Pham 347765


1: LukeCage_221
2: Starbow_213 + 20
3: Yaboi_221 + 6
4: Elmer_227
5: Karimac_217 + 1
6: Tomas_215
7: Mugiwara_224
8: Wipeout_207 + 1
9: StarPlatinum_225
10: Enygma_226
11: Blueeyedbeauty_235
12: ChickenTender_32
13: Big4_14 + 1
14: Zooman_12 + 1

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 347765 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347765 has 44 members, 4 are drafts.

Phages represented in each track:
• Track 1 : LukeCage_221
• Track 2 : Starbow_213, Battuta_214, KentuckyRacer_222, TomSawyer_220, Rikishi_217, Spelly_221, JimJam_223, Daisy123_218, Jollison_213, Gibbi_224, SaltySpitoon_216, MindFlayer_209, Bordeaux_214, Tuesday_223, CeilingFan_220, Quaran19_216, Birchlyn_215, Spilled_223, PumpkinSpice_219, Amabiko_220, IchabodCrane_211
• Track 3 : Yaboi_221, Wofford_218, Sollertia_217, Genie2_215, BoomerJR_215, AngryGiraffe_215, Stanimal_216
• Track 4 : Elmer_227
• Track 5 : Karimac_217, Brizzy_215
• Track 6 : Tomas_215
• Track 7 : Mugiwara_224
• Track 8 : Wipeout_207, AcciDwight_224
• Track 9 : StarPlatinum_225
• Track 10 : Enygma_226
• Track 11 : Blueeyedbeauty_235
• Track 12 : ChickenTender_32
• Track 13 : Big4_14, Big4_340
• Track 14 : Zooman_12, Zooman_325

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

The start number called the most often in the published annotations is 5, it was called in 39 of the 40 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_220, AngryGiraffe_215, Battuta_214, Big4_14, Big4_340, Birchlyn_215, Blueeyedbeauty_235, BoomerJR_215, Bordeaux_214, Brizzy_215, CeilingFan_220, Daisy123_218, Elmer_227, Enygma_226, Genie2_215, Gibbi_224, IchabodCrane_211, JimJam_223, Jollison_213, Karimac_217, KentuckyRacer_222, LukeCage_221, MindFlayer_209, Mugiwara_224, PumpkinSpice_219, Quaran19_216, Rikishi_217, SaltySpitoon_216, Sollertia_217, Spelly_221, Spilled_223, Stanimal_216, StarPlatinum_225, Starbow_213, TomSawyer_220, Tomas_215, Tuesday_223, Wofford_218, Yaboi_221, Zooman_12, Zooman_325,

Genes that have the "Most Annotated" start but do not call it:
• AcciDwight_224, ChickenTender_32, Wipeout_207,

Genes that do not have the "Most Annotated" start:
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Summary by start number:

Start 5:
• Found in 44 of 44 (100.0%) of genes in pham
• Manual Annotations of this start: 39 of 40
• Called 93.2% of time when present
• Phage (with cluster) where this start called: Amabiko_220 (BE2), AngryGiraffe_215 (BE2), Battuta_214 (BE2), Big4_14 (GD2), Big4_340 (GD2), Birchlyn_215 (BE2), Blueeyedbeauty_235 (BK1), BoomerJR_215 (BE2), Bordeaux_214 (BE2), Brizzy_215 (BE2), CeilingFan_220 (BE2), Daisy123_218 (BE2), Elmer_227 (BE2), Enygma_226 (BE2), Genie2_215 (BE2), Gibbi_224 (BE2), IchabodCrane_211 (BE2), JimJam_223 (BE2), Jollison_213 (BE2), Karimac_217 (BE2), KentuckyRacer_222 (BE2), LukeCage_221 (BE2), MindFlayer_209 (BE2), Mugiwara_224 (BE2), PumpkinSpice_219 (BE2), Quaran19_216 (BE2), Rikishi_217 (BE2), SaltySpitoon_216 (BE2), Sollertia_217 (BE2), Spelly_221 (BE2), Spilled_223 (BE2), Stanimal_216 (BE2), StarPlatinum_225 (BE2), Starbow_213 (BE2), TomSawyer_220 (BE2), Tomas_215 (BE2), Tuesday_223 (BE2), Wofford_218 (BE2), Yaboi_221 (BE2), Zooman_12 (GD2), Zooman_325 (GD2),

Start 9:
• Found in 37 of 44 (84.1%) of genes in pham
• Manual Annotations of this start: 1 of 40
• Called 5.4% of time when present
• Phage (with cluster) where this start called: AcciDwight_224 (BE2), Wipeout_207 (BE2),

Start 15:
• Found in 3 of 44 (6.8%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: ChickenTender_32 (CT),

Summary by clusters:

There are 4 clusters represented in this pham: BE2, GD2, BK1, CT,

Info for manual annotations of cluster BE2:
•Start number 5 was manually annotated 34 times for cluster BE2.
•Start number 9 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 5 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster GD2:
•Start number 5 was manually annotated 4 times for cluster GD2.

