Pham 283854

1: AlanGrant_76 + 1
2: Funsized_23
3: Knocker_97
4: Rinkes_23
5: GodonK_14 + 1
6: Phendrix_230 + 1
7: McGalleon_55
8: FarmerDoug_55
9: Nagem_55 + 5
10: Endor_57 + 2
11: SoilGremlin_56 + 5
12: Acosta_56
13: Jenos_56
14: Carostasia_54 + 1
15: HairyMan_53
16: MiniVolent_55
17: Juanyo_56
18: Nucci_54
19: YuuY_55
20: Quartz_55
21: Pikmin_54 + 2
22: Koji_48 + 1
23: RenegadeRaider_51
24: Schubert_53
25: CardboardBox_48 + 6
26: Mireles_28
27: TMaxx_30
28: Studio_51
29: Makima_28
30: Daegal_3
31: Gravaillia_2

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 283854 Report

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

Pham number 283854 has 56 members, 15 are drafts.

Phages represented in each track:
• Track 1 : AlanGrant_76, Vincenzo_75
• Track 2 : Funsized_23
• Track 3 : Knocker_97
• Track 4 : Rinkes_23
• Track 5 : GodonK_14, GodonK_240
• Track 6 : Phendrix_230, Phendrix_14
• Track 7 : McGalleon_55
• Track 8 : FarmerDoug_55
• Track 9 : Nagem_55, Alyxandracam_55, SJay_55, MaeLinda_55, Baines_54, Bandik_55
• Track 10 : Endor_57, GardenB_56, GoneGirl_57
• Track 11 : SoilGremlin_56, Phriends_55, OldNelly_56, Merida02_57, Delphidian_55, SolidSnake_57
• Track 12 : Acosta_56
• Track 13 : Jenos_56
• Track 14 : Carostasia_54, Mandalorian_54
• Track 15 : HairyMan_53
• Track 16 : MiniVolent_55
• Track 17 : Juanyo_56
• Track 18 : Nucci_54
• Track 19 : YuuY_55
• Track 20 : Quartz_55
• Track 21 : Pikmin_54, Casey_54, Pajaza_54
• Track 22 : Koji_48, Kauala_48
• Track 23 : RenegadeRaider_51
• Track 24 : Schubert_53
• Track 25 : CardboardBox_48, Roberts_47, ChipsNGuac_48, Neuvillette_47, Gerri43_48, ChamoyPickle_49, AnnabelLee_48
• Track 26 : Mireles_28
• Track 27 : TMaxx_30
• Track 28 : Studio_51
• Track 29 : Makima_28
• Track 30 : Daegal_3
• Track 31 : Gravaillia_2

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

The start number called the most often in the published annotations is 10, it was called in 32 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acosta_56, AlanGrant_76, Alyxandracam_55, Baines_54, Bandik_55, Carostasia_54, Casey_54, Delphidian_55, Endor_57, FarmerDoug_55, Funsized_23, GardenB_56, GoneGirl_57, HairyMan_53, Jenos_56, Kauala_48, Knocker_97, Koji_48, MaeLinda_55, Mandalorian_54, McGalleon_55, Merida02_57, MiniVolent_55, Nagem_55, Nucci_54, OldNelly_56, Pajaza_54, Phriends_55, Pikmin_54, RenegadeRaider_51, Rinkes_23, SJay_55, Schubert_53, SoilGremlin_56, SolidSnake_57, Vincenzo_75, YuuY_55,

Genes that have the "Most Annotated" start but do not call it:
• Juanyo_56, Quartz_55,

Genes that do not have the "Most Annotated" start:
• AnnabelLee_48, CardboardBox_48, ChamoyPickle_49, ChipsNGuac_48, Daegal_3, Gerri43_48, GodonK_14, GodonK_240, Gravaillia_2, Makima_28, Mireles_28, Neuvillette_47, Phendrix_14, Phendrix_230, Roberts_47, Studio_51, TMaxx_30,

Summary by start number:

Start 3:
• Found in 3 of 56 (5.4%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Quartz_55 (EA10),

