Pham 85730

1: Watermoore_246 + 14
2: PinkiePie_248 + 4
3: LilMartin_252 + 1
4: Daubenski_241
5: Jay2Jay_254 + 4
6: Mildred21_262
7: Braelyn_244 + 4
8: NootNoot_244
9: EGole_254
10: Battuta_256 + 15
11: Genie2_254 + 3
12: Elmer_275 + 1
13: StarPlatinum_268 + 1
14: Tomas_235

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 85730 Report

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

Pham number 85730 has 61 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Watermoore_246, BlueOtter_251, PacManQ_250, Leo04_250, Samisti12_250, Pepperwood_248, Tribute_244, Cross_247, HangryHippo_251, Lululemon_249, Peebs_245, Cursive_253, Teutsch_247, Larnav_258, Sushi23_249
• Track 2 : PinkiePie_248, Persimmon_250, Squillium_250, Liandry_247, Paradiddles_239
• Track 3 : LilMartin_252, Angela_256
• Track 4 : Daubenski_241
• Track 5 : Jay2Jay_254, Warpy_251, Bmoc_255, Evy_237, Targaryen_249
• Track 6 : Mildred21_262
• Track 7 : Braelyn_244, Bartholomune_248, Anedea_261, Navo_249, WhereRU_255
• Track 8 : NootNoot_244
• Track 9 : EGole_254
• Track 10 : Battuta_256, SaltySpitoon_258, Birchlyn_258, Amabiko_263, Karimac_258, PumpkinSpice_261, Bordeaux_256, MindFlayer_251, Enygma_266, TomSawyer_263, Quaran19_259, Spelly_263, JimJam_266, Spilled_266, KentuckyRacer_271, IchabodCrane_252
• Track 11 : Genie2_254, Yaboi_260, Stanimal_254, BoomerJR_254
• Track 12 : Elmer_275, Wofford_258
• Track 13 : StarPlatinum_268, LukeCage_262
• Track 14 : Tomas_255

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 50 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_263, Anedea_261, Angela_256, Bartholomune_248, Battuta_256, Birchlyn_258, BlueOtter_251, Bmoc_255, BoomerJR_254, Bordeaux_256, Braelyn_244, Cross_247, Cursive_253, Daubenski_241, EGole_254, Elmer_275, Enygma_266, Evy_237, Genie2_254, HangryHippo_251, IchabodCrane_252, Jay2Jay_254, JimJam_266, Karimac_258, KentuckyRacer_271, Larnav_258, Leo04_250, Liandry_247, LilMartin_252, LukeCage_262, Lululemon_249, Mildred21_262, MindFlayer_251, Navo_249, PacManQ_250, Paradiddles_239,

Peebs_245, Pepperwood_248, Persimmon_250, PinkiePie_248, PumpkinSpice_261, Quaran19_259, SaltySpitoon_258, Samisti12_250, Spelly_263, Spilled_266, Squillium_250, Stanimal_254, StarPlatinum_268, Sushi23_249, Targaryen_249, Teutsch_247, TomSawyer_263, Tomas_255, Tribute_244, Warpy_251, Watermoore_246, WhereRU_255, Wofford_258, Yaboi_260,

Genes that have the "Most Annotated" start but do not call it:
• NootNoot_244,

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

Summary by start number:

Start 1:
• Found in 61 of 61 (100.0%) of genes in pham
• Manual Annotations of this start: 50 of 51
• Called 98.4% of time when present
• Phage (with cluster) where this start called: Amabiko_263 (BE2), Anedea_261 (BE1), Angela_256 (BE1), Bartholomune_248 (BE1), Battuta_256 (BE2), Birchlyn_258 (BE2), BlueOtter_251 (BE1), Bmoc_255 (BE1), BoomerJR_254 (BE2), Bordeaux_256 (BE2), Braelyn_244 (BE1), Cross_247 (BE1), Cursive_253 (BE1), Daubenski_241 (BE1), EGole_254 (BE1), Elmer_275 (BE2), Enygma_266 (BE2), Evy_237 (BE1), Genie2_254 (BE2), HangryHippo_251 (BE1), IchabodCrane_252 (BE2), Jay2Jay_254 (BE1), JimJam_266 (BE2), Karimac_258 (BE2), KentuckyRacer_271 (BE2), Larnav_258 (BE1), Leo04_250 (BE1), Liandry_247 (BE1), LilMartin_252 (BE1), LukeCage_262 (BE2), Lululemon_249 (BE1), Mildred21_262 (BE1), MindFlayer_251 (BE2), Navo_249 (BE1), PacManQ_250 (BE1), Paradiddles_239 (BE1), Peebs_245 (BE1), Pepperwood_248 (BE1), Persimmon_250 (BE1), PinkiePie_248 (BE1), PumpkinSpice_261 (BE2), Quaran19_259 (BE2), SaltySpitoon_258 (BE2), Samisti12_250 (BE1), Spelly_263 (BE2), Spilled_266 (BE2), Squillium_250 (BE1), Stanimal_254 (BE2), StarPlatinum_268 (BE2), Sushi23_249 (BE1), Targaryen_249 (BE1), Teutsch_247 (BE1), TomSawyer_263 (BE2), Tomas_255 (BE2), Tribute_244 (BE1), Warpy_251 (BE1), Watermoore_246 (BE1), WhereRU_255 (BE1), Wofford_258 (BE2), Yaboi_260 (BE2),

Start 5:
• Found in 61 of 61 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 51
• Called 1.6% of time when present
• Phage (with cluster) where this start called: NootNoot_244 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:
•Start number 1 was manually annotated 27 times for cluster BE1.
•Start number 5 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 1 was manually annotated 23 times for cluster BE2.

Gene Information:

Gene: Amabiko_263 Start: 118082, Stop: 118360, Start Num: 1
Candidate Starts for Amabiko_263:
(Start: 1 @118082 has 50 MA's), (3, 118094), (4, 118109), (Start: 5 @118121 has 1 MA's), (9, 118220), (10, 118274), (11, 118334), (12, 118352),

Gene: Anedea_261 Start: 122300, Stop: 122578, Start Num: 1
Candidate Starts for Anedea_261:
(Start: 1 @122300 has 50 MA's), (Start: 5 @122339 has 1 MA's), (8, 122426), (11, 122552),

Gene: Angela_256 Start: 121640, Stop: 121918, Start Num: 1
Candidate Starts for Angela_256:
(Start: 1 @121640 has 50 MA's), (4, 121667), (Start: 5 @121679 has 1 MA's), (9, 121778), (11, 121892),

Gene: Bartholomune_248 Start: 120287, Stop: 120565, Start Num: 1
Candidate Starts for Bartholomune_248:
(Start: 1 @120287 has 50 MA's), (Start: 5 @120326 has 1 MA's), (8, 120413), (11, 120539),

Gene: Battuta_256 Start: 117397, Stop: 117675, Start Num: 1
Candidate Starts for Battuta_256:
(Start: 1 @117397 has 50 MA's), (3, 117409), (4, 117424), (Start: 5 @117436 has 1 MA's), (9, 117535), (10, 117589), (11, 117649), (12, 117667),

Gene: Birchlyn_258 Start: 115330, Stop: 115608, Start Num: 1
Candidate Starts for Birchlyn_258:
(Start: 1 @115330 has 50 MA's), (3, 115342), (4, 115357), (Start: 5 @115369 has 1 MA's), (9, 115468), (10, 115522), (11, 115582), (12, 115600),

Gene: BlueOtter_251 Start: 120309, Stop: 120587, Start Num: 1
Candidate Starts for BlueOtter_251:
(Start: 1 @120309 has 50 MA's), (Start: 5 @120348 has 1 MA's), (11, 120561),