Gene Information:

Gene: AcciDwight_224 Start: 105819, Stop: 106166, Start Num: 9
Candidate Starts for AcciDwight_224:
(3, 105681), (Start: 5 @105729 has 39 MA's), (6, 105768), (Start: 9 @105819 has 1 MA's), (10, 105822), (12, 105858),

Gene: Amabiko_220 Start: 105547, Stop: 105984, Start Num: 5
Candidate Starts for Amabiko_220:
(3, 105499), (Start: 5 @105547 has 39 MA's), (6, 105586), (Start: 9 @105637 has 1 MA's), (10, 105640), (12, 105676),

Gene: AngryGiraffe_215 Start: 105657, Stop: 106094, Start Num: 5
Candidate Starts for AngryGiraffe_215:
(Start: 5 @105657 has 39 MA's), (6, 105696), (Start: 9 @105747 has 1 MA's), (10, 105750), (12, 105786), (20, 105870),

Gene: Battuta_214 Start: 104863, Stop: 105300, Start Num: 5
Candidate Starts for Battuta_214:
(3, 104815), (Start: 5 @104863 has 39 MA's), (6, 104902), (Start: 9 @104953 has 1 MA's), (10, 104956), (12, 104992),

Gene: Big4_14 Start: 6390, Stop: 6845, Start Num: 5
Candidate Starts for Big4_14:
(Start: 5 @6390 has 39 MA's), (6, 6429), (15, 6537), (18, 6570), (21, 6624), (22, 6648), (23, 6687), (26, 6726), (29, 6789), (30, 6798),

Gene: Big4_340 Start: 181084, Stop: 181539, Start Num: 5
Candidate Starts for Big4_340:
(Start: 5 @181084 has 39 MA's), (6, 181123), (15, 181231), (18, 181264), (21, 181318), (22, 181342), (23, 181381), (26, 181420), (29, 181483), (30, 181492),

Gene: Birchlyn_215 Start: 102795, Stop: 103232, Start Num: 5
Candidate Starts for Birchlyn_215:
(3, 102747), (Start: 5 @102795 has 39 MA's), (6, 102834), (Start: 9 @102885 has 1 MA's), (10, 102888), (12, 102924),

Gene: Blueeyedbeauty_235 Start: 114281, Stop: 114733, Start Num: 5
Candidate Starts for Blueeyedbeauty_235:
(Start: 5 @114281 has 39 MA's), (6, 114320), (8, 114335), (13, 114413), (14, 114425), (17, 114446), (19, 114464), (31, 114719), (32, 114722),

Gene: BoomerJR_215 Start: 106090, Stop: 106527, Start Num: 5
Candidate Starts for BoomerJR_215:
(Start: 5 @106090 has 39 MA's), (6, 106129), (Start: 9 @106180 has 1 MA's), (10, 106183), (12, 106219), (20, 106303),

Gene: Bordeaux_214 Start: 105446, Stop: 105883, Start Num: 5
Candidate Starts for Bordeaux_214:

(3, 105398), (Start: 5 @105446 has 39 MA's), (6, 105485), (Start: 9 @105536 has 1 MA's), (10, 105539), (12, 105575),

Gene: Brizzy_215 Start: 105973, Stop: 106410, Start Num: 5
Candidate Starts for Brizzy_215:
(4, 105943), (Start: 5 @105973 has 39 MA's), (6, 106012), (Start: 9 @106063 has 1 MA's), (12, 106102),

Gene: CeilingFan_220 Start: 106240, Stop: 106677, Start Num: 5
Candidate Starts for CeilingFan_220:
(3, 106192), (Start: 5 @106240 has 39 MA's), (6, 106279), (Start: 9 @106330 has 1 MA's), (10, 106333), (12, 106369),

Gene: ChickenTender_32 Start: 24097, Stop: 23804, Start Num: 15
Candidate Starts for ChickenTender_32:
(1, 24376), (Start: 5 @24244 has 39 MA's), (15, 24097), (20, 24037), (21, 24010), (25, 23923), (31, 23818),

