

Pham 296761



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 296761 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296761 has 36 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Abrogate_10, DreamCatcher_1, Ruotula_1
- Track 2 : JC27_3, Peterson_2
- Track 3 : Beagle_85
- Track 4 : JellyBread_83, BlackSpider_75
- Track 5 : LeBruni_88
- Track 6 : Mapleville_81
- Track 7 : Amo99_91, Jollymon_88, ColdSoup_91
- Track 8 : DonTron_88, Soos_84, Sting_87
- Track 9 : ModicumRichard_106
- Track 10 : Manda_71
- Track 11 : Cassini_83
- Track 12 : Wamburgexpress_58, Calm_59, Zaria_59, OhShagHennessy_56
- Track 13 : Winky_89, Sarshaun_90
- Track 14 : BobsGarage_88, Soap141_89
- Track 15 : Miley16_89, Breezona_89, DrSeegs_88
- Track 16 : BigCheese_89
- Track 17 : Bromden_89
- Track 18 : SlimJimmy_68, Glaske16_70, FreakyGoo_70, Skinny_71

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

The start number called the most often in the published annotations is 37, it was called in 4 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99_91, ColdSoup_91, DonTron_88, Jollymon_88, Soos_84, Sting_87,

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

-

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

- Abrogate_10, Beagle_85, BigCheese_89, BlackSpider_75, BobsGarage_88, Breezona_89, Bromden_89, Calm_59, Cassini_83, DrSeegs_88, DreamCatcher_1, FreakyGoo_70, Glaske16_70, JC27_3, JellyBread_83, LeBruni_88, Manda_71,

Mapleville_81, Miley16_89, ModicumRichard_106, OhShagHennessy_56, Peterson_2, Ruotula_1, Sarshaun_90, Skinny_71, SlimJimmy_68, Soap141_89, Wamburgxpress_58, Winky_89, Zaria_59,

Summary by start number:

Start 11:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeBruni_88 (AY),

Start 19:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlackSpider_75 (FN), JellyBread_83 (AY),

Start 20:

- Found in 3 of 36 (8.3%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abrogate_10 (A1), DreamCatcher_1 (A1), Ruotula_1 (A1),

Start 21:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JC27_3 (A1), Peterson_2 (A1),

Start 23:

- Found in 8 of 36 (22.2%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Breezona_89 (L2), DrSeegs_88 (L2), Miley16_89 (L2),

Start 26:

- Found in 15 of 36 (41.7%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 6.7% of time when present
- Phage (with cluster) where this start called: BigCheese_89 (L2),

Start 27:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ModicumRichard_106 (DZ),

Start 31:

- Found in 7 of 36 (19.4%) of genes in pham

- Manual Annotations of this start: 4 of 30
- Called 57.1% of time when present
- Phage (with cluster) where this start called: FreakyGoo_70 (M1), Glaske16_70 (M1), Skinny_71 (M1), SlimJimmy_68 (M1),

Start 36:

- Found in 8 of 36 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Sarshaun_90 (L2), Winky_89 (L2),

Start 37:

- Found in 6 of 36 (16.7%) of genes in pham
- Manual Annotations of this start: 4 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99_91 (CP), ColdSoup_91 (CP), DonTron_88 (CP), Jollymon_88 (CP), Soos_84 (CP), Sting_87 (CP),

Start 38:

- Found in 3 of 36 (8.3%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Cassini_83 (FN), Mapleville_81 (AY),

Start 39:

- Found in 10 of 36 (27.8%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 40.0% of time when present
- Phage (with cluster) where this start called: BobsGarage_88 (L2), Bromden_89 (L4), Manda_71 (E), Soap141_89 (L2),

Start 40:

- Found in 4 of 36 (11.1%) of genes in pham
- Manual Annotations of this start: 4 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Calm_59 (L1), OhShagHennessy_56 (L1), Wamburgrxpress_58 (L1), Zaria_59 (L1),

Start 42:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_85 (AP2),

Summary by clusters:

There are 11 clusters represented in this pham: E, AP2, A1, L4, L2, L1, AY, M1, DZ, CP, FN,

Info for manual annotations of cluster A1:

- Start number 20 was manually annotated 3 times for cluster A1.
- Start number 21 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster AP2:

- Start number 42 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AY:

- Start number 11 was manually annotated 1 time for cluster AY.
- Start number 19 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CP:

- Start number 37 was manually annotated 4 times for cluster CP.

Info for manual annotations of cluster DZ:

- Start number 27 was manually annotated 1 time for cluster DZ.

Info for manual annotations of cluster E:

- Start number 39 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster FN:

- Start number 19 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster L1:

- Start number 40 was manually annotated 4 times for cluster L1.

