

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 171651 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171651 has 33 members, 5 are drafts.

Phages represented in each track:

- Track 1 : AlanGrant_76, Vincenzo_75
- Track 2 : Funsized_23
- Track 3 : GodonK_14, GodonK_240
- Track 4 : Phendrix_230, Phendrix_14
- Track 5 : FarmerDoug_55
- Track 6 : Agente005_54
- Track 7 : Endor_57, GardenB_56
- Track 8 : SoilGremlin_56, Phriends_55, OldNelly_56, Delphidian_57
- Track 9 : Leafus_54, Hamlet_54, Peppino_54, Schnapsidee_54, Raccoon_54, Balsa_53
- Track 10 : JasonD_57
- Track 11 : BeeBee8_55
- Track 12 : Pikmin_54, Casey_54, Pajaza_54
- Track 13 : GaeCeo_56
- Track 14 : ChickenKing_54
- Track 15 : Cheeto1_56
- Track 16 : Megan_77
- Track 17 : Gravaillia_2
- Track 18 : Daegal_3
- Track 19 : StAugustine_104

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 17 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agente005_54, Balsa_53, BeeBee8_55, Casey_54, Cheeto1_56, ChickenKing_54, Delphidian_57, Endor_57, FarmerDoug_55, GardenB_56, Hamlet_54, JasonD_57, Leafus_54, OldNelly_56, Pajaza_54, Peppino_54, Phriends_55, Pikmin_54, Raccoon_54, Schnapsidee_54, SoilGremlin_56,

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

- GaeCeo_56,

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

- AlanGrant_76, Daegal_3, Funsized_23, GodonK_14, GodonK_240, Gravallia_2, Megan_77, Phendrix_14, Phendrix_230, StAugustine_104, Vincenzo_75,

Summary by start number:

Start 9:

- Found in 1 of 33 (3.0%) 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: Megan_77 (EC),

Start 12:

- Found in 3 of 33 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GaeCeo_56 (EA9),

Start 14:

- Found in 1 of 33 (3.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: StAugustine_104 (singleton),

Start 16:

- Found in 7 of 33 (21.2%) of genes in pham
- Manual Annotations of this start: 7 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant_76 (B4), Funsized_23 (B9), GodonK_14 (DK), GodonK_240 (DK), Phendrix_14 (DK), Phendrix_230 (DK), Vincenzo_75 (B4),

Start 17:

- Found in 22 of 33 (66.7%) of genes in pham
- Manual Annotations of this start: 17 of 28
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Agente005_54 (EA1), Balsa_53 (EA1), BeeBee8_55 (EA1), Casey_54 (EA3), Cheeto1_56 (EA9), ChickenKing_54 (EA9), Delphidian_57 (EA1), Endor_57 (EA1), FarmerDoug_55 (EA1), GardenB_56 (EA1), Hamlet_54 (EA1), JasonD_57 (EA1), Leafus_54 (EA1), OldNelly_56 (EA1), Pajaza_54 (EA3), Peppino_54 (EA1), Phriends_55 (EA1), Pikmin_54 (EA3), Raccoon_54 (EA1), Schnapsidee_54 (EA1), SoilGremlin_56 (EA1),

Start 19:

- Found in 2 of 33 (6.1%) 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: Daegal_3 (Q), Gravallia_2 (Q),

Summary by clusters:

There are 9 clusters represented in this pham: B4, singleton, DK, EC, EA9, Q, EA1, EA3, B9,

Info for manual annotations of cluster B4:

- Start number 16 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B9:

- Start number 16 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster DK:

- Start number 16 was manually annotated 4 times for cluster DK.

Info for manual annotations of cluster EA1:

- Start number 17 was manually annotated 12 times for cluster EA1.

Info for manual annotations of cluster EA3:

- Start number 17 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA9:

- Start number 12 was manually annotated 1 time for cluster EA9.
- Start number 17 was manually annotated 2 times for cluster EA9.

