Pham 283892

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 283892 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283892 has 52 members, 3 are drafts.

Phages represented in each track:
• Track 1 : BrutonGaster_37
• Track 2 : BrutonGaster_127
• Track 3 : JonJames_167, Yvonnetastic_162
• Track 4 : Yvonnetastic_46, JonJames_48
• Track 5 : Malisha_15
• Track 6 : TBrady12_102, Marshmallow_96, Inca_96, Kimchi_103, Command613_101, 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, Easy2Say_99, Icee_100, Kostya_99, Harella_99, Nimrod_99, Balomoji_99, GoldenSpark_103, Wiggin_101, xkcd_102, YassJohnny_96, Thimble_101, 244_100, Rakim_100, Youngblood_102, AmericanBeauty_103, Gemini_104, Traaww1_95, Flypotenuse_95, Glexan_98, Bask21_99, Adnama_103
• Track 7 : Czyszczon1_100, Gator_97
• Track 8 : BarnCat_6
• Track 9 : RunningOnE_62
• Track 10 : RunningOnE_26
• Track 11 : Stellammi_165

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

The start number called the most often in the published annotations is 30, it was called in 39 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, 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, Myrale_99, Nimrod_99, Phaja_97, Rakim_100, 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, RunningOnE_62,

Genes that do not have the "Most Annotated" start:
• BarnCat_6, BrutonGaster_127, BrutonGaster_37, JonJames_167, JonJames_48, Malisha_15, RunningOnE_26, Stellammi_165, Yvonnetastic_162, Yvonnetastic_46,

Summary by start number:

Start 4:
• Found in 2 of 52 (3.8%) 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: JonJames_48 (DD), Yvonnetastic_46 (DD),

Start 7:
• Found in 1 of 52 (1.9%) 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: BarnCat_6 (GB),

Start 8:
• Found in 1 of 52 (1.9%) 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: BrutonGaster_37 (CQ2),

Start 14:
• Found in 1 of 52 (1.9%) 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: BrutonGaster_127 (CQ2),

Start 18:
• Found in 1 of 52 (1.9%) 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: Malisha_15 (DN),

Start 19:
• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_26 (UNK),

Start 22:
• Found in 41 of 52 (78.8%) of genes in pham
• Manual Annotations of this start: 2 of 49
• Called 4.9% of time when present
• Phage (with cluster) where this start called: Czyszczon1_100 (E), Gator_97 (E),

Start 23:

• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RunningOnE_62 (UNK),

Start 26:
• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_165 (UNK),

Start 27:
• Found in 2 of 52 (3.8%) 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: JonJames_167 (DD), Yvonnetastic_162 (DD),

Start 30:
• Found in 42 of 52 (80.8%) of genes in pham
• Manual Annotations of this start: 39 of 49
• Called 92.9% 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), 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), Myrale_99 (E), Nimrod_99 (E), Phaja_97 (E), Rakim_100 (E), 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),

Summary by clusters:

There are 6 clusters represented in this pham: DN, E, DD, GB, CQ2, UNK,

Info for manual annotations of cluster CQ2:
•Start number 8 was manually annotated 1 time for cluster CQ2.
•Start number 14 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:
•Start number 4 was manually annotated 2 times for cluster DD.
•Start number 27 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DN:
•Start number 18 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster E:
•Start number 22 was manually annotated 2 times for cluster E.
•Start number 30 was manually annotated 39 times for cluster E.

Info for manual annotations of cluster GB:

•Start number 7 was manually annotated 1 time for cluster GB.

Gene Information:
Gene: 244_100 Start: 58683, Stop: 59246, Start Num: 30
Candidate Starts for 244_100:
(Start: 22 @58608 has 2 MA's), (Start: 30 @58683 has 39 MA's), (39, 58770), (52, 58878), (65, 58986), (69, 59004), (70, 59007), (71, 59052),

Gene: Adnama_103 Start: 58978, Stop: 59541, Start Num: 30
Candidate Starts for Adnama_103:
(Start: 22 @58903 has 2 MA's), (Start: 30 @58978 has 39 MA's), (39, 59065), (52, 59173), (65, 59281), (69, 59299), (70, 59302), (71, 59347),