Info for manual annotations of cluster L2:

- Start number 23 was manually annotated 3 times for cluster L2.
- Start number 26 was manually annotated 1 time for cluster L2.
- Start number 36 was manually annotated 1 time for cluster L2.
- Start number 39 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L4:

- Start number 39 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:

- Start number 31 was manually annotated 4 times for cluster M1.

Gene Information:

Gene: Abrogate_10 Start: 697, Stop: 1347, Start Num: 20

Candidate Starts for Abrogate_10:

(17, 685), (Start: 20 @697 has 3 MA's), (33, 793), (34, 796), (56, 961), (57, 985), (59, 1003), (62, 1021), (83, 1264), (86, 1282), (94, 1339),

Gene: Amo99_91 Start: 56649, Stop: 57140, Start Num: 37

Candidate Starts for Amo99_91:

(18, 56529), (Start: 26 @56559 has 1 MA's), (Start: 37 @56649 has 4 MA's), (51, 56745), (60, 56838), (64, 56871), (66, 56880), (71, 56943), (76, 56994), (82, 57075), (85, 57093), (90, 57123),

Gene: Beagle_85 Start: 50263, Stop: 49775, Start Num: 42

Candidate Starts for Beagle_85:

(3, 50536), (6, 50506), (10, 50440), (12, 50434), (15, 50425), (30, 50347), (34, 50317), (Start: 42 @50263 has 1 MA's), (59, 50113), (73, 49978), (81, 49855), (86, 49831), (90, 49807),

Gene: BigCheese_89 Start: 57485, Stop: 58045, Start Num: 26

Candidate Starts for BigCheese_89:

(5, 57356), (7, 57371), (8, 57380), (9, 57395), (14, 57443), (16, 57449), (Start: 23 @57473 has 3 MA's), (25, 57479), (Start: 26 @57485 has 1 MA's), (35, 57572), (Start: 36 @57575 has 1 MA's), (Start: 39 @57587 has 3 MA's), (41, 57608), (53, 57707), (55, 57725), (72, 57887), (74, 57917), (75, 57923), (78, 57947), (79, 57959), (82, 58010),

Gene: BlackSpider_75 Start: 46054, Stop: 46710, Start Num: 19

Candidate Starts for BlackSpider_75:

(4, 45928), (Start: 19 @46054 has 2 MA's), (29, 46120), (32, 46135), (68, 46438), (71, 46462),

Gene: BobsGarage_88 Start: 57587, Stop: 58045, Start Num: 39

Candidate Starts for BobsGarage_88:

(5, 57356), (7, 57371), (8, 57380), (9, 57395), (14, 57443), (16, 57449), (Start: 23 @57473 has 3 MA's), (25, 57479), (Start: 26 @57485 has 1 MA's), (35, 57572), (Start: 36 @57575 has 1 MA's), (Start: 39 @57587 has 3 MA's), (41, 57608), (53, 57707), (55, 57725), (72, 57887), (74, 57917), (75, 57923), (78, 57947), (79, 57959), (82, 58010),

Gene: Breezona_89 Start: 57473, Stop: 58045, Start Num: 23

Candidate Starts for Breezona_89:

(5, 57356), (7, 57371), (8, 57380), (9, 57395), (14, 57443), (16, 57449), (Start: 23 @57473 has 3 MA's), (25, 57479), (Start: 26 @57485 has 1 MA's), (35, 57572), (Start: 36 @57575 has 1 MA's), (Start: 39 @57587 has 3 MA's), (41, 57608), (53, 57707), (55, 57725), (72, 57887), (74, 57917), (75, 57923), (78, 57947), (79, 57959), (82, 58010),

Gene: Bromden_89 Start: 57826, Stop: 58278, Start Num: 39

Candidate Starts for Bromden_89:

(24, 57715), (Start: 26 @57724 has 1 MA's), (Start: 39 @57826 has 3 MA's), (50, 57907), (72, 58120), (74, 58150), (75, 58156), (78, 58180), (79, 58192), (82, 58243), (88, 58267),

Gene: Calm_59 Start: 41416, Stop: 41874, Start Num: 40

Candidate Starts for Calm_59:

(Start: 40 @41416 has 4 MA's), (47, 41482), (63, 41617), (67, 41674), (70, 41698), (74, 41740), (89, 41863),

Gene: Cassini_83 Start: 47928, Stop: 48464, Start Num: 38

Candidate Starts for Cassini_83:

(16, 47802), (38, 47928), (56, 48075), (71, 48216), (76, 48267), (84, 48369),

Gene: ColdSoup_91 Start: 56730, Stop: 57221, Start Num: 37

Candidate Starts for ColdSoup_91:

(18, 56610), (Start: 26 @56640 has 1 MA's), (Start: 37 @56730 has 4 MA's), (51, 56826), (60, 56919), (64, 56952), (66, 56961), (71, 57024), (76, 57075), (82, 57156), (85, 57174), (90, 57204),

