Pham 347730


1
5
7
10
16
17
18
19
1: Brewer_95 + 41
1
5
7
10
16
17
18
19
2: Czyszczon1_100 + 1
4
9
13
14
16
25
28
29
3: Squash_60 + 1
3
9
12
16
23
4: RunningOnB_48
3
6
11
14
15
21
24
27
30
5: Ibantik_68
2
5
8
20
22
26
6: RunningOnE_58

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 347730 Report

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

Pham number 347730 has 49 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Brewer_95, Rakim_100, TBrady12_102, Marshmallow_96, Inca_96, Kimchi_103, Command613_101, 244_100, Stank_101, DoctorDiddles_98, Asriel_97, Phaja_97, Barbarian_98, Holt_104, BigBubba_99, Argent26_103, GooberAzure_102, Xandras_98, IHOP_97, Myrale_99, Gage_101, NonchalantPear_99, Easy2Say_99, GoldenSpark_103, Harella_99, Nimrod_99, MollyToe_94, Icee_100, Balomoji_99, Wiggin_101, xkcd_102, YassJohnny_96, Thimble_101, Kostya_99, Youngblood_102, AmericanBeauty_103, Gemini_104, Traaww1_95, Flypotenuse_95, Glexan_98, Bask21_99, Adnama_103
• Track 2 : Czyszczon1_100, Gator_97
• Track 3 : Squash_60, Blab_54
• Track 4 : RunningOnE_48
• Track 5 : Ibantik_68
• Track 6 : RunningOnE_58

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 43 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_100, Adnama_103, AmericanBeauty_103, Argent26_103, Asriel_97, Balomoji_99, Barbarian_98, Bask21_99, BigBubba_99, Brewer_95, Command613_101, DoctorDiddles_98, Easy2Say_99, Flypotenuse_95, Gage_101, Gemini_104, Glexan_98, GoldenSpark_103, GooberAzure_102, Harella_99, Holt_104, IHOP_97, Icee_100, Inca_96, Kimchi_103, Kostya_99, Marshmallow_96, MollyToe_94, Myrale_99, Nimrod_99, NonchalantPear_99, Phaja_97, Rakim_100, RunningOnE_58, Stank_101, TBrady12_102, Thimble_101, Traaww1_95, Wiggin_101, Xandras_98, YassJohnny_96, Youngblood_102, xkcd_102,

Genes that have the "Most Annotated" start but do not call it:
• Czyszczon1_100, Gator_97,

Genes that do not have the "Most Annotated" start:
• Blab_54, Ibantik_68, RunningOnE_48, Squash_60,

Summary by start number:

Start 1:
• Found in 44 of 49 (89.8%) of genes in pham
• Manual Annotations of this start: 2 of 49
• Called 4.5% of time when present
• Phage (with cluster) where this start called: Czyszczon1_100 (E), Gator_97 (E),

Start 3:
• Found in 2 of 49 (4.1%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 50.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_48 (JN),

Start 4:
• Found in 2 of 49 (4.1%) of genes in pham
• Manual Annotations of this start: 2 of 49
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Blab_54 (EG), Squash_60 (EG),

Start 5:
• Found in 45 of 49 (91.8%) of genes in pham
• Manual Annotations of this start: 43 of 49
• Called 95.6% of time when present
• Phage (with cluster) where this start called: 244_100 (E), Adnama_103 (E), AmericanBeauty_103 (E), Argent26_103 (E), Asriel_97 (E), Balomoji_99 (E), Barbarian_98 (E), Bask21_99 (E), BigBubba_99 (E), Brewer_95 (E), Command613_101 (E), DoctorDiddles_98 (E), Easy2Say_99 (E), Flypotenuse_95 (E), Gage_101 (E), Gemini_104 (E), Glexan_98 (E), GoldenSpark_103 (E), GooberAzure_102 (E), Harella_99 (E), Holt_104 (E), IHOP_97 (E), Icee_100 (E), Inca_96 (E), Kimchi_103 (E), Kostya_99 (E), Marshmallow_96 (E), MollyToe_94 (E), Myrale_99 (E), Nimrod_99 (E), NonchalantPear_99 (E), Phaja_97 (E), Rakim_100 (E), RunningOnE_58 (JN), Stank_101 (E), TBrady12_102 (E), Thimble_101 (E), Traaww1_95 (E), Wiggin_101 (E), Xandras_98 (E), YassJohnny_96 (E), Youngblood_102 (E), xkcd_102 (E),

Start 6:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ibantik_68 (JN),

Summary by clusters:

There are 3 clusters represented in this pham: JN, E, EG,

Info for manual annotations of cluster E:
•Start number 1 was manually annotated 2 times for cluster E.
•Start number 5 was manually annotated 42 times for cluster E.

