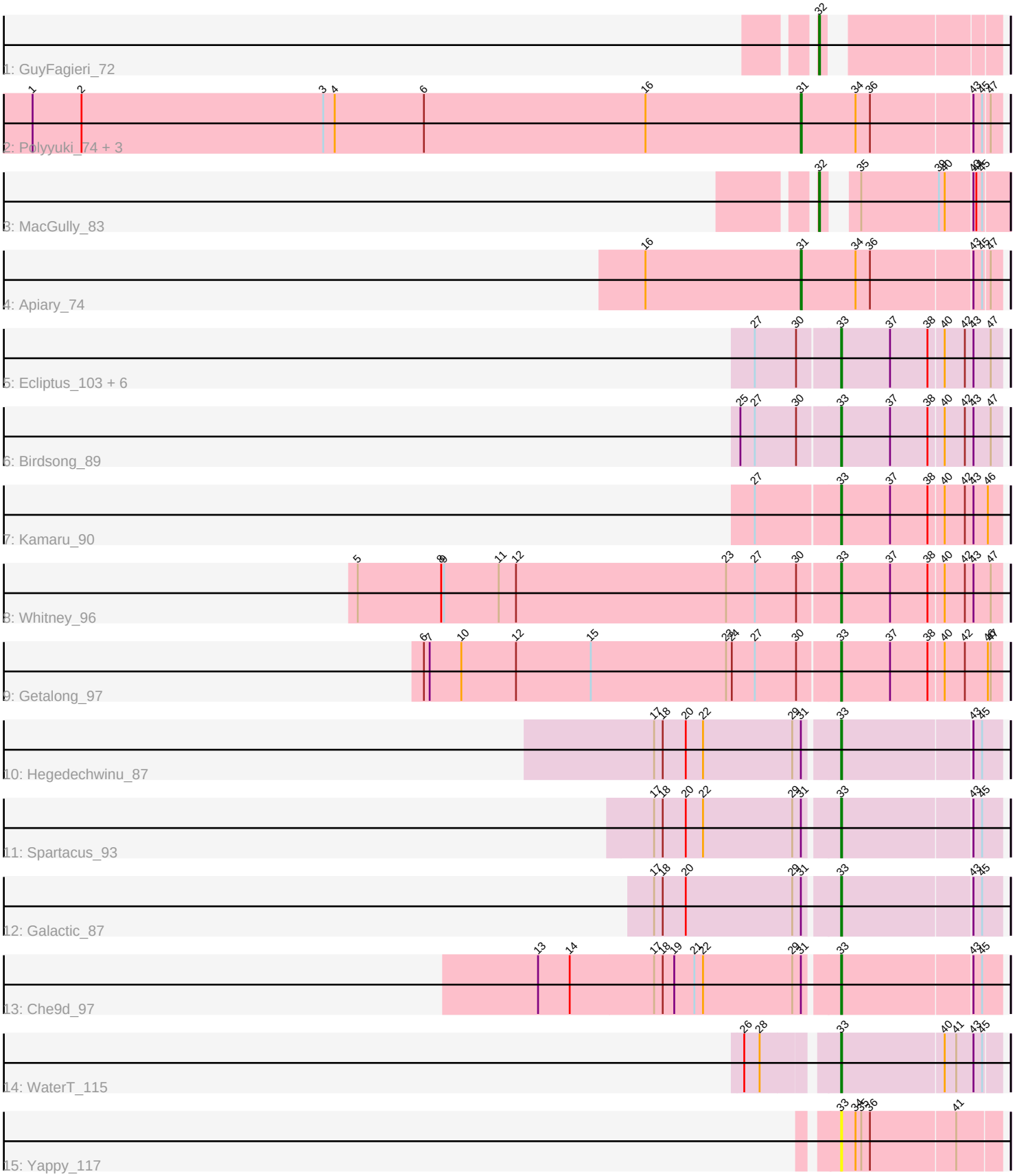
Pham 194304


1: GuyFagieri_72
2: Polyyuki_74 + 3
3: MacGully_83
4: Apiary_74
5: Ecliptus_103 + 6
6: Birdsong_89
7: Kamaru_90
8: Whitney_96
9: Getalong_97
10: Hegedechwinu_87
11: Spartacus_93
12: Galactic_87
13: Che9d_97
14: WaterT_115
15: Yappy_117

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 194304 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194304 has 24 members, 2 are drafts.

