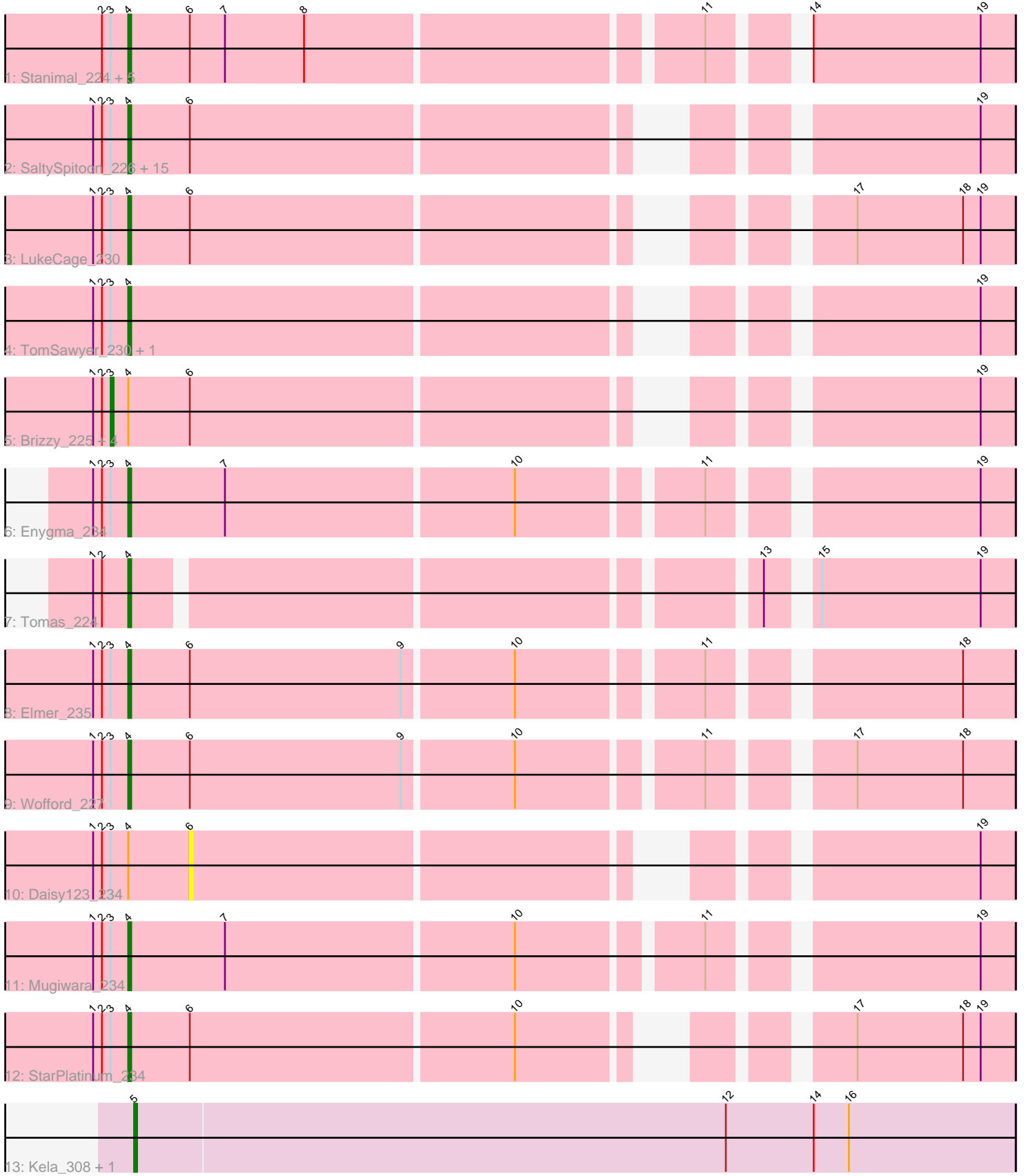


Pham 308900



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 308900 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308900 has 39 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Stanimal_224, AngryGiraffe_224, Yaboi_229, Sollertia_225, BoomerJR_224, Genie2_224
- Track 2 : SaltySpittoon_226, Starbow_223, PumpkinSpice_229, Birchlyn_225, KentuckyRacer_232, AcciDwight_234, Battuta_224, Spelly_231, Quaran19_226, Gibbi_234, Amabiko_230, JimJam_233, Karimac_226, CeilingFan_230, Jollison_223, Bordeaux_224
- Track 3 : LukeCage_230
- Track 4 : TomSawyer_230, Wipeout_217
- Track 5 : Brizzy_225, Rikishi_227, IchabodCrane_220, Spilled_233, MindFlayer_219
- Track 6 : Enygma_234
- Track 7 : Tomas_224
- Track 8 : Elmer_235
- Track 9 : Wofford_227
- Track 10 : Daisy123_234
- Track 11 : Mugiwara_234
- Track 12 : StarPlatinum_234
- Track 13 : Kela_308, JustBecause_310

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

The start number called the most often in the published annotations is 4, it was called in 29 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_234, Amabiko_230, AngryGiraffe_224, Battuta_224, Birchlyn_225, BoomerJR_224, Bordeaux_224, CeilingFan_230, Elmer_235, Enygma_234, Genie2_224, Gibbi_234, JimJam_233, Jollison_223, Karimac_226, KentuckyRacer_232, LukeCage_230, Mugiwara_234, PumpkinSpice_229, Quaran19_226, SaltySpittoon_226, Sollertia_225, Spelly_231, Stanimal_224, StarPlatinum_234, Starbow_223, TomSawyer_230, Tomas_224, Wipeout_217, Wofford_227, Yaboi_229,

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

- Brizzy_225, Daisy123_234, IchabodCrane_220, MindFlayer_219, Rikishi_227, Spilled_233,

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

- JustBecause_310, Kela_308,