Gene: Bmoc_255 Start: 121080, Stop: 121358, Start Num: 1
Candidate Starts for Bmoc_255:
(Start: 1 @121080 has 50 MA's), (Start: 5 @121119 has 1 MA's), (8, 121206), (10, 121272), (11, 121332),

Gene: BoomerJR_254 Start: 118002, Stop: 118280, Start Num: 1
Candidate Starts for BoomerJR_254:
(Start: 1 @118002 has 50 MA's), (4, 118029), (Start: 5 @118041 has 1 MA's), (10, 118194), (11, 118254),

Gene: Bordeaux_256 Start: 117980, Stop: 118258, Start Num: 1
Candidate Starts for Bordeaux_256:
(Start: 1 @117980 has 50 MA's), (3, 117992), (4, 118007), (Start: 5 @118019 has 1 MA's), (9, 118118), (10, 118172), (11, 118232), (12, 118250),

Gene: Braelyn_244 Start: 119621, Stop: 119899, Start Num: 1

Candidate Starts for Braelyn_244:
(Start: 1 @119621 has 50 MA's), (Start: 5 @119660 has 1 MA's), (8, 119747), (11, 119873),

Gene: Cross_247 Start: 120954, Stop: 121232, Start Num: 1
Candidate Starts for Cross_247:
(Start: 1 @120954 has 50 MA's), (Start: 5 @120993 has 1 MA's), (11, 121206),

Gene: Cursive_253 Start: 121231, Stop: 121509, Start Num: 1
Candidate Starts for Cursive_253:
(Start: 1 @121231 has 50 MA's), (Start: 5 @121270 has 1 MA's), (11, 121483),

Gene: Daubenski_241 Start: 121600, Stop: 121878, Start Num: 1
Candidate Starts for Daubenski_241:
(Start: 1 @121600 has 50 MA's), (3, 121612), (Start: 5 @121639 has 1 MA's), (6, 121645), (10, 121792), (11, 121852),

Gene: EGole_254 Start: 123532, Stop: 123810, Start Num: 1
Candidate Starts for EGole_254:
(Start: 1 @123532 has 50 MA's), (4, 123559), (Start: 5 @123571 has 1 MA's), (8, 123658), (10, 123724), (11, 123784),

Gene: Elmer_275 Start: 121618, Stop: 121896, Start Num: 1
Candidate Starts for Elmer_275:
(Start: 1 @121618 has 50 MA's), (3, 121630), (4, 121645), (Start: 5 @121657 has 1 MA's), (9, 121756), (11, 121870),

Gene: Enygma_266 Start: 121032, Stop: 121310, Start Num: 1
Candidate Starts for Enygma_266:
(Start: 1 @121032 has 50 MA's), (3, 121044), (4, 121059), (Start: 5 @121071 has 1 MA's), (9, 121170), (10, 121224), (11, 121284), (12, 121302),

Gene: Evy_237 Start: 120968, Stop: 121246, Start Num: 1
Candidate Starts for Evy_237:
(Start: 1 @120968 has 50 MA's), (Start: 5 @121007 has 1 MA's), (8, 121094), (10, 121160), (11, 121220),

Gene: Genie2_254 Start: 118127, Stop: 118405, Start Num: 1
Candidate Starts for Genie2_254:
(Start: 1 @118127 has 50 MA's), (4, 118154), (Start: 5 @118166 has 1 MA's), (10, 118319), (11, 118379),

Gene: HangryHippo_251 Start: 120309, Stop: 120587, Start Num: 1
Candidate Starts for HangryHippo_251:
(Start: 1 @120309 has 50 MA's), (Start: 5 @120348 has 1 MA's), (11, 120561),