Gene: Daisy123_218 Start: 106102, Stop: 106539, Start Num: 5
Candidate Starts for Daisy123_218:
(3, 106054), (Start: 5 @106102 has 39 MA's), (6, 106141), (Start: 9 @106192 has 1 MA's), (10, 106195), (12, 106231),

Gene: Elmer_227 Start: 109351, Stop: 109788, Start Num: 5
Candidate Starts for Elmer_227:
(Start: 5 @109351 has 39 MA's), (6, 109390), (Start: 9 @109441 has 1 MA's), (10, 109444), (12, 109480),

Gene: Enygma_226 Start: 109104, Stop: 109541, Start Num: 5
Candidate Starts for Enygma_226:
(2, 108981), (Start: 5 @109104 has 39 MA's), (6, 109143), (Start: 9 @109194 has 1 MA's), (12, 109233), (13, 109242),

Gene: Genie2_215 Start: 106215, Stop: 106652, Start Num: 5
Candidate Starts for Genie2_215:
(Start: 5 @106215 has 39 MA's), (6, 106254), (Start: 9 @106305 has 1 MA's), (10, 106308), (12, 106344), (20, 106428),

Gene: Gibbi_224 Start: 105733, Stop: 106170, Start Num: 5
Candidate Starts for Gibbi_224:
(3, 105685), (Start: 5 @105733 has 39 MA's), (6, 105772), (Start: 9 @105823 has 1 MA's), (10, 105826), (12, 105862),

Gene: IchabodCrane_211 Start: 105248, Stop: 105685, Start Num: 5
Candidate Starts for IchabodCrane_211:
(3, 105200), (Start: 5 @105248 has 39 MA's), (6, 105287), (Start: 9 @105338 has 1 MA's), (10, 105341), (12, 105377),

Gene: JimJam_223 Start: 107169, Stop: 107606, Start Num: 5
Candidate Starts for JimJam_223:
(3, 107121), (Start: 5 @107169 has 39 MA's), (6, 107208), (Start: 9 @107259 has 1 MA's), (10, 107262), (12, 107298),

Gene: Jollison_213 Start: 105379, Stop: 105816, Start Num: 5
Candidate Starts for Jollison_213:
(3, 105331), (Start: 5 @105379 has 39 MA's), (6, 105418), (Start: 9 @105469 has 1 MA's), (10, 105472), (12, 105508),

Gene: Karimac_217 Start: 105564, Stop: 106001, Start Num: 5
Candidate Starts for Karimac_217:
(4, 105534), (Start: 5 @105564 has 39 MA's), (6, 105603), (Start: 9 @105654 has 1 MA's), (12, 105693),

Gene: KentuckyRacer_222 Start: 107084, Stop: 107521, Start Num: 5
Candidate Starts for KentuckyRacer_222:
(3, 107036), (Start: 5 @107084 has 39 MA's), (6, 107123), (Start: 9 @107174 has 1 MA's), (10, 107177), (12, 107213),

Gene: LukeCage_221 Start: 107799, Stop: 108236, Start Num: 5
Candidate Starts for LukeCage_221:
(Start: 5 @107799 has 39 MA's), (6, 107838), (Start: 9 @107889 has 1 MA's), (10, 107892), (12, 107928),

Gene: MindFlayer_209 Start: 104764, Stop: 105201, Start Num: 5
Candidate Starts for MindFlayer_209:
(3, 104716), (Start: 5 @104764 has 39 MA's), (6, 104803), (Start: 9 @104854 has 1 MA's), (10, 104857), (12, 104893),

Gene: Mugiwara_224 Start: 108255, Stop: 108692, Start Num: 5
Candidate Starts for Mugiwara_224:
(4, 108225), (Start: 5 @108255 has 39 MA's), (6, 108294), (Start: 9 @108345 has 1 MA's), (10, 108348), (12, 108384),

Gene: PumpkinSpice_219 Start: 105985, Stop: 106422, Start Num: 5
Candidate Starts for PumpkinSpice_219:
(3, 105937), (Start: 5 @105985 has 39 MA's), (6, 106024), (Start: 9 @106075 has 1 MA's), (10, 106078), (12, 106114),

Gene: Quaran19_216 Start: 105426, Stop: 105863, Start Num: 5
Candidate Starts for Quaran19_216:
(3, 105378), (Start: 5 @105426 has 39 MA's), (6, 105465), (Start: 9 @105516 has 1 MA's), (10, 105519), (12, 105555),

Gene: Rikishi_217 Start: 105707, Stop: 106144, Start Num: 5
Candidate Starts for Rikishi_217:
(3, 105659), (Start: 5 @105707 has 39 MA's), (6, 105746), (Start: 9 @105797 has 1 MA's), (10, 105800), (12, 105836),