Summary by start number:

Start 3:

- Found in 36 of 39 (92.3%) of genes in pham
- Manual Annotations of this start: 5 of 36
- Called 13.9% of time when present
- Phage (with cluster) where this start called: Brizzy_225 (BE2), IchabodCrane_220 (BE2), MindFlayer_219 (BE2), Rikishi_227 (BE2), Spilled_233 (BE2),

Start 4:

- Found in 37 of 39 (94.9%) of genes in pham
- Manual Annotations of this start: 29 of 36
- Called 83.8% of time when present
- Phage (with cluster) where this start called: AcciDwight_234 (BE2), Amabiko_230 (BE2), AngryGiraffe_224 (BE2), Battuta_224 (BE2), Birchlyn_225 (BE2), BoomerJR_224 (BE2), Bordeaux_224 (BE2), CeilingFan_230 (BE2), Elmer_235 (BE2), Enygma_234 (BE2), Genie2_224 (BE2), Gibbi_234 (BE2), JimJam_233 (BE2), Jollison_223 (BE2), Karimac_226 (BE2), KentuckyRacer_232 (BE2), LukeCage_230 (BE2), Mugiwara_234 (BE2), PumpkinSpice_229 (BE2), Quaran19_226 (BE2), SaltySpitoon_226 (BE2), Sollertia_225 (BE2), Spelly_231 (BE2), Stanimal_224 (BE2), StarPlatinum_234 (BE2), Starbow_223 (BE2), TomSawyer_230 (BE2), Tomas_224 (BE2), Wipeout_217 (BE2), Wofford_227 (BE2), Yaboi_229 (BE2),

Start 5:

- Found in 2 of 39 (5.1%) of genes in pham
- Manual Annotations of this start: 2 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustBecause_310 (BM), Kela_308 (BM),

Start 6:

- Found in 32 of 39 (82.1%) of genes in pham
- No Manual Annotations of this start.
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Daisy123_234 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE2:

- Start number 3 was manually annotated 5 times for cluster BE2.
- Start number 4 was manually annotated 29 times for cluster BE2.

Info for manual annotations of cluster BM:

- Start number 5 was manually annotated 2 times for cluster BM.