Start 4:
• Found in 2 of 56 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Juanyo_56 (EA10),

Start 9:
• Found in 4 of 56 (7.1%) of genes in pham
• Manual Annotations of this start: 4 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GodonK_14 (DK), GodonK_240 (DK), Phendrix_14 (DK), Phendrix_230 (DK),

Start 10:
• Found in 39 of 56 (69.6%) of genes in pham
• Manual Annotations of this start: 32 of 41
• Called 94.9% of time when present
• Phage (with cluster) where this start called: Acosta_56 (EA1), AlanGrant_76 (B4), Alyxandracam_55 (EA1), Baines_54 (EA1), Bandik_55 (EA1), Carostasia_54 (EA10), Casey_54 (EA3), Delphidian_55 (EA1), Endor_57 (EA1), FarmerDoug_55 (EA1), Funsized_23 (B9), GardenB_56 (EA1), GoneGirl_57 (EA1), HairyMan_53 (EA10), Jenos_56 (EA1), Kauala_48 (EA4), Knocker_97 (B9), Koji_48 (EA4), MaeLinda_55

(EA1), Mandalorian_54 (EA10), McGalleon_55 (EA1), Merida02_57 (EA1), MiniVolent_55 (EA10), Nagem_55 (EA1), Nucci_54 (EA10), OldNelly_56 (EA1), Pajaza_54 (EA3), Phriends_55 (EA1), Pikmin_54 (EA3), RenegadeRaider_51 (EA4), Rinkes_23 (B9), SJay_55 (EA1), Schubert_53 (EA8), SoilGremlin_56 (EA1), SolidSnake_57 (EA1), Vincenzo_75 (B4), YuuY_55 (EA10),

Start 11:
• Found in 1 of 56 (1.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Studio_51 (FR),

Start 12:
• Found in 2 of 56 (3.6%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daegal_3 (Q), Gravaillia_2 (Q),

Start 13:
• Found in 10 of 56 (17.9%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnnabelLee_48 (FR), CardboardBox_48 (FR), ChamoyPickle_49 (FR), ChipsNGuac_48 (FR), Gerri43_48 (FR), Makima_28 (FR), Mireles_28 (FR), Neuvillette_47 (FR), Roberts_47 (FR), TMaxx_30 (FR),

Summary by clusters:

There are 10 clusters represented in this pham: Q, FR, EA10, B9, B4, EA8, EA1, EA3, EA4, DK,

Info for manual annotations of cluster B4:
•Start number 10 was manually annotated 2 times for cluster B4.

Info for manual annotations of cluster B9:
•Start number 10 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster DK:
•Start number 9 was manually annotated 4 times for cluster DK.

Info for manual annotations of cluster EA1:
•Start number 10 was manually annotated 16 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 3 was manually annotated 1 time for cluster EA10.
•Start number 4 was manually annotated 1 time for cluster EA10.
•Start number 10 was manually annotated 5 times for cluster EA10.

Info for manual annotations of cluster EA3:
•Start number 10 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 10 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA8:
•Start number 10 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster FR:
•Start number 13 was manually annotated 1 time for cluster FR.

Info for manual annotations of cluster Q:
•Start number 12 was manually annotated 2 times for cluster Q.

Gene Information:

Gene: Acosta_56 Start: 37827, Stop: 37555, Start Num: 10
Candidate Starts for Acosta_56:
(Start: 10 @37827 has 32 MA's), (20, 37731), (26, 37686),

Gene: AlanGrant_76 Start: 63236, Stop: 62979, Start Num: 10
Candidate Starts for AlanGrant_76:
(Start: 10 @63236 has 32 MA's), (14, 63212), (17, 63161), (20, 63134), (24, 63095),

Gene: Alyxandracam_55 Start: 38007, Stop: 37705, Start Num: 10
Candidate Starts for Alyxandracam_55:
(Start: 10 @38007 has 32 MA's), (24, 37872), (30, 37818),

