starts for Battuta_202:
(Start: 1 @101665 has 28 MA's), (Start: 5 @101752 has 1 MA's), (Start: 6 @101755 has 3 MA's), (8, 101794), (13, 101848), (16, 101929),

Gene: Birchlyn_203 Start: 99597, Stop: 99890, Start Num: 1
Candidate Starts for Birchlyn_203:
(Start: 1 @99597 has 28 MA's), (Start: 5 @99684 has 1 MA's), (Start: 6 @99687 has 3 MA's), (8, 99726), (13, 99780), (16, 99861),

Gene: BoomerJR_202 Start: 102249, Stop: 102539, Start Num: 1
Candidate Starts for BoomerJR_202:
(Start: 1 @102249 has 28 MA's), (4, 102294), (Start: 5 @102336 has 1 MA's), (8, 102378), (11, 102402), (13, 102432), (16, 102513),

Gene: Bordeaux_203 Start: 102248, Stop: 102541, Start Num: 1
Candidate Starts for Bordeaux_203:
(Start: 1 @102248 has 28 MA's), (Start: 5 @102335 has 1 MA's), (Start: 6 @102338 has 3 MA's), (8, 102377), (13, 102431), (16, 102512),

Gene: CeilingFan_216 Start: 103129, Stop: 103335, Start Num: 5
Candidate Starts for CeilingFan_216:
(Start: 1 @103042 has 28 MA's), (Start: 5 @103129 has 1 MA's), (Start: 6 @103132 has 3 MA's), (8, 103171), (13, 103225), (16, 103306),

Gene: Elmer_211 Start: 105350, Stop: 105640, Start Num: 1
Candidate Starts for Elmer_211:
(Start: 1 @105350 has 28 MA's), (4, 105395), (Start: 5 @105437 has 1 MA's), (Start: 6 @105440 has 3 MA's), (8, 105479), (15, 105602),

Gene: Enygma_211 Start: 105065, Stop: 105355, Start Num: 1
Candidate Starts for Enygma_211:
(Start: 1 @105065 has 28 MA's), (4, 105110), (Start: 5 @105152 has 1 MA's), (Start: 6 @105155 has 3 MA's), (8, 105194), (13, 105248), (16, 105329),

Gene: Genie2_202 Start: 102363, Stop: 102653, Start Num: 1
Candidate Starts for Genie2_202:
(Start: 1 @102363 has 28 MA's), (4, 102408), (Start: 5 @102450 has 1 MA's), (Start: 6 @102453 has 3 MA's), (8, 102492), (11, 102516), (13, 102546), (16, 102627),

Gene: Gibbi_212 Start: 102622, Stop: 102828, Start Num: 5
Candidate Starts for Gibbi_212:
(Start: 1 @102535 has 28 MA's), (Start: 5 @102622 has 1 MA's), (Start: 6 @102625 has 3 MA's), (8, 102664), (13, 102718), (16, 102799),

Gene: IchabodCrane_200 Start: 102050, Stop: 102343, Start Num: 1

Candidate Starts for IchabodCrane_200:

(Start: 1 @102050 has 28 MA's), (Start: 5 @102137 has 1 MA's), (Start: 6 @102140 has 3 MA's), (8, 102179), (13, 102233), (16, 102314),

Gene: JimJam_212 Start: 103971, Stop: 104264, Start Num: 1

Candidate Starts for JimJam_212:

(Start: 1 @103971 has 28 MA's), (Start: 5 @104058 has 1 MA's), (Start: 6 @104061 has 3 MA's), (8, 104100), (13, 104154), (16, 104235),

Gene: Jollison_202 Start: 102181, Stop: 102474, Start Num: 1

Candidate Starts for Jollison_202:

(Start: 1 @102181 has 28 MA's), (Start: 5 @102268 has 1 MA's), (Start: 6 @102271 has 3 MA's), (8, 102310), (13, 102364), (16, 102445),

Gene: Karimac_205 Start: 102375, Stop: 102668, Start Num: 1

Candidate Starts for Karimac_205:

(Start: 1 @102375 has 28 MA's), (Start: 5 @102462 has 1 MA's), (Start: 6 @102465 has 3 MA's), (8, 102504), (13, 102558), (16, 102639),

Gene: KentuckyRacer_211 Start: 103886, Stop: 104179, Start Num: 1

Candidate Starts for KentuckyRacer_211:

(Start: 1 @103886 has 28 MA's), (Start: 5 @103973 has 1 MA's), (Start: 6 @103976 has 3 MA's), (8, 104015), (13, 104069), (16, 104150),

Gene: LilMartin_194 Start: 101214, Stop: 101390, Start Num: 6

Candidate Starts for LilMartin_194:

(Start: 6 @101214 has 3 MA's), (8, 101253), (10, 101271), (16, 101364),

Gene: LukeCage_208 Start: 103863, Stop: 104153, Start Num: 1

Candidate Starts for LukeCage_208:

(Start: 1 @103863 has 28 MA's), (Start: 5 @103950 has 1 MA's), (Start: 6 @103953 has 3 MA's), (8, 103992), (13, 104046), (16, 104127),

Gene: Marsus_205 Start: 102479, Stop: 102706, Start Num: 2

Candidate Starts for Marsus_205:

(2, 102479), (Start: 6 @102530 has 3 MA's), (7, 102536), (8, 102569), (16, 102680),

Gene: MindFlayer_198 Start: 101566, Stop: 101859, Start Num: 1

Candidate Starts for MindFlayer_198:

(Start: 1 @101566 has 28 MA's), (Start: 5 @101653 has 1 MA's), (Start: 6 @101656 has 3 MA's), (8, 101695), (13, 101749), (16, 101830),

Gene: Mugiwara_214 Start: 104304, Stop: 104597, Start Num: 1

Candidate Starts for Mugiwara_214:

(Start: 1 @104304 has 28 MA's), (4, 104349), (Start: 5 @104391 has 1 MA's), (Start: 6 @104394 has 3 MA's), (8, 104433), (13, 104487), (16, 104568),

Gene: MulchMansion_197 Start: 102596, Stop: 102772, Start Num: 6

Candidate Starts for MulchMansion_197:

(Start: 6 @102596 has 3 MA's), (8, 102635), (10, 102653), (16, 102746),

Gene: PumpkinSpice_207 Start: 102787, Stop: 103080, Start Num: 1

Candidate Starts for PumpkinSpice_207:

(Start: 1 @102787 has 28 MA's), (Start: 5 @102874 has 1 MA's), (Start: 6 @102877 has 3 MA's), (8, 102916), (13, 102970), (16, 103051),

Gene: Quaran19_205 Start: 102228, Stop: 102521, Start Num: 1

Candidate Starts for Quaran19_205:

(Start: 1 @102228 has 28 MA's), (Start: 5 @102315 has 1 MA's), (Start: 6 @102318 has 3 MA's), (8, 102357), (13, 102411), (16, 102492),

Gene: Rikishi_212 Start: 102596, Stop: 102802, Start Num: 5

Candidate Starts for Rikishi_212:

(Start: 1 @102509 has 28 MA's), (Start: 5 @102596 has 1 MA's), (Start: 6 @102599 has 3 MA's), (8, 102638), (13, 102692), (16, 102773),

Gene: SaltySpittoon_204 Start: 101770, Stop: 102063, Start Num: 1

Candidate Starts for SaltySpittoon_204:

(Start: 1 @101770 has 28 MA's), (Start: 5 @101857 has 1 MA's), (Start: 6 @101860 has 3 MA's), (8, 101899), (13, 101953), (16, 102034),

Gene: Sollertia_203 Start: 102363, Stop: 102653, Start Num: 1

Candidate Starts for Sollertia_203:

(Start: 1 @102363 has 28 MA's), (4, 102408), (Start: 5 @102450 has 1 MA's), (Start: 6 @102453 has 3 MA's), (8, 102492), (11, 102516), (13, 102546), (16, 102627),

Gene: Spelly_208 Start: 101699, Stop: 101992, Start Num: 1

Candidate Starts for Spelly_208:

(Start: 1 @101699 has 28 MA's), (Start: 5 @101786 has 1 MA's), (Start: 6 @101789 has 3 MA's), (8, 101828), (13, 101882), (16, 101963),

Gene: Spilled_211 Start: 102903, Stop: 103196, Start Num: 1

Candidate Starts for Spilled_211:

(Start: 1 @102903 has 28 MA's), (Start: 5 @102990 has 1 MA's), (Start: 6 @102993 has 3 MA's), (8, 103032), (13, 103086), (16, 103167),

Gene: Stanimal_202 Start: 102724, Stop: 103014, Start Num: 1

Candidate Starts for Stanimal_202:

(Start: 1 @102724 has 28 MA's), (4, 102769), (Start: 5 @102811 has 1 MA's), (8, 102853), (11, 102877), (13, 102907), (16, 102988),

Gene: StarPlatinum_212 Start: 104372, Stop: 104662, Start Num: 1

Candidate Starts for StarPlatinum_212:

(Start: 1 @104372 has 28 MA's), (4, 104417), (Start: 5 @104459 has 1 MA's), (8, 104501), (13, 104555), (16, 104636),

Gene: Starbow_202 Start: 101830, Stop: 102036, Start Num: 5

Candidate Starts for Starbow_202:

(Start: 1 @101743 has 28 MA's), (Start: 5 @101830 has 1 MA's), (Start: 6 @101833 has 3 MA's), (8, 101872), (13, 101926), (16, 102007),

Gene: TomSawyer_209 Start: 104214, Stop: 104507, Start Num: 1

Candidate Starts for TomSawyer_209:

(Start: 1 @104214 has 28 MA's), (Start: 5 @104301 has 1 MA's), (Start: 6 @104304 has 3 MA's), (8, 104343), (13, 104397), (16, 104478),

Gene: Tomas_201 Start: 102647, Stop: 102934, Start Num: 1

Candidate Starts for Tomas_201:

(Start: 1 @102647 has 28 MA's), (9, 102779), (12, 102809), (14, 102830), (16, 102902),

Gene: Wipeout_196 Start: 103166, Stop: 103459, Start Num: 1

Candidate Starts for Wipeout_196:

(Start: 1 @103166 has 28 MA's), (Start: 5 @103253 has 1 MA's), (Start: 6 @103256 has 3 MA's), (8, 103295), (13, 103349), (16, 103430),

Gene: Wofford_203 Start: 105218, Stop: 105508, Start Num: 1

Candidate Starts for Wofford_203:

(Start: 1 @105218 has 28 MA's), (3, 105260), (Start: 5 @105305 has 1 MA's), (Start: 6 @105308 has 3 MA's), (8, 105347),

Gene: Yaboi_207 Start: 102298, Stop: 102588, Start Num: 1

Candidate Starts for Yaboi_207:

(Start: 1 @102298 has 28 MA's), (4, 102343), (Start: 5 @102385 has 1 MA's), (Start: 6 @102388 has 3 MA's), (8, 102427), (11, 102451), (13, 102481), (16, 102562),