Phages represented in each track:
• Track 1 : GuyFagieri_72
• Track 2 : Polyyuki_74, Maselop_74, CoffeeBean_74, Braxoaddie_74
• Track 3 : MacGully_83
• Track 4 : Apiary_74
• Track 5 : Ecliptus_103, Crater_95, Apricot_95, Leroy_96, Horus_96, Frickyeah_101, Periwinkle_104
• Track 6 : Birdsong_89
• Track 7 : Kamaru_90
• Track 8 : Whitney_96
• Track 9 : Getalong_97
• Track 10 : Hegedechwinu_87
• Track 11 : Spartacus_93
• Track 12 : Galactic_87
• Track 13 : Che9d_97
• Track 14 : WaterT_115
• Track 15 : Yappy_117

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

The start number called the most often in the published annotations is 33, it was called in 15 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Apricot_95, Birdsong_89, Che9d_97, Crater_95, Ecliptus_103, Frickyeah_101, Galactic_87, Getalong_97, Hegedechwinu_87, Horus_96, Kamaru_90, Leroy_96, Periwinkle_104, Spartacus_93, WaterT_115, Whitney_96, Yappy_117,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Apiary_74, Braxoaddie_74, CoffeeBean_74, GuyFagieri_72, MacGully_83, Maselop_74, Polyyuki_74,

Summary by start number:

Start 31:
• Found in 9 of 24 (37.5%) of genes in pham
• Manual Annotations of this start: 5 of 22
• Called 55.6% of time when present
• Phage (with cluster) where this start called: Apiary_74 (CR), Braxoaddie_74 (CR), CoffeeBean_74 (CR), Maselop_74 (CR), Polyyuki_74 (CR),

Start 32:
• Found in 2 of 24 (8.3%) 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: GuyFagieri_72 (CR), MacGully_83 (CR),

Start 33:
• Found in 17 of 24 (70.8%) of genes in pham
• Manual Annotations of this start: 15 of 22
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_95 (DN3), Birdsong_89 (DN), Che9d_97 (F2), Crater_95 (DN3), Ecliptus_103 (DN), Frickyeah_101 (DN1), Galactic_87 (F1), Getalong_97 (DN1), Hegedechwinu_87 (F1), Horus_96 (DN1), Kamaru_90 (DN1), Leroy_96 (DN1), Periwinkle_104 (DN1), Spartacus_93 (F1), WaterT_115 (GB), Whitney_96 (DN1), Yappy_117 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: DN, F1, F2, singleton, DN1, GB, DN3, CR,

Info for manual annotations of cluster CR:
•Start number 31 was manually annotated 5 times for cluster CR.
•Start number 32 was manually annotated 2 times for cluster CR.

Info for manual annotations of cluster DN:
•Start number 33 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 33 was manually annotated 6 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 33 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster F1:
•Start number 33 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 33 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster GB:
•Start number 33 was manually annotated 1 time for cluster GB.

Gene Information:

Gene: Apiary_74 Start: 53618, Stop: 53418, Start Num: 31
Candidate Starts for Apiary_74:
(16, 53780), (Start: 31 @53618 has 5 MA's), (34, 53561), (36, 53546), (43, 53444), (45, 53435), (47, 53429),

Gene: Apricot_95 Start: 50033, Stop: 50197, Start Num: 33
Candidate Starts for Apricot_95:
(27, 49961), (30, 50003), (Start: 33 @50033 has 15 MA's), (37, 50084), (38, 50123), (40, 50138), (42, 50159), (43, 50168), (47, 50186),

Gene: Birdsong_89 Start: 50367, Stop: 50531, Start Num: 33
Candidate Starts for Birdsong_89:
(25, 50280), (27, 50295), (30, 50337), (Start: 33 @50367 has 15 MA's), (37, 50418), (38, 50457), (40, 50472), (42, 50493), (43, 50502), (47, 50520),

Gene: Braxoaddie_74 Start: 53604, Stop: 53404, Start Num: 31
Candidate Starts for Braxoaddie_74:
(1, 54405), (2, 54354), (3, 54102), (4, 54090), (6, 53997), (16, 53766), (Start: 31 @53604 has 5 MA's), (34, 53547), (36, 53532), (43, 53430), (45, 53421), (47, 53415),

Gene: Che9d_97 Start: 50270, Stop: 50431, Start Num: 33
Candidate Starts for Che9d_97:
(13, 49976), (14, 50009), (17, 50096), (18, 50105), (19, 50117), (21, 50138), (22, 50147), (29, 50240), (Start: 31 @50249 has 5 MA's), (Start: 33 @50270 has 15 MA's), (43, 50402), (45, 50411),

Gene: CoffeeBean_74 Start: 53562, Stop: 53362, Start Num: 31
Candidate Starts for CoffeeBean_74:
(1, 54363), (2, 54312), (3, 54060), (4, 54048), (6, 53955), (16, 53724), (Start: 31 @53562 has 5 MA's), (34, 53505), (36, 53490), (43, 53388), (45, 53379), (47, 53373),

Gene: Crater_95 Start: 50377, Stop: 50541, Start Num: 33
Candidate Starts for Crater_95:
(27, 50305), (30, 50347), (Start: 33 @50377 has 15 MA's), (37, 50428), (38, 50467), (40, 50482), (42, 50503), (43, 50512), (47, 50530),

Gene: Ecliptus_103 Start: 53576, Stop: 53740, Start Num: 33
Candidate Starts for Ecliptus_103:
(27, 53504), (30, 53546), (Start: 33 @53576 has 15 MA's), (37, 53627), (38, 53666), (40, 53681), (42, 53702), (43, 53711), (47, 53729),

