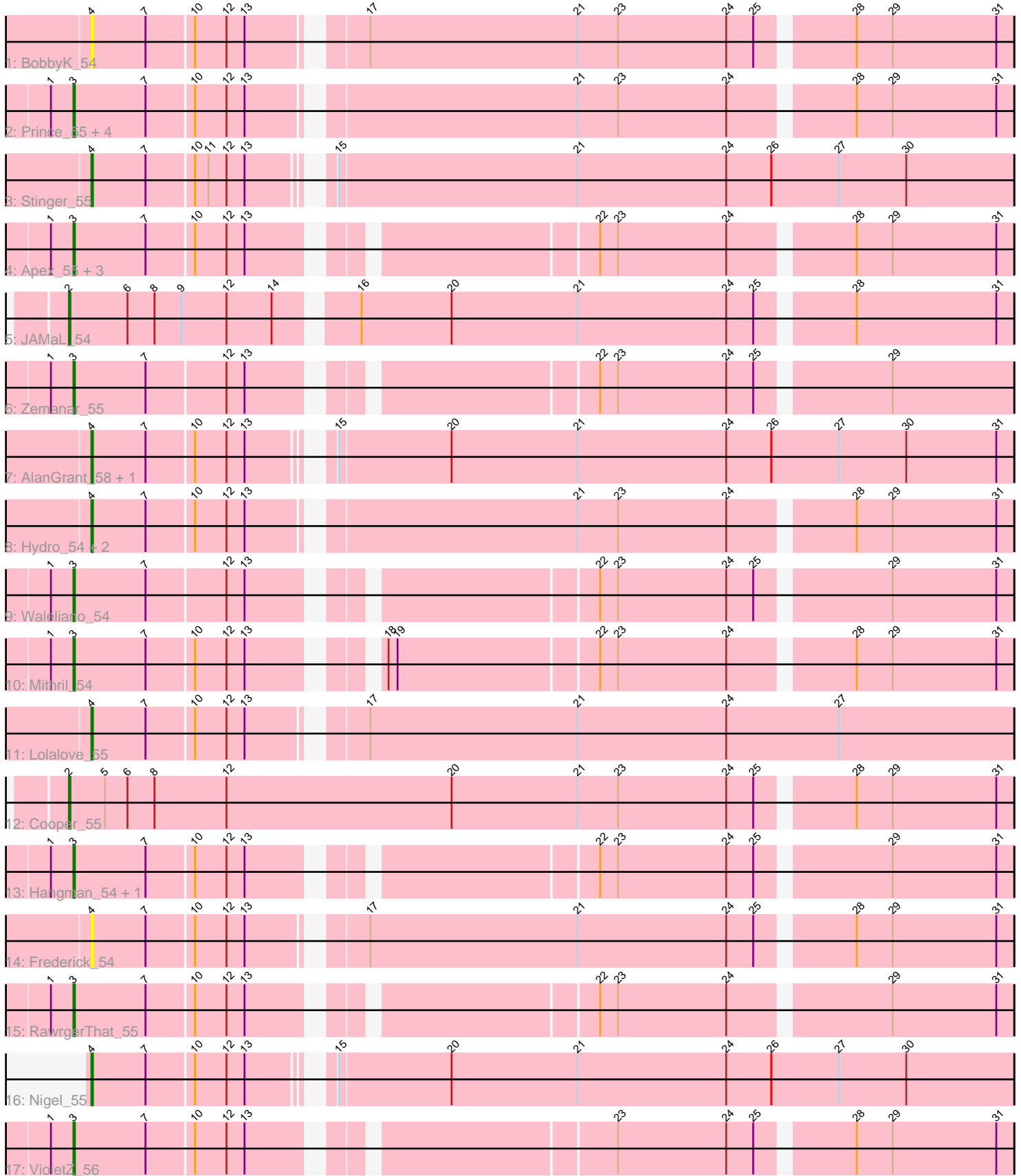


Pham 154936



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 154936 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154936 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : BobbyK_54
- Track 2 : Prince_55, Fortunato_55, ChrisnMich_54, Heath_53, Magpie_53
- Track 3 : Stinger_55
- Track 4 : Apex_55, JaguarMi_56, Austelle_55, Mudslide_54
- Track 5 : JAMaL_54
- Track 6 : Zemanar_55
- Track 7 : AlanGrant_58, Vincenzo_57
- Track 8 : Hydro_54, Poster_53, Nanao_53
- Track 9 : Waleliano_54
- Track 10 : Mithril_54
- Track 11 : Lolalove_55
- Track 12 : Cooper_55
- Track 13 : Hangman_54, BrownCNA_56
- Track 14 : Frederick_54
- Track 15 : RawrgerThat_55
- Track 16 : Nigel_55
- Track 17 : VioletZ_56

