

Pham 162040



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 162040 Report

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

Pham number 162040 has 34 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Norvs_97
- Track 2 : Miskis_93, Dusty_92, Aphelion_96
- Track 3 : Toniann_97
- Track 4 : Obliviate_79
- Track 5 : SoilAssassin_56, Attis_56, LordFarquaad_58
- Track 6 : DobbysSock_56
- Track 7 : Beenie_56
- Track 8 : Easley_56
- Track 9 : Thimann_62
- Track 10 : Clark_61, Samman98_62
- Track 11 : Denise_59
- Track 12 : Halo3_7
- Track 13 : Kenna_77, Lutum_83, BENtherdunthat_82
- Track 14 : CheeseTouch_86
- Track 15 : Crater_78, Leroy_79, Pepperoni_56, Horus_80, Phistory_77, Ecliptus_84
- Track 16 : Apricot_77, Lton_57
- Track 17 : Kuwabara_80
- Track 18 : ParvusTarda_94
- Track 19 : GMA1_53
- Track 20 : TinyDot_53
- Track 21 : GAL1_62

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

The start number called the most often in the published annotations is 18, it was called in 11 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion_96, Crater_78, Dusty_92, Ecliptus_84, Halo3_7, Horus_80, Kuwabara_80, Leroy_79, Miskis_93, Norvs_97, Obliviate_79, Pepperoni_56, Phistory_77, Toniann_97,

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:

- Apricot_77, Attis_56, BENtherdunthat_82, Beenie_56, CheeseTouch_86, Clark_61, Denise_59, DobbysSock_56, Easley_56, GAL1_62, GMA1_53, Kenna_77, LordFarquaad_58, Lton_57, Lutum_83, ParvusTarda_94, Samman98_62, SoilAssassin_56, Thimann_62, TinyDot_53,

Summary by start number:

Start 10:

- Found in 5 of 34 (14.7%) of genes in pham
- Manual Annotations of this start: 5 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_77 (DN3), Attis_56 (CZ2), LordFarquaad_58 (CZ2), Lton_57 (CZ), SoilAssassin_56 (CZ2),

Start 14:

- Found in 4 of 34 (11.8%) of genes in pham
- Manual Annotations of this start: 4 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beenie_56 (CZ4), Clark_61 (CZ4), DobbysSock_56 (CZ4), Samman98_62 (CZ4),

Start 17:

- Found in 2 of 34 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Denise_59 (CZ5), GMA1_53 (singleton),

Start 18:

- Found in 14 of 34 (41.2%) of genes in pham
- Manual Annotations of this start: 11 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aphelion_96 (CQ1), Crater_78 (DN3), Dusty_92 (CQ), Ecliptus_84 (DN), Halo3_7 (DC1), Horus_80 (DN1), Kuwabara_80 (DN4), Leroy_79 (DN1), Miskis_93 (CQ), Norvs_97 (CQ), Obliviate_79 (CV), Pepperoni_56 (CZ), Phistory_77 (DN1), Toniann_97 (CQ1),

Start 19:

- Found in 1 of 34 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GAL1_62 (singleton),

Start 24:

- Found in 1 of 34 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ParvusTarda_94 (DV),

Start 31:

- Found in 2 of 34 (5.9%) of genes in pham
- Manual Annotations of this start: 2 of 28

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Easley_56 (CZ4), Thimann_62 (CZ4),

Start 36:

- Found in 5 of 34 (14.7%) of genes in pham
- Manual Annotations of this start: 4 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BENtherdunthat_82 (DN1), CheeseTouch_86 (DN1), Kenna_77 (DN1), Lutum_83 (DN1), TinyDot_53 (singleton),

Summary by clusters:

There are 14 clusters represented in this pham: DN, singleton, DN4, CZ2, CZ4, CV, CZ, DN1, DN3, DV, CQ, CZ5, CQ1, DC1,

Info for manual annotations of cluster CQ:

- Start number 18 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 18 was manually annotated 2 times for cluster CQ1.

Info for manual annotations of cluster CV:

- Start number 18 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 10 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ2:

- Start number 10 was manually annotated 3 times for cluster CZ2.

Info for manual annotations of cluster CZ4:

- Start number 14 was manually annotated 4 times for cluster CZ4.
- Start number 31 was manually annotated 2 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 17 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster DC1:

- Start number 18 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DN:

- Start number 18 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 18 was manually annotated 3 times for cluster DN1.
- Start number 36 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 10 was manually annotated 1 time for cluster DN3.
- Start number 18 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 18 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DV:

•Start number 24 was manually annotated 1 time for cluster DV.

