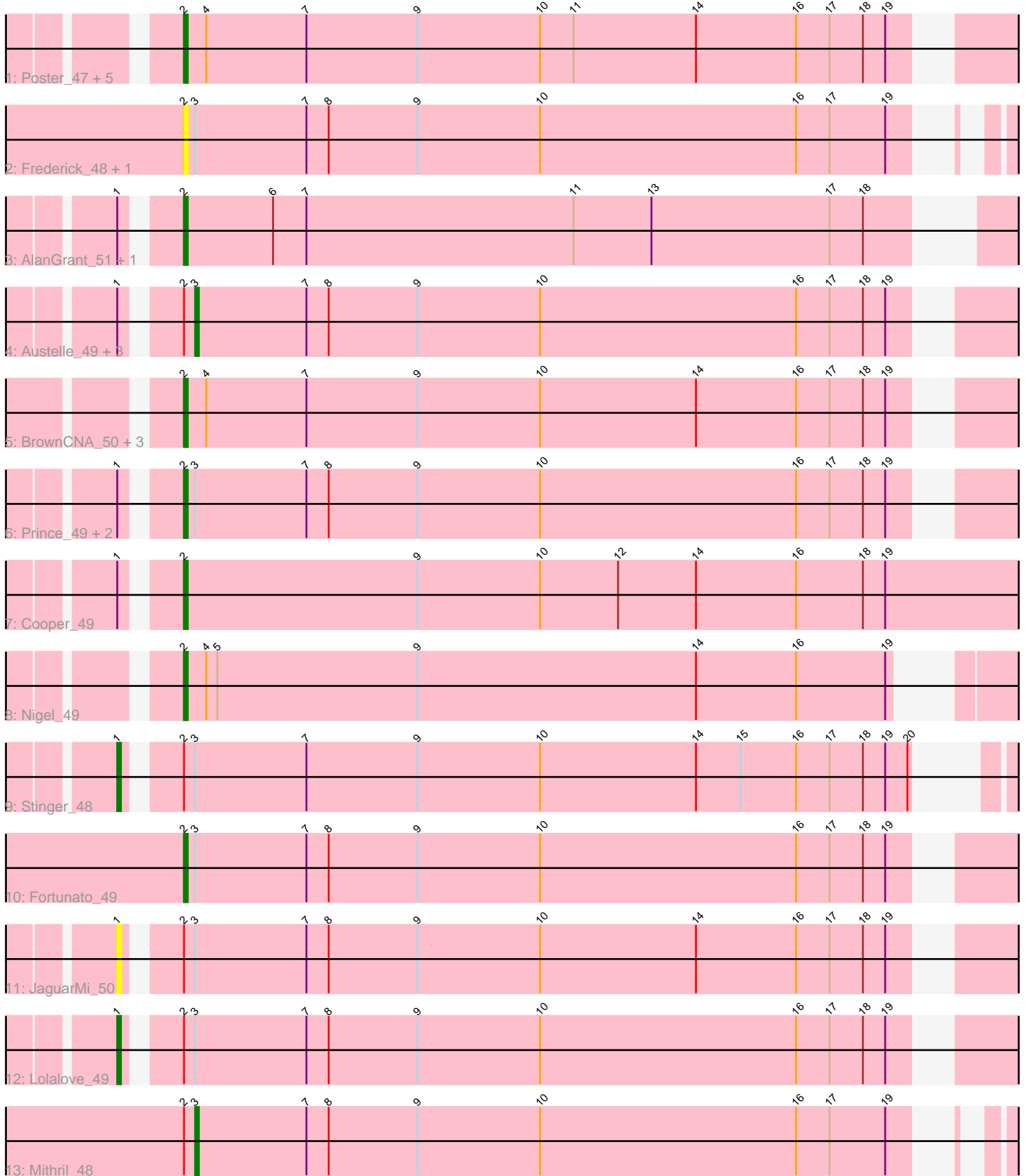


Pham 3183



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 3183 Report

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

Pham number 3183 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Poster_47, Nanao_47, RawrgerThat_49, JAMaL_48, ChrisnMich_48, Heath_47
- Track 2 : Frederick_48, BobbyK_48
- Track 3 : AlanGrant_51, Vincenzo_50
- Track 4 : Austelle_49, Hydro_48, Mudslide_48, VioletZ_50
- Track 5 : BrownCNA_50, Zemanar_49, Waleliano_48, Hangman_48
- Track 6 : Prince_49, Apex_49, Magpie_47
- Track 7 : Cooper_49
- Track 8 : Nigel_49
- Track 9 : Stinger_48
- Track 10 : Fortunato_49
- Track 11 : JaguarMi_50
- Track 12 : Lolalove_49
- Track 13 : Mithril_48