Gene: AmericanBeauty_103 Start: 59218, Stop: 59781, Start Num: 30
Candidate Starts for AmericanBeauty_103:
(Start: 22 @59143 has 2 MA's), (Start: 30 @59218 has 39 MA's), (39, 59305), (52, 59413), (65, 59521), (69, 59539), (70, 59542), (71, 59587),

Gene: Argent26_103 Start: 58902, Stop: 59465, Start Num: 30
Candidate Starts for Argent26_103:
(Start: 22 @58827 has 2 MA's), (Start: 30 @58902 has 39 MA's), (39, 58989), (52, 59097), (65, 59205), (69, 59223), (70, 59226), (71, 59271),

Gene: Asriel_97 Start: 57315, Stop: 57878, Start Num: 30
Candidate Starts for Asriel_97:
(Start: 22 @57240 has 2 MA's), (Start: 30 @57315 has 39 MA's), (39, 57402), (52, 57510), (65, 57618), (69, 57636), (70, 57639), (71, 57684),

Gene: Balomoji_99 Start: 59098, Stop: 59661, Start Num: 30
Candidate Starts for Balomoji_99:
(Start: 22 @59023 has 2 MA's), (Start: 30 @59098 has 39 MA's), (39, 59185), (52, 59293), (65, 59401), (69, 59419), (70, 59422), (71, 59467),

Gene: Barbarian_98 Start: 57315, Stop: 57878, Start Num: 30
Candidate Starts for Barbarian_98:
(Start: 22 @57240 has 2 MA's), (Start: 30 @57315 has 39 MA's), (39, 57402), (52, 57510), (65, 57618), (69, 57636), (70, 57639), (71, 57684),

Gene: BarnCat_6 Start: 1575, Stop: 2393, Start Num: 7
Candidate Starts for BarnCat_6:
(Start: 7 @1575 has 1 MA's), (11, 1623), (29, 1779), (51, 2034), (57, 2082), (62, 2133), (66, 2163), (79, 2256), (80, 2262), (84, 2298), (89, 2334),

Gene: Bask21_99 Start: 57954, Stop: 58517, Start Num: 30
Candidate Starts for Bask21_99:
(Start: 22 @57879 has 2 MA's), (Start: 30 @57954 has 39 MA's), (39, 58041), (52, 58149), (65, 58257), (69, 58275), (70, 58278), (71, 58323),

Gene: BigBubba_99 Start: 58010, Stop: 58573, Start Num: 30

Candidate Starts for BigBubba_99:
(Start: 22 @57935 has 2 MA's), (Start: 30 @58010 has 39 MA's), (39, 58097), (52, 58205), (65, 58313), (69, 58331), (70, 58334), (71, 58379),

Gene: BrutonGaster_37 Start: 27677, Stop: 28441, Start Num: 8
Candidate Starts for BrutonGaster_37:
(Start: 8 @27677 has 1 MA's), (28, 27857), (35, 27935), (48, 28043), (54, 28091), (64, 28175), (71, 28253), (78, 28292),

Gene: BrutonGaster_127 Start: 75924, Stop: 76652, Start Num: 14
Candidate Starts for BrutonGaster_127:
(5, 75816), (Start: 14 @75924 has 1 MA's), (20, 75996), (31, 76074), (44, 76212), (46, 76254), (47, 76257), (50, 76269), (72, 76464),

Gene: Command613_101 Start: 59112, Stop: 59675, Start Num: 30
Candidate Starts for Command613_101:
(Start: 22 @59037 has 2 MA's), (Start: 30 @59112 has 39 MA's), (39, 59199), (52, 59307), (65, 59415), (69, 59433), (70, 59436), (71, 59481),

Gene: Czyszczon1_100 Start: 58822, Stop: 59460, Start Num: 22
Candidate Starts for Czyszczon1_100:
(Start: 22 @58822 has 2 MA's), (Start: 30 @58897 has 39 MA's), (39, 58984), (52, 59092), (65, 59200), (69, 59218), (70, 59221), (71, 59266),

Gene: DoctorDiddles_98 Start: 58360, Stop: 58923, Start Num: 30
Candidate Starts for DoctorDiddles_98:
(Start: 22 @58285 has 2 MA's), (Start: 30 @58360 has 39 MA's), (39, 58447), (52, 58555), (65, 58663), (69, 58681), (70, 58684), (71, 58729),

