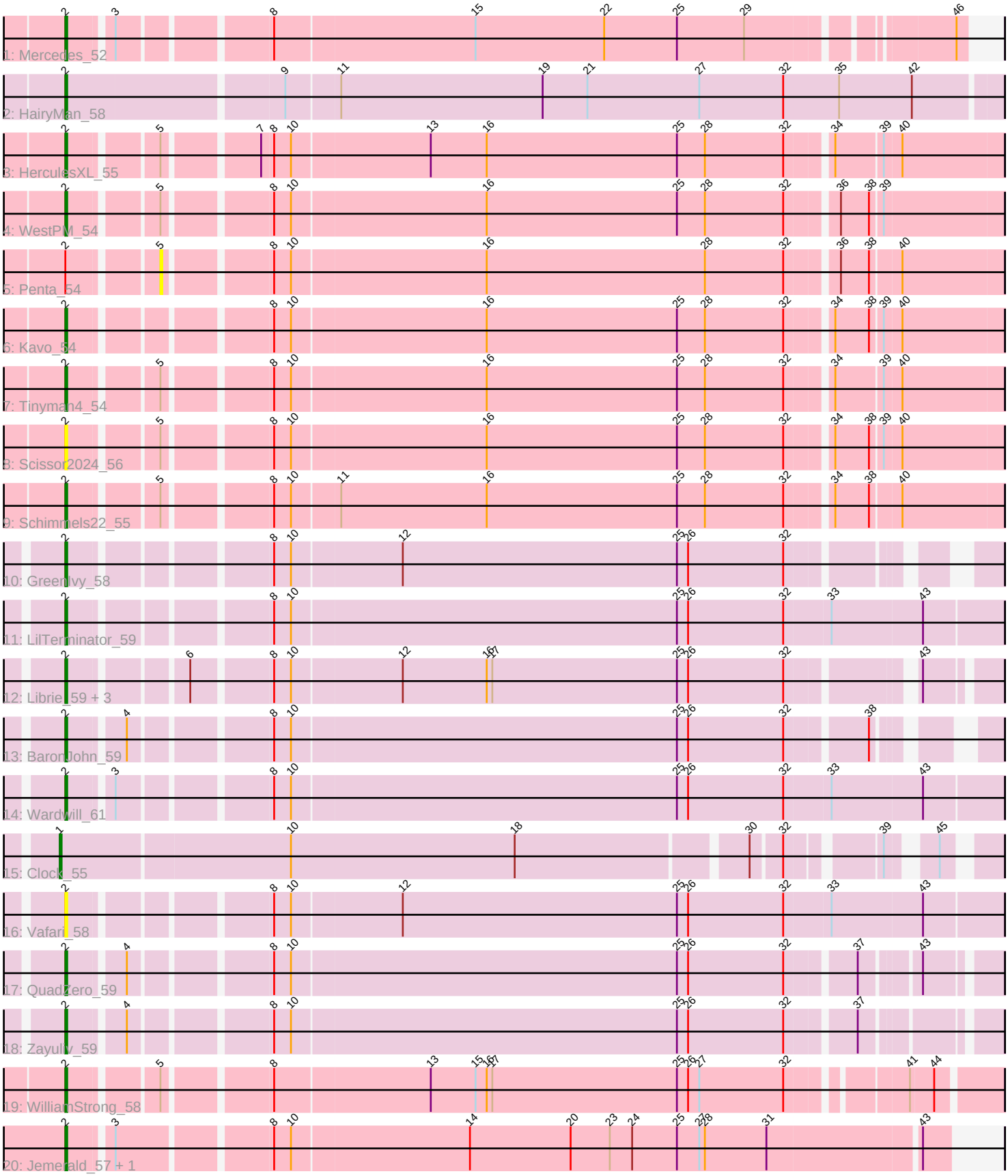
Pham 344334


1: Mercedes_52
2: HairyMan_58
3: HerculesXL_55
4: WestPM_54
5: Penta_54
6: Kavo_54
7: Tinyman4_54
8: Scissor2024_56
9: Schimmels22_55
10: GreenIvy_58
11: LilTerminator_59
12: Librie_59 + 3
13: BaronJohn_59
14: WardWill_61
15: Clock_55
16: Vafari_58
17: QuadZero_59
18: ZayulV_59
19: WilliamStrong_58
20: Jemerald_57 + 1

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 344334 Report

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

Pham number 344334 has 24 members, 3 are drafts.