Info for manual annotations of cluster EG:
•Start number 4 was manually annotated 2 times for cluster EG.

Info for manual annotations of cluster JN:
•Start number 3 was manually annotated 1 time for cluster JN.
•Start number 5 was manually annotated 1 time for cluster JN.
•Start number 6 was manually annotated 1 time for cluster JN.

Gene Information:

Gene: 244_100 Start: 58683, Stop: 59246, Start Num: 5
Candidate Starts for 244_100:
(Start: 1 @58608 has 2 MA's), (Start: 5 @58683 has 43 MA's), (7, 58770), (10, 58878), (16, 58986), (17, 59004), (18, 59007), (19, 59052),

Gene: Adnama_103 Start: 58978, Stop: 59541, Start Num: 5
Candidate Starts for Adnama_103:
(Start: 1 @58903 has 2 MA's), (Start: 5 @58978 has 43 MA's), (7, 59065), (10, 59173), (16, 59281), (17, 59299), (18, 59302), (19, 59347),

Gene: AmericanBeauty_103 Start: 59218, Stop: 59781, Start Num: 5
Candidate Starts for AmericanBeauty_103:
(Start: 1 @59143 has 2 MA's), (Start: 5 @59218 has 43 MA's), (7, 59305), (10, 59413), (16, 59521), (17, 59539), (18, 59542), (19, 59587),

Gene: Argent26_103 Start: 58902, Stop: 59465, Start Num: 5
Candidate Starts for Argent26_103:
(Start: 1 @58827 has 2 MA's), (Start: 5 @58902 has 43 MA's), (7, 58989), (10, 59097), (16, 59205), (17, 59223), (18, 59226), (19, 59271),

Gene: Asriel_97 Start: 57315, Stop: 57878, Start Num: 5
Candidate Starts for Asriel_97:
(Start: 1 @57240 has 2 MA's), (Start: 5 @57315 has 43 MA's), (7, 57402), (10, 57510), (16, 57618), (17, 57636), (18, 57639), (19, 57684),

Gene: Balomoji_99 Start: 59098, Stop: 59661, Start Num: 5
Candidate Starts for Balomoji_99:
(Start: 1 @59023 has 2 MA's), (Start: 5 @59098 has 43 MA's), (7, 59185), (10, 59293), (16, 59401), (17, 59419), (18, 59422), (19, 59467),

Gene: Barbarian_98 Start: 57315, Stop: 57878, Start Num: 5
Candidate Starts for Barbarian_98:
(Start: 1 @57240 has 2 MA's), (Start: 5 @57315 has 43 MA's), (7, 57402), (10, 57510), (16, 57618), (17, 57636), (18, 57639), (19, 57684),

Gene: Bask21_99 Start: 57954, Stop: 58517, Start Num: 5
Candidate Starts for Bask21_99:
(Start: 1 @57879 has 2 MA's), (Start: 5 @57954 has 43 MA's), (7, 58041), (10, 58149), (16, 58257), (17, 58275), (18, 58278), (19, 58323),

Gene: BigBubba_99 Start: 58010, Stop: 58573, Start Num: 5
Candidate Starts for BigBubba_99:

(Start: 1 @57935 has 2 MA's), (Start: 5 @58010 has 43 MA's), (7, 58097), (10, 58205), (16, 58313), (17, 58331), (18, 58334), (19, 58379),

Gene: Blab_54 Start: 42170, Stop: 41670, Start Num: 4
Candidate Starts for Blab_54:
(Start: 4 @42170 has 2 MA's), (9, 42053), (13, 41930), (14, 41903), (16, 41879), (25, 41714), (28, 41678), (29, 41675),