Gene: IchabodCrane_252 Start: 117783, Stop: 118061, Start Num: 1
Candidate Starts for IchabodCrane_252:
(Start: 1 @117783 has 50 MA's), (3, 117795), (4, 117810), (Start: 5 @117822 has 1 MA's), (9, 117921), (10, 117975), (11, 118035), (12, 118053),

Gene: Jay2Jay_254 Start: 121332, Stop: 121610, Start Num: 1
Candidate Starts for Jay2Jay_254:

(Start: 1 @121332 has 50 MA's), (Start: 5 @121371 has 1 MA's), (8, 121458), (10, 121524), (11, 121584),

Gene: JimJam_266 Start: 120164, Stop: 120442, Start Num: 1
Candidate Starts for JimJam_266:
(Start: 1 @120164 has 50 MA's), (3, 120176), (4, 120191), (Start: 5 @120203 has 1 MA's), (9, 120302), (10, 120356), (11, 120416), (12, 120434),

Gene: Karimac_258 Start: 118559, Stop: 118837, Start Num: 1
Candidate Starts for Karimac_258:
(Start: 1 @118559 has 50 MA's), (3, 118571), (4, 118586), (Start: 5 @118598 has 1 MA's), (9, 118697), (10, 118751), (11, 118811), (12, 118829),

Gene: KentuckyRacer_271 Start: 120079, Stop: 120357, Start Num: 1
Candidate Starts for KentuckyRacer_271:
(Start: 1 @120079 has 50 MA's), (3, 120091), (4, 120106), (Start: 5 @120118 has 1 MA's), (9, 120217), (10, 120271), (11, 120331), (12, 120349),

Gene: Larnav_258 Start: 121227, Stop: 121505, Start Num: 1
Candidate Starts for Larnav_258:
(Start: 1 @121227 has 50 MA's), (Start: 5 @121266 has 1 MA's), (11, 121479),

Gene: Leo04_250 Start: 121340, Stop: 121618, Start Num: 1
Candidate Starts for Leo04_250:
(Start: 1 @121340 has 50 MA's), (Start: 5 @121379 has 1 MA's), (11, 121592),

Gene: Liandry_247 Start: 120708, Stop: 120986, Start Num: 1
Candidate Starts for Liandry_247:
(Start: 1 @120708 has 50 MA's), (Start: 5 @120747 has 1 MA's), (10, 120900), (11, 120960),

Gene: LilMartin_252 Start: 120580, Stop: 120858, Start Num: 1
Candidate Starts for LilMartin_252:
(Start: 1 @120580 has 50 MA's), (4, 120607), (Start: 5 @120619 has 1 MA's), (9, 120718), (11, 120832),

Gene: LukeCage_262 Start: 120165, Stop: 120443, Start Num: 1
Candidate Starts for LukeCage_262:
(Start: 1 @120165 has 50 MA's), (3, 120177), (Start: 5 @120204 has 1 MA's), (9, 120303), (10, 120357), (11, 120417),

Gene: Lululemon_249 Start: 120114, Stop: 120392, Start Num: 1
Candidate Starts for Lululemon_249:
(Start: 1 @120114 has 50 MA's), (Start: 5 @120153 has 1 MA's), (11, 120366),

Gene: Mildred21_262 Start: 120406, Stop: 120684, Start Num: 1
Candidate Starts for Mildred21_262:
(Start: 1 @120406 has 50 MA's), (3, 120418), (4, 120433), (Start: 5 @120445 has 1 MA's), (7, 120502), (9, 120544), (11, 120658),

Gene: MindFlayer_251 Start: 117299, Stop: 117577, Start Num: 1
Candidate Starts for MindFlayer_251:
(Start: 1 @117299 has 50 MA's), (3, 117311), (4, 117326), (Start: 5 @117338 has 1 MA's), (9, 117437), (10, 117491), (11, 117551), (12, 117569),

Gene: Navo_249 Start: 118825, Stop: 119103, Start Num: 1
Candidate Starts for Navo_249:
(Start: 1 @118825 has 50 MA's), (Start: 5 @118864 has 1 MA's), (8, 118951), (11, 119077),