Gene: Easy2Say_99 Start: 59369, Stop: 59932, Start Num: 30
Candidate Starts for Easy2Say_99:
(Start: 22 @59294 has 2 MA's), (Start: 30 @59369 has 39 MA's), (39, 59456), (52, 59564), (65, 59672), (69, 59690), (70, 59693), (71, 59738),

Gene: Flypotenuse_95 Start: 57969, Stop: 58532, Start Num: 30
Candidate Starts for Flypotenuse_95:
(Start: 22 @57894 has 2 MA's), (Start: 30 @57969 has 39 MA's), (39, 58056), (52, 58164), (65, 58272), (69, 58290), (70, 58293), (71, 58338),

Gene: Gage_101 Start: 59040, Stop: 59603, Start Num: 30
Candidate Starts for Gage_101:
(Start: 22 @58965 has 2 MA's), (Start: 30 @59040 has 39 MA's), (39, 59127), (52, 59235), (65, 59343), (69, 59361), (70, 59364), (71, 59409),

Gene: Gator_97 Start: 58750, Stop: 59388, Start Num: 22
Candidate Starts for Gator_97:
(Start: 22 @58750 has 2 MA's), (Start: 30 @58825 has 39 MA's), (39, 58912), (52, 59020), (65, 59128), (69, 59146), (70, 59149), (71, 59194),

Gene: Gemini_104 Start: 59419, Stop: 59982, Start Num: 30
Candidate Starts for Gemini_104:
(Start: 22 @59344 has 2 MA's), (Start: 30 @59419 has 39 MA's), (39, 59506), (52, 59614), (65, 59722), (69, 59740), (70, 59743), (71, 59788),

Gene: Glexan_98 Start: 59099, Stop: 59662, Start Num: 30
Candidate Starts for Glexan_98:
(Start: 22 @59024 has 2 MA's), (Start: 30 @59099 has 39 MA's), (39, 59186), (52, 59294), (65, 59402), (69, 59420), (70, 59423), (71, 59468),

Gene: GoldenSpark_103 Start: 58902, Stop: 59465, Start Num: 30
Candidate Starts for GoldenSpark_103:
(Start: 22 @58827 has 2 MA's), (Start: 30 @58902 has 39 MA's), (39, 58989), (52, 59097), (65, 59205), (69, 59223), (70, 59226), (71, 59271),

Gene: GooberAzure_102 Start: 58902, Stop: 59465, Start Num: 30
Candidate Starts for GooberAzure_102:
(Start: 22 @58827 has 2 MA's), (Start: 30 @58902 has 39 MA's), (39, 58989), (52, 59097), (65, 59205), (69, 59223), (70, 59226), (71, 59271),

Gene: Harella_99 Start: 59615, Stop: 60178, Start Num: 30
Candidate Starts for Harella_99:
(Start: 22 @59540 has 2 MA's), (Start: 30 @59615 has 39 MA's), (39, 59702), (52, 59810), (65, 59918), (69, 59936), (70, 59939), (71, 59984),

Gene: Holt_104 Start: 59316, Stop: 59879, Start Num: 30
Candidate Starts for Holt_104:
(Start: 22 @59241 has 2 MA's), (Start: 30 @59316 has 39 MA's), (39, 59403), (52, 59511), (65, 59619), (69, 59637), (70, 59640), (71, 59685),

Gene: IHOP_97 Start: 58618, Stop: 59181, Start Num: 30
Candidate Starts for IHOP_97:
(Start: 22 @58543 has 2 MA's), (Start: 30 @58618 has 39 MA's), (39, 58705), (52, 58813), (65, 58921), (69, 58939), (70, 58942), (71, 58987),

Gene: Icee_100 Start: 58426, Stop: 58989, Start Num: 30
Candidate Starts for Icee_100:
(Start: 22 @58351 has 2 MA's), (Start: 30 @58426 has 39 MA's), (39, 58513), (52, 58621), (65, 58729), (69, 58747), (70, 58750), (71, 58795),

