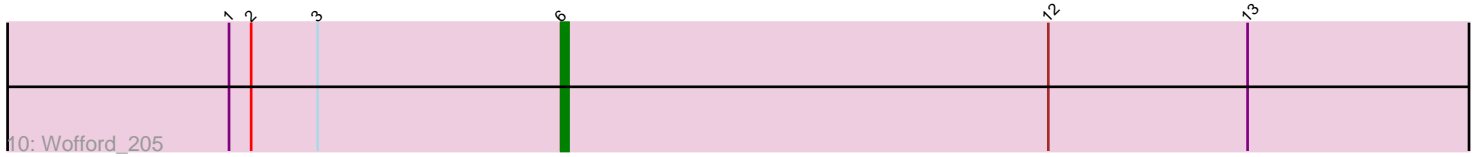
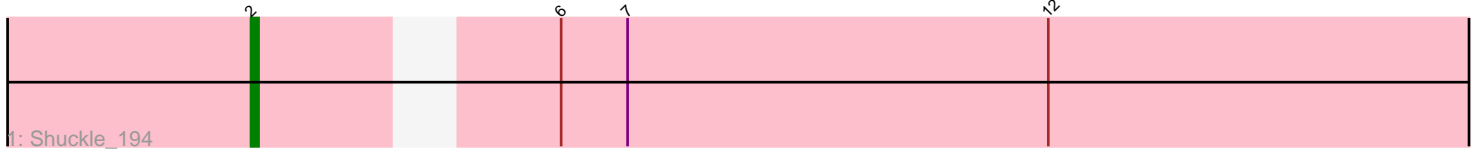


Pham 294989



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 294989 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294989 has 28 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Shuckle_194
- Track 2 : Karimac_208
- Track 3 : Rikishi_208, MindFlayer_200, IchabodCrane_202, CeilingFan_211, Jollison_205, Spelly_212, JimJam_214, Amabiko_211
- Track 4 : AcciDwight_215, Spilled_214, Quaran19_207, Bordeaux_205, TomSawyer_211, KentuckyRacer_213
- Track 5 : Starbow_204, Birchlyn_206, Gibbi_215, Battuta_205, Wipeout_198, PumpkinSpice_210, SaltySpittoon_207
- Track 6 : Brizzy_206
- Track 7 : Enygma_213
- Track 8 : Elmer_213
- Track 9 : Mugiwara_212
- Track 10 : Wofford_205

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_211, Brizzy_206, CeilingFan_211, Enygma_213, IchabodCrane_202, JimJam_214, Jollison_205, MindFlayer_200, Rikishi_208, Shuckle_194, Spelly_212,

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

- AcciDwight_215, Battuta_205, Birchlyn_206, Bordeaux_205, Gibbi_215, Karimac_208, KentuckyRacer_213, Mugiwara_212, PumpkinSpice_210, Quaran19_207, SaltySpittoon_207, Spilled_214, Starbow_204, TomSawyer_211, Wipeout_198, Wofford_205,

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

- Elmer_213,

Summary by start number:

Start 2:

- Found in 27 of 28 (96.4%) of genes in pham
- Manual Annotations of this start: 11 of 26
- Called 40.7% of time when present
- Phage (with cluster) where this start called: Amabiko_211 (BE2), Brizzy_206 (BE2), CeilingFan_211 (BE2), Enygma_213 (BE2), IchabodCrane_202 (BE2), JimJam_214 (BE2), Jollison_205 (BE2), MindFlayer_200 (BE2), Rikishi_208 (BE2), Shuckle_194 (BE1), Spelly_212 (BE2),

Start 3:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Elmer_213 (BE2),

Start 5:

- Found in 23 of 28 (82.1%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 26.1% of time when present
- Phage (with cluster) where this start called: AcciDwight_215 (BE2), Bordeaux_205 (BE2), KentuckyRacer_213 (BE2), Quarant19_207 (BE2), Spilled_214 (BE2), TomSawyer_211 (BE2),

Start 6:

- Found in 27 of 28 (96.4%) of genes in pham
- Manual Annotations of this start: 9 of 26
- Called 37.0% of time when present
- Phage (with cluster) where this start called: Battuta_205 (BE2), Birchlyn_206 (BE2), Gibbi_215 (BE2), Karimac_208 (BE2), Mugiwara_212 (BE2), PumpkinSpice_210 (BE2), SaltySpittoon_207 (BE2), Starbow_204 (BE2), Wipeout_198 (BE2), Wofford_205 (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.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 10 times for cluster BE2.
- Start number 3 was manually annotated 1 time for cluster BE2.
- Start number 5 was manually annotated 5 times for cluster BE2.
- Start number 6 was manually annotated 9 times for cluster BE2.