Gene: AnnabelLee_48 Start: 31169, Stop: 30939, Start Num: 13
Candidate Starts for AnnabelLee_48:
(Start: 13 @31169 has 1 MA's), (21, 31070), (27, 31028),

Gene: Baines_54 Start: 37755, Stop: 37453, Start Num: 10
Candidate Starts for Baines_54:
(Start: 10 @37755 has 32 MA's), (24, 37620), (30, 37566),

Gene: Bandik_55 Start: 38002, Stop: 37700, Start Num: 10
Candidate Starts for Bandik_55:
(Start: 10 @38002 has 32 MA's), (24, 37867), (30, 37813),

Gene: CardboardBox_48 Start: 31172, Stop: 30942, Start Num: 13
Candidate Starts for CardboardBox_48:
(Start: 13 @31172 has 1 MA's), (21, 31073), (27, 31031),

Gene: Carostasia_54 Start: 36652, Stop: 36395, Start Num: 10
Candidate Starts for Carostasia_54:
(Start: 3 @36745 has 1 MA's), (Start: 10 @36652 has 32 MA's), (20, 36556), (24, 36517), (29, 36472), (34, 36445),

Gene: Casey_54 Start: 36538, Stop: 36284, Start Num: 10
Candidate Starts for Casey_54:
(Start: 10 @36538 has 32 MA's), (32, 36331), (36, 36319),

Gene: ChamoyPickle_49 Start: 31712, Stop: 31482, Start Num: 13
Candidate Starts for ChamoyPickle_49:

(Start: 13 @31712 has 1 MA's), (21, 31613), (27, 31571),

Gene: ChipsNGuac_48 Start: 31172, Stop: 30942, Start Num: 13
Candidate Starts for ChipsNGuac_48:
(Start: 13 @31172 has 1 MA's), (21, 31073), (27, 31031),

Gene: Daegal_3 Start: 1154, Stop: 930, Start Num: 12
Candidate Starts for Daegal_3:
(Start: 12 @1154 has 2 MA's), (16, 1094), (25, 1025), (28, 983),

Gene: Delphidian_55 Start: 37991, Stop: 37731, Start Num: 10
Candidate Starts for Delphidian_55:
(Start: 10 @37991 has 32 MA's), (24, 37853), (25, 37850),

Gene: Endor_57 Start: 38543, Stop: 38283, Start Num: 10
Candidate Starts for Endor_57:
(Start: 10 @38543 has 32 MA's), (24, 38405), (25, 38402), (33, 38327), (34, 38324),

Gene: FarmerDoug_55 Start: 38067, Stop: 37807, Start Num: 10
Candidate Starts for FarmerDoug_55:
(Start: 10 @38067 has 32 MA's), (24, 37929), (25, 37926), (33, 37851),

Gene: Funsized_23 Start: 19544, Stop: 19296, Start Num: 10
Candidate Starts for Funsized_23:
(1, 19742), (2, 19694), (Start: 10 @19544 has 32 MA's), (14, 19517), (17, 19466), (20, 19439),

Gene: GardenB_56 Start: 38320, Stop: 38060, Start Num: 10
Candidate Starts for GardenB_56:
(Start: 10 @38320 has 32 MA's), (24, 38182), (25, 38179), (33, 38104), (34, 38101),

Gene: Gerri43_48 Start: 31172, Stop: 30942, Start Num: 13
Candidate Starts for Gerri43_48:
(Start: 13 @31172 has 1 MA's), (21, 31073), (27, 31031),

Gene: GodonK_14 Start: 5550, Stop: 5308, Start Num: 9
Candidate Starts for GodonK_14:
(Start: 9 @5550 has 4 MA's), (14, 5526), (17, 5475),

Gene: GodonK_240 Start: 120532, Stop: 120290, Start Num: 9
Candidate Starts for GodonK_240:
(Start: 9 @120532 has 4 MA's), (14, 120508), (17, 120457),

Gene: GoneGirl_57 Start: 38307, Stop: 38047, Start Num: 10
Candidate Starts for GoneGirl_57:
(Start: 10 @38307 has 32 MA's), (24, 38169), (25, 38166), (33, 38091), (34, 38088),