Gene: SaltySpitoon_216 Start: 104968, Stop: 105405, Start Num: 5
Candidate Starts for SaltySpitoon_216:
(3, 104920), (Start: 5 @104968 has 39 MA's), (6, 105007), (Start: 9 @105058 has 1 MA's), (10, 105061), (12, 105097),

Gene: Sollertia_217 Start: 106204, Stop: 106641, Start Num: 5
Candidate Starts for Sollertia_217:

(Start: 5 @106204 has 39 MA's), (6, 106243), (Start: 9 @106294 has 1 MA's), (10, 106297), (12, 106333), (20, 106417),

Gene: Spelly_221 Start: 104897, Stop: 105334, Start Num: 5
Candidate Starts for Spelly_221:
(3, 104849), (Start: 5 @104897 has 39 MA's), (6, 104936), (Start: 9 @104987 has 1 MA's), (10, 104990), (12, 105026),

Gene: Spilled_223 Start: 106101, Stop: 106538, Start Num: 5
Candidate Starts for Spilled_223:
(3, 106053), (Start: 5 @106101 has 39 MA's), (6, 106140), (Start: 9 @106191 has 1 MA's), (10, 106194), (12, 106230),

Gene: Stanimal_216 Start: 106576, Stop: 107013, Start Num: 5
Candidate Starts for Stanimal_216:
(Start: 5 @106576 has 39 MA's), (6, 106615), (Start: 9 @106666 has 1 MA's), (10, 106669), (12, 106705), (20, 106789),

Gene: StarPlatinum_225 Start: 108298, Stop: 108735, Start Num: 5
Candidate Starts for StarPlatinum_225:
(Start: 5 @108298 has 39 MA's), (6, 108337), (Start: 9 @108388 has 1 MA's), (11, 108418), (12, 108427),

Gene: Starbow_213 Start: 104941, Stop: 105378, Start Num: 5
Candidate Starts for Starbow_213:
(3, 104893), (Start: 5 @104941 has 39 MA's), (6, 104980), (Start: 9 @105031 has 1 MA's), (10, 105034), (12, 105070),

Gene: TomSawyer_220 Start: 107412, Stop: 107849, Start Num: 5
Candidate Starts for TomSawyer_220:
(3, 107364), (Start: 5 @107412 has 39 MA's), (6, 107451), (Start: 9 @107502 has 1 MA's), (10, 107505), (12, 107541),

Gene: Tomas_215 Start: 106606, Stop: 107055, Start Num: 5
Candidate Starts for Tomas_215:
(Start: 5 @106606 has 39 MA's), (6, 106645), (8, 106660), (10, 106699), (16, 106768), (28, 107002),

Gene: Tuesday_223 Start: 105952, Stop: 106389, Start Num: 5
Candidate Starts for Tuesday_223:
(3, 105904), (Start: 5 @105952 has 39 MA's), (6, 105991), (Start: 9 @106042 has 1 MA's), (10, 106045), (12, 106081),

Gene: Wipeout_207 Start: 106454, Stop: 106801, Start Num: 9
Candidate Starts for Wipeout_207:
(3, 106316), (Start: 5 @106364 has 39 MA's), (6, 106403), (Start: 9 @106454 has 1 MA's), (10, 106457), (12, 106493),

Gene: Wofford_218 Start: 109219, Stop: 109656, Start Num: 5
Candidate Starts for Wofford_218:
(Start: 5 @109219 has 39 MA's), (6, 109258), (Start: 9 @109309 has 1 MA's), (10, 109312), (12, 109348), (20, 109432),

Gene: Yaboi_221 Start: 106139, Stop: 106576, Start Num: 5

Candidate Starts for Yaboi_221:
(Start: 5 @106139 has 39 MA's), (6, 106178), (Start: 9 @106229 has 1 MA's), (10, 106232), (12, 106268), (20, 106352),

Gene: Zooman_12 Start: 5578, Stop: 6045, Start Num: 5
Candidate Starts for Zooman_12:
(Start: 5 @5578 has 39 MA's), (6, 5617), (7, 5620), (21, 5821), (23, 5884), (24, 5899), (27, 5959),

Gene: Zooman_325 Start: 181229, Stop: 181696, Start Num: 5
Candidate Starts for Zooman_325:
(Start: 5 @181229 has 39 MA's), (6, 181268), (7, 181271), (21, 181472), (23, 181535), (24, 181550), (27, 181610),