Gene: Brewer_95 Start: 57836, Stop: 58399, Start Num: 5
Candidate Starts for Brewer_95:
(Start: 1 @57761 has 2 MA's), (Start: 5 @57836 has 43 MA's), (7, 57923), (10, 58031), (16, 58139), (17, 58157), (18, 58160), (19, 58205),

Gene: Command613_101 Start: 59112, Stop: 59675, Start Num: 5
Candidate Starts for Command613_101:
(Start: 1 @59037 has 2 MA's), (Start: 5 @59112 has 43 MA's), (7, 59199), (10, 59307), (16, 59415), (17, 59433), (18, 59436), (19, 59481),

Gene: Czyszczon1_100 Start: 58822, Stop: 59460, Start Num: 1
Candidate Starts for Czyszczon1_100:
(Start: 1 @58822 has 2 MA's), (Start: 5 @58897 has 43 MA's), (7, 58984), (10, 59092), (16, 59200), (17, 59218), (18, 59221), (19, 59266),

Gene: DoctorDiddles_98 Start: 58360, Stop: 58923, Start Num: 5
Candidate Starts for DoctorDiddles_98:
(Start: 1 @58285 has 2 MA's), (Start: 5 @58360 has 43 MA's), (7, 58447), (10, 58555), (16, 58663), (17, 58681), (18, 58684), (19, 58729),

Gene: Easy2Say_99 Start: 59369, Stop: 59932, Start Num: 5
Candidate Starts for Easy2Say_99:
(Start: 1 @59294 has 2 MA's), (Start: 5 @59369 has 43 MA's), (7, 59456), (10, 59564), (16, 59672), (17, 59690), (18, 59693), (19, 59738),

Gene: Flypotenuse_95 Start: 57969, Stop: 58532, Start Num: 5
Candidate Starts for Flypotenuse_95:
(Start: 1 @57894 has 2 MA's), (Start: 5 @57969 has 43 MA's), (7, 58056), (10, 58164), (16, 58272), (17, 58290), (18, 58293), (19, 58338),

Gene: Gage_101 Start: 59040, Stop: 59603, Start Num: 5
Candidate Starts for Gage_101:
(Start: 1 @58965 has 2 MA's), (Start: 5 @59040 has 43 MA's), (7, 59127), (10, 59235), (16, 59343), (17, 59361), (18, 59364), (19, 59409),

Gene: Gator_97 Start: 58750, Stop: 59388, Start Num: 1
Candidate Starts for Gator_97:
(Start: 1 @58750 has 2 MA's), (Start: 5 @58825 has 43 MA's), (7, 58912), (10, 59020), (16, 59128), (17, 59146), (18, 59149), (19, 59194),

Gene: Gemini_104 Start: 59419, Stop: 59982, Start Num: 5
Candidate Starts for Gemini_104:
(Start: 1 @59344 has 2 MA's), (Start: 5 @59419 has 43 MA's), (7, 59506), (10, 59614), (16, 59722), (17, 59740), (18, 59743), (19, 59788),

Gene: Glexan_98 Start: 59099, Stop: 59662, Start Num: 5
Candidate Starts for Glexan_98:
(Start: 1 @59024 has 2 MA's), (Start: 5 @59099 has 43 MA's), (7, 59186), (10, 59294), (16, 59402), (17, 59420), (18, 59423), (19, 59468),

Gene: GoldenSpark_103 Start: 58902, Stop: 59465, Start Num: 5
Candidate Starts for GoldenSpark_103:
(Start: 1 @58827 has 2 MA's), (Start: 5 @58902 has 43 MA's), (7, 58989), (10, 59097), (16, 59205), (17, 59223), (18, 59226), (19, 59271),

Gene: GooberAzure_102 Start: 58902, Stop: 59465, Start Num: 5
Candidate Starts for GooberAzure_102:
(Start: 1 @58827 has 2 MA's), (Start: 5 @58902 has 43 MA's), (7, 58989), (10, 59097), (16, 59205), (17, 59223), (18, 59226), (19, 59271),

Gene: Harella_99 Start: 59615, Stop: 60178, Start Num: 5
Candidate Starts for Harella_99:
(Start: 1 @59540 has 2 MA's), (Start: 5 @59615 has 43 MA's), (7, 59702), (10, 59810), (16, 59918), (17, 59936), (18, 59939), (19, 59984),