Gene: Gravaillia_2 Start: 866, Stop: 639, Start Num: 12
Candidate Starts for Gravaillia_2:
(Start: 12 @866 has 2 MA's), (25, 734),

Gene: HairyMan_53 Start: 37770, Stop: 37519, Start Num: 10
Candidate Starts for HairyMan_53:
(Start: 10 @37770 has 32 MA's), (19, 37686), (23, 37638), (24, 37635),

Gene: Jenos_56 Start: 38342, Stop: 38070, Start Num: 10
Candidate Starts for Jenos_56:
(Start: 10 @38342 has 32 MA's), (20, 38246), (26, 38201), (30, 38153),

Gene: Juanyo_56 Start: 37419, Stop: 37084, Start Num: 4
Candidate Starts for Juanyo_56:
(Start: 4 @37419 has 1 MA's), (Start: 10 @37326 has 32 MA's), (20, 37230), (24, 37206), (34, 37134),

Gene: Kauala_48 Start: 35372, Stop: 35127, Start Num: 10
Candidate Starts for Kauala_48:
(Start: 10 @35372 has 32 MA's), (20, 35276), (24, 35237),

Gene: Knocker_97 Start: 70879, Stop: 70643, Start Num: 10
Candidate Starts for Knocker_97:
(Start: 10 @70879 has 32 MA's), (14, 70861), (15, 70855), (18, 70804), (32, 70678),

Gene: Koji_48 Start: 35362, Stop: 35105, Start Num: 10
Candidate Starts for Koji_48:
(Start: 10 @35362 has 32 MA's), (20, 35266), (24, 35227),

Gene: MaeLinda_55 Start: 38006, Stop: 37704, Start Num: 10
Candidate Starts for MaeLinda_55:
(Start: 10 @38006 has 32 MA's), (24, 37871), (30, 37817),

Gene: Makima_28 Start: 19515, Stop: 19291, Start Num: 13
Candidate Starts for Makima_28:
(Start: 13 @19515 has 1 MA's), (27, 19377), (29, 19341),

Gene: Mandalorian_54 Start: 36663, Stop: 36406, Start Num: 10
Candidate Starts for Mandalorian_54:
(Start: 3 @36756 has 1 MA's), (Start: 10 @36663 has 32 MA's), (20, 36567), (24, 36528), (29, 36483), (34, 36456),

Gene: McGalleon_55 Start: 38480, Stop: 38208, Start Num: 10
Candidate Starts for McGalleon_55:
(Start: 10 @38480 has 32 MA's), (20, 38384), (26, 38339), (30, 38291),

Gene: Merida02_57 Start: 37998, Stop: 37738, Start Num: 10
Candidate Starts for Merida02_57:
(Start: 10 @37998 has 32 MA's), (24, 37860), (25, 37857),

Gene: MiniVolent_55 Start: 37294, Stop: 37037, Start Num: 10
Candidate Starts for MiniVolent_55:
(Start: 4 @37387 has 1 MA's), (Start: 10 @37294 has 32 MA's), (24, 37159), (34, 37087),

Gene: Mireles_28 Start: 18449, Stop: 18216, Start Num: 13
Candidate Starts for Mireles_28:
(8, 18485), (Start: 13 @18449 has 1 MA's), (27, 18311), (35, 18254),

Gene: Nagem_55 Start: 38045, Stop: 37743, Start Num: 10
Candidate Starts for Nagem_55:
(Start: 10 @38045 has 32 MA's), (24, 37910), (30, 37856),

Gene: Neuvillette_47 Start: 31172, Stop: 30942, Start Num: 13
Candidate Starts for Neuvillette_47:
(Start: 13 @31172 has 1 MA's), (21, 31073), (27, 31031),

Gene: Nucci_54 Start: 36629, Stop: 36366, Start Num: 10
Candidate Starts for Nucci_54:
(Start: 10 @36629 has 32 MA's), (20, 36533), (24, 36494),