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

The start number called the most often in the published annotations is 2, it was called in 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlanGrant_51, Apex_49, BobbyK_48, BrownCNA_50, ChrisnMich_48, Cooper_49, Fortunato_49, Frederick_48, Hangman_48, Heath_47, JAMaL_48, Magpie_47, Nanao_47, Nigel_49, Poster_47, Prince_49, RawrgerThat_49, Vincenzo_50, Waleliano_48, Zemanar_49,

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

- Austelle_49, Hydro_48, JaguarMi_50, Lolalove_49, Mithril_48, Mudslide_48, Stinger_48, VioletZ_50,

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

-

Summary by start number:

Start 1:

- Found in 13 of 28 (46.4%) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 23.1% of time when present
- Phage (with cluster) where this start called: JaguarMi_50 (B4), Lolalove_49 (B4), Stinger_48 (B4),

Start 2:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 22
- Called 71.4% of time when present
- Phage (with cluster) where this start called: AlanGrant_51 (B4), Apex_49 (B4), BobbyK_48 (B4), BrownCNA_50 (B4), ChrisnMich_48 (B4), Cooper_49 (B4), Fortunato_49 (B4), Frederick_48 (B4), Hangman_48 (B4), Heath_47 (B4), JAMaL_48 (B4), Magpie_47 (B4), Nanao_47 (B4), Nigel_49 (B4), Poster_47 (B4), Prince_49 (B4), RawrgerThat_49 (B4), Vincenzo_50 (B4), Waleliano_48 (B4), Zemanar_49 (B4),

Start 3:

- Found in 14 of 28 (50.0%) of genes in pham
- Manual Annotations of this start: 5 of 22
- Called 35.7% of time when present
- Phage (with cluster) where this start called: Austelle_49 (B4), Hydro_48 (B4), Mithril_48 (B4), Mudslide_48 (B4), VioletZ_50 (B4),

Summary by clusters:

There is one cluster represented in this pham: B4

Info for manual annotations of cluster B4:

- Start number 1 was manually annotated 2 times for cluster B4.
- Start number 2 was manually annotated 15 times for cluster B4.
- Start number 3 was manually annotated 5 times for cluster B4.

Gene Information:

Gene: AlanGrant_51 Start: 48521, Stop: 48297, Start Num: 2

Candidate Starts for AlanGrant_51:

(Start: 1 @48533 has 2 MA's), (Start: 2 @48521 has 15 MA's), (6, 48497), (7, 48488), (11, 48416), (13, 48395), (17, 48347), (18, 48338),

Gene: Apex_49 Start: 47991, Stop: 47758, Start Num: 2

Candidate Starts for Apex_49:

(Start: 1 @48003 has 2 MA's), (Start: 2 @47991 has 15 MA's), (Start: 3 @47988 has 5 MA's), (7, 47958), (8, 47952), (9, 47928), (10, 47895), (16, 47826), (17, 47817), (18, 47808), (19, 47802),

Gene: Austelle_49 Start: 48438, Stop: 48208, Start Num: 3

Candidate Starts for Austelle_49:

(Start: 1 @48453 has 2 MA's), (Start: 2 @48441 has 15 MA's), (Start: 3 @48438 has 5 MA's), (7, 48408), (8, 48402), (9, 48378), (10, 48345), (16, 48276), (17, 48267), (18, 48258), (19, 48252),

Gene: BobbyK_48 Start: 47774, Stop: 47550, Start Num: 2

Candidate Starts for BobbyK_48:

(Start: 2 @47774 has 15 MA's), (Start: 3 @47771 has 5 MA's), (7, 47741), (8, 47735), (9, 47711), (10, 47678), (16, 47609), (17, 47600), (19, 47585),

Gene: BrownCNA_50 Start: 48062, Stop: 47829, Start Num: 2

Candidate Starts for BrownCNA_50:

(Start: 2 @48062 has 15 MA's), (4, 48056), (7, 48029), (9, 47999), (10, 47966), (14, 47924), (16, 47897), (17, 47888), (18, 47879), (19, 47873),

Gene: ChrisnMich_48 Start: 46753, Stop: 46520, Start Num: 2

Candidate Starts for ChrisnMich_48:

(Start: 2 @46753 has 15 MA's), (4, 46747), (7, 46720), (9, 46690), (10, 46657), (11, 46648), (14, 46615), (16, 46588), (17, 46579), (18, 46570), (19, 46564),

Gene: Cooper_49 Start: 46972, Stop: 46727, Start Num: 2

Candidate Starts for Cooper_49:

(Start: 1 @46984 has 2 MA's), (Start: 2 @46972 has 15 MA's), (9, 46909), (10, 46876), (12, 46855), (14, 46834), (16, 46807), (18, 46789), (19, 46783),

Gene: Fortunato_49 Start: 47808, Stop: 47575, Start Num: 2

Candidate Starts for Fortunato_49:

(Start: 2 @47808 has 15 MA's), (Start: 3 @47805 has 5 MA's), (7, 47775), (8, 47769), (9, 47745), (10, 47712), (16, 47643), (17, 47634), (18, 47625), (19, 47619),

Gene: Frederick_48 Start: 47771, Stop: 47547, Start Num: 2

Candidate Starts for Frederick_48:

(Start: 2 @47771 has 15 MA's), (Start: 3 @47768 has 5 MA's), (7, 47738), (8, 47732), (9, 47708), (10, 47675), (16, 47606), (17, 47597), (19, 47582),

Gene: Hangman_48 Start: 47880, Stop: 47647, Start Num: 2

Candidate Starts for Hangman_48:

(Start: 2 @47880 has 15 MA's), (4, 47874), (7, 47847), (9, 47817), (10, 47784), (14, 47742), (16, 47715), (17, 47706), (18, 47697), (19, 47691),

Gene: Heath_47 Start: 47392, Stop: 47159, Start Num: 2

Candidate Starts for Heath_47:

(Start: 2 @47392 has 15 MA's), (4, 47386), (7, 47359), (9, 47329), (10, 47296), (11, 47287), (14, 47254), (16, 47227), (17, 47218), (18, 47209), (19, 47203),

Gene: Hydro_48 Start: 47816, Stop: 47586, Start Num: 3

Candidate Starts for Hydro_48:

(Start: 1 @47831 has 2 MA's), (Start: 2 @47819 has 15 MA's), (Start: 3 @47816 has 5 MA's), (7, 47786), (8, 47780), (9, 47756), (10, 47723), (16, 47654), (17, 47645), (18, 47636), (19, 47630),

Gene: JAMaL_48 Start: 47957, Stop: 47724, Start Num: 2

Candidate Starts for JAMaL_48:

(Start: 2 @47957 has 15 MA's), (4, 47951), (7, 47924), (9, 47894), (10, 47861), (11, 47852), (14, 47819), (16, 47792), (17, 47783), (18, 47774), (19, 47768),

Gene: JaguarMi_50 Start: 48898, Stop: 48653, Start Num: 1

Candidate Starts for JaguarMi_50:

(Start: 1 @48898 has 2 MA's), (Start: 2 @48886 has 15 MA's), (Start: 3 @48883 has 5 MA's), (7, 48853), (8, 48847), (9, 48823), (10, 48790), (14, 48748), (16, 48721), (17, 48712), (18, 48703), (19, 48697),

Gene: Lolalove_49 Start: 47799, Stop: 47554, Start Num: 1

Candidate Starts for Lolalove_49:

(Start: 1 @47799 has 2 MA's), (Start: 2 @47787 has 15 MA's), (Start: 3 @47784 has 5 MA's), (7, 47754), (8, 47748), (9, 47724), (10, 47691), (16, 47622), (17, 47613), (18, 47604), (19, 47598),

Gene: Magpie_47 Start: 47622, Stop: 47389, Start Num: 2

Candidate Starts for Magpie_47:

(Start: 1 @47634 has 2 MA's), (Start: 2 @47622 has 15 MA's), (Start: 3 @47619 has 5 MA's), (7, 47589), (8, 47583), (9, 47559), (10, 47526), (16, 47457), (17, 47448), (18, 47439), (19, 47433),

Gene: Mithril_48 Start: 47781, Stop: 47560, Start Num: 3

Candidate Starts for Mithril_48:

(Start: 2 @47784 has 15 MA's), (Start: 3 @47781 has 5 MA's), (7, 47751), (8, 47745), (9, 47721), (10, 47688), (16, 47619), (17, 47610), (19, 47595),

Gene: Mudslide_48 Start: 48049, Stop: 47819, Start Num: 3

Candidate Starts for Mudslide_48:

(Start: 1 @48064 has 2 MA's), (Start: 2 @48052 has 15 MA's), (Start: 3 @48049 has 5 MA's), (7, 48019), (8, 48013), (9, 47989), (10, 47956), (16, 47887), (17, 47878), (18, 47869), (19, 47863),

Gene: Nanao_47 Start: 46756, Stop: 46523, Start Num: 2

Candidate Starts for Nanao_47:

(Start: 2 @46756 has 15 MA's), (4, 46750), (7, 46723), (9, 46693), (10, 46660), (11, 46651), (14, 46618), (16, 46591), (17, 46582), (18, 46573), (19, 46567),

Gene: Nigel_49 Start: 47761, Stop: 47534, Start Num: 2

Candidate Starts for Nigel_49:

(Start: 2 @47761 has 15 MA's), (4, 47755), (5, 47752), (9, 47698), (14, 47623), (16, 47596), (19, 47572),

Gene: Poster_47 Start: 46757, Stop: 46524, Start Num: 2

Candidate Starts for Poster_47:

(Start: 2 @46757 has 15 MA's), (4, 46751), (7, 46724), (9, 46694), (10, 46661), (11, 46652), (14, 46619), (16, 46592), (17, 46583), (18, 46574), (19, 46568),

Gene: Prince_49 Start: 47962, Stop: 47729, Start Num: 2

Candidate Starts for Prince_49:

(Start: 1 @47974 has 2 MA's), (Start: 2 @47962 has 15 MA's), (Start: 3 @47959 has 5 MA's), (7, 47929), (8, 47923), (9, 47899), (10, 47866), (16, 47797), (17, 47788), (18, 47779), (19, 47773),

Gene: RawrgerThat_49 Start: 47817, Stop: 47584, Start Num: 2

Candidate Starts for RawrgerThat_49:

(Start: 2 @47817 has 15 MA's), (4, 47811), (7, 47784), (9, 47754), (10, 47721), (11, 47712), (14, 47679), (16, 47652), (17, 47643), (18, 47634), (19, 47628),

Gene: Stinger_48 Start: 46505, Stop: 46269, Start Num: 1

Candidate Starts for Stinger_48:

(Start: 1 @46505 has 2 MA's), (Start: 2 @46493 has 15 MA's), (Start: 3 @46490 has 5 MA's), (7, 46460), (9, 46430), (10, 46397), (14, 46355), (15, 46343), (16, 46328), (17, 46319), (18, 46310), (19,

46304), (20, 46298),

Gene: Vincenzo_50 Start: 48521, Stop: 48297, Start Num: 2

Candidate Starts for Vincenzo_50:

(Start: 1 @48533 has 2 MA's), (Start: 2 @48521 has 15 MA's), (6, 48497), (7, 48488), (11, 48416), (13, 48395), (17, 48347), (18, 48338),

Gene: VioletZ_50 Start: 47878, Stop: 47648, Start Num: 3

Candidate Starts for VioletZ_50:

(Start: 1 @47893 has 2 MA's), (Start: 2 @47881 has 15 MA's), (Start: 3 @47878 has 5 MA's), (7, 47848), (8, 47842), (9, 47818), (10, 47785), (16, 47716), (17, 47707), (18, 47698), (19, 47692),

Gene: Waleliano_48 Start: 47794, Stop: 47561, Start Num: 2

Candidate Starts for Waleliano_48:

(Start: 2 @47794 has 15 MA's), (4, 47788), (7, 47761), (9, 47731), (10, 47698), (14, 47656), (16, 47629), (17, 47620), (18, 47611), (19, 47605),

Gene: Zemanar_49 Start: 47775, Stop: 47542, Start Num: 2

Candidate Starts for Zemanar_49:

(Start: 2 @47775 has 15 MA's), (4, 47769), (7, 47742), (9, 47712), (10, 47679), (14, 47637), (16, 47610), (17, 47601), (18, 47592), (19, 47586),