Gene Information:

Gene: AcciDwight_215 Start: 103192, Stop: 103350, Start Num: 5

Candidate Starts for AcciDwight_215:

(Start: 2 @103165 has 11 MA's), (4, 103183), (Start: 5 @103192 has 5 MA's), (Start: 6 @103195 has 9 MA's), (7, 103204), (11, 103249), (12, 103261),

Gene: Amabiko_211 Start: 102983, Stop: 103168, Start Num: 2

Candidate Starts for Amabiko_211:

(Start: 2 @102983 has 11 MA's), (4, 103001), (Start: 5 @103010 has 5 MA's), (Start: 6 @103013 has 9 MA's), (7, 103022), (11, 103067), (12, 103079),

Gene: Battuta_205 Start: 102329, Stop: 102484, Start Num: 6

Candidate Starts for Battuta_205:

(Start: 2 @102299 has 11 MA's), (4, 102317), (Start: 5 @102326 has 5 MA's), (Start: 6 @102329 has 9 MA's), (7, 102338), (11, 102383), (12, 102395),

Gene: Birchlyn_206 Start: 100261, Stop: 100416, Start Num: 6

Candidate Starts for Birchlyn_206:

(Start: 2 @100231 has 11 MA's), (4, 100249), (Start: 5 @100258 has 5 MA's), (Start: 6 @100261 has 9 MA's), (7, 100270), (11, 100315), (12, 100327),

Gene: Bordeaux_205 Start: 102909, Stop: 103067, Start Num: 5

Candidate Starts for Bordeaux_205:

(Start: 2 @102882 has 11 MA's), (4, 102900), (Start: 5 @102909 has 5 MA's), (Start: 6 @102912 has 9 MA's), (7, 102921), (11, 102966), (12, 102978),

Gene: Brizzy_206 Start: 103418, Stop: 103603, Start Num: 2

Candidate Starts for Brizzy_206:

(Start: 2 @103418 has 11 MA's), (4, 103436), (Start: 5 @103445 has 5 MA's), (Start: 6 @103448 has 9 MA's), (7, 103457), (8, 103460), (11, 103502), (12, 103514),

Gene: CeilingFan_211 Start: 103676, Stop: 103861, Start Num: 2

Candidate Starts for CeilingFan_211:

(Start: 2 @103676 has 11 MA's), (4, 103694), (Start: 5 @103703 has 5 MA's), (Start: 6 @103706 has 9 MA's), (7, 103715), (11, 103760), (12, 103772),

Gene: Elmer_213 Start: 105821, Stop: 106000, Start Num: 3

Candidate Starts for Elmer_213:

(1, 105809), (Start: 3 @105821 has 1 MA's), (Start: 6 @105854 has 9 MA's), (12, 105920), (13, 105947),

Gene: Enygma_213 Start: 105620, Stop: 105811, Start Num: 2

Candidate Starts for Enygma_213:

(Start: 2 @105620 has 11 MA's), (7, 105659), (10, 105692), (12, 105716),

Gene: Gibbi_215 Start: 103199, Stop: 103354, Start Num: 6

Candidate Starts for Gibbi_215:

(Start: 2 @103169 has 11 MA's), (4, 103187), (Start: 5 @103196 has 5 MA's), (Start: 6 @103199 has 9 MA's), (7, 103208), (11, 103253), (12, 103265),

Gene: IchabodCrane_202 Start: 102684, Stop: 102869, Start Num: 2

Candidate Starts for IchabodCrane_202:

(Start: 2 @102684 has 11 MA's), (4, 102702), (Start: 5 @102711 has 5 MA's), (Start: 6 @102714 has 9 MA's), (7, 102723), (11, 102768), (12, 102780),

Gene: JimJam_214 Start: 104605, Stop: 104790, Start Num: 2

Candidate Starts for JimJam_214:

(Start: 2 @104605 has 11 MA's), (4, 104623), (Start: 5 @104632 has 5 MA's), (Start: 6 @104635 has 9 MA's), (7, 104644), (11, 104689), (12, 104701),

Gene: Jollison_205 Start: 102815, Stop: 103000, Start Num: 2

Candidate Starts for Jollison_205:

(Start: 2 @102815 has 11 MA's), (4, 102833), (Start: 5 @102842 has 5 MA's), (Start: 6 @102845 has 9 MA's), (7, 102854), (11, 102899), (12, 102911),

Gene: Karimac_208 Start: 103039, Stop: 103194, Start Num: 6

Candidate Starts for Karimac_208:

(Start: 2 @103009 has 11 MA's), (4, 103027), (Start: 5 @103036 has 5 MA's), (Start: 6 @103039 has 9 MA's), (7, 103048), (8, 103051), (11, 103093), (12, 103105),