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

The start number called the most often in the published annotations is 3, it was called in 14 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apex_55, Austelle_55, BrownCNA_56, ChrisnMich_54, Fortunato_55, Hangman_54, Heath_53, JaguarMi_56, Magpie_53, Mithril_54, Mudslide_54, Prince_55, RawrgerThat_55, VioletZ_56, Waleliano_54, Zemanar_55,

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

-

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

- AlanGrant_58, BobbyK_54, Cooper_55, Frederick_54, Hydro_54, JAMaL_54, Lolalove_55, Nanao_53, Nigel_55, Poster_53, Stinger_55, Vincenzo_57,

Summary by start number:

Start 2:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cooper_55 (B4), JAMaL_54 (B4),

Start 3:

- Found in 16 of 28 (57.1%) of genes in pham
- Manual Annotations of this start: 14 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apex_55 (B4), Austelle_55 (B4), BrownCNA_56 (B4), ChrisnMich_54 (B4), Fortunato_55 (B4), Hangman_54 (B4), Heath_53 (B4), JaguarMi_56 (B4), Magpie_53 (B4), Mithril_54 (B4), Mudslide_54 (B4), Prince_55 (B4), RawrgerThat_55 (B4), VioletZ_56 (B4), Waleliano_54 (B4), Zemanar_55 (B4),

Start 4:

- Found in 10 of 28 (35.7%) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant_58 (B4), BobbyK_54 (B4), Frederick_54 (B4), Hydro_54 (B4), Lolalove_55 (B4), Nanao_53 (B4), Nigel_55 (B4), Poster_53 (B4), Stinger_55 (B4), Vincenzo_57 (B4),

Summary by clusters:

There is one cluster represented in this pham: B4

Info for manual annotations of cluster B4:

- Start number 2 was manually annotated 2 times for cluster B4.
- Start number 3 was manually annotated 14 times for cluster B4.
- Start number 4 was manually annotated 6 times for cluster B4.

Gene Information:

Gene: AlanGrant_58 Start: 55697, Stop: 55113, Start Num: 4

Candidate Starts for AlanGrant_58:

(Start: 4 @55697 has 6 MA's), (7, 55661), (10, 55631), (12, 55610), (13, 55598), (15, 55559), (20, 55487), (21, 55403), (24, 55304), (26, 55274), (27, 55229), (30, 55184), (31, 55124),

Gene: Apex_55 Start: 54771, Stop: 54196, Start Num: 3

Candidate Starts for Apex_55:

(1, 54786), (Start: 3 @54771 has 14 MA's), (7, 54723), (10, 54693), (12, 54672), (13, 54660), (22, 54459), (23, 54447), (24, 54375), (28, 54300), (29, 54276), (31, 54207),

Gene: Austelle_55 Start: 55224, Stop: 54649, Start Num: 3

Candidate Starts for Austelle_55:

(1, 55239), (Start: 3 @55224 has 14 MA's), (7, 55176), (10, 55146), (12, 55125), (13, 55113), (22, 54912), (23, 54900), (24, 54828), (28, 54753), (29, 54729), (31, 54660),

Gene: BobbyK_54 Start: 54543, Stop: 53965, Start Num: 4

Candidate Starts for BobbyK_54:

(Start: 4 @54543 has 6 MA's), (7, 54507), (10, 54477), (12, 54456), (13, 54444), (17, 54381), (21, 54243), (23, 54216), (24, 54144), (25, 54126), (28, 54069), (29, 54045), (31, 53976),

Gene: BrownCNA_56 Start: 54882, Stop: 54307, Start Num: 3

Candidate Starts for BrownCNA_56:

(1, 54897), (Start: 3 @54882 has 14 MA's), (7, 54834), (10, 54804), (12, 54783), (13, 54771), (22, 54570), (23, 54558), (24, 54486), (25, 54468), (29, 54387), (31, 54318),