Gene Information:

Gene: Aphelion_96 Start: 59234, Stop: 59845, Start Num: 18

Candidate Starts for Aphelion_96:

(5, 59090), (16, 59216), (Start: 18 @59234 has 11 MA's), (28, 59315), (30, 59324), (34, 59336), (46, 59450), (49, 59504), (65, 59645), (73, 59714), (81, 59789), (84, 59807),

Gene: Apricot_77 Start: 44433, Stop: 44912, Start Num: 10

Candidate Starts for Apricot_77:

(Start: 10 @44433 has 5 MA's), (42, 44619), (47, 44682), (50, 44721), (62, 44811),

Gene: Attis_56 Start: 39408, Stop: 40010, Start Num: 10

Candidate Starts for Attis_56:

(7, 39342), (Start: 10 @39408 has 5 MA's), (13, 39420), (21, 39474), (37, 39564), (42, 39600), (50, 39705), (62, 39807), (70, 39846), (80, 39954), (82, 39975),

Gene: BENtherdunthat_82 Start: 46359, Stop: 46736, Start Num: 36

Candidate Starts for BENtherdunthat_82:

(Start: 36 @46359 has 4 MA's), (45, 46440), (46, 46452), (73, 46659),

Gene: Beenie_56 Start: 40503, Stop: 41057, Start Num: 14

Candidate Starts for Beenie_56:

(Start: 14 @40503 has 4 MA's), (15, 40515), (20, 40539), (32, 40614), (47, 40731), (51, 40797), (61, 40860), (71, 40923), (83, 41037),

Gene: CheeseTouch_86 Start: 42950, Stop: 43342, Start Num: 36

Candidate Starts for CheeseTouch_86:

(Start: 36 @42950 has 4 MA's), (45, 43031), (46, 43043), (73, 43250), (75, 43271), (76, 43274),

Gene: Clark_61 Start: 40299, Stop: 40820, Start Num: 14

Candidate Starts for Clark_61:

(9, 40254), (Start: 14 @40299 has 4 MA's), (15, 40311), (39, 40419), (47, 40494), (51, 40560), (61, 40623), (71, 40686), (83, 40800),

Gene: Crater_78 Start: 45182, Stop: 45649, Start Num: 18

Candidate Starts for Crater_78:

(Start: 18 @45182 has 11 MA's), (54, 45437), (56, 45449),

Gene: Denise_59 Start: 37230, Stop: 37658, Start Num: 17

Candidate Starts for Denise_59:

(Start: 17 @37230 has 1 MA's), (33, 37338), (47, 37440), (48, 37449),

Gene: DobbysSock_56 Start: 39905, Stop: 40468, Start Num: 14

Candidate Starts for DobbysSock_56:

(Start: 14 @39905 has 4 MA's), (15, 39917), (20, 39941), (25, 39980), (39, 40046), (41, 40052), (47, 40142), (51, 40208), (61, 40271), (71, 40334), (83, 40448),

Gene: Dusty_92 Start: 57740, Stop: 58351, Start Num: 18
Candidate Starts for Dusty_92:
(5, 57596), (16, 57722), (Start: 18 @57740 has 11 MA's), (28, 57821), (30, 57830), (34, 57842), (46, 57956), (49, 58010), (65, 58151), (73, 58220), (81, 58295), (84, 58313),

Gene: Easley_56 Start: 39021, Stop: 39443, Start Num: 31
Candidate Starts for Easley_56:
(8, 38835), (23, 38967), (29, 39015), (Start: 31 @39021 has 2 MA's), (35, 39033), (57, 39240), (58, 39246), (59, 39249), (63, 39291), (64, 39297), (72, 39342), (77, 39399), (78, 39411),

Gene: Ecliptus_84 Start: 48151, Stop: 48618, Start Num: 18
Candidate Starts for Ecliptus_84:
(Start: 18 @48151 has 11 MA's), (54, 48406), (56, 48418),

Gene: GAL1_62 Start: 40466, Stop: 40969, Start Num: 19
Candidate Starts for GAL1_62:
(11, 40409), (19, 40466), (22, 40478), (53, 40727), (71, 40850),

Gene: GMA1_53 Start: 33138, Stop: 33686, Start Num: 17
Candidate Starts for GMA1_53:
(Start: 17 @33138 has 1 MA's), (26, 33210), (38, 33267), (46, 33363), (68, 33531),

Gene: Halo3_7 Start: 3546, Stop: 4028, Start Num: 18
Candidate Starts for Halo3_7:
(6, 3414), (12, 3498), (Start: 18 @3546 has 11 MA's), (47, 3744), (55, 3795), (67, 3879), (69, 3888), (70, 3891), (73, 3930), (74, 3939), (79, 3987),

Gene: Horus_80 Start: 47249, Stop: 47716, Start Num: 18
Candidate Starts for Horus_80:
(Start: 18 @47249 has 11 MA's), (54, 47504), (56, 47516),