Info for manual annotations of cluster EC:

- Start number 9 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster Q:

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

Gene Information:

Gene: Agente005_54 Start: 37813, Stop: 37499, Start Num: 17

Candidate Starts for Agente005_54:

(Start: 17 @37813 has 17 MA's), (27, 37678), (29, 37672), (32, 37627),

Gene: AlanGrant_76 Start: 63236, Stop: 62979, Start Num: 16

Candidate Starts for AlanGrant_76:

(Start: 16 @63236 has 7 MA's), (20, 63212), (23, 63161), (24, 63134), (27, 63095),

Gene: Balsa_53 Start: 37838, Stop: 37536, Start Num: 17

Candidate Starts for Balsa_53:

(Start: 17 @37838 has 17 MA's), (33, 37649), (39, 37574),

Gene: BeeBee8_55 Start: 38012, Stop: 37710, Start Num: 17

Candidate Starts for BeeBee8_55:

(Start: 17 @38012 has 17 MA's), (27, 37877), (33, 37823), (39, 37748),

Gene: Casey_54 Start: 36538, Stop: 36284, Start Num: 17

Candidate Starts for Casey_54:

(Start: 17 @36538 has 17 MA's), (35, 36331), (38, 36319),

Gene: Cheeto1_56 Start: 38137, Stop: 37841, Start Num: 17

Candidate Starts for Cheeto1_56:

(Start: 12 @38197 has 1 MA's), (13, 38182), (Start: 17 @38137 has 17 MA's), (21, 38080),

Gene: ChickenKing_54 Start: 38291, Stop: 37995, Start Num: 17

Candidate Starts for ChickenKing_54:

(1, 38693), (Start: 12 @38351 has 1 MA's), (13, 38336), (Start: 17 @38291 has 17 MA's), (21, 38234), (26, 38156),

Gene: Daegal_3 Start: 1154, Stop: 930, Start Num: 19

Candidate Starts for Daegal_3:

(Start: 19 @1154 has 2 MA's), (22, 1094), (28, 1025), (30, 983),

Gene: Delphidian_57 Start: 37991, Stop: 37731, Start Num: 17

Candidate Starts for Delphidian_57:

(Start: 17 @37991 has 17 MA's), (27, 37853), (28, 37850),

Gene: Endor_57 Start: 38543, Stop: 38283, Start Num: 17

Candidate Starts for Endor_57:

(Start: 17 @38543 has 17 MA's), (27, 38405), (28, 38402), (36, 38327), (37, 38324),

Gene: FarmerDoug_55 Start: 38067, Stop: 37807, Start Num: 17

Candidate Starts for FarmerDoug_55:

(Start: 17 @38067 has 17 MA's), (27, 37929), (28, 37926), (36, 37851),

Gene: Funsized_23 Start: 19544, Stop: 19296, Start Num: 16

Candidate Starts for Funsized_23:

(4, 19742), (6, 19694), (Start: 16 @19544 has 7 MA's), (20, 19517), (23, 19466), (24, 19439),

Gene: GaeCeo_56 Start: 38584, Stop: 38228, Start Num: 12

Candidate Starts for GaeCeo_56:

(1, 38926), (Start: 12 @38584 has 1 MA's), (13, 38569), (Start: 17 @38524 has 17 MA's), (21, 38467), (26, 38389),

Gene: GardenB_56 Start: 38320, Stop: 38060, Start Num: 17

Candidate Starts for GardenB_56:

(Start: 17 @38320 has 17 MA's), (27, 38182), (28, 38179), (36, 38104), (37, 38101),

Gene: GodonK_14 Start: 5550, Stop: 5308, Start Num: 16

Candidate Starts for GodonK_14:

(Start: 16 @5550 has 7 MA's), (20, 5526), (23, 5475),

Gene: GodonK_240 Start: 120532, Stop: 120290, Start Num: 16

Candidate Starts for GodonK_240:

(Start: 16 @120532 has 7 MA's), (20, 120508), (23, 120457),

Gene: Gravaillia_2 Start: 866, Stop: 639, Start Num: 19

Candidate Starts for Gravaillia_2:

(Start: 19 @866 has 2 MA's), (28, 734),

Gene: Hamlet_54 Start: 37931, Stop: 37629, Start Num: 17

Candidate Starts for Hamlet_54:

(Start: 17 @37931 has 17 MA's), (33, 37742), (39, 37667),

Gene: JasonD_57 Start: 37644, Stop: 37333, Start Num: 17

Candidate Starts for JasonD_57:

(Start: 17 @37644 has 17 MA's), (28, 37506), (39, 37371),

Gene: Leafus_54 Start: 37994, Stop: 37692, Start Num: 17

Candidate Starts for Leafus_54:

(Start: 17 @37994 has 17 MA's), (33, 37805), (39, 37730),

Gene: Megan_77 Start: 50316, Stop: 50684, Start Num: 9

Candidate Starts for Megan_77:

(Start: 9 @50316 has 1 MA's), (10, 50322), (15, 50379), (20, 50412), (23, 50463), (31, 50574),

Gene: OldNelly_56 Start: 37995, Stop: 37735, Start Num: 17

Candidate Starts for OldNelly_56:

(Start: 17 @37995 has 17 MA's), (27, 37857), (28, 37854),

Gene: Pajaza_54 Start: 36538, Stop: 36284, Start Num: 17

Candidate Starts for Pajaza_54:

(Start: 17 @36538 has 17 MA's), (35, 36331), (38, 36319),

Gene: Peppino_54 Start: 37824, Stop: 37522, Start Num: 17

Candidate Starts for Peppino_54:

(Start: 17 @37824 has 17 MA's), (33, 37635), (39, 37560),

Gene: Phendrix_230 Start: 119315, Stop: 119073, Start Num: 16

Candidate Starts for Phendrix_230:

(7, 119390), (8, 119384), (11, 119366), (Start: 16 @119315 has 7 MA's), (23, 119240),

Gene: Phendrix_14 Start: 5717, Stop: 5475, Start Num: 16

Candidate Starts for Phendrix_14:

(7, 5792), (8, 5786), (11, 5768), (Start: 16 @5717 has 7 MA's), (23, 5642),

Gene: Phriends_55 Start: 37999, Stop: 37739, Start Num: 17

Candidate Starts for Phriends_55:

(Start: 17 @37999 has 17 MA's), (27, 37861), (28, 37858),

Gene: Pikmin_54 Start: 36538, Stop: 36284, Start Num: 17

Candidate Starts for Pikmin_54:

(Start: 17 @36538 has 17 MA's), (35, 36331), (38, 36319),

Gene: Raccoon_54 Start: 37795, Stop: 37493, Start Num: 17

Candidate Starts for Raccoon_54:

(Start: 17 @37795 has 17 MA's), (33, 37606), (39, 37531),

Gene: Schnapsidee_54 Start: 37869, Stop: 37567, Start Num: 17

Candidate Starts for Schnapsidee_54:

(Start: 17 @37869 has 17 MA's), (33, 37680), (39, 37605),

Gene: SoilGremlin_56 Start: 37992, Stop: 37732, Start Num: 17

Candidate Starts for SoilGremlin_56:

(Start: 17 @37992 has 17 MA's), (27, 37854), (28, 37851),

Gene: StAugustine_104 Start: 72844, Stop: 72515, Start Num: 14

Candidate Starts for StAugustine_104:

(2, 73084), (3, 73060), (5, 72970), (14, 72844), (18, 72802), (20, 72787), (25, 72700), (27, 72673), (28, 72670), (31, 72625), (34, 72610),

Gene: Vincenzo_75 Start: 63266, Stop: 63009, Start Num: 16

Candidate Starts for Vincenzo_75:

(Start: 16 @63266 has 7 MA's), (20, 63242), (23, 63191), (24, 63164), (27, 63125),