Gene: KentuckyRacer_213 Start: 104547, Stop: 104705, Start Num: 5

Candidate Starts for KentuckyRacer_213:

(Start: 2 @104520 has 11 MA's), (4, 104538), (Start: 5 @104547 has 5 MA's), (Start: 6 @104550 has 9 MA's), (7, 104559), (11, 104604), (12, 104616),

Gene: MindFlyer_200 Start: 102200, Stop: 102385, Start Num: 2

Candidate Starts for MindFlyer_200:

(Start: 2 @102200 has 11 MA's), (4, 102218), (Start: 5 @102227 has 5 MA's), (Start: 6 @102230 has 9 MA's), (7, 102239), (11, 102284), (12, 102296),

Gene: Mugiwara_212 Start: 104971, Stop: 105126, Start Num: 6

Candidate Starts for Mugiwara_212:

(Start: 2 @104941 has 11 MA's), (Start: 6 @104971 has 9 MA's), (8, 104983), (9, 104995), (11, 105025), (12, 105037), (13, 105064),

Gene: PumpkinSpice_210 Start: 103451, Stop: 103606, Start Num: 6

Candidate Starts for PumpkinSpice_210:

(Start: 2 @103421 has 11 MA's), (4, 103439), (Start: 5 @103448 has 5 MA's), (Start: 6 @103451 has 9 MA's), (7, 103460), (11, 103505), (12, 103517),

Gene: Quaran19_207 Start: 102889, Stop: 103047, Start Num: 5

Candidate Starts for Quaran19_207:

(Start: 2 @102862 has 11 MA's), (4, 102880), (Start: 5 @102889 has 5 MA's), (Start: 6 @102892 has 9 MA's), (7, 102901), (11, 102946), (12, 102958),

Gene: Rikishi_208 Start: 103143, Stop: 103328, Start Num: 2

Candidate Starts for Rikishi_208:

(Start: 2 @103143 has 11 MA's), (4, 103161), (Start: 5 @103170 has 5 MA's), (Start: 6 @103173 has 9 MA's), (7, 103182), (11, 103227), (12, 103239),

Gene: SaltySpittoon_207 Start: 102434, Stop: 102589, Start Num: 6

Candidate Starts for SaltySpittoon_207:

(Start: 2 @102404 has 11 MA's), (4, 102422), (Start: 5 @102431 has 5 MA's), (Start: 6 @102434 has 9 MA's), (7, 102443), (11, 102488), (12, 102500),

Gene: Shuckle_194 Start: 103037, Stop: 103240, Start Num: 2

Candidate Starts for Shuckle_194:

(Start: 2 @103037 has 11 MA's), (Start: 6 @103070 has 9 MA's), (7, 103079), (12, 103136),

Gene: Spelly_212 Start: 102333, Stop: 102518, Start Num: 2

Candidate Starts for Spelly_212:

(Start: 2 @102333 has 11 MA's), (4, 102351), (Start: 5 @102360 has 5 MA's), (Start: 6 @102363 has 9 MA's), (7, 102372), (11, 102417), (12, 102429),

Gene: Spilled_214 Start: 103564, Stop: 103722, Start Num: 5

Candidate Starts for Spilled_214:

(Start: 2 @103537 has 11 MA's), (4, 103555), (Start: 5 @103564 has 5 MA's), (Start: 6 @103567 has 9 MA's), (7, 103576), (11, 103621), (12, 103633),

Gene: Starbow_204 Start: 102407, Stop: 102562, Start Num: 6

Candidate Starts for Starbow_204:

(Start: 2 @102377 has 11 MA's), (4, 102395), (Start: 5 @102404 has 5 MA's), (Start: 6 @102407 has 9 MA's), (7, 102416), (11, 102461), (12, 102473),

Gene: TomSawyer_211 Start: 104875, Stop: 105033, Start Num: 5

Candidate Starts for TomSawyer_211:

(Start: 2 @104848 has 11 MA's), (4, 104866), (Start: 5 @104875 has 5 MA's), (Start: 6 @104878 has 9 MA's), (7, 104887), (11, 104932), (12, 104944),

Gene: Wipeout_198 Start: 103830, Stop: 103985, Start Num: 6

Candidate Starts for Wipeout_198:

(Start: 2 @103800 has 11 MA's), (4, 103818), (Start: 5 @103827 has 5 MA's), (Start: 6 @103830 has 9 MA's), (7, 103839), (11, 103884), (12, 103896),

Gene: Wofford_205 Start: 105722, Stop: 105868, Start Num: 6

Candidate Starts for Wofford_205:

(1, 105677), (Start: 2 @105680 has 11 MA's), (Start: 3 @105689 has 1 MA's), (Start: 6 @105722 has 9 MA's), (12, 105788), (13, 105815),