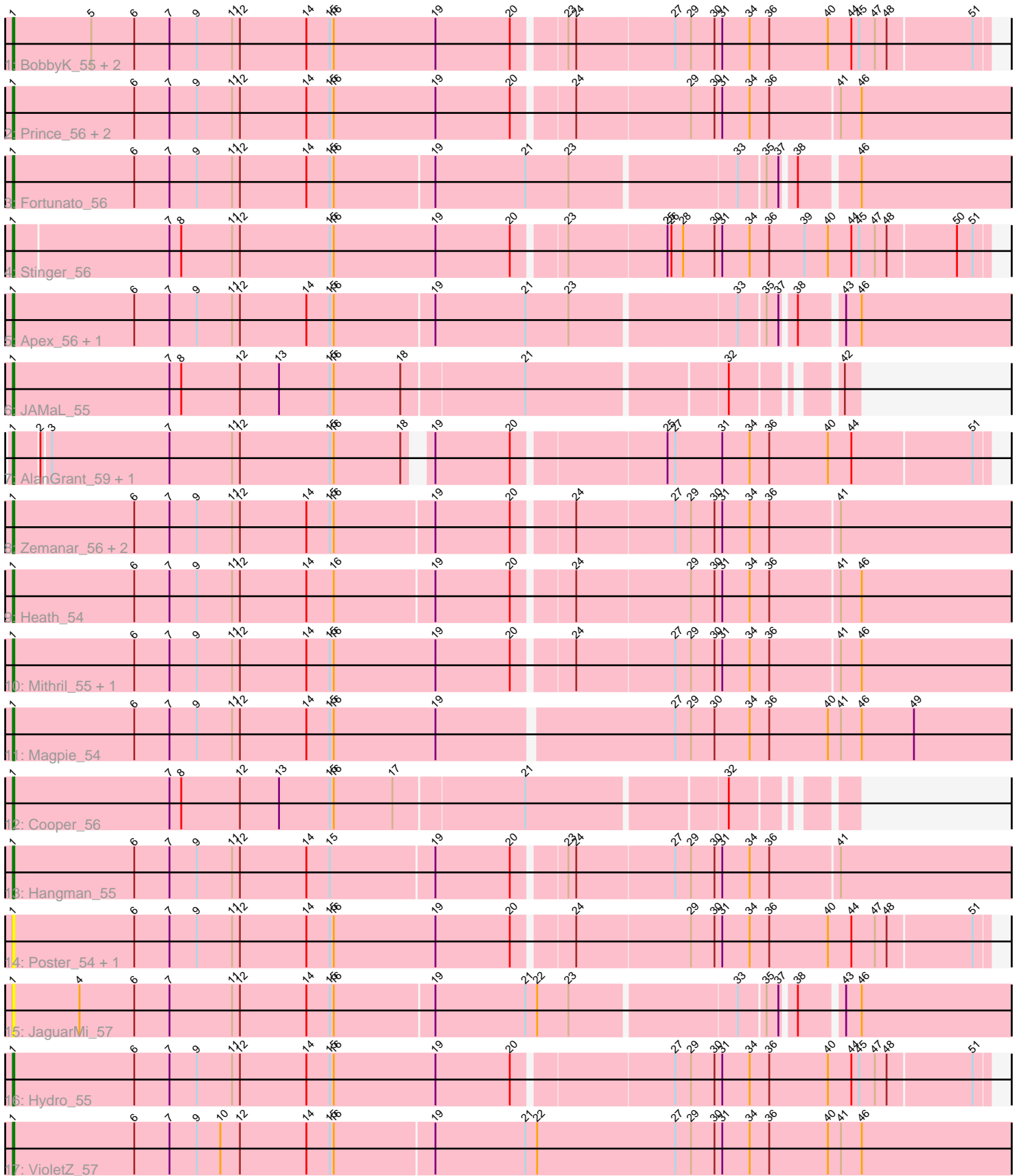


Pham 158109



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 158109 Report

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

Pham number 158109 has 27 members, 6 are drafts.

