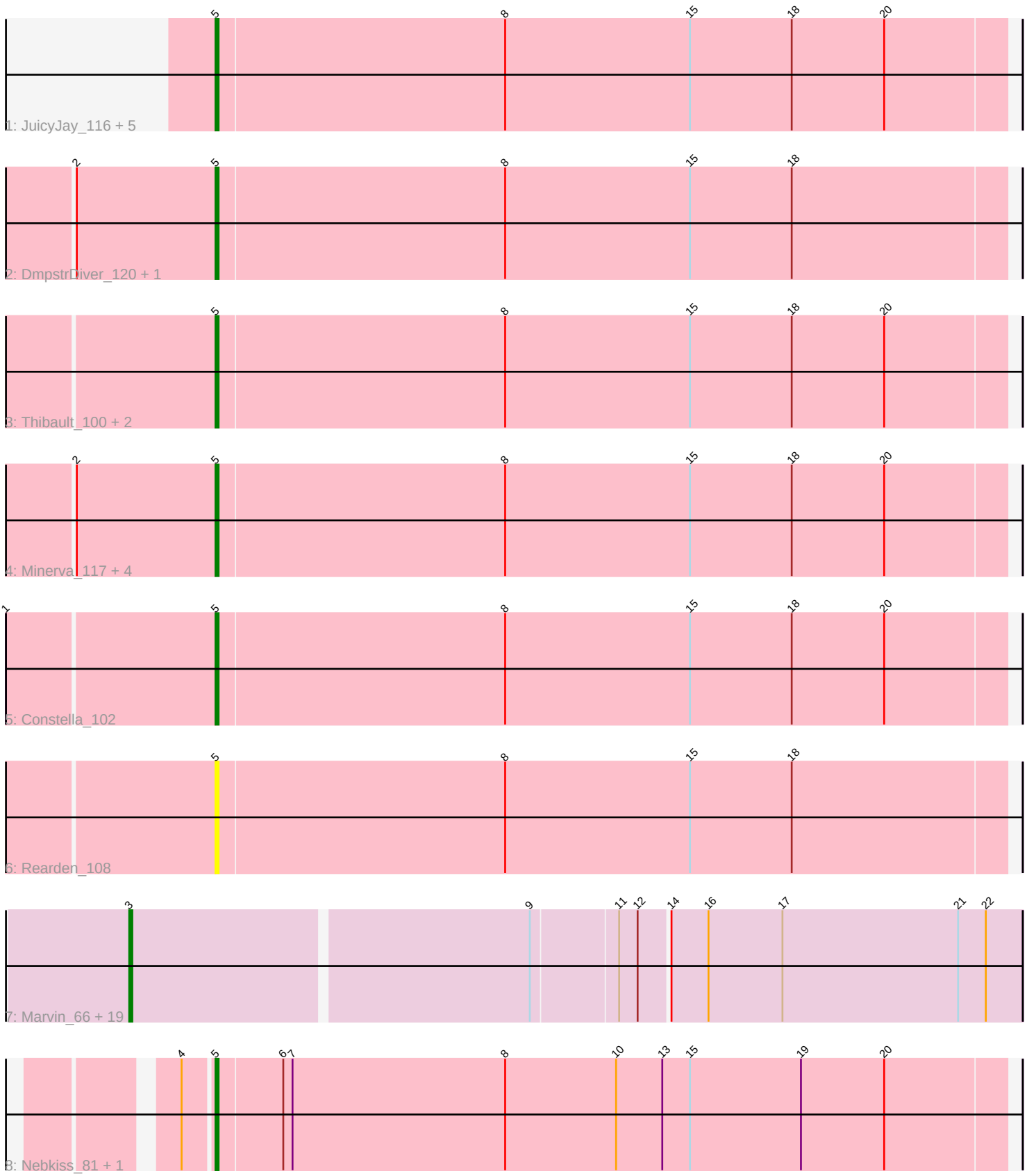
# Pham 347801


5
8
15
18
20
1: JuicyJay_116 + 5
2
5
8
15
18
2: DmpstrDiver_120 + 1
5
8
15
18
20
3: Thibault_100 + 2
2
5
8
15
18
20
4: Minerva_117 + 4
1
5
8
15
18
20
5: Constella_102
5
8
15
18
6: Rearden_108
3
9
11
12
14
16
17
21
22
7: Marvin_66 + 19
4
5
6
7
8
10
13
15
19
20
8: Nebkiss_81 + 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 347801 Report

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

Pham number 347801 has 40 members, 3 are drafts.