Phages represented in each track:
- Track 1 : Mercedes_52
- Track 2 : HairyMan_58
- Track 3 : HerculesXL_55
- Track 4 : WestPM_54
- Track 5 : Penta_54
- Track 6 : Kavo_54
- Track 7 : Tinyman4_54
- Track 8 : Scissor2024_56
- Track 9 : Schimmels22_55
- Track 10 : GreenIvy_58
- Track 11 : LilTerminator_59
- Track 12 : Librie_59, Fulton_59, Hasitha_59, CaptainRex_59
- Track 13 : BaronJohn_59
- Track 14 : Wardwill_61
- Track 15 : Clock_55
- Track 16 : Vafari_58
- Track 17 : QuadZero_59
- Track 18 : Zayuliv_59
- Track 19 : WilliamStrong_58
- Track 20 : Jemerald_57, Juicer_57

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 20 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- BaronJohn_59, CaptainRex_59, Fulton_59, GreenIvy_58, HairyMan_58, Hasitha_59, HerculesXL_55, Jemerald_57, Juicer_57, Kavo_54, Librie_59, LilTerminator_59, Mercedes_52, QuadZero_59, Schimmels22_55, Scissor2024_56, Tinyman4_54, Vafari_58, Wardwill_61, WestPM_54, WilliamStrong_58, Zayuliv_59,

Genes that have the "Most Annotated" start but do not call it:
- Penta_54,

Genes that do not have the "Most Annotated" start:
• Clock_55,

Summary by start number:

Start 1:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clock_55 (EA5),

Start 2:
• Found in 23 of 24 (95.8%) of genes in pham
• Manual Annotations of this start: 20 of 21
• Called 95.7% of time when present
• Phage (with cluster) where this start called: BaronJohn_59 (EA5), CaptainRex_59 (EA5), Fulton_59 (EA5), GreenIvy_58 (EA5), HairyMan_58 (EA10), Hasitha_59 (EA5), HerculesXL_55 (EA11), Jemerald_57 (EA6), Juicer_57 (EA6), Kavo_54 (EA11), Librie_59 (EA5), LilTerminator_59 (EA5), Mercedes_52 (EA), QuadZero_59 (EA5), Schimmels22_55 (EA11), Scissor2024_56 (EA11), Tinyman4_54 (EA11), Vafari_58 (EA5), Wardwill_61 (EA5), WestPM_54 (EA11), WilliamStrong_58 (EA6), Zayuliv_59 (EA5),

Start 5:
• Found in 7 of 24 (29.2%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Penta_54 (EA11),

Summary by clusters:

There are 5 clusters represented in this pham: EA, EA11, EA5, EA10, EA6,

Info for manual annotations of cluster EA:
•Start number 2 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA10:
•Start number 2 was manually annotated 1 time for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 2 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 1 was manually annotated 1 time for cluster EA5.
•Start number 2 was manually annotated 10 times for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 2 was manually annotated 3 times for cluster EA6.