Gene: Inca_96 Start: 57107, Stop: 57670, Start Num: 30
Candidate Starts for Inca_96:
(Start: 22 @57032 has 2 MA's), (Start: 30 @57107 has 39 MA's), (39, 57194), (52, 57302), (65, 57410), (69, 57428), (70, 57431), (71, 57476),

Gene: JonJames_167 Start: 89129, Stop: 89734, Start Num: 27
Candidate Starts for JonJames_167:
(1, 88790), (2, 88802), (3, 88832), (6, 88913), (9, 88940), (10, 88949), (13, 88976), (15, 88997), (16, 89009), (17, 89030), (25, 89123), (Start: 27 @89129 has 2 MA's), (32, 89189), (34, 89216), (36, 89234), (38, 89252), (46, 89348), (58, 89450), (61, 89468), (63, 89474), (74, 89576), (76, 89579), (83, 89633), (90, 89681), (92, 89705),

Gene: JonJames_48 Start: 34709, Stop: 35611, Start Num: 4
Candidate Starts for JonJames_48:
(Start: 4 @34709 has 2 MA's), (12, 34844), (24, 34949), (37, 35087), (53, 35243), (95, 35603),

Gene: Kimchi_103 Start: 59043, Stop: 59606, Start Num: 30

Candidate Starts for Kimchi_103:
(Start: 22 @58968 has 2 MA's), (Start: 30 @59043 has 39 MA's), (39, 59130), (52, 59238), (65, 59346), (69, 59364), (70, 59367), (71, 59412),

Gene: Kostya_99 Start: 58720, Stop: 59283, Start Num: 30
Candidate Starts for Kostya_99:
(Start: 22 @58645 has 2 MA's), (Start: 30 @58720 has 39 MA's), (39, 58807), (52, 58915), (65, 59023), (69, 59041), (70, 59044), (71, 59089),

Gene: Malisha_15 Start: 9435, Stop: 10115, Start Num: 18
Candidate Starts for Malisha_15:
(Start: 18 @9435 has 1 MA's), (21, 9450), (33, 9567), (40, 9618), (41, 9624), (43, 9654), (55, 9771), (68, 9861), (93, 10062),

Gene: Marshmallow_96 Start: 59240, Stop: 59803, Start Num: 30
Candidate Starts for Marshmallow_96:
(Start: 22 @59165 has 2 MA's), (Start: 30 @59240 has 39 MA's), (39, 59327), (52, 59435), (65, 59543), (69, 59561), (70, 59564), (71, 59609),

Gene: Myrale_99 Start: 59400, Stop: 59963, Start Num: 30
Candidate Starts for Myrale_99:
(Start: 22 @59325 has 2 MA's), (Start: 30 @59400 has 39 MA's), (39, 59487), (52, 59595), (65, 59703), (69, 59721), (70, 59724), (71, 59769),

Gene: Nimrod_99 Start: 59367, Stop: 59930, Start Num: 30
Candidate Starts for Nimrod_99:
(Start: 22 @59292 has 2 MA's), (Start: 30 @59367 has 39 MA's), (39, 59454), (52, 59562), (65, 59670), (69, 59688), (70, 59691), (71, 59736),

Gene: Phaja_97 Start: 58620, Stop: 59183, Start Num: 30
Candidate Starts for Phaja_97:
(Start: 22 @58545 has 2 MA's), (Start: 30 @58620 has 39 MA's), (39, 58707), (52, 58815), (65, 58923), (69, 58941), (70, 58944), (71, 58989),

Gene: Rakim_100 Start: 58852, Stop: 59415, Start Num: 30
Candidate Starts for Rakim_100:
(Start: 22 @58777 has 2 MA's), (Start: 30 @58852 has 39 MA's), (39, 58939), (52, 59047), (65, 59155), (69, 59173), (70, 59176), (71, 59221),

Gene: RunningOnE_62 Start: 27956, Stop: 27333, Start Num: 23
Candidate Starts for RunningOnE_62:
(23, 27956), (Start: 30 @27884 has 39 MA's), (42, 27770), (86, 27434), (87, 27416), (94, 27359),

Gene: RunningOnE_26 Start: 10549, Stop: 9908, Start Num: 19
Candidate Starts for RunningOnE_26:
(19, 10549), (42, 10342), (45, 10285), (75, 10075), (88, 9982),

