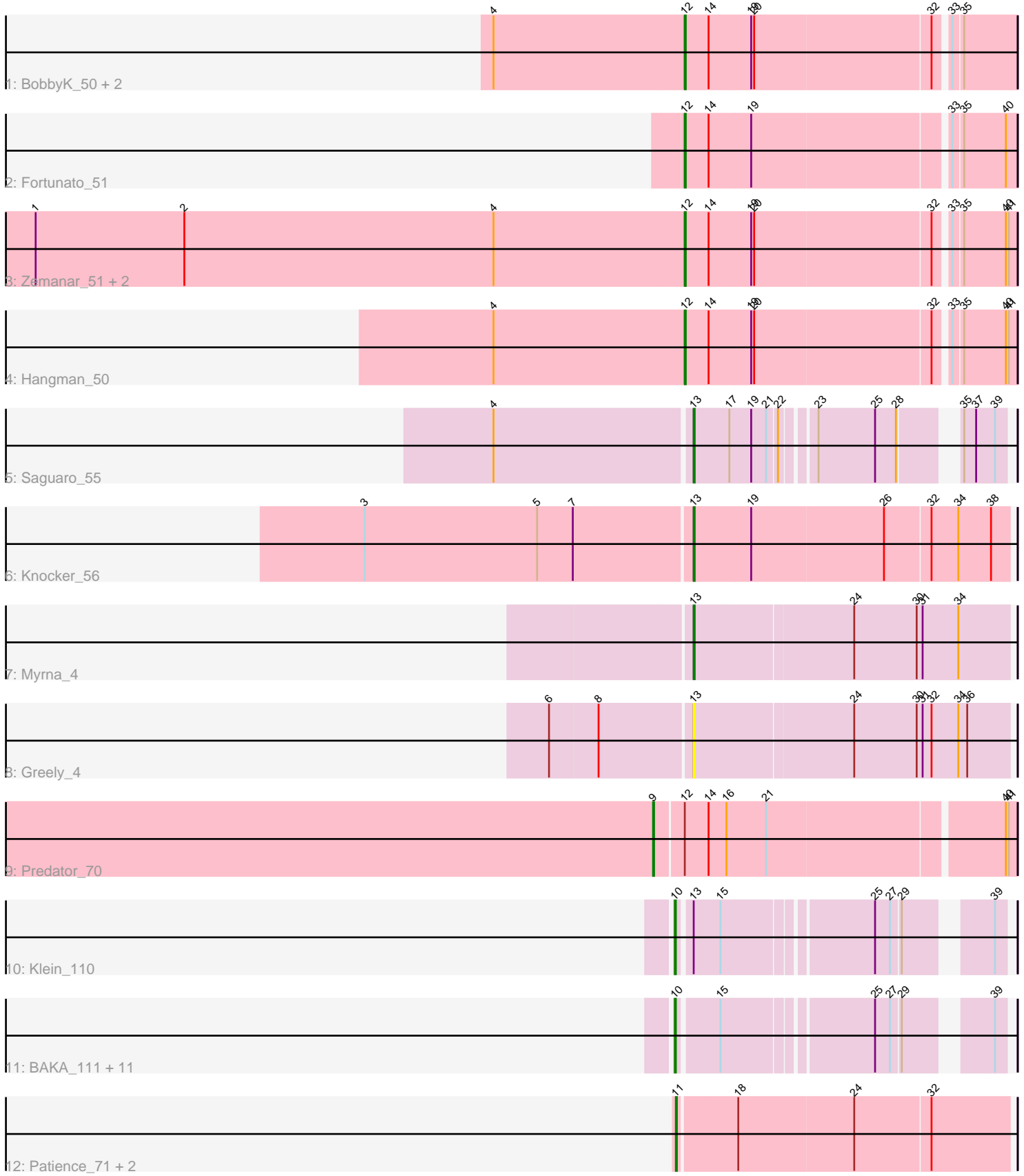


Pham 158086



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 158086 Report

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

Pham number 158086 has 29 members, 4 are drafts.