Gene Information:

Gene: BaronJohn_59 Start: 38940, Stop: 38494, Start Num: 2
Candidate Starts for BaronJohn_59:
(Start: 2 @38940 has 20 MA's), (4, 38913), (8, 38847), (10, 38838), (25, 38634), (26, 38628), (32, 38577), (38, 38538),

Gene: CaptainRex_59 Start: 38335, Stop: 37880, Start Num: 2
Candidate Starts for CaptainRex_59:
(Start: 2 @38335 has 20 MA's), (6, 38281), (8, 38242), (10, 38233), (12, 38176), (16, 38131), (17, 38128), (25, 38029), (26, 38023), (32, 37972), (43, 37915),

Gene: Clock_55 Start: 39828, Stop: 39373, Start Num: 1
Candidate Starts for Clock_55:
(Start: 1 @39828 has 1 MA's), (10, 39708), (18, 39588), (30, 39471), (32, 39456), (39, 39414), (45, 39396),

Gene: Fulton_59 Start: 38336, Stop: 37881, Start Num: 2
Candidate Starts for Fulton_59:
(Start: 2 @38336 has 20 MA's), (6, 38282), (8, 38243), (10, 38234), (12, 38177), (16, 38132), (17, 38129), (25, 38030), (26, 38024), (32, 37973), (43, 37916),

Gene: GreenIvy_58 Start: 38681, Stop: 38235, Start Num: 2
Candidate Starts for GreenIvy_58:
(Start: 2 @38681 has 20 MA's), (8, 38588), (10, 38579), (12, 38522), (25, 38375), (26, 38369), (32, 38318),

Gene: HairyMan_58 Start: 39760, Stop: 39272, Start Num: 2
Candidate Starts for HairyMan_58:
(Start: 2 @39760 has 20 MA's), (9, 39649), (11, 39622), (19, 39514), (21, 39490), (27, 39430), (32, 39385), (35, 39355), (42, 39316),

Gene: Hasitha_59 Start: 38348, Stop: 37893, Start Num: 2
Candidate Starts for Hasitha_59:
(Start: 2 @38348 has 20 MA's), (6, 38294), (8, 38255), (10, 38246), (12, 38189), (16, 38144), (17, 38141), (25, 38042), (26, 38036), (32, 37985), (43, 37928),

Gene: HerculesXL_55 Start: 37238, Stop: 36768, Start Num: 2
Candidate Starts for HerculesXL_55:
(Start: 2 @37238 has 20 MA's), (5, 37196), (7, 37151), (8, 37145), (10, 37136), (13, 37064), (16, 37034), (25, 36932), (28, 36917), (32, 36875), (34, 36854), (39, 36830), (40, 36821),

Gene: Jemerald_57 Start: 38773, Stop: 38324, Start Num: 2
Candidate Starts for Jemerald_57:
(Start: 2 @38773 has 20 MA's), (3, 38752), (8, 38677), (10, 38668), (14, 38575), (20, 38521), (23, 38500), (24, 38488), (25, 38464), (27, 38452), (28, 38449), (31, 38416), (43, 38338),

Gene: Juicer_57 Start: 38773, Stop: 38324, Start Num: 2
Candidate Starts for Juicer_57:
(Start: 2 @38773 has 20 MA's), (3, 38752), (8, 38677), (10, 38668), (14, 38575), (20, 38521), (23, 38500), (24, 38488), (25, 38464), (27, 38452), (28, 38449), (31, 38416), (43, 38338),

Gene: Kavo_54 Start: 37284, Stop: 36814, Start Num: 2
Candidate Starts for Kavo_54:

(Start: 2 @37284 has 20 MA's), (8, 37191), (10, 37182), (16, 37080), (25, 36978), (28, 36963), (32, 36921), (34, 36900), (38, 36882), (39, 36876), (40, 36867),

Gene: Librie_59 Start: 38335, Stop: 37880, Start Num: 2
Candidate Starts for Librie_59:
(Start: 2 @38335 has 20 MA's), (6, 38281), (8, 38242), (10, 38233), (12, 38176), (16, 38131), (17, 38128), (25, 38029), (26, 38023), (32, 37972), (43, 37915),

Gene: LilTerminator_59 Start: 38362, Stop: 37886, Start Num: 2
Candidate Starts for LilTerminator_59:
(Start: 2 @38362 has 20 MA's), (8, 38269), (10, 38260), (25, 38056), (26, 38050), (32, 37999), (33, 37975), (43, 37927),

