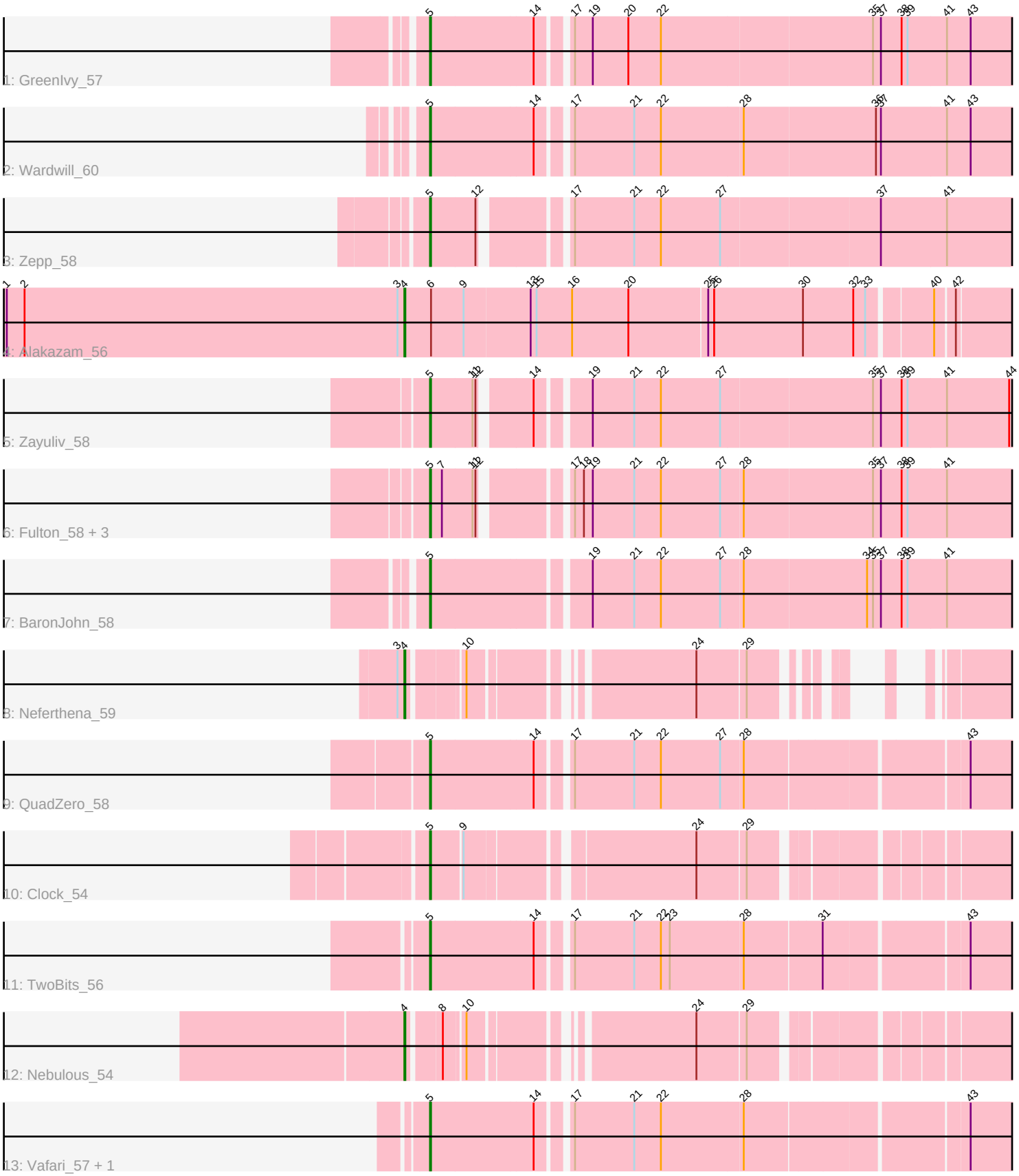
Zoomed Pham 348111



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 348111 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348111 has 17 members, 1 are drafts.