Phages represented in each track:
• Track 1 : JuicyJay_116, Beem_121, Dove_105, Redno2_113, NihilNomen_121, Phoebus_120
• Track 2 : DmpstrDiver_120, Bagrid_120
• Track 3 : Thibault_100, Xiaokay_108, Dallas_120
• Track 4 : Minerva_117, Pound_109, Ejimix_114, Hughesyang_119, Halley_122
• Track 5 : Constella_102
• Track 6 : Rearden_108
• Track 7 : Marvin_66, Corazon_68, FeliMaine_73, Caprice_70, Raela_71, Lilbit_68, VasuNzinga_69, Beelzebub_75, JoieB_72, Poise_71, RedRaider77_70, Gattaca_68, Clarkson_72, LittleLaf_70, MosMoris_67, GoongGoong_70, Tesla_67, Huphlepuff_73, Blackbeetle_71, Pringar_69
• Track 8 : Nebkiss_81, Gaia_82

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

The start number called the most often in the published annotations is 3, it was called in 20 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beelzebub_75, Blackbeetle_71, Caprice_70, Clarkson_72, Corazon_68, FeliMaine_73, Gattaca_68, GoongGoong_70, Huphlepuff_73, JoieB_72, Lilbit_68, LittleLaf_70, Marvin_66, MosMoris_67, Poise_71, Pringar_69, Raela_71, RedRaider77_70, Tesla_67, VasuNzinga_69,

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

Genes that do not have the "Most Annotated" start:
• Bagrid_120, Beem_121, Constella_102, Dallas_120, DmpstrDiver_120, Dove_105, Ejimix_114, Gaia_82, Halley_122, Hughesyang_119, JuicyJay_116, Minerva_117, Nebkiss_81, NihilNomen_121, Phoebus_120, Pound_109, Rearden_108, Redno2_113, Thibault_100, Xiaokay_108,

**Summary by start number:**

Start 3:
• Found in 20 of 40 ( 50.0% ) of genes in pham
• Manual Annotations of this start: 20 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beelzebub_75 (S), Blackbeetle_71 (S), Caprice_70 (S), Clarkson_72 (S), Corazon_68 (S), FeliMaine_73 (S), Gattaca_68 (S), GoongGoong_70 (S), Huphlepuff_73 (S), JoieB_72 (S), Lilbit_68 (S), LittleLaf_70 (S), Marvin_66 (S), MosMoris_67 (S), Poise_71 (S), Pringar_69 (S), Raela_71 (S), RedRaider77_70 (S), Tesla_67 (S), VasuNzinga_69 (S),

Start 5:
• Found in 20 of 40 ( 50.0% ) of genes in pham
• Manual Annotations of this start: 17 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bagrid_120 (J), Beem_121 (J), Constella_102 (J), Dallas_120 (J), DmpstrDiver_120 (J), Dove_105 (J), Ejimix_114 (J), Gaia_82 (X), Halley_122 (J), Hughesyang_119 (J), JuicyJay_116 (J), Minerva_117 (J), Nebkiss_81 (X), NihilNomen_121 (J), Phoebus_120 (J), Pound_109 (J), Rearden_108 (J), Redno2_113 (J), Thibault_100 (J), Xiaokay_108 (J),

**Summary by clusters:**

There are 3 clusters represented in this pham: X, S, J,

Info for manual annotations of cluster J:
•Start number 5 was manually annotated 15 times for cluster J.

Info for manual annotations of cluster S:
•Start number 3 was manually annotated 20 times for cluster S.

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

***Gene Information:***

Gene: Bagrid_120 Start: 66425, Stop: 66679, Start Num: 5
Candidate Starts for Bagrid_120:
(2, 66380), (Start: 5 @66425 has 17 MA's), (8, 66518), (15, 66578), (18, 66611),

Gene: Beelzebub_75 Start: 40738, Stop: 41019, Start Num: 3
Candidate Starts for Beelzebub_75:
(Start: 3 @40738 has 20 MA's), (9, 40864), (11, 40891), (12, 40897), (14, 40906), (16, 40918), (17, 40942), (21, 40999), (22, 41008),

Gene: Beem_121 Start: 67793, Stop: 68047, Start Num: 5
Candidate Starts for Beem_121:
(Start: 5 @67793 has 17 MA's), (8, 67886), (15, 67946), (18, 67979), (20, 68009),

Gene: Blackbeetle_71 Start: 39750, Stop: 40031, Start Num: 3
Candidate Starts for Blackbeetle_71:

(Start: 3 @39750 has 20 MA's), (9, 39876), (11, 39903), (12, 39909), (14, 39918), (16, 39930), (17, 39954), (21, 40011), (22, 40020),

Gene: Caprice_70 Start: 40064, Stop: 40345, Start Num: 3
Candidate Starts for Caprice_70:
(Start: 3 @40064 has 20 MA's), (9, 40190), (11, 40217), (12, 40223), (14, 40232), (16, 40244), (17, 40268), (21, 40325), (22, 40334),

Gene: Clarkson_72 Start: 40466, Stop: 40747, Start Num: 3
Candidate Starts for Clarkson_72:
(Start: 3 @40466 has 20 MA's), (9, 40592), (11, 40619), (12, 40625), (14, 40634), (16, 40646), (17, 40670), (21, 40727), (22, 40736),

Gene: Constella_102 Start: 60563, Stop: 60817, Start Num: 5
Candidate Starts for Constella_102:
(1, 60497), (Start: 5 @60563 has 17 MA's), (8, 60656), (15, 60716), (18, 60749), (20, 60779),

Gene: Corazon_68 Start: 40660, Stop: 40941, Start Num: 3