Gene: Mercedes_52 Start: 38085, Stop: 37642, Start Num: 2
Candidate Starts for Mercedes_52:
(Start: 2 @38085 has 20 MA's), (3, 38064), (8, 37992), (15, 37887), (22, 37818), (25, 37779), (29, 37743), (46, 37647),

Gene: Penta_54 Start: 37397, Stop: 36969, Start Num: 5
Candidate Starts for Penta_54:
(Start: 2 @37439 has 20 MA's), (5, 37397), (8, 37346), (10, 37337), (16, 37235), (28, 37118), (32, 37076), (36, 37052), (38, 37037), (40, 37022),

Gene: QuadZero_59 Start: 38439, Stop: 37981, Start Num: 2
Candidate Starts for QuadZero_59:
(Start: 2 @38439 has 20 MA's), (4, 38412), (8, 38346), (10, 38337), (25, 38133), (26, 38127), (32, 38076), (37, 38043), (43, 38016),

Gene: Schimmels22_55 Start: 37731, Stop: 37261, Start Num: 2
Candidate Starts for Schimmels22_55:
(Start: 2 @37731 has 20 MA's), (5, 37689), (8, 37638), (10, 37629), (11, 37605), (16, 37527), (25, 37425), (28, 37410), (32, 37368), (34, 37347), (38, 37329), (40, 37314),

Gene: Scissor2024_56 Start: 37371, Stop: 36901, Start Num: 2
Candidate Starts for Scissor2024_56:
(Start: 2 @37371 has 20 MA's), (5, 37329), (8, 37278), (10, 37269), (16, 37167), (25, 37065), (28, 37050), (32, 37008), (34, 36987), (38, 36969), (39, 36963), (40, 36954),

Gene: Tinyman4_54 Start: 37234, Stop: 36764, Start Num: 2
Candidate Starts for Tinyman4_54:
(Start: 2 @37234 has 20 MA's), (5, 37192), (8, 37141), (10, 37132), (16, 37030), (25, 36928), (28, 36913), (32, 36871), (34, 36850), (39, 36826), (40, 36817),

Gene: Vafari_58 Start: 38360, Stop: 37884, Start Num: 2
Candidate Starts for Vafari_58:
(Start: 2 @38360 has 20 MA's), (8, 38267), (10, 38258), (12, 38201), (25, 38054), (26, 38048), (32, 37997), (33, 37973), (43, 37925),

Gene: Wardwill_61 Start: 38510, Stop: 38034, Start Num: 2
Candidate Starts for Wardwill_61:
(Start: 2 @38510 has 20 MA's), (3, 38489), (8, 38417), (10, 38408), (25, 38204), (26, 38198), (32, 38147), (33, 38123), (43, 38075),

Gene: WestPM_54 Start: 37599, Stop: 37129, Start Num: 2
Candidate Starts for WestPM_54:
(Start: 2 @37599 has 20 MA's), (5, 37557), (8, 37506), (10, 37497), (16, 37395), (25, 37293), (28, 37278), (32, 37236), (36, 37212), (38, 37197), (39, 37191),

Gene: WilliamStrong_58 Start: 38811, Stop: 38350, Start Num: 2
Candidate Starts for WilliamStrong_58:
(Start: 2 @38811 has 20 MA's), (5, 38769), (8, 38718), (13, 38637), (15, 38613), (16, 38607), (17, 38604), (25, 38505), (26, 38499), (27, 38493), (32, 38448), (41, 38394), (44, 38382),

Gene: Zayuliv_59 Start: 39011, Stop: 38553, Start Num: 2
Candidate Starts for Zayuliv_59:
(Start: 2 @39011 has 20 MA's), (4, 38984), (8, 38918), (10, 38909), (25, 38705), (26, 38699), (32, 38648), (37, 38615),