Phages represented in each track:

- Track 1 : BobbyK_55, Lolalove_56, Frederick_55
- Track 2 : Prince_56, ChrisnMich_55, Mudslide_55
- Track 3 : Fortunato_56
- Track 4 : Stinger_56
- Track 5 : Apex_56, Austelle_56
- Track 6 : JAMaL_55
- Track 7 : AlanGrant_59, Vincenzo_58
- Track 8 : Zemanar_56, BrownCNA_57, Waleliano_55
- Track 9 : Heath_54
- Track 10 : Mithril_55, RawrgerThat_56
- Track 11 : Magpie_54
- Track 12 : Cooper_56
- Track 13 : Hangman_55
- Track 14 : Poster_54, Nanao_54
- Track 15 : JaguarMi_57
- Track 16 : Hydro_55
- Track 17 : VioletZ_57

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

The start number called the most often in the published annotations is 1, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlanGrant_59, Apex_56, Austelle_56, BobbyK_55, BrownCNA_57, ChrisnMich_55, Cooper_56, Fortunato_56, Frederick_55, Hangman_55, Heath_54, Hydro_55, JAMaL_55, JaguarMi_57, Lolalove_56, Magpie_54, Mithril_55, Mudslide_55, Nanao_54, Poster_54, Prince_56, RawrgerThat_56, Stinger_56, Vincenzo_58, VioletZ_57, Waleliano_55, Zemanar_56,

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

-

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

•

Summary by start number:

Start 1:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant_59 (B4), Apex_56 (B4), Austelle_56 (B4), BobbyK_55 (B4), BrownCNA_57 (B4), ChrisnMich_55 (B4), Cooper_56 (B4), Fortunato_56 (B4), Frederick_55 (B4), Hangman_55 (B4), Heath_54 (B4), Hydro_55 (B4), JAMaL_55 (B4), JaguarMi_57 (B4), Lolalove_56 (B4), Magpie_54 (B4), Mithril_55 (B4), Mudslide_55 (B4), Nanao_54 (B4), Poster_54 (B4), Prince_56 (B4), RawrgerThat_56 (B4), Stinger_56 (B4), Vincenzo_58 (B4), VioletZ_57 (B4), Waleliano_55 (B4), Zemanar_56 (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 21 times for cluster B4.

Gene Information:

Gene: AlanGrant_59 Start: 56404, Stop: 55694, Start Num: 1

Candidate Starts for AlanGrant_59:

(Start: 1 @56404 has 21 MA's), (2, 56386), (3, 56380), (7, 56290), (11, 56242), (12, 56236), (15, 56167), (16, 56164), (18, 56113), (19, 56101), (20, 56044), (25, 55936), (27, 55930), (31, 55894), (34, 55873), (36, 55858), (40, 55813), (44, 55795), (51, 55705),

Gene: Apex_56 Start: 55508, Stop: 54768, Start Num: 1

Candidate Starts for Apex_56:

(Start: 1 @55508 has 21 MA's), (6, 55415), (7, 55388), (9, 55367), (11, 55340), (12, 55334), (14, 55283), (15, 55265), (16, 55262), (19, 55187), (21, 55118), (23, 55085), (33, 54965), (35, 54947), (37, 54938), (38, 54929), (43, 54899), (46, 54887),

Gene: Austelle_56 Start: 55961, Stop: 55221, Start Num: 1

Candidate Starts for Austelle_56:

(Start: 1 @55961 has 21 MA's), (6, 55868), (7, 55841), (9, 55820), (11, 55793), (12, 55787), (14, 55736), (15, 55718), (16, 55715), (19, 55640), (21, 55571), (23, 55538), (33, 55418), (35, 55400), (37, 55391), (38, 55382), (43, 55352), (46, 55340),

Gene: BobbyK_55 Start: 55271, Stop: 54540, Start Num: 1

Candidate Starts for BobbyK_55:

(Start: 1 @55271 has 21 MA's), (5, 55211), (6, 55178), (7, 55151), (9, 55130), (11, 55103), (12, 55097), (14, 55046), (15, 55028), (16, 55025), (19, 54947), (20, 54890), (23, 54854), (24, 54848), (27, 54776), (29, 54764), (30, 54746), (31, 54740), (34, 54719), (36, 54704), (40, 54659), (44, 54641), (45, 54635), (47, 54623), (48, 54614), (51, 54551),

Gene: BrownCNA_57 Start: 55628, Stop: 54879, Start Num: 1

Candidate Starts for BrownCNA_57:

(Start: 1 @55628 has 21 MA's), (6, 55535), (7, 55508), (9, 55487), (11, 55460), (12, 55454), (14, 55403), (15, 55385), (16, 55382), (19, 55307), (20, 55250), (24, 55208), (27, 55136), (29, 55124), (30, 55106), (31, 55100), (34, 55079), (36, 55064), (41, 55013),

Gene: ChrisnMich_55 Start: 54300, Stop: 53548, Start Num: 1

Candidate Starts for ChrisnMich_55:

(Start: 1 @54300 has 21 MA's), (6, 54207), (7, 54180), (9, 54159), (11, 54132), (12, 54126), (14, 54075), (15, 54057), (16, 54054), (19, 53976), (20, 53919), (24, 53877), (29, 53793), (30, 53775), (31, 53769), (34, 53748), (36, 53733), (41, 53682), (46, 53667),

Gene: Cooper_56 Start: 54445, Stop: 53840, Start Num: 1

Candidate Starts for Cooper_56:

(Start: 1 @54445 has 21 MA's), (7, 54325), (8, 54316), (12, 54271), (13, 54241), (15, 54202), (16, 54199), (17, 54154), (21, 54058), (32, 53914),

Gene: Fortunato_56 Start: 55317, Stop: 54577, Start Num: 1

Candidate Starts for Fortunato_56:

(Start: 1 @55317 has 21 MA's), (6, 55224), (7, 55197), (9, 55176), (11, 55149), (12, 55143), (14, 55092), (15, 55074), (16, 55071), (19, 54996), (21, 54927), (23, 54894), (33, 54774), (35, 54756), (37, 54747), (38, 54738), (46, 54696),

Gene: Frederick_55 Start: 55214, Stop: 54483, Start Num: 1

Candidate Starts for Frederick_55:

(Start: 1 @55214 has 21 MA's), (5, 55154), (6, 55121), (7, 55094), (9, 55073), (11, 55046), (12, 55040), (14, 54989), (15, 54971), (16, 54968), (19, 54890), (20, 54833), (23, 54797), (24, 54791), (27, 54719), (29, 54707), (30, 54689), (31, 54683), (34, 54662), (36, 54647), (40, 54602), (44, 54584), (45, 54578), (47, 54566), (48, 54557), (51, 54494),

Gene: Hangman_55 Start: 55371, Stop: 54622, Start Num: 1

Candidate Starts for Hangman_55:

(Start: 1 @55371 has 21 MA's), (6, 55278), (7, 55251), (9, 55230), (11, 55203), (12, 55197), (14, 55146), (15, 55128), (19, 55050), (20, 54993), (23, 54957), (24, 54951), (27, 54879), (29, 54867), (30, 54849), (31, 54843), (34, 54822), (36, 54807), (41, 54756),

Gene: Heath_54 Start: 54997, Stop: 54248, Start Num: 1

Candidate Starts for Heath_54:

(Start: 1 @54997 has 21 MA's), (6, 54904), (7, 54877), (9, 54856), (11, 54829), (12, 54823), (14, 54772), (16, 54751), (19, 54676), (20, 54619), (24, 54577), (29, 54493), (30, 54475), (31, 54469), (34, 54448), (36, 54433), (41, 54382), (46, 54367),

Gene: Hydro_55 Start: 55348, Stop: 54617, Start Num: 1

Candidate Starts for Hydro_55:

(Start: 1 @55348 has 21 MA's), (6, 55255), (7, 55228), (9, 55207), (11, 55180), (12, 55174), (14, 55123), (15, 55105), (16, 55102), (19, 55024), (20, 54967), (27, 54853), (29, 54841), (30, 54823), (31, 54817), (34, 54796), (36, 54781), (40, 54736), (44, 54718), (45, 54712), (47, 54700), (48, 54691), (51, 54628),

Gene: JAMaL_55 Start: 55393, Stop: 54788, Start Num: 1

Candidate Starts for JAMaL_55:

(Start: 1 @55393 has 21 MA's), (7, 55273), (8, 55264), (12, 55219), (13, 55189), (15, 55150), (16, 55147), (18, 55096), (21, 55006), (32, 54862), (42, 54799),

Gene: JaguarMi_57 Start: 56412, Stop: 55672, Start Num: 1

Candidate Starts for JaguarMi_57:

(Start: 1 @56412 has 21 MA's), (4, 56361), (6, 56319), (7, 56292), (11, 56244), (12, 56238), (14, 56187), (15, 56169), (16, 56166), (19, 56091), (21, 56022), (22, 56013), (23, 55989), (33, 55869), (35, 55851), (37, 55842), (38, 55833), (43, 55803), (46, 55791),

Gene: Lolalove_56 Start: 55331, Stop: 54600, Start Num: 1

Candidate Starts for Lolalove_56:

(Start: 1 @55331 has 21 MA's), (5, 55271), (6, 55238), (7, 55211), (9, 55190), (11, 55163), (12, 55157), (14, 55106), (15, 55088), (16, 55085), (19, 55007), (20, 54950), (23, 54914), (24, 54908), (27, 54836), (29, 54824), (30, 54806), (31, 54800), (34, 54779), (36, 54764), (40, 54719), (44, 54701), (45, 54695), (47, 54683), (48, 54674), (51, 54611),

Gene: Magpie_54 Start: 55250, Stop: 54492, Start Num: 1

Candidate Starts for Magpie_54:

(Start: 1 @55250 has 21 MA's), (6, 55157), (7, 55130), (9, 55109), (11, 55082), (12, 55076), (14, 55025), (15, 55007), (16, 55004), (19, 54926), (27, 54752), (29, 54740), (30, 54722), (34, 54695), (36, 54680), (40, 54635), (41, 54626), (46, 54611), (49, 54572),

Gene: Mithril_55 Start: 55326, Stop: 54574, Start Num: 1

Candidate Starts for Mithril_55:

(Start: 1 @55326 has 21 MA's), (6, 55233), (7, 55206), (9, 55185), (11, 55158), (12, 55152), (14, 55101), (15, 55083), (16, 55080), (19, 55002), (20, 54945), (24, 54903), (27, 54831), (29, 54819), (30, 54801), (31, 54795), (34, 54774), (36, 54759), (41, 54708), (46, 54693),

Gene: Mudslide_55 Start: 55593, Stop: 54841, Start Num: 1

Candidate Starts for Mudslide_55:

(Start: 1 @55593 has 21 MA's), (6, 55500), (7, 55473), (9, 55452), (11, 55425), (12, 55419), (14, 55368), (15, 55350), (16, 55347), (19, 55269), (20, 55212), (24, 55170), (29, 55086), (30, 55068), (31, 55062), (34, 55041), (36, 55026), (41, 54975), (46, 54960),

Gene: Nanao_54 Start: 54291, Stop: 53560, Start Num: 1

Candidate Starts for Nanao_54:

(Start: 1 @54291 has 21 MA's), (6, 54198), (7, 54171), (9, 54150), (11, 54123), (12, 54117), (14, 54066), (15, 54048), (16, 54045), (19, 53967), (20, 53910), (24, 53868), (29, 53784), (30, 53766), (31, 53760), (34, 53739), (36, 53724), (40, 53679), (44, 53661), (47, 53643), (48, 53634), (51, 53571),

Gene: Poster_54 Start: 54292, Stop: 53561, Start Num: 1

Candidate Starts for Poster_54:

(Start: 1 @54292 has 21 MA's), (6, 54199), (7, 54172), (9, 54151), (11, 54124), (12, 54118), (14, 54067), (15, 54049), (16, 54046), (19, 53968), (20, 53911), (24, 53869), (29, 53785), (30, 53767), (31, 53761), (34, 53740), (36, 53725), (40, 53680), (44, 53662), (47, 53644), (48, 53635), (51, 53572),

Gene: Prince_56 Start: 55506, Stop: 54754, Start Num: 1

Candidate Starts for Prince_56:

(Start: 1 @55506 has 21 MA's), (6, 55413), (7, 55386), (9, 55365), (11, 55338), (12, 55332), (14, 55281), (15, 55263), (16, 55260), (19, 55182), (20, 55125), (24, 55083), (29, 54999), (30, 54981), (31, 54975), (34, 54954), (36, 54939), (41, 54888), (46, 54873),

Gene: RawrgerThat_56 Start: 55346, Stop: 54594, Start Num: 1

Candidate Starts for RawrgerThat_56:

(Start: 1 @55346 has 21 MA's), (6, 55253), (7, 55226), (9, 55205), (11, 55178), (12, 55172), (14, 55121), (15, 55103), (16, 55100), (19, 55022), (20, 54965), (24, 54923), (27, 54851), (29, 54839), (30,

54821), (31, 54815), (34, 54794), (36, 54779), (41, 54728), (46, 54713),

Gene: Stinger_56 Start: 54216, Stop: 53488, Start Num: 1

Candidate Starts for Stinger_56:

(Start: 1 @54216 has 21 MA's), (7, 54099), (8, 54090), (11, 54051), (12, 54045), (15, 53976), (16, 53973), (19, 53895), (20, 53838), (23, 53802), (25, 53730), (26, 53727), (28, 53718), (30, 53694), (31, 53688), (34, 53667), (36, 53652), (39, 53625), (40, 53607), (44, 53589), (45, 53583), (47, 53571), (48, 53562), (50, 53511), (51, 53499),

Gene: Vincenzo_58 Start: 56434, Stop: 55724, Start Num: 1

Candidate Starts for Vincenzo_58:

(Start: 1 @56434 has 21 MA's), (2, 56416), (3, 56410), (7, 56320), (11, 56272), (12, 56266), (15, 56197), (16, 56194), (18, 56143), (19, 56131), (20, 56074), (25, 55966), (27, 55960), (31, 55924), (34, 55903), (36, 55888), (40, 55843), (44, 55825), (51, 55735),

Gene: VioletZ_57 Start: 55422, Stop: 54658, Start Num: 1

Candidate Starts for VioletZ_57:

(Start: 1 @55422 has 21 MA's), (6, 55329), (7, 55302), (9, 55281), (10, 55263), (12, 55248), (14, 55197), (15, 55179), (16, 55176), (19, 55101), (21, 55032), (22, 55023), (27, 54918), (29, 54906), (30, 54888), (31, 54882), (34, 54861), (36, 54846), (40, 54801), (41, 54792), (46, 54777),

Gene: Waleliano_55 Start: 55360, Stop: 54611, Start Num: 1

Candidate Starts for Waleliano_55:

(Start: 1 @55360 has 21 MA's), (6, 55267), (7, 55240), (9, 55219), (11, 55192), (12, 55186), (14, 55135), (15, 55117), (16, 55114), (19, 55039), (20, 54982), (24, 54940), (27, 54868), (29, 54856), (30, 54838), (31, 54832), (34, 54811), (36, 54796), (41, 54745),

Gene: Zemanar_56 Start: 55192, Stop: 54443, Start Num: 1

Candidate Starts for Zemanar_56:

(Start: 1 @55192 has 21 MA's), (6, 55099), (7, 55072), (9, 55051), (11, 55024), (12, 55018), (14, 54967), (15, 54949), (16, 54946), (19, 54871), (20, 54814), (24, 54772), (27, 54700), (29, 54688), (30, 54670), (31, 54664), (34, 54643), (36, 54628), (41, 54577),