Gene: ChrisnMich_54 Start: 53551, Stop: 52961, Start Num: 3

Candidate Starts for ChrisnMich_54:

(1, 53566), (Start: 3 @53551 has 14 MA's), (7, 53503), (10, 53473), (12, 53452), (13, 53440), (21, 53239), (23, 53212), (24, 53140), (28, 53065), (29, 53041), (31, 52972),

Gene: Cooper_55 Start: 53843, Stop: 53226, Start Num: 2

Candidate Starts for Cooper_55:

(Start: 2 @53843 has 2 MA's), (5, 53819), (6, 53804), (8, 53786), (12, 53738), (20, 53588), (21, 53504), (23, 53477), (24, 53405), (25, 53387), (28, 53330), (29, 53306), (31, 53237),

Gene: Fortunato_55 Start: 54580, Stop: 53990, Start Num: 3

Candidate Starts for Fortunato_55:

(1, 54595), (Start: 3 @54580 has 14 MA's), (7, 54532), (10, 54502), (12, 54481), (13, 54469), (21, 54268), (23, 54241), (24, 54169), (28, 54094), (29, 54070), (31, 54001),

Gene: Frederick_54 Start: 54486, Stop: 53908, Start Num: 4

Candidate Starts for Frederick_54:

(Start: 4 @54486 has 6 MA's), (7, 54450), (10, 54420), (12, 54399), (13, 54387), (17, 54324), (21, 54186), (24, 54087), (25, 54069), (28, 54012), (29, 53988), (31, 53919),

Gene: Hangman_54 Start: 54625, Stop: 54050, Start Num: 3

Candidate Starts for Hangman_54:

(1, 54640), (Start: 3 @54625 has 14 MA's), (7, 54577), (10, 54547), (12, 54526), (13, 54514), (22, 54313), (23, 54301), (24, 54229), (25, 54211), (29, 54130), (31, 54061),

Gene: Heath_53 Start: 54251, Stop: 53661, Start Num: 3

Candidate Starts for Heath_53:

(1, 54266), (Start: 3 @54251 has 14 MA's), (7, 54203), (10, 54173), (12, 54152), (13, 54140), (21, 53939), (23, 53912), (24, 53840), (28, 53765), (29, 53741), (31, 53672),

Gene: Hydro_54 Start: 54620, Stop: 54042, Start Num: 4

Candidate Starts for Hydro_54:

(Start: 4 @54620 has 6 MA's), (7, 54584), (10, 54554), (12, 54533), (13, 54521), (21, 54320), (23, 54293), (24, 54221), (28, 54146), (29, 54122), (31, 54053),

Gene: JAMaL_54 Start: 54791, Stop: 54189, Start Num: 2

Candidate Starts for JAMaL_54:

(Start: 2 @54791 has 2 MA's), (6, 54752), (8, 54734), (9, 54716), (12, 54686), (14, 54656), (16, 54611), (20, 54551), (21, 54467), (24, 54368), (25, 54350), (28, 54293), (31, 54200),

Gene: JaguarMi_56 Start: 55675, Stop: 55100, Start Num: 3

Candidate Starts for JaguarMi_56:

(1, 55690), (Start: 3 @55675 has 14 MA's), (7, 55627), (10, 55597), (12, 55576), (13, 55564), (22, 55363), (23, 55351), (24, 55279), (28, 55204), (29, 55180), (31, 55111),

Gene: Lolalove_55 Start: 54603, Stop: 54013, Start Num: 4

Candidate Starts for Lolalove_55:

(Start: 4 @54603 has 6 MA's), (7, 54567), (10, 54537), (12, 54516), (13, 54504), (17, 54441), (21, 54303), (24, 54204), (27, 54129),

Gene: Magpie_53 Start: 54495, Stop: 53905, Start Num: 3

Candidate Starts for Magpie_53:

(1, 54510), (Start: 3 @54495 has 14 MA's), (7, 54447), (10, 54417), (12, 54396), (13, 54384), (21, 54183), (23, 54156), (24, 54084), (28, 54009), (29, 53985), (31, 53916),

Gene: Mithril_54 Start: 54577, Stop: 54002, Start Num: 3

Candidate Starts for Mithril_54:

(1, 54592), (Start: 3 @54577 has 14 MA's), (7, 54529), (10, 54499), (12, 54478), (13, 54466), (18, 54400), (19, 54394), (22, 54265), (23, 54253), (24, 54181), (28, 54106), (29, 54082), (31, 54013),

Gene: Mudslide_54 Start: 54844, Stop: 54260, Start Num: 3

Candidate Starts for Mudslide_54:

(1, 54859), (Start: 3 @54844 has 14 MA's), (7, 54796), (10, 54766), (12, 54745), (13, 54733), (22, 54523), (23, 54511), (24, 54439), (28, 54364), (29, 54340), (31, 54271),

Gene: Nanao_53 Start: 53563, Stop: 52985, Start Num: 4

Candidate Starts for Nanao_53:

(Start: 4 @53563 has 6 MA's), (7, 53527), (10, 53497), (12, 53476), (13, 53464), (21, 53263), (23, 53236), (24, 53164), (28, 53089), (29, 53065), (31, 52996),

Gene: Nigel_55 Start: 54169, Stop: 53585, Start Num: 4

Candidate Starts for Nigel_55:

(Start: 4 @54169 has 6 MA's), (7, 54133), (10, 54103), (12, 54082), (13, 54070), (15, 54031), (20, 53959), (21, 53875), (24, 53776), (26, 53746), (27, 53701), (30, 53656),

Gene: Poster_53 Start: 53564, Stop: 52986, Start Num: 4

Candidate Starts for Poster_53:

(Start: 4 @53564 has 6 MA's), (7, 53528), (10, 53498), (12, 53477), (13, 53465), (21, 53264), (23, 53237), (24, 53165), (28, 53090), (29, 53066), (31, 52997),

Gene: Prince_55 Start: 54757, Stop: 54167, Start Num: 3

Candidate Starts for Prince_55:

(1, 54772), (Start: 3 @54757 has 14 MA's), (7, 54709), (10, 54679), (12, 54658), (13, 54646), (21, 54445), (23, 54418), (24, 54346), (28, 54271), (29, 54247), (31, 54178),

Gene: RawrgerThat_55 Start: 54597, Stop: 54022, Start Num: 3

Candidate Starts for RawrgerThat_55:

(1, 54612), (Start: 3 @54597 has 14 MA's), (7, 54549), (10, 54519), (12, 54498), (13, 54486), (22, 54285), (23, 54273), (24, 54201), (29, 54102), (31, 54033),

Gene: Stinger_55 Start: 53491, Stop: 52907, Start Num: 4

Candidate Starts for Stinger_55:

(Start: 4 @53491 has 6 MA's), (7, 53455), (10, 53425), (11, 53416), (12, 53404), (13, 53392), (15, 53353), (21, 53197), (24, 53098), (26, 53068), (27, 53023), (30, 52978),

Gene: Vincenzo_57 Start: 55727, Stop: 55143, Start Num: 4

Candidate Starts for Vincenzo_57:

(Start: 4 @55727 has 6 MA's), (7, 55691), (10, 55661), (12, 55640), (13, 55628), (15, 55589), (20, 55517), (21, 55433), (24, 55334), (26, 55304), (27, 55259), (30, 55214), (31, 55154),

Gene: VioletZ_56 Start: 54661, Stop: 54086, Start Num: 3

Candidate Starts for VioletZ_56:

(1, 54676), (Start: 3 @54661 has 14 MA's), (7, 54613), (10, 54583), (12, 54562), (13, 54550), (23, 54337), (24, 54265), (25, 54247), (28, 54190), (29, 54166), (31, 54097),

Gene: Waleliano_54 Start: 54614, Stop: 54039, Start Num: 3

Candidate Starts for Waleliano_54:

(1, 54629), (Start: 3 @54614 has 14 MA's), (7, 54566), (12, 54515), (13, 54503), (22, 54302), (23, 54290), (24, 54218), (25, 54200), (29, 54119), (31, 54050),

Gene: Zemanar_55 Start: 54446, Stop: 53871, Start Num: 3

Candidate Starts for Zemanar_55:

(1, 54461), (Start: 3 @54446 has 14 MA's), (7, 54398), (12, 54347), (13, 54335), (22, 54134), (23, 54122), (24, 54050), (25, 54032), (29, 53951),