

Pham 157985



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 157985 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157985 has 44 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Hestia_46
- Track 2 : Cucurbita_99, Miskis_96, Toniann_100, Aphelion_99, Abscondus_97, Bachita_100, Norvs_100, Engineer_99, Smoothie_99, PhinkBoden_97, Lozinak_98, Dusty_95
- Track 3 : WilliamBoone_100
- Track 4 : ClubL_99
- Track 5 : Culver_100
- Track 6 : OneUp_86
- Track 7 : BrutonGaster_80
- Track 8 : BritBrat_52
- Track 9 : JonJames_112
- Track 10 : Yvonnetastic_109, Cardigan_113
- Track 11 : Mollymur_93
- Track 12 : Daredevil_83
- Track 13 : DatBoi_89
- Track 14 : SpeedDemon_940
- Track 15 : Bantam_93
- Track 16 : BearBQ_57, MortyNRick_55
- Track 17 : Malisha_63, Squiddly_59
- Track 18 : Spooky_52
- Track 19 : Kuwabara_59
- Track 20 : Kumotta_34, MargaretKali_34
- Track 21 : ZhongYanYuan_40
- Track 22 : Claus_42
- Track 23 : Bazzle_42
- Track 24 : Hafay_42
- Track 25 : Baoshan_40
- Track 26 : Douge_39
- Track 27 : Success_12
- Track 28 : GAL1_42
- Track 29 : Jace_29

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

The start number called the most often in the published annotations is 17, it was called in 14 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_97, Aphelion_99, Bachita_100, BrutonGaster_80, ClubL_99, Cucurbita_99, Culver_100, Dusty_95, Engineer_99, Lozinak_98, Miskis_96, Norvs_100, OneUp_86, PhinkBoden_97, Smoothie_99, Toniann_100, WilliamBoone_100,

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

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

- Bantam_93, Baoshan_40, Bazzle_42, BearBQ_57, BritBrat_52, Cardigan_113, Claus_42, Daredevil_83, DatBoi_89, Douge_39, GAL1_42, Hafay_42, Hestia_46, Jace_29, JonJames_112, Kumotta_34, Kuwabara_59, Malisha_63, MargaretKali_34, Mollymur_93, MortyNRick_55, SpeedDemon_940, Spooky_52, Squiddly_59, Success_12, Yvonnestic_109, ZhongYanYuan_40,

Summary by start number:

Start 13:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_29 (singleton),

Start 14:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat_52 (CY2), GAL1_42 (singleton), Spooky_52 (DN2),

Start 16:

- Found in 3 of 44 (6.8%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_113 (DD), JonJames_112 (DD), Yvonnestic_109 (DD),

Start 17:

- Found in 17 of 44 (38.6%) of genes in pham
- Manual Annotations of this start: 14 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_97 (CQ), Aphelion_99 (CQ1), Bachita_100 (CQ1), BrutonGaster_80 (CQ2), ClubL_99 (CQ1), Cucurbita_99 (CQ1), Culver_100 (CQ1), Dusty_95 (CQ), Engineer_99 (CQ1), Lozinak_98 (CQ1), Miskis_96 (CQ), Norvs_100 (CQ), OneUp_86 (CQ2), PhinkBoden_97 (CQ1), Smoothie_99 (CQ1), Toniann_100 (CQ1), WilliamBoone_100 (CQ1),

Start 19:

- Found in 5 of 44 (11.4%) of genes in pham

- Manual Annotations of this start: 4 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BearBQ_57 (DN), Kuwabara_59 (DN4), Malisha_63 (DN), MortyNRick_55 (DN), Squiddly_59 (DN2),

Start 21:

- Found in 4 of 44 (9.1%) of genes in pham
- Manual Annotations of this start: 4 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_93 (DL), DatBoi_89 (DL), SpeedDemon_940 (DL), Success_12 (singleton),

Start 22:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hestia_46 (AY),

Start 23:

- Found in 2 of 44 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta_34 (FB), MargaretKali_34 (FB),

Start 24:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mollymur_93 (DL),

Start 25:

- Found in 4 of 44 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Daredevil_83 (DL),

Start 32:

- Found in 22 of 44 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 22.7% of time when present
- Phage (with cluster) where this start called: Baoshan_40 (L2), Bazzle_42 (L2), Claus_42 (L2), Hafay_42 (L2), ZhongYanYuan_40 (L2),

Start 35:

- Found in 8 of 44 (18.2%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Douge_39 (L4),

Summary by clusters:

There are 14 clusters represented in this pham: DN, CY2, DL, FB, DD, singleton, DN4, L4, L2, DN2, AY, CQ2, CQ1, CQ,

Info for manual annotations of cluster AY:

- Start number 22 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ:

- Start number 17 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 17 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 17 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CY2:

- Start number 14 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DD:

- Start number 16 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 21 was manually annotated 3 times for cluster DL.
- Start number 24 was manually annotated 1 time for cluster DL.
- Start number 25 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DN:

- Start number 19 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 14 was manually annotated 1 time for cluster DN2.
- Start number 19 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN4:

- Start number 19 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster FB:

- Start number 23 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster L2:

- Start number 32 was manually annotated 1 time for cluster L2.

Gene Information:

Gene: Abscondus_97 Start: 58989, Stop: 59189, Start Num: 17

Candidate Starts for Abscondus_97:

(Start: 17 @58989 has 14 MA's), (Start: 32 @59046 has 1 MA's), (33, 59052), (45, 59130), (48, 59145),

Gene: Aphelion_99 Start: 60542, Stop: 60742, Start Num: 17

Candidate Starts for Aphelion_99:

(Start: 17 @60542 has 14 MA's), (Start: 32 @60599 has 1 MA's), (33, 60605), (45, 60683), (48, 60698),

Gene: Bachita_100 Start: 60200, Stop: 60400, Start Num: 17

Candidate Starts for Bachita_100:

(Start: 17 @60200 has 14 MA's), (Start: 32 @60257 has 1 MA's), (33, 60263), (45, 60341), (48, 60356),

Gene: Bantam_93 Start: 62206, Stop: 62006, Start Num: 21

Candidate Starts for Bantam_93:

(Start: 21 @62206 has 4 MA's), (Start: 25 @62191 has 1 MA's), (33, 62146), (40, 62095),

Gene: Baoshan_40 Start: 34630, Stop: 34770, Start Num: 32

Candidate Starts for Baoshan_40:

(15, 34555), (26, 34597), (28, 34603), (Start: 32 @34630 has 1 MA's), (42, 34705), (46, 34717),

Gene: Bazzle_42 Start: 35005, Stop: 35145, Start Num: 32

Candidate Starts for Bazzle_42:

(15, 34930), (26, 34972), (Start: 32 @35005 has 1 MA's), (42, 35080), (46, 35092),

Gene: BearBQ_57 Start: 39707, Stop: 39916, Start Num: 19

Candidate Starts for BearBQ_57:

(Start: 19 @39707 has 4 MA's), (33, 39767), (35, 39782), (44, 39842), (48, 39860),

Gene: BritBrat_52 Start: 37915, Stop: 38136, Start Num: 14

Candidate Starts for BritBrat_52:

(Start: 14 @37915 has 2 MA's), (18, 37930), (29, 37963), (31, 37981), (Start: 32 @37984 has 1 MA's), (33, 37990), (35, 38005), (38, 38035), (44, 38065), (47, 38080), (48, 38083), (49, 38101), (51, 38125),

Gene: BrutonGaster_80 Start: 54552, Stop: 54749, Start Num: 17

Candidate Starts for BrutonGaster_80:

(Start: 17 @54552 has 14 MA's), (39, 54663), (45, 54693),

Gene: Cardigan_113 Start: 64662, Stop: 64865, Start Num: 16

Candidate Starts for Cardigan_113:

(Start: 16 @64662 has 2 MA's), (38, 64764), (42, 64788), (46, 64803),

Gene: Claus_42 Start: 34788, Stop: 34928, Start Num: 32

Candidate Starts for Claus_42:

(15, 34713), (26, 34755), (28, 34761), (Start: 32 @34788 has 1 MA's), (42, 34863), (46, 34875), (49, 34905),

Gene: ClubL_99 Start: 59132, Stop: 59332, Start Num: 17

Candidate Starts for ClubL_99:

(11, 59090), (Start: 17 @59132 has 14 MA's), (45, 59273), (48, 59288),

Gene: Cucurbita_99 Start: 60707, Stop: 60907, Start Num: 17

Candidate Starts for Cucurbita_99:

(Start: 17 @60707 has 14 MA's), (Start: 32 @60764 has 1 MA's), (33, 60770), (45, 60848), (48, 60863),

Gene: Culver_100 Start: 59032, Stop: 59232, Start Num: 17

Candidate Starts for Culver_100:

(Start: 17 @59032 has 14 MA's), (45, 59173), (48, 59188),

Gene: Daredevil_83 Start: 57872, Stop: 57690, Start Num: 25

Candidate Starts for Daredevil_83:

(Start: 25 @57872 has 1 MA's), (38, 57782), (43, 57755),

Gene: DatBoi_89 Start: 61354, Stop: 61154, Start Num: 21

Candidate Starts for DatBoi_89:

(Start: 21 @61354 has 4 MA's), (Start: 25 @61339 has 1 MA's), (40, 61243),

Gene: Douge_39 Start: 33466, Stop: 33597, Start Num: 35

Candidate Starts for Douge_39:

(15, 33370), (26, 33412), (35, 33466), (38, 33496), (42, 33520),

Gene: Dusty_95 Start: 59048, Stop: 59248, Start Num: 17

Candidate Starts for Dusty_95:

(Start: 17 @59048 has 14 MA's), (Start: 32 @59105 has 1 MA's), (33, 59111), (45, 59189), (48, 59204),

Gene: Engineer_99 Start: 60173, Stop: 60373, Start Num: 17

Candidate Starts for Engineer_99:

(Start: 17 @60173 has 14 MA's), (Start: 32 @60230 has 1 MA's), (33, 60236), (45, 60314), (48, 60329),

Gene: GAL1_42 Start: 33753, Stop: 33974, Start Num: 14

Candidate Starts for GAL1_42:

(Start: 14 @33753 has 2 MA's), (Start: 32 @33822 has 1 MA's), (33, 33828), (35, 33843), (38, 33873), (49, 33939), (51, 33963),

Gene: Hafay_42 Start: 34803, Stop: 34943, Start Num: 32

Candidate Starts for Hafay_42:

(15, 34728), (26, 34770), (28, 34776), (Start: 32 @34803 has 1 MA's), (34, 34815), (42, 34878), (46, 34890),

Gene: Hestia_46 Start: 29789, Stop: 29977, Start Num: 22

Candidate Starts for Hestia_46:

(Start: 22 @29789 has 1 MA's),

Gene: Jace_29 Start: 24871, Stop: 25110, Start Num: 13

Candidate Starts for Jace_29:

(1, 24649), (2, 24655), (3, 24694), (4, 24736), (7, 24778), (Start: 13 @24871 has 1 MA's), (20, 24901), (27, 24931), (30, 24949), (48, 25060),

Gene: JonJames_112 Start: 65173, Stop: 65376, Start Num: 16

Candidate Starts for JonJames_112:

(Start: 16 @65173 has 2 MA's), (38, 65275), (42, 65299), (46, 65314), (50, 65353),

Gene: Kumotta_34 Start: 26417, Stop: 26599, Start Num: 23

Candidate Starts for Kumotta_34:

(Start: 23 @26417 has 2 MA's),

Gene: Kuwabara_59 Start: 40035, Stop: 40244, Start Num: 19

Candidate Starts for Kuwabara_59:

(8, 39924), (9, 39945), (Start: 19 @40035 has 4 MA's), (26, 40065), (Start: 32 @40098 has 1 MA's), (33, 40104), (37, 40146), (41, 40161), (43, 40176), (44, 40179), (45, 40182), (47, 40194), (51, 40233),

Gene: Lozinak_98 Start: 60011, Stop: 60211, Start Num: 17

Candidate Starts for Lozinak_98:

(Start: 17 @60011 has 14 MA's), (Start: 32 @60068 has 1 MA's), (33, 60074), (45, 60152), (48, 60167),

Gene: Malisha_63 Start: 40533, Stop: 40739, Start Num: 19

Candidate Starts for Malisha_63:

(8, 40434), (9, 40455), (Start: 19 @40533 has 4 MA's), (33, 40593), (35, 40608), (44, 40668), (48, 40686), (51, 40728),