Gene: DonTron_88 Start: 56608, Stop: 57099, Start Num: 37

Candidate Starts for DonTron_88:

(Start: 26 @56518 has 1 MA's), (Start: 31 @56572 has 4 MA's), (Start: 37 @56608 has 4 MA's), (60, 56797), (64, 56830), (66, 56839), (71, 56902), (85, 57052), (90, 57082), (91, 57091),

Gene: DrSeegs_88 Start: 57473, Stop: 58045, Start Num: 23

Candidate Starts for DrSeegs_88:

(5, 57356), (7, 57371), (8, 57380), (9, 57395), (14, 57443), (16, 57449), (Start: 23 @57473 has 3 MA's), (25, 57479), (Start: 26 @57485 has 1 MA's), (35, 57572), (Start: 36 @57575 has 1 MA's), (Start: 39

@57587 has 3 MA's), (41, 57608), (53, 57707), (55, 57725), (72, 57887), (74, 57917), (75, 57923), (78, 57947), (79, 57959), (82, 58010),

Gene: DreamCatcher_1 Start: 695, Stop: 1345, Start Num: 20

Candidate Starts for DreamCatcher_1:

(17, 683), (Start: 20 @695 has 3 MA's), (33, 791), (34, 794), (56, 959), (57, 983), (59, 1001), (62, 1019), (83, 1262), (86, 1280), (94, 1337),

Gene: FreakyGoo_70 Start: 44854, Stop: 45342, Start Num: 31

Candidate Starts for FreakyGoo_70:

(28, 44818), (Start: 31 @44854 has 4 MA's), (46, 44962), (54, 45019), (58, 45061), (61, 45088), (74, 45214), (75, 45220), (80, 45295), (88, 45334),

Gene: Glaske16_70 Start: 44853, Stop: 45341, Start Num: 31

Candidate Starts for Glaske16_70:

(28, 44817), (Start: 31 @44853 has 4 MA's), (46, 44961), (54, 45018), (58, 45060), (61, 45087), (74, 45213), (75, 45219), (80, 45294), (88, 45333),

Gene: JC27_3 Start: 1139, Stop: 1612, Start Num: 21

Candidate Starts for JC27_3:

(Start: 21 @1139 has 2 MA's), (48, 1331), (51, 1346), (66, 1481), (69, 1523), (73, 1556), (77, 1601),

Gene: JellyBread_83 Start: 48413, Stop: 49069, Start Num: 19

Candidate Starts for JellyBread_83:

(4, 48287), (Start: 19 @48413 has 2 MA's), (29, 48479), (32, 48494), (68, 48797), (71, 48821),

Gene: Jollymon_88 Start: 56730, Stop: 57221, Start Num: 37

Candidate Starts for Jollymon_88:

(18, 56610), (Start: 26 @56640 has 1 MA's), (Start: 37 @56730 has 4 MA's), (51, 56826), (60, 56919), (64, 56952), (66, 56961), (71, 57024), (76, 57075), (82, 57156), (85, 57174), (90, 57204),

Gene: LeBruni_88 Start: 48740, Stop: 49414, Start Num: 11

Candidate Starts for LeBruni_88:

(Start: 11 @48740 has 1 MA's), (13, 48749), (38, 48884), (45, 48947), (65, 49106), (68, 49142), (71, 49166), (76, 49217),

Gene: Manda_71 Start: 47070, Stop: 47540, Start Num: 39

Candidate Starts for Manda_71:

(Start: 39 @47070 has 3 MA's), (47, 47139), (52, 47172), (58, 47235), (74, 47400), (75, 47406), (84, 47508), (87, 47520),

Gene: Mapleville_81 Start: 47302, Stop: 47832, Start Num: 38

Candidate Starts for Mapleville_81:

(16, 47176), (22, 47197), (38, 47302), (45, 47365), (76, 47635),

Gene: Miley16_89 Start: 57473, Stop: 58045, Start Num: 23

Candidate Starts for Miley16_89:

(5, 57356), (7, 57371), (8, 57380), (9, 57395), (14, 57443), (16, 57449), (Start: 23 @57473 has 3 MA's), (25, 57479), (Start: 26 @57485 has 1 MA's), (35, 57572), (Start: 36 @57575 has 1 MA's), (Start: 39 @57587 has 3 MA's), (41, 57608), (53, 57707), (55, 57725), (72, 57887), (74, 57917), (75, 57923), (78, 57947), (79, 57959), (82, 58010),

Gene: ModicumRichard_106 Start: 60143, Stop: 60772, Start Num: 27

Candidate Starts for ModicumRichard_106:

(1, 59753), (2, 59765), (Start: 27 @60143 has 1 MA's), (43, 60269), (44, 60272), (49, 60323), (62, 60440), (73, 60551), (92, 60737), (93, 60746),