Phages represented in each track:
• Track 1 : GreenIvy_57
• Track 2 : Wardwill_60
• Track 3 : Zepp_58
• Track 4 : Alakazam_56
• Track 5 : Zayuliv_58
• Track 6 : Fulton_58, CaptainRex_58, Librie_58, Hasitha_58
• Track 7 : BaronJohn_58
• Track 8 : Neferthena_59
• Track 9 : QuadZero_58
• Track 10 : Clock_54
• Track 11 : TwoBits_56
• Track 12 : Nebulous_54
• Track 13 : Vafari_57, LilTerminator_58

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

The start number called the most often in the published annotations is 5, it was called in 13 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BaronJohn_58, CaptainRex_58, Clock_54, Fulton_58, GreenIvy_57, Hasitha_58, Librie_58, LilTerminator_58, QuadZero_58, TwoBits_56, Vafari_57, Wardwill_60, Zayuliv_58, Zepp_58,

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

Genes that do not have the "Most Annotated" start:
• Alakazam_56, Nebulous_54, Neferthena_59,

Summary by start number:

Start 4:
• Found in 3 of 17 (17.6%) of genes in pham

• Manual Annotations of this start: 3 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alakazam_56 (EA5), Nebulous_54 (EA5), Neferthena_59 (EA5),

Start 5:
• Found in 14 of 17 (82.4%) of genes in pham
• Manual Annotations of this start: 13 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaronJohn_58 (EA5), CaptainRex_58 (EA5), Clock_54 (EA5), Fulton_58 (EA5), GreenIvy_57 (EA5), Hasitha_58 (EA5), Librie_58 (EA5), LilTerminator_58 (EA5), QuadZero_58 (EA5), TwoBits_56 (EA5), Vafari_57 (EA5), Wardwill_60 (EA5), Zayuliv_58 (EA5), Zepp_58 (EA5),

Summary by clusters:

There is one cluster represented in this pham: EA5

Info for manual annotations of cluster EA5:
•Start number 4 was manually annotated 3 times for cluster EA5.
•Start number 5 was manually annotated 13 times for cluster EA5.

Gene Information:

Gene: Alakazam_56 Start: 39034, Stop: 38324, Start Num: 4
Candidate Starts for Alakazam_56:
(1, 39436), (2, 39418), (3, 39040), (Start: 4 @39034 has 3 MA's), (6, 39007), (9, 38974), (13, 38908), (15, 38902), (16, 38866), (20, 38809), (25, 38731), (26, 38725), (30, 38635), (32, 38584), (33, 38572), (40, 38512), (42, 38494), (47, 38371), (53, 38329),

Gene: BaronJohn_58 Start: 38497, Stop: 37832, Start Num: 5
Candidate Starts for BaronJohn_58:
(Start: 5 @38497 has 13 MA's), (19, 38350), (21, 38308), (22, 38281), (27, 38221), (28, 38200), (34, 38077), (35, 38071), (37, 38065), (38, 38044), (39, 38038), (41, 37999),

Gene: CaptainRex_58 Start: 37883, Stop: 37230, Start Num: 5
Candidate Starts for CaptainRex_58:
(Start: 5 @37883 has 13 MA's), (7, 37871), (11, 37841), (12, 37838), (17, 37766), (18, 37757), (19, 37748), (21, 37706), (22, 37679), (27, 37619), (28, 37598), (35, 37469), (37, 37463), (38, 37442), (39, 37436), (41, 37397),

Gene: Clock_54 Start: 39376, Stop: 38738, Start Num: 5
Candidate Starts for Clock_54:
(Start: 5 @39376 has 13 MA's), (9, 39346), (24, 39136), (29, 39088), (46, 38794), (49, 38776), (51, 38755),

Gene: Fulton_58 Start: 37884, Stop: 37231, Start Num: 5
Candidate Starts for Fulton_58:
(Start: 5 @37884 has 13 MA's), (7, 37872), (11, 37842), (12, 37839), (17, 37767), (18, 37758), (19, 37749), (21, 37707), (22, 37680), (27, 37620), (28, 37599), (35, 37470), (37, 37464), (38, 37443), (39, 37437), (41, 37398),