Gene: MargaretKali_34 Start: 26052, Stop: 26234, Start Num: 23

Candidate Starts for MargaretKali_34:

(Start: 23 @26052 has 2 MA's),

Gene: Miskis_96 Start: 58711, Stop: 58911, Start Num: 17

Candidate Starts for Miskis_96:

(Start: 17 @58711 has 14 MA's), (Start: 32 @58768 has 1 MA's), (33, 58774), (45, 58852), (48, 58867),

Gene: Mollymur_93 Start: 63027, Stop: 62845, Start Num: 24

Candidate Starts for Mollymur_93:

(Start: 24 @63027 has 1 MA's),

Gene: MortyNRick_55 Start: 39746, Stop: 39955, Start Num: 19

Candidate Starts for MortyNRick_55:

(Start: 19 @39746 has 4 MA's), (33, 39806), (35, 39821), (44, 39881), (48, 39899),

Gene: Norvs_100 Start: 60040, Stop: 60240, Start Num: 17

Candidate Starts for Norvs_100:

(Start: 17 @60040 has 14 MA's), (Start: 32 @60097 has 1 MA's), (33, 60103), (45, 60181), (48, 60196),

Gene: OneUp_86 Start: 56418, Stop: 56615, Start Num: 17

Candidate Starts for OneUp_86:

(6, 56301), (11, 56376), (12, 56394), (Start: 17 @56418 has 14 MA's), (48, 56574),

Gene: PhinkBoden_97 Start: 59801, Stop: 60001, Start Num: 17

Candidate Starts for PhinkBoden_97:

(Start: 17 @59801 has 14 MA's), (Start: 32 @59858 has 1 MA's), (33, 59864), (45, 59942), (48, 59957),

Gene: Smoothie_99 Start: 60011, Stop: 60211, Start Num: 17

Candidate Starts for Smoothie_99:

(Start: 17 @60011 has 14 MA's), (Start: 32 @60068 has 1 MA's), (33, 60074), (45, 60152), (48, 60167),

Gene: SpeedDemon_940 Start: 64127, Stop: 63927, Start Num: 21

Candidate Starts for SpeedDemon_940:

(Start: 21 @64127 has 4 MA's), (Start: 25 @64112 has 1 MA's), (33, 64067), (40, 64016),

Gene: Spooky_52 Start: 37230, Stop: 37451, Start Num: 14

Candidate Starts for Spooky_52:

(5, 37110), (10, 37188), (Start: 14 @37230 has 2 MA's), (Start: 32 @37299 has 1 MA's), (33, 37305), (35, 37320), (38, 37350), (47, 37395), (48, 37398), (49, 37416), (51, 37440),

Gene: Squiddly_59 Start: 40046, Stop: 40252, Start Num: 19

Candidate Starts for Squiddly_59:

(8, 39947), (9, 39968), (Start: 19 @40046 has 4 MA's), (33, 40106), (35, 40121), (44, 40181), (48, 40199), (51, 40241),

Gene: Success_12 Start: 8329, Stop: 8147, Start Num: 21

Candidate Starts for Success_12:

(Start: 21 @8329 has 4 MA's), (31, 8281), (Start: 32 @8278 has 1 MA's), (36, 8254), (40, 8221),

Gene: Toniann_100 Start: 59980, Stop: 60180, Start Num: 17

Candidate Starts for Toniann_100:

(Start: 17 @59980 has 14 MA's), (Start: 32 @60037 has 1 MA's), (33, 60043), (45, 60121), (48, 60136),

Gene: WilliamBoone_100 Start: 58743, Stop: 58943, Start Num: 17

Candidate Starts for WilliamBoone_100:

(Start: 17 @58743 has 14 MA's), (39, 58854), (43, 58878),

Gene: Yvonnetastic_109 Start: 62358, Stop: 62561, Start Num: 16

Candidate Starts for Yvonnetastic_109:

(Start: 16 @62358 has 2 MA's), (38, 62460), (42, 62484), (46, 62499),

Gene: ZhongYanYuan_40 Start: 34630, Stop: 34770, Start Num: 32

Candidate Starts for ZhongYanYuan_40:

(15, 34555), (26, 34597), (28, 34603), (Start: 32 @34630 has 1 MA's), (46, 34717),