Gene: Kenna_77 Start: 45632, Stop: 46009, Start Num: 36
Candidate Starts for Kenna_77:
(Start: 36 @45632 has 4 MA's), (45, 45713), (46, 45725), (73, 45932),

Gene: Kuwabara_80 Start: 47595, Stop: 48080, Start Num: 18
Candidate Starts for Kuwabara_80:
(Start: 18 @47595 has 11 MA's), (47, 47805), (68, 47946),

Gene: Leroy_79 Start: 45444, Stop: 45911, Start Num: 18
Candidate Starts for Leroy_79:
(Start: 18 @45444 has 11 MA's), (54, 45699), (56, 45711),

Gene: LordFarquaad_58 Start: 39389, Stop: 39991, Start Num: 10
Candidate Starts for LordFarquaad_58:
(7, 39323), (Start: 10 @39389 has 5 MA's), (13, 39401), (21, 39455), (37, 39545), (42, 39581), (50, 39686), (62, 39788), (70, 39827), (80, 39935), (82, 39956),

Gene: Lton_57 Start: 34468, Stop: 34947, Start Num: 10
Candidate Starts for Lton_57:
(Start: 10 @34468 has 5 MA's), (42, 34654), (47, 34717), (50, 34756), (62, 34846),

Gene: Lutum_83 Start: 46794, Stop: 47171, Start Num: 36

Candidate Starts for Lutum_83:

(Start: 36 @46794 has 4 MA's), (45, 46875), (46, 46887), (73, 47094),

Gene: Miskis_93 Start: 57403, Stop: 58014, Start Num: 18

Candidate Starts for Miskis_93:

(5, 57259), (16, 57385), (Start: 18 @57403 has 11 MA's), (28, 57484), (30, 57493), (34, 57505), (46, 57619), (49, 57673), (65, 57814), (73, 57883), (81, 57958), (84, 57976),

Gene: Norvs_97 Start: 58732, Stop: 59343, Start Num: 18

Candidate Starts for Norvs_97:

(16, 58714), (Start: 18 @58732 has 11 MA's), (28, 58813), (30, 58822), (34, 58834), (46, 58948), (49, 59002), (65, 59143), (73, 59212), (81, 59287), (84, 59305),

Gene: Obliviate_79 Start: 48067, Stop: 48606, Start Num: 18

Candidate Starts for Obliviate_79:

(Start: 18 @48067 has 11 MA's), (34, 48169), (66, 48421), (73, 48478),

Gene: ParvusTarda_94 Start: 64352, Stop: 64807, Start Num: 24

Candidate Starts for ParvusTarda_94:

(Start: 24 @64352 has 1 MA's), (27, 64364), (40, 64415), (47, 64505), (52, 64568), (71, 64661), (83, 64775),

Gene: Pepperoni_56 Start: 35924, Stop: 36391, Start Num: 18

Candidate Starts for Pepperoni_56:

(Start: 18 @35924 has 11 MA's), (54, 36179), (56, 36191),

Gene: Phistory_77 Start: 44347, Stop: 44814, Start Num: 18

Candidate Starts for Phistory_77:

(Start: 18 @44347 has 11 MA's), (54, 44602), (56, 44614),

Gene: Samman98_62 Start: 40402, Stop: 40923, Start Num: 14

Candidate Starts for Samman98_62:

(9, 40357), (Start: 14 @40402 has 4 MA's), (15, 40414), (39, 40522), (47, 40597), (51, 40663), (61, 40726), (71, 40789), (83, 40903),

Gene: SoilAssassin_56 Start: 39407, Stop: 40009, Start Num: 10

Candidate Starts for SoilAssassin_56:

(7, 39341), (Start: 10 @39407 has 5 MA's), (13, 39419), (21, 39473), (37, 39563), (42, 39599), (50, 39704), (62, 39806), (70, 39845), (80, 39953), (82, 39974),

Gene: Thimann_62 Start: 40740, Stop: 41195, Start Num: 31

Candidate Starts for Thimann_62:

(8, 40554), (23, 40686), (29, 40734), (Start: 31 @40740 has 2 MA's), (35, 40752), (43, 40806), (44, 40815), (60, 40983), (71, 41061), (83, 41175),

Gene: TinyDot_53 Start: 33756, Stop: 34190, Start Num: 36

Candidate Starts for TinyDot_53:

(Start: 36 @33756 has 4 MA's), (45, 33837), (46, 33849),

Gene: Toniann_97 Start: 58672, Stop: 59283, Start Num: 18

Candidate Starts for Toniann_97:

(1, 57979), (2, 58339), (3, 58348), (4, 58453), (16, 58654), (Start: 18 @58672 has 11 MA's), (28, 58753), (30, 58762), (34, 58774), (46, 58888), (49, 58942), (65, 59083), (81, 59227), (84, 59245),