Gene: GreenIvy_57 Start: 38238, Stop: 37573, Start Num: 5
Candidate Starts for GreenIvy_57:
(Start: 5 @38238 has 13 MA's), (14, 38136), (17, 38109), (19, 38091), (20, 38055), (22, 38022), (35, 37812), (37, 37806), (38, 37785), (39, 37779), (41, 37740), (43, 37716), (45, 37623), (50, 37584),

Gene: Hasitha_58 Start: 37896, Stop: 37243, Start Num: 5
Candidate Starts for Hasitha_58:
(Start: 5 @37896 has 13 MA's), (7, 37884), (11, 37854), (12, 37851), (17, 37779), (18, 37770), (19, 37761), (21, 37719), (22, 37692), (27, 37632), (28, 37611), (35, 37482), (37, 37476), (38, 37455), (39, 37449), (41, 37410),

Gene: Librie_58 Start: 37883, Stop: 37230, Start Num: 5
Candidate Starts for Librie_58:
(Start: 5 @37883 has 13 MA's), (7, 37871), (11, 37841), (12, 37838), (17, 37766), (18, 37757), (19, 37748), (21, 37706), (22, 37679), (27, 37619), (28, 37598), (35, 37469), (37, 37463), (38, 37442), (39, 37436), (41, 37397),

Gene: LilTerminator_58 Start: 37889, Stop: 37239, Start Num: 5
Candidate Starts for LilTerminator_58:
(Start: 5 @37889 has 13 MA's), (14, 37787), (17, 37760), (21, 37700), (22, 37673), (28, 37592), (43, 37382), (45, 37289),

Gene: Nebulous_54 Start: 39720, Stop: 39082, Start Num: 4
Candidate Starts for Nebulous_54:
(Start: 4 @39720 has 3 MA's), (8, 39690), (10, 39672), (24, 39480), (29, 39432), (46, 39138), (49, 39120), (51, 39099),

Gene: Neferthena_59 Start: 39377, Stop: 38823, Start Num: 4
Candidate Starts for Neferthena_59:
(3, 39383), (Start: 4 @39377 has 3 MA's), (10, 39329), (24, 39137), (29, 39089), (46, 38876), (48, 38864), (52, 38834),

Gene: QuadZero_58 Start: 37984, Stop: 37334, Start Num: 5
Candidate Starts for QuadZero_58:
(Start: 5 @37984 has 13 MA's), (14, 37882), (17, 37855), (21, 37795), (22, 37768), (27, 37708), (28, 37687), (43, 37477), (45, 37384),

Gene: TwoBits_56 Start: 38229, Stop: 37579, Start Num: 5
Candidate Starts for TwoBits_56:
(Start: 5 @38229 has 13 MA's), (14, 38127), (17, 38100), (21, 38040), (22, 38013), (23, 38004), (28, 37932), (31, 37857), (43, 37722), (45, 37629),

Gene: Vafari_57 Start: 37887, Stop: 37237, Start Num: 5
Candidate Starts for Vafari_57:
(Start: 5 @37887 has 13 MA's), (14, 37785), (17, 37758), (21, 37698), (22, 37671), (28, 37590), (43, 37380), (45, 37287),

Gene: Wardwill_60 Start: 38037, Stop: 37372, Start Num: 5
Candidate Starts for Wardwill_60:
(Start: 5 @38037 has 13 MA's), (14, 37935), (17, 37908), (21, 37848), (22, 37821), (28, 37740), (36, 37608), (37, 37605), (41, 37539), (43, 37515), (45, 37422),

Gene: Zayuliv_58 Start: 38556, Stop: 37903, Start Num: 5
Candidate Starts for Zayuliv_58:
(Start: 5 @38556 has 13 MA's), (11, 38514), (12, 38511), (14, 38466), (19, 38421), (21, 38379), (22, 38352), (27, 38292), (35, 38142), (37, 38136), (38, 38115), (39, 38109), (41, 38070), (44, 38007), (45, 37953), (50, 37914),

Gene: Zepp_58 Start: 37943, Stop: 37290, Start Num: 5
Candidate Starts for Zepp_58:
(Start: 5 @37943 has 13 MA's), (12, 37898), (17, 37826), (21, 37766), (22, 37739), (27, 37679), (37, 37523), (41, 37457),