Gene Information:

Gene: AcciDwight_234 Start: 108019, Stop: 108282, Start Num: 4

Candidate Starts for AcciDwight_234:

(1, 108007), (2, 108010), (Start: 3 @108013 has 5 MA's), (Start: 4 @108019 has 29 MA's), (6, 108040), (19, 108271),

Gene: Amabiko_230 Start: 107837, Stop: 108100, Start Num: 4

Candidate Starts for Amabiko_230:

(1, 107825), (2, 107828), (Start: 3 @107831 has 5 MA's), (Start: 4 @107837 has 29 MA's), (6, 107858), (19, 108089),

Gene: AngryGiraffe_224 Start: 107722, Stop: 108000, Start Num: 4

Candidate Starts for AngryGiraffe_224:

(2, 107713), (Start: 3 @107716 has 5 MA's), (Start: 4 @107722 has 29 MA's), (6, 107743), (7, 107755), (8, 107782), (11, 107908), (14, 107932), (19, 107989),

Gene: Battuta_224 Start: 107152, Stop: 107415, Start Num: 4

Candidate Starts for Battuta_224:

(1, 107140), (2, 107143), (Start: 3 @107146 has 5 MA's), (Start: 4 @107152 has 29 MA's), (6, 107173), (19, 107404),

Gene: Birchlyn_225 Start: 105085, Stop: 105348, Start Num: 4

Candidate Starts for Birchlyn_225:

(1, 105073), (2, 105076), (Start: 3 @105079 has 5 MA's), (Start: 4 @105085 has 29 MA's), (6, 105106), (19, 105337),

Gene: BoomerJR_224 Start: 108155, Stop: 108433, Start Num: 4

Candidate Starts for BoomerJR_224:

(2, 108146), (Start: 3 @108149 has 5 MA's), (Start: 4 @108155 has 29 MA's), (6, 108176), (7, 108188), (8, 108215), (11, 108341), (14, 108365), (19, 108422),

Gene: Bordeaux_224 Start: 107735, Stop: 107998, Start Num: 4

Candidate Starts for Bordeaux_224:

(1, 107723), (2, 107726), (Start: 3 @107729 has 5 MA's), (Start: 4 @107735 has 29 MA's), (6, 107756), (19, 107987),

Gene: Brizzy_225 Start: 108257, Stop: 108526, Start Num: 3

Candidate Starts for Brizzy_225:

(1, 108251), (2, 108254), (Start: 3 @108257 has 5 MA's), (Start: 4 @108263 has 29 MA's), (6, 108284), (19, 108515),

Gene: CeilingFan_230 Start: 108530, Stop: 108793, Start Num: 4

Candidate Starts for CeilingFan_230:

(1, 108518), (2, 108521), (Start: 3 @108524 has 5 MA's), (Start: 4 @108530 has 29 MA's), (6, 108551), (19, 108782),

Gene: Daisy123_234 Start: 108413, Stop: 108655, Start Num: 6

Candidate Starts for Daisy123_234:

(1, 108380), (2, 108383), (Start: 3 @108386 has 5 MA's), (Start: 4 @108392 has 29 MA's), (6, 108413), (19, 108644),

Gene: Elmer_235 Start: 111479, Stop: 111757, Start Num: 4

Candidate Starts for Elmer_235:

(1, 111467), (2, 111470), (Start: 3 @111473 has 5 MA's), (Start: 4 @111479 has 29 MA's), (6, 111500), (9, 111572), (10, 111608), (11, 111665), (18, 111740),

Gene: Enygma_234 Start: 110939, Stop: 111217, Start Num: 4

Candidate Starts for Enygma_234:

(1, 110927), (2, 110930), (Start: 3 @110933 has 5 MA's), (Start: 4 @110939 has 29 MA's), (7, 110972), (10, 111068), (11, 111125), (19, 111206),

Gene: Genie2_224 Start: 108280, Stop: 108558, Start Num: 4

Candidate Starts for Genie2_224:

(2, 108271), (Start: 3 @108274 has 5 MA's), (Start: 4 @108280 has 29 MA's), (6, 108301), (7, 108313), (8, 108340), (11, 108466), (14, 108490), (19, 108547),