Gene: NootNoot_244 Start: 119559, Stop: 119798, Start Num: 5
Candidate Starts for NootNoot_244:
(Start: 1 @119520 has 50 MA's), (Start: 5 @119559 has 1 MA's), (10, 119712), (11, 119772),

Gene: PacManQ_250 Start: 120114, Stop: 120392, Start Num: 1
Candidate Starts for PacManQ_250:
(Start: 1 @120114 has 50 MA's), (Start: 5 @120153 has 1 MA's), (11, 120366),

Gene: Paradiddles_239 Start: 121895, Stop: 122173, Start Num: 1
Candidate Starts for Paradiddles_239:
(Start: 1 @121895 has 50 MA's), (Start: 5 @121934 has 1 MA's), (10, 122087), (11, 122147),

Gene: Peebs_245 Start: 121198, Stop: 121476, Start Num: 1
Candidate Starts for Peebs_245:
(Start: 1 @121198 has 50 MA's), (Start: 5 @121237 has 1 MA's), (11, 121450),

Gene: Pepperwood_248 Start: 121006, Stop: 121284, Start Num: 1
Candidate Starts for Pepperwood_248:
(Start: 1 @121006 has 50 MA's), (Start: 5 @121045 has 1 MA's), (11, 121258),

Gene: Persimmon_250 Start: 120022, Stop: 120300, Start Num: 1
Candidate Starts for Persimmon_250:
(Start: 1 @120022 has 50 MA's), (Start: 5 @120061 has 1 MA's), (10, 120214), (11, 120274),

Gene: PinkiePie_248 Start: 120708, Stop: 120986, Start Num: 1
Candidate Starts for PinkiePie_248:
(Start: 1 @120708 has 50 MA's), (Start: 5 @120747 has 1 MA's), (10, 120900), (11, 120960),

Gene: PumpkinSpice_261 Start: 118520, Stop: 118798, Start Num: 1
Candidate Starts for PumpkinSpice_261:
(Start: 1 @118520 has 50 MA's), (3, 118532), (4, 118547), (Start: 5 @118559 has 1 MA's), (9, 118658), (10, 118712), (11, 118772), (12, 118790),

Gene: Quaran19_259 Start: 118421, Stop: 118699, Start Num: 1
Candidate Starts for Quaran19_259:
(Start: 1 @118421 has 50 MA's), (3, 118433), (4, 118448), (Start: 5 @118460 has 1 MA's), (9, 118559), (10, 118613), (11, 118673), (12, 118691),

Gene: SaltySpitoon_258 Start: 117503, Stop: 117781, Start Num: 1
Candidate Starts for SaltySpitoon_258:
(Start: 1 @117503 has 50 MA's), (3, 117515), (4, 117530), (Start: 5 @117542 has 1 MA's), (9, 117641), (10, 117695), (11, 117755), (12, 117773),

Gene: Samisti12_250 Start: 122263, Stop: 122541, Start Num: 1
Candidate Starts for Samisti12_250:
(Start: 1 @122263 has 50 MA's), (Start: 5 @122302 has 1 MA's), (11, 122515),

Gene: Spelly_263 Start: 117432, Stop: 117710, Start Num: 1

Candidate Starts for Spelly_263:
(Start: 1 @117432 has 50 MA's), (3, 117444), (4, 117459), (Start: 5 @117471 has 1 MA's), (9, 117570), (10, 117624), (11, 117684), (12, 117702),

Gene: Spilled_266 Start: 119096, Stop: 119374, Start Num: 1
Candidate Starts for Spilled_266:
(Start: 1 @119096 has 50 MA's), (3, 119108), (4, 119123), (Start: 5 @119135 has 1 MA's), (9, 119234), (10, 119288), (11, 119348), (12, 119366),