Phages represented in each track:

- Track 1 : BobbyK_50, Frederick_50, Mithril_50
- Track 2 : Fortunato_51
- Track 3 : Zemanar_51, Waleliano_50, BrownCNA_52
- Track 4 : Hangman_50
- Track 5 : Saguaro_55
- Track 6 : Knocker_56
- Track 7 : Myrna_4
- Track 8 : Greely_4
- Track 9 : Predator_70
- Track 10 : Klein_110
- Track 11 : BAKA_111, Schatzie_105, Dove_100, Bombitas_99, Wanda_113, NihilNomen_112, HokkenD_100, Pound_102, Minerva_110, Yeet_102, Optimus_104, Duke13_106
- Track 12 : Patience_71, Madrugada_69, Labelle_71

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 12 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_111, Bombitas_99, Dove_100, Duke13_106, HokkenD_100, Klein_110, Minerva_110, NihilNomen_112, Optimus_104, Pound_102, Schatzie_105, Wanda_113, Yeet_102,

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

-

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

- BobbyK_50, BrownCNA_52, Fortunato_51, Frederick_50, Greely_4, Hangman_50, Knocker_56, Labelle_71, Madrugada_69, Mithril_50, Myrna_4, Patience_71, Predator_70, Saguaro_55, Waleliano_50, Zemanar_51,

Summary by start number:

Start 9:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Predator_70 (H1),

Start 10:

- Found in 13 of 29 (44.8%) of genes in pham
- Manual Annotations of this start: 12 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BAKA_111 (J), Bombitas_99 (J), Dove_100 (J), Duke13_106 (J), HokkenD_100 (J), Klein_110 (J), Minerva_110 (J), NihilNomen_112 (J), Optimus_104 (J), Pound_102 (J), Schatzie_105 (J), Wanda_113 (J), Yeet_102 (J),

Start 11:

- Found in 3 of 29 (10.3%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle_71 (U), Madruga_69 (U), Patience_71 (U),

Start 12:

- Found in 9 of 29 (31.0%) of genes in pham
- Manual Annotations of this start: 6 of 25
- Called 88.9% of time when present
- Phage (with cluster) where this start called: BobbyK_50 (B4), BrownCNA_52 (B4), Fortunato_51 (B4), Frederick_50 (B4), Hangman_50 (B4), Mithril_50 (B4), Waleliano_50 (B4), Zemanar_51 (B4),

Start 13:

- Found in 5 of 29 (17.2%) of genes in pham
- Manual Annotations of this start: 3 of 25
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Greely_4 (C2), Knocker_56 (B9), Myrna_4 (C2), Saguario_55 (B7),

Summary by clusters:

There are 7 clusters represented in this pham: H1, J, B4, B7, U, C2, B9,

Info for manual annotations of cluster B4:

- Start number 12 was manually annotated 6 times for cluster B4.

Info for manual annotations of cluster B7:

- Start number 13 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:

- Start number 13 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster C2:

- Start number 13 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster H1:

- Start number 9 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster J:

- Start number 10 was manually annotated 12 times for cluster J.

Info for manual annotations of cluster U:

- Start number 11 was manually annotated 3 times for cluster U.

Gene Information:

Gene: BAKA_111 Start: 63801, Stop: 64082, Start Num: 10

Candidate Starts for BAKA_111:

(Start: 10 @63801 has 12 MA's), (15, 63840), (25, 63978), (27, 63993), (29, 64002), (39, 64071),

Gene: BobbyK_50 Start: 48607, Stop: 48290, Start Num: 12

Candidate Starts for BobbyK_50:

(4, 48799), (Start: 12 @48607 has 6 MA's), (14, 48583), (19, 48541), (20, 48538), (32, 48364), (33, 48352), (35, 48343),