Gene: Holt_104 Start: 59316, Stop: 59879, Start Num: 5
Candidate Starts for Holt_104:
(Start: 1 @59241 has 2 MA's), (Start: 5 @59316 has 43 MA's), (7, 59403), (10, 59511), (16, 59619), (17, 59637), (18, 59640), (19, 59685),

Gene: IHOP_97 Start: 58618, Stop: 59181, Start Num: 5
Candidate Starts for IHOP_97:
(Start: 1 @58543 has 2 MA's), (Start: 5 @58618 has 43 MA's), (7, 58705), (10, 58813), (16, 58921), (17, 58939), (18, 58942), (19, 58987),

Gene: Ibantik_68 Start: 30229, Stop: 30804, Start Num: 6
Candidate Starts for Ibantik_68:
(Start: 3 @30199 has 1 MA's), (Start: 6 @30229 has 1 MA's), (11, 30421), (14, 30502), (15, 30526), (21, 30676), (24, 30727), (27, 30760), (30, 30784),

Gene: Icee_100 Start: 58426, Stop: 58989, Start Num: 5
Candidate Starts for Icee_100:
(Start: 1 @58351 has 2 MA's), (Start: 5 @58426 has 43 MA's), (7, 58513), (10, 58621), (16, 58729), (17, 58747), (18, 58750), (19, 58795),

Gene: Inca_96 Start: 57107, Stop: 57670, Start Num: 5
Candidate Starts for Inca_96:
(Start: 1 @57032 has 2 MA's), (Start: 5 @57107 has 43 MA's), (7, 57194), (10, 57302), (16, 57410), (17, 57428), (18, 57431), (19, 57476),

Gene: Kimchi_103 Start: 59043, Stop: 59606, Start Num: 5
Candidate Starts for Kimchi_103:
(Start: 1 @58968 has 2 MA's), (Start: 5 @59043 has 43 MA's), (7, 59130), (10, 59238), (16, 59346), (17, 59364), (18, 59367), (19, 59412),

Gene: Kostya_99 Start: 58720, Stop: 59283, Start Num: 5
Candidate Starts for Kostya_99:

(Start: 1 @58645 has 2 MA's), (Start: 5 @58720 has 43 MA's), (7, 58807), (10, 58915), (16, 59023), (17, 59041), (18, 59044), (19, 59089),

Gene: Marshmallow_96 Start: 59240, Stop: 59803, Start Num: 5
Candidate Starts for Marshmallow_96:
(Start: 1 @59165 has 2 MA's), (Start: 5 @59240 has 43 MA's), (7, 59327), (10, 59435), (16, 59543), (17, 59561), (18, 59564), (19, 59609),

Gene: MollyToe_94 Start: 57139, Stop: 57702, Start Num: 5
Candidate Starts for MollyToe_94:
(Start: 1 @57064 has 2 MA's), (Start: 5 @57139 has 43 MA's), (7, 57226), (10, 57334), (16, 57442), (17, 57460), (18, 57463), (19, 57508),

Gene: Myrale_99 Start: 59400, Stop: 59963, Start Num: 5
Candidate Starts for Myrale_99:
(Start: 1 @59325 has 2 MA's), (Start: 5 @59400 has 43 MA's), (7, 59487), (10, 59595), (16, 59703), (17, 59721), (18, 59724), (19, 59769),

Gene: Nimrod_99 Start: 59367, Stop: 59930, Start Num: 5
Candidate Starts for Nimrod_99:
(Start: 1 @59292 has 2 MA's), (Start: 5 @59367 has 43 MA's), (7, 59454), (10, 59562), (16, 59670), (17, 59688), (18, 59691), (19, 59736),

Gene: NonchalantPear_99 Start: 57995, Stop: 58558, Start Num: 5
Candidate Starts for NonchalantPear_99:
(Start: 1 @57920 has 2 MA's), (Start: 5 @57995 has 43 MA's), (7, 58082), (10, 58190), (16, 58298), (17, 58316), (18, 58319), (19, 58364),

Gene: Phaja_97 Start: 58620, Stop: 59183, Start Num: 5
Candidate Starts for Phaja_97:
(Start: 1 @58545 has 2 MA's), (Start: 5 @58620 has 43 MA's), (7, 58707), (10, 58815), (16, 58923), (17, 58941), (18, 58944), (19, 58989),

Gene: Rakim_100 Start: 58852, Stop: 59415, Start Num: 5
Candidate Starts for Rakim_100:
(Start: 1 @58777 has 2 MA's), (Start: 5 @58852 has 43 MA's), (7, 58939), (10, 59047), (16, 59155), (17, 59173), (18, 59176), (19, 59221),

Gene: RunningOnE_48 Start: 22576, Stop: 22007, Start Num: 3
Candidate Starts for RunningOnE_48:
(Start: 3 @22576 has 1 MA's), (9, 22438), (12, 22360), (16, 22261), (23, 22075),

Gene: RunningOnE_58 Start: 27884, Stop: 27333, Start Num: 5
Candidate Starts for RunningOnE_58:
(2, 27956), (Start: 5 @27884 has 43 MA's), (8, 27770), (20, 27434), (22, 27416), (26, 27359),

Gene: Squash_60 Start: 43129, Stop: 42629, Start Num: 4
Candidate Starts for Squash_60:
(Start: 4 @43129 has 2 MA's), (9, 43012), (13, 42889), (14, 42862), (16, 42838), (25, 42673), (28, 42637), (29, 42634),

Gene: Stank_101 Start: 59115, Stop: 59678, Start Num: 5
Candidate Starts for Stank_101:

(Start: 1 @59040 has 2 MA's), (Start: 5 @59115 has 43 MA's), (7, 59202), (10, 59310), (16, 59418), (17, 59436), (18, 59439), (19, 59484),

Gene: TBrady12_102 Start: 58555, Stop: 59118, Start Num: 5
Candidate Starts for TBrady12_102:
(Start: 1 @58480 has 2 MA's), (Start: 5 @58555 has 43 MA's), (7, 58642), (10, 58750), (16, 58858), (17, 58876), (18, 58879), (19, 58924),

Gene: Thimble_101 Start: 58305, Stop: 58868, Start Num: 5
Candidate Starts for Thimble_101:
(Start: 1 @58230 has 2 MA's), (Start: 5 @58305 has 43 MA's), (7, 58392), (10, 58500), (16, 58608), (17, 58626), (18, 58629), (19, 58674),

Gene: Traaww1_95 Start: 58144, Stop: 58707, Start Num: 5
Candidate Starts for Traaww1_95:
(Start: 1 @58069 has 2 MA's), (Start: 5 @58144 has 43 MA's), (7, 58231), (10, 58339), (16, 58447), (17, 58465), (18, 58468), (19, 58513),

Gene: Wiggin_101 Start: 58545, Stop: 59108, Start Num: 5
Candidate Starts for Wiggin_101:
(Start: 1 @58470 has 2 MA's), (Start: 5 @58545 has 43 MA's), (7, 58632), (10, 58740), (16, 58848), (17, 58866), (18, 58869), (19, 58914),

Gene: Xandras_98 Start: 58368, Stop: 58931, Start Num: 5
Candidate Starts for Xandras_98:
(Start: 1 @58293 has 2 MA's), (Start: 5 @58368 has 43 MA's), (7, 58455), (10, 58563), (16, 58671), (17, 58689), (18, 58692), (19, 58737),

Gene: YassJohnny_96 Start: 57688, Stop: 58251, Start Num: 5
Candidate Starts for YassJohnny_96:
(Start: 1 @57613 has 2 MA's), (Start: 5 @57688 has 43 MA's), (7, 57775), (10, 57883), (16, 57991), (17, 58009), (18, 58012), (19, 58057),

Gene: Youngblood_102 Start: 59838, Stop: 60401, Start Num: 5
Candidate Starts for Youngblood_102:
(Start: 1 @59763 has 2 MA's), (Start: 5 @59838 has 43 MA's), (7, 59925), (10, 60033), (16, 60141), (17, 60159), (18, 60162), (19, 60207),

Gene: xkcd_102 Start: 60022, Stop: 60585, Start Num: 5
Candidate Starts for xkcd_102:
(Start: 1 @59947 has 2 MA's), (Start: 5 @60022 has 43 MA's), (7, 60109), (10, 60217), (16, 60325), (17, 60343), (18, 60346), (19, 60391),