Gene: Squillium_250 Start: 120710, Stop: 120988, Start Num: 1
Candidate Starts for Squillium_250:
(Start: 1 @120710 has 50 MA's), (Start: 5 @120749 has 1 MA's), (10, 120902), (11, 120962),

Gene: Stanimal_254 Start: 118488, Stop: 118766, Start Num: 1
Candidate Starts for Stanimal_254:
(Start: 1 @118488 has 50 MA's), (4, 118515), (Start: 5 @118527 has 1 MA's), (10, 118680), (11, 118740),

Gene: StarPlatinum_268 Start: 120941, Stop: 121219, Start Num: 1
Candidate Starts for StarPlatinum_268:
(Start: 1 @120941 has 50 MA's), (3, 120953), (Start: 5 @120980 has 1 MA's), (9, 121079), (10, 121133), (11, 121193),

Gene: Sushi23_249 Start: 122064, Stop: 122342, Start Num: 1
Candidate Starts for Sushi23_249:
(Start: 1 @122064 has 50 MA's), (Start: 5 @122103 has 1 MA's), (11, 122316),

Gene: Targaryen_249 Start: 122914, Stop: 123192, Start Num: 1
Candidate Starts for Targaryen_249:
(Start: 1 @122914 has 50 MA's), (Start: 5 @122953 has 1 MA's), (8, 123040), (10, 123106), (11, 123166),

Gene: Teutsch_247 Start: 121429, Stop: 121707, Start Num: 1
Candidate Starts for Teutsch_247:
(Start: 1 @121429 has 50 MA's), (Start: 5 @121468 has 1 MA's), (11, 121681),

Gene: TomSawyer_263 Start: 120407, Stop: 120685, Start Num: 1
Candidate Starts for TomSawyer_263:
(Start: 1 @120407 has 50 MA's), (3, 120419), (4, 120434), (Start: 5 @120446 has 1 MA's), (9, 120545), (10, 120599), (11, 120659), (12, 120677),

Gene: Tomas_255 Start: 121025, Stop: 121303, Start Num: 1
Candidate Starts for Tomas_255:
(Start: 1 @121025 has 50 MA's), (2, 121028), (4, 121052), (Start: 5 @121064 has 1 MA's), (10, 121217), (11, 121277),

Gene: Tribute_244 Start: 121764, Stop: 122042, Start Num: 1
Candidate Starts for Tribute_244:
(Start: 1 @121764 has 50 MA's), (Start: 5 @121803 has 1 MA's), (11, 122016),

Gene: Warpy_251 Start: 120777, Stop: 121055, Start Num: 1
Candidate Starts for Warpy_251:

(Start: 1 @120777 has 50 MA's), (Start: 5 @120816 has 1 MA's), (8, 120903), (10, 120969), (11, 121029),

Gene: Watermoore_246 Start: 121818, Stop: 122096, Start Num: 1
Candidate Starts for Watermoore_246:
(Start: 1 @121818 has 50 MA's), (Start: 5 @121857 has 1 MA's), (11, 122070),

Gene: WhereRU_255 Start: 120356, Stop: 120634, Start Num: 1
Candidate Starts for WhereRU_255:
(Start: 1 @120356 has 50 MA's), (Start: 5 @120395 has 1 MA's), (8, 120482), (11, 120608),

Gene: Wofford_258 Start: 121060, Stop: 121338, Start Num: 1
Candidate Starts for Wofford_258:
(Start: 1 @121060 has 50 MA's), (3, 121072), (4, 121087), (Start: 5 @121099 has 1 MA's), (9, 121198), (11, 121312),

Gene: Yaboi_260 Start: 118051, Stop: 118329, Start Num: 1
Candidate Starts for Yaboi_260:
(Start: 1 @118051 has 50 MA's), (4, 118078), (Start: 5 @118090 has 1 MA's), (10, 118243), (11, 118303),