Gene: Frickyeah_101 Start: 52323, Stop: 52487, Start Num: 33
Candidate Starts for Frickyeah_101:
(27, 52251), (30, 52293), (Start: 33 @52323 has 15 MA's), (37, 52374), (38, 52413), (40, 52428), (42, 52449), (43, 52458), (47, 52476),

Gene: Galactic_87 Start: 50180, Stop: 50341, Start Num: 33
Candidate Starts for Galactic_87:
(17, 50006), (18, 50015), (20, 50039), (29, 50150), (Start: 31 @50159 has 5 MA's), (Start: 33 @50180 has 15 MA's), (43, 50312), (45, 50321),

Gene: Getalong_97 Start: 53019, Stop: 53183, Start Num: 33

Candidate Starts for Getalong_97:
(6, 52602), (7, 52608), (10, 52641), (12, 52698), (15, 52776), (23, 52917), (24, 52923), (27, 52947), (30, 52989), (Start: 33 @53019 has 15 MA's), (37, 53070), (38, 53109), (40, 53124), (42, 53145), (46, 53169), (47, 53172),

Gene: GuyFagieri_72 Start: 53418, Stop: 53260, Start Num: 32
Candidate Starts for GuyFagieri_72:
(Start: 32 @53418 has 2 MA's),

Gene: Hegedechwinu_87 Start: 49279, Stop: 49440, Start Num: 33
Candidate Starts for Hegedechwinu_87:
(17, 49105), (18, 49114), (20, 49138), (22, 49156), (29, 49249), (Start: 31 @49258 has 5 MA's), (Start: 33 @49279 has 15 MA's), (43, 49411), (45, 49420),

Gene: Horus_96 Start: 52598, Stop: 52762, Start Num: 33
Candidate Starts for Horus_96:
(27, 52526), (30, 52568), (Start: 33 @52598 has 15 MA's), (37, 52649), (38, 52688), (40, 52703), (42, 52724), (43, 52733), (47, 52751),

Gene: Kamaru_90 Start: 50054, Stop: 50218, Start Num: 33
Candidate Starts for Kamaru_90:
(27, 49982), (Start: 33 @50054 has 15 MA's), (37, 50105), (38, 50144), (40, 50159), (42, 50180), (43, 50189), (46, 50204),

Gene: Leroy_96 Start: 50793, Stop: 50957, Start Num: 33
Candidate Starts for Leroy_96:
(27, 50721), (30, 50763), (Start: 33 @50793 has 15 MA's), (37, 50844), (38, 50883), (40, 50898), (42, 50919), (43, 50928), (47, 50946),

Gene: MacGully_83 Start: 56833, Stop: 56663, Start Num: 32
Candidate Starts for MacGully_83:
(Start: 32 @56833 has 2 MA's), (35, 56812), (39, 56731), (40, 56725), (43, 56698), (44, 56695), (45, 56689),

Gene: Maselop_74 Start: 53638, Stop: 53438, Start Num: 31
Candidate Starts for Maselop_74:
(1, 54439), (2, 54388), (3, 54136), (4, 54124), (6, 54031), (16, 53800), (Start: 31 @53638 has 5 MA's), (34, 53581), (36, 53566), (43, 53464), (45, 53455), (47, 53449),

Gene: Periwinkle_104 Start: 53600, Stop: 53764, Start Num: 33
Candidate Starts for Periwinkle_104:
(27, 53528), (30, 53570), (Start: 33 @53600 has 15 MA's), (37, 53651), (38, 53690), (40, 53705), (42, 53726), (43, 53735), (47, 53753),

Gene: Polyyuki_74 Start: 53630, Stop: 53430, Start Num: 31
Candidate Starts for Polyyuki_74:
(1, 54431), (2, 54380), (3, 54128), (4, 54116), (6, 54023), (16, 53792), (Start: 31 @53630 has 5 MA's), (34, 53573), (36, 53558), (43, 53456), (45, 53447), (47, 53441),

Gene: Spartacus_93 Start: 53156, Stop: 53317, Start Num: 33
Candidate Starts for Spartacus_93:
(17, 52982), (18, 52991), (20, 53015), (22, 53033), (29, 53126), (Start: 31 @53135 has 5 MA's), (Start: 33 @53156 has 15 MA's), (43, 53288), (45, 53297),

Gene: WaterT_115 Start: 57392, Stop: 57231, Start Num: 33
Candidate Starts for WaterT_115:
(26, 57464), (28, 57449), (Start: 33 @57392 has 15 MA's), (40, 57287), (41, 57275), (43, 57257), (45, 57248),

Gene: Whitney_96 Start: 53279, Stop: 53443, Start Num: 33
Candidate Starts for Whitney_96:
(5, 52793), (8, 52880), (9, 52883), (11, 52940), (12, 52958), (23, 53177), (27, 53207), (30, 53249), (Start: 33 @53279 has 15 MA's), (37, 53330), (38, 53369), (40, 53384), (42, 53405), (43, 53414), (47, 53432),

Gene: Yappy_117 Start: 57403, Stop: 57242, Start Num: 33
Candidate Starts for Yappy_117:
(Start: 33 @57403 has 15 MA's), (34, 57388), (35, 57382), (36, 57373), (41, 57286),