Gene: Gibbi_234 Start: 108023, Stop: 108286, Start Num: 4

Candidate Starts for Gibbi_234:

(1, 108011), (2, 108014), (Start: 3 @108017 has 5 MA's), (Start: 4 @108023 has 29 MA's), (6, 108044), (19, 108275),

Gene: IchabodCrane_220 Start: 107532, Stop: 107801, Start Num: 3

Candidate Starts for IchabodCrane_220:

(1, 107526), (2, 107529), (Start: 3 @107532 has 5 MA's), (Start: 4 @107538 has 29 MA's), (6, 107559), (19, 107790),

Gene: JimJam_233 Start: 109459, Stop: 109722, Start Num: 4

Candidate Starts for JimJam_233:

(1, 109447), (2, 109450), (Start: 3 @109453 has 5 MA's), (Start: 4 @109459 has 29 MA's), (6, 109480), (19, 109711),

Gene: Jollison_223 Start: 107669, Stop: 107932, Start Num: 4

Candidate Starts for Jollison_223:

(1, 107657), (2, 107660), (Start: 3 @107663 has 5 MA's), (Start: 4 @107669 has 29 MA's), (6, 107690), (19, 107921),

Gene: JustBecause_310 Start: 167347, Stop: 167048, Start Num: 5

Candidate Starts for JustBecause_310:

(Start: 5 @167347 has 2 MA's), (12, 167146), (14, 167116), (16, 167104),

Gene: Karimac_226 Start: 107854, Stop: 108117, Start Num: 4

Candidate Starts for Karimac_226:

(1, 107842), (2, 107845), (Start: 3 @107848 has 5 MA's), (Start: 4 @107854 has 29 MA's), (6, 107875), (19, 108106),

Gene: Kela_308 Start: 168243, Stop: 167944, Start Num: 5

Candidate Starts for Kela_308:

(Start: 5 @168243 has 2 MA's), (12, 168042), (14, 168012), (16, 168000),

Gene: KentuckyRacer_232 Start: 109374, Stop: 109637, Start Num: 4

Candidate Starts for KentuckyRacer_232:

(1, 109362), (2, 109365), (Start: 3 @109368 has 5 MA's), (Start: 4 @109374 has 29 MA's), (6, 109395), (19, 109626),

Gene: LukeCage_230 Start: 110133, Stop: 110396, Start Num: 4

Candidate Starts for LukeCage_230:

(1, 110121), (2, 110124), (Start: 3 @110127 has 5 MA's), (Start: 4 @110133 has 29 MA's), (6, 110154), (17, 110343), (18, 110379), (19, 110385),

Gene: MindFlayer_219 Start: 107048, Stop: 107317, Start Num: 3

Candidate Starts for MindFlayer_219:

(1, 107042), (2, 107045), (Start: 3 @107048 has 5 MA's), (Start: 4 @107054 has 29 MA's), (6, 107075), (19, 107306),

Gene: Mugiwara_234 Start: 110633, Stop: 110911, Start Num: 4

Candidate Starts for Mugiwara_234:

(1, 110621), (2, 110624), (Start: 3 @110627 has 5 MA's), (Start: 4 @110633 has 29 MA's), (7, 110666), (10, 110762), (11, 110819), (19, 110900),

Gene: PumpkinSpice_229 Start: 108275, Stop: 108538, Start Num: 4

Candidate Starts for PumpkinSpice_229:

(1, 108263), (2, 108266), (Start: 3 @108269 has 5 MA's), (Start: 4 @108275 has 29 MA's), (6, 108296), (19, 108527),

Gene: Quaran19_226 Start: 107716, Stop: 107979, Start Num: 4

Candidate Starts for Quaran19_226:

(1, 107704), (2, 107707), (Start: 3 @107710 has 5 MA's), (Start: 4 @107716 has 29 MA's), (6, 107737), (19, 107968),

Gene: Rikishi_227 Start: 107991, Stop: 108260, Start Num: 3

Candidate Starts for Rikishi_227:

(1, 107985), (2, 107988), (Start: 3 @107991 has 5 MA's), (Start: 4 @107997 has 29 MA's), (6, 108018), (19, 108249),

Gene: SaltySpittoon_226 Start: 107258, Stop: 107521, Start Num: 4

Candidate Starts for SaltySpittoon_226:

(1, 107246), (2, 107249), (Start: 3 @107252 has 5 MA's), (Start: 4 @107258 has 29 MA's), (6, 107279), (19, 107510),

Gene: Sollertia_225 Start: 108269, Stop: 108547, Start Num: 4

Candidate Starts for Sollertia_225:

(2, 108260), (Start: 3 @108263 has 5 MA's), (Start: 4 @108269 has 29 MA's), (6, 108290), (7, 108302), (8, 108329), (11, 108455), (14, 108479), (19, 108536),

Gene: Spelly_231 Start: 107187, Stop: 107450, Start Num: 4

Candidate Starts for Spelly_231:

(1, 107175), (2, 107178), (Start: 3 @107181 has 5 MA's), (Start: 4 @107187 has 29 MA's), (6, 107208), (19, 107439),

Gene: Spilled_233 Start: 108385, Stop: 108654, Start Num: 3

Candidate Starts for Spilled_233:

(1, 108379), (2, 108382), (Start: 3 @108385 has 5 MA's), (Start: 4 @108391 has 29 MA's), (6, 108412), (19, 108643),

Gene: Stanimal_224 Start: 108641, Stop: 108919, Start Num: 4

Candidate Starts for Stanimal_224:

(2, 108632), (Start: 3 @108635 has 5 MA's), (Start: 4 @108641 has 29 MA's), (6, 108662), (7, 108674), (8, 108701), (11, 108827), (14, 108851), (19, 108908),

Gene: StarPlatinum_234 Start: 110364, Stop: 110627, Start Num: 4

Candidate Starts for StarPlatinum_234:

(1, 110352), (2, 110355), (Start: 3 @110358 has 5 MA's), (Start: 4 @110364 has 29 MA's), (6, 110385), (10, 110493), (17, 110574), (18, 110610), (19, 110616),

Gene: Starbow_223 Start: 107231, Stop: 107494, Start Num: 4

Candidate Starts for Starbow_223:

(1, 107219), (2, 107222), (Start: 3 @107225 has 5 MA's), (Start: 4 @107231 has 29 MA's), (6, 107252), (19, 107483),

Gene: TomSawyer_230 Start: 109702, Stop: 109965, Start Num: 4

Candidate Starts for TomSawyer_230:

(1, 109690), (2, 109693), (Start: 3 @109696 has 5 MA's), (Start: 4 @109702 has 29 MA's), (19, 109954),

Gene: Tomas_224 Start: 108643, Stop: 108915, Start Num: 4

Candidate Starts for Tomas_224:

(1, 108631), (2, 108634), (Start: 4 @108643 has 29 MA's), (13, 108838), (15, 108850), (19, 108904),

Gene: Wipeout_217 Start: 108654, Stop: 108917, Start Num: 4

Candidate Starts for Wipeout_217:

(1, 108642), (2, 108645), (Start: 3 @108648 has 5 MA's), (Start: 4 @108654 has 29 MA's), (19, 108906),

Gene: Wofford_227 Start: 111345, Stop: 111623, Start Num: 4

Candidate Starts for Wofford_227:

(1, 111333), (2, 111336), (Start: 3 @111339 has 5 MA's), (Start: 4 @111345 has 29 MA's), (6, 111366), (9, 111438), (10, 111474), (11, 111531), (17, 111570), (18, 111606),

Gene: Yaboi_229 Start: 108204, Stop: 108482, Start Num: 4

Candidate Starts for Yaboi_229:

(2, 108195), (Start: 3 @108198 has 5 MA's), (Start: 4 @108204 has 29 MA's), (6, 108225), (7, 108237), (8, 108264), (11, 108390), (14, 108414), (19, 108471),