Gene: OhShagHennessy_56 Start: 40304, Stop: 40762, Start Num: 40

Candidate Starts for OhShagHennessy_56:

(Start: 40 @40304 has 4 MA's), (47, 40370), (63, 40505), (67, 40562), (70, 40586), (74, 40628), (89, 40751),

Gene: Peterson_2 Start: 990, Stop: 1463, Start Num: 21

Candidate Starts for Peterson_2:

(Start: 21 @990 has 2 MA's), (48, 1182), (51, 1197), (66, 1332), (69, 1374), (73, 1407), (77, 1452),

Gene: Ruotula_1 Start: 698, Stop: 1348, Start Num: 20

Candidate Starts for Ruotula_1:

(17, 686), (Start: 20 @698 has 3 MA's), (33, 794), (34, 797), (56, 962), (57, 986), (59, 1004), (62, 1022), (83, 1265), (86, 1283), (94, 1340),

Gene: Sarshaun_90 Start: 57970, Stop: 58440, Start Num: 36

Candidate Starts for Sarshaun_90:

(5, 57751), (7, 57766), (8, 57775), (9, 57790), (14, 57838), (16, 57844), (Start: 23 @57868 has 3 MA's), (25, 57874), (Start: 26 @57880 has 1 MA's), (35, 57967), (Start: 36 @57970 has 1 MA's), (Start: 39 @57982 has 3 MA's), (41, 58003), (53, 58102), (55, 58120), (72, 58282), (74, 58312), (75, 58318), (78, 58342), (79, 58354), (82, 58405),

Gene: Skinny_71 Start: 45287, Stop: 45775, Start Num: 31

Candidate Starts for Skinny_71:

(28, 45251), (Start: 31 @45287 has 4 MA's), (46, 45395), (54, 45452), (58, 45494), (61, 45521), (74, 45647), (75, 45653), (80, 45728), (88, 45767),

Gene: SlimJimmy_68 Start: 44842, Stop: 45330, Start Num: 31

Candidate Starts for SlimJimmy_68:

(28, 44806), (Start: 31 @44842 has 4 MA's), (46, 44950), (54, 45007), (58, 45049), (61, 45076), (74, 45202), (75, 45208), (80, 45283), (88, 45322),

Gene: Soap141_89 Start: 57982, Stop: 58440, Start Num: 39

Candidate Starts for Soap141_89:

(5, 57751), (7, 57766), (8, 57775), (9, 57790), (14, 57838), (16, 57844), (Start: 23 @57868 has 3 MA's), (25, 57874), (Start: 26 @57880 has 1 MA's), (35, 57967), (Start: 36 @57970 has 1 MA's), (Start: 39 @57982 has 3 MA's), (41, 58003), (53, 58102), (55, 58120), (72, 58282), (74, 58312), (75, 58318), (78, 58342), (79, 58354), (82, 58405),

Gene: Soos_84 Start: 55934, Stop: 56425, Start Num: 37

Candidate Starts for Soos_84:

(Start: 26 @55844 has 1 MA's), (Start: 31 @55898 has 4 MA's), (Start: 37 @55934 has 4 MA's), (60, 56123), (64, 56156), (66, 56165), (71, 56228), (85, 56378), (90, 56408), (91, 56417),

Gene: Sting_87 Start: 56373, Stop: 56864, Start Num: 37

Candidate Starts for Sting_87:

(Start: 26 @56283 has 1 MA's), (Start: 31 @56337 has 4 MA's), (Start: 37 @56373 has 4 MA's), (60, 56562), (64, 56595), (66, 56604), (71, 56667), (85, 56817), (90, 56847), (91, 56856),

Gene: Wamburgrxpress_58 Start: 41304, Stop: 41762, Start Num: 40

Candidate Starts for Wamburgexpress_58:

(Start: 40 @41304 has 4 MA's), (47, 41370), (63, 41505), (67, 41562), (70, 41586), (74, 41628), (89, 41751),

Gene: Winky_89 Start: 57575, Stop: 58045, Start Num: 36

Candidate Starts for Winky_89:

(5, 57356), (7, 57371), (8, 57380), (9, 57395), (14, 57443), (16, 57449), (Start: 23 @57473 has 3 MA's), (25, 57479), (Start: 26 @57485 has 1 MA's), (35, 57572), (Start: 36 @57575 has 1 MA's), (Start: 39 @57587 has 3 MA's), (41, 57608), (53, 57707), (55, 57725), (72, 57887), (74, 57917), (75, 57923), (78, 57947), (79, 57959), (82, 58010),

Gene: Zaria_59 Start: 41416, Stop: 41874, Start Num: 40

Candidate Starts for Zaria_59:

(Start: 40 @41416 has 4 MA's), (47, 41482), (63, 41617), (67, 41674), (70, 41698), (74, 41740), (89, 41863),