Gene: Bombitas_99 Start: 61026, Stop: 61307, Start Num: 10

Candidate Starts for Bombitas_99:

(Start: 10 @61026 has 12 MA's), (15, 61065), (25, 61203), (27, 61218), (29, 61227), (39, 61296),

Gene: BrownCNA_52 Start: 48871, Stop: 48554, Start Num: 12

Candidate Starts for BrownCNA_52:

(1, 49525), (2, 49375), (4, 49063), (Start: 12 @48871 has 6 MA's), (14, 48847), (19, 48805), (20, 48802), (32, 48628), (33, 48616), (35, 48607), (40, 48565), (41, 48562),

Gene: Dove_100 Start: 59292, Stop: 59573, Start Num: 10

Candidate Starts for Dove_100:

(Start: 10 @59292 has 12 MA's), (15, 59331), (25, 59469), (27, 59484), (29, 59493), (39, 59562),

Gene: Duke13_106 Start: 61469, Stop: 61750, Start Num: 10

Candidate Starts for Duke13_106:

(Start: 10 @61469 has 12 MA's), (15, 61508), (25, 61646), (27, 61661), (29, 61670), (39, 61739),

Gene: Fortunato_51 Start: 48643, Stop: 48326, Start Num: 12

Candidate Starts for Fortunato_51:

(Start: 12 @48643 has 6 MA's), (14, 48619), (19, 48577), (33, 48388), (35, 48379), (40, 48337),

Gene: Frederick_50 Start: 48604, Stop: 48287, Start Num: 12

Candidate Starts for Frederick_50:

(4, 48796), (Start: 12 @48604 has 6 MA's), (14, 48580), (19, 48538), (20, 48535), (32, 48361), (33, 48349), (35, 48340),

Gene: Greely_4 Start: 1972, Stop: 2283, Start Num: 13

Candidate Starts for Greely_4:

(6, 1834), (8, 1882), (Start: 13 @1972 has 3 MA's), (24, 2128), (30, 2191), (31, 2197), (32, 2206), (34, 2233), (36, 2242),

Gene: Hangman_50 Start: 48689, Stop: 48372, Start Num: 12

Candidate Starts for Hangman_50:

(4, 48881), (Start: 12 @48689 has 6 MA's), (14, 48665), (19, 48623), (20, 48620), (32, 48446), (33, 48434), (35, 48425), (40, 48383), (41, 48380),

Gene: HokkenD_100 Start: 62132, Stop: 62413, Start Num: 10

Candidate Starts for HokkenD_100:

(Start: 10 @62132 has 12 MA's), (15, 62171), (25, 62309), (27, 62324), (29, 62333), (39, 62402),

Gene: Klein_110 Start: 62530, Stop: 62811, Start Num: 10

Candidate Starts for Klein_110:

(Start: 10 @62530 has 12 MA's), (Start: 13 @62542 has 3 MA's), (15, 62569), (25, 62707), (27, 62722), (29, 62731), (39, 62800),

Gene: Knocker_56 Start: 50551, Stop: 50240, Start Num: 13

Candidate Starts for Knocker_56:

(3, 50878), (5, 50704), (7, 50668), (Start: 13 @50551 has 3 MA's), (19, 50494), (26, 50362), (32, 50317), (34, 50290), (38, 50257),

Gene: Labelle_71 Start: 47030, Stop: 47353, Start Num: 11

Candidate Starts for Labelle_71:

(Start: 11 @47030 has 3 MA's), (18, 47087), (24, 47201), (32, 47276),

Gene: Madruga_69 Start: 46679, Stop: 47002, Start Num: 11

Candidate Starts for Madruga_69:

(Start: 11 @46679 has 3 MA's), (18, 46736), (24, 46850), (32, 46925),

Gene: Minerva_110 Start: 63809, Stop: 64090, Start Num: 10

Candidate Starts for Minerva_110:

(Start: 10 @63809 has 12 MA's), (15, 63848), (25, 63986), (27, 64001), (29, 64010), (39, 64079),

Gene: Mithril_50 Start: 48617, Stop: 48300, Start Num: 12

Candidate Starts for Mithril_50:

(4, 48809), (Start: 12 @48617 has 6 MA's), (14, 48593), (19, 48551), (20, 48548), (32, 48374), (33, 48362), (35, 48353),

Gene: Myrna_4 Start: 1823, Stop: 2134, Start Num: 13

Candidate Starts for Myrna_4:

(Start: 13 @1823 has 3 MA's), (24, 1979), (30, 2042), (31, 2048), (34, 2084),

Gene: NihilNomen_112 Start: 63950, Stop: 64231, Start Num: 10

Candidate Starts for NihilNomen_112:

(Start: 10 @63950 has 12 MA's), (15, 63989), (25, 64127), (27, 64142), (29, 64151), (39, 64220),

Gene: Optimus_104 Start: 62481, Stop: 62762, Start Num: 10

Candidate Starts for Optimus_104:

(Start: 10 @62481 has 12 MA's), (15, 62520), (25, 62658), (27, 62673), (29, 62682), (39, 62751),

Gene: Patience_71 Start: 47574, Stop: 47897, Start Num: 11

Candidate Starts for Patience_71:

(Start: 11 @47574 has 3 MA's), (18, 47631), (24, 47745), (32, 47820),

Gene: Pound_102 Start: 62827, Stop: 63108, Start Num: 10

Candidate Starts for Pound_102:

(Start: 10 @62827 has 12 MA's), (15, 62866), (25, 63004), (27, 63019), (29, 63028), (39, 63097),

Gene: Predator_70 Start: 51316, Stop: 51663, Start Num: 9

Candidate Starts for Predator_70:

(Start: 9 @51316 has 1 MA's), (Start: 12 @51343 has 6 MA's), (14, 51367), (16, 51385), (21, 51424), (40, 51652), (41, 51655),

Gene: Saguaro_55 Start: 49468, Stop: 49199, Start Num: 13

Candidate Starts for Saguaro_55:

(4, 49663), (Start: 13 @49468 has 3 MA's), (17, 49432), (19, 49411), (21, 49396), (22, 49387), (23, 49360), (25, 49303), (28, 49282), (35, 49240), (37, 49228), (39, 49210),

Gene: Schatzie_105 Start: 62740, Stop: 63021, Start Num: 10

Candidate Starts for Schatzie_105:

(Start: 10 @62740 has 12 MA's), (15, 62779), (25, 62917), (27, 62932), (29, 62941), (39, 63010),

Gene: Waleliano_50 Start: 48603, Stop: 48286, Start Num: 12

Candidate Starts for Waleliano_50:

(1, 49257), (2, 49107), (4, 48795), (Start: 12 @48603 has 6 MA's), (14, 48579), (19, 48537), (20, 48534), (32, 48360), (33, 48348), (35, 48339), (40, 48297), (41, 48294),

Gene: Wanda_113 Start: 62807, Stop: 63088, Start Num: 10

Candidate Starts for Wanda_113:

(Start: 10 @62807 has 12 MA's), (15, 62846), (25, 62984), (27, 62999), (29, 63008), (39, 63077),

Gene: Yeet_102 Start: 61905, Stop: 62186, Start Num: 10

Candidate Starts for Yeet_102:

(Start: 10 @61905 has 12 MA's), (15, 61944), (25, 62082), (27, 62097), (29, 62106), (39, 62175),

Gene: Zemanar_51 Start: 48584, Stop: 48267, Start Num: 12

Candidate Starts for Zemanar_51:

(1, 49238), (2, 49088), (4, 48776), (Start: 12 @48584 has 6 MA's), (14, 48560), (19, 48518), (20, 48515), (32, 48341), (33, 48329), (35, 48320), (40, 48278), (41, 48275),