Gene: OldNelly_56 Start: 37995, Stop: 37735, Start Num: 10
Candidate Starts for OldNelly_56:
(Start: 10 @37995 has 32 MA's), (24, 37857), (25, 37854),

Gene: Pajaza_54 Start: 36538, Stop: 36284, Start Num: 10
Candidate Starts for Pajaza_54:
(Start: 10 @36538 has 32 MA's), (32, 36331), (36, 36319),

Gene: Phendrix_230 Start: 119315, Stop: 119073, Start Num: 9
Candidate Starts for Phendrix_230:
(5, 119390), (6, 119384), (7, 119366), (Start: 9 @119315 has 4 MA's), (17, 119240),

Gene: Phendrix_14 Start: 5717, Stop: 5475, Start Num: 9
Candidate Starts for Phendrix_14:
(5, 5792), (6, 5786), (7, 5768), (Start: 9 @5717 has 4 MA's), (17, 5642),

Gene: Phriends_55 Start: 37999, Stop: 37739, Start Num: 10
Candidate Starts for Phriends_55:
(Start: 10 @37999 has 32 MA's), (24, 37861), (25, 37858),

Gene: Pikmin_54 Start: 36538, Stop: 36284, Start Num: 10
Candidate Starts for Pikmin_54:
(Start: 10 @36538 has 32 MA's), (32, 36331), (36, 36319),

Gene: Quartz_55 Start: 36869, Stop: 36519, Start Num: 3
Candidate Starts for Quartz_55:
(Start: 3 @36869 has 1 MA's), (Start: 10 @36776 has 32 MA's), (20, 36680), (24, 36641), (29, 36596),
(34, 36569),

Gene: RenegadeRaider_51 Start: 35067, Stop: 34810, Start Num: 10
Candidate Starts for RenegadeRaider_51:
(Start: 10 @35067 has 32 MA's), (20, 34971), (24, 34932),

Gene: Rinkes_23 Start: 19467, Stop: 19222, Start Num: 10
Candidate Starts for Rinkes_23:
(Start: 10 @19467 has 32 MA's), (14, 19443), (17, 19392), (18, 19386), (22, 19347), (24, 19326),

Gene: Roberts_47 Start: 31172, Stop: 30942, Start Num: 13
Candidate Starts for Roberts_47:
(Start: 13 @31172 has 1 MA's), (21, 31073), (27, 31031),

Gene: SJay_55 Start: 38046, Stop: 37744, Start Num: 10
Candidate Starts for SJay_55:
(Start: 10 @38046 has 32 MA's), (24, 37911), (30, 37857),

Gene: Schubert_53 Start: 37310, Stop: 37065, Start Num: 10
Candidate Starts for Schubert_53:
(Start: 10 @37310 has 32 MA's), (24, 37175),

Gene: SoilGremlin_56 Start: 37992, Stop: 37732, Start Num: 10
Candidate Starts for SoilGremlin_56:
(Start: 10 @37992 has 32 MA's), (24, 37854), (25, 37851),

Gene: SolidSnake_57 Start: 37991, Stop: 37731, Start Num: 10
Candidate Starts for SolidSnake_57:
(Start: 10 @37991 has 32 MA's), (24, 37853), (25, 37850),

Gene: Studio_51 Start: 32697, Stop: 32470, Start Num: 11
Candidate Starts for Studio_51:
(11, 32697), (21, 32592), (27, 32553),

Gene: TMaxx_30 Start: 18671, Stop: 18444, Start Num: 13
Candidate Starts for TMaxx_30:
(Start: 13 @18671 has 1 MA's), (27, 18533), (35, 18476),

Gene: Vincenzo_75 Start: 63266, Stop: 63009, Start Num: 10
Candidate Starts for Vincenzo_75:
(Start: 10 @63266 has 32 MA's), (14, 63242), (17, 63191), (20, 63164), (24, 63125),

Gene: YuuY_55 Start: 37195, Stop: 36938, Start Num: 10
Candidate Starts for YuuY_55:
(Start: 10 @37195 has 32 MA's), (20, 37099), (24, 37060), (31, 37003), (34, 36988),