Gene: Stank_101 Start: 59115, Stop: 59678, Start Num: 30
Candidate Starts for Stank_101:
(Start: 22 @59040 has 2 MA's), (Start: 30 @59115 has 39 MA's), (39, 59202), (52, 59310), (65, 59418), (69, 59436), (70, 59439), (71, 59484),

Gene: Stellammi_165 Start: 71654, Stop: 72247, Start Num: 26

Candidate Starts for Stellammi_165:
(26, 71654), (49, 71879), (56, 71933), (59, 71972), (60, 71975), (67, 72023), (73, 72089), (77, 72101), (81, 72122), (82, 72134), (85, 72158), (91, 72200),

Gene: TBrady12_102 Start: 58555, Stop: 59118, Start Num: 30
Candidate Starts for TBrady12_102:
(Start: 22 @58480 has 2 MA's), (Start: 30 @58555 has 39 MA's), (39, 58642), (52, 58750), (65, 58858), (69, 58876), (70, 58879), (71, 58924),

Gene: Thimble_101 Start: 58305, Stop: 58868, Start Num: 30
Candidate Starts for Thimble_101:
(Start: 22 @58230 has 2 MA's), (Start: 30 @58305 has 39 MA's), (39, 58392), (52, 58500), (65, 58608), (69, 58626), (70, 58629), (71, 58674),

Gene: Traaww1_95 Start: 58144, Stop: 58707, Start Num: 30
Candidate Starts for Traaww1_95:
(Start: 22 @58069 has 2 MA's), (Start: 30 @58144 has 39 MA's), (39, 58231), (52, 58339), (65, 58447), (69, 58465), (70, 58468), (71, 58513),

Gene: Wiggin_101 Start: 58545, Stop: 59108, Start Num: 30
Candidate Starts for Wiggin_101:
(Start: 22 @58470 has 2 MA's), (Start: 30 @58545 has 39 MA's), (39, 58632), (52, 58740), (65, 58848), (69, 58866), (70, 58869), (71, 58914),

Gene: Xandras_98 Start: 58368, Stop: 58931, Start Num: 30
Candidate Starts for Xandras_98:
(Start: 22 @58293 has 2 MA's), (Start: 30 @58368 has 39 MA's), (39, 58455), (52, 58563), (65, 58671), (69, 58689), (70, 58692), (71, 58737),

Gene: YassJohnny_96 Start: 57688, Stop: 58251, Start Num: 30
Candidate Starts for YassJohnny_96:
(Start: 22 @57613 has 2 MA's), (Start: 30 @57688 has 39 MA's), (39, 57775), (52, 57883), (65, 57991), (69, 58009), (70, 58012), (71, 58057),

Gene: Youngblood_102 Start: 59838, Stop: 60401, Start Num: 30
Candidate Starts for Youngblood_102:
(Start: 22 @59763 has 2 MA's), (Start: 30 @59838 has 39 MA's), (39, 59925), (52, 60033), (65, 60141), (69, 60159), (70, 60162), (71, 60207),

Gene: Yvonnetastic_46 Start: 32244, Stop: 33146, Start Num: 4
Candidate Starts for Yvonnetastic_46:
(Start: 4 @32244 has 2 MA's), (12, 32379), (24, 32484), (37, 32622), (53, 32778), (95, 33138),

Gene: Yvonnetastic_162 Start: 85216, Stop: 85821, Start Num: 27
Candidate Starts for Yvonnetastic_162:
(1, 84877), (2, 84889), (3, 84919), (6, 85000), (9, 85027), (10, 85036), (13, 85063), (15, 85084), (16, 85096), (17, 85117), (25, 85210), (Start: 27 @85216 has 2 MA's), (32, 85276), (34, 85303), (36, 85321), (38, 85339), (46, 85435), (58, 85537), (61, 85555), (63, 85561), (74, 85663), (76, 85666), (83, 85720), (90, 85768), (92, 85792),

Gene: xkcd_102 Start: 60022, Stop: 60585, Start Num: 30
Candidate Starts for xkcd_102:

(Start: 22 @59947 has 2 MA's), (Start: 30 @60022 has 39 MA's), (39, 60109), (52, 60217), (65, 60325), (69, 60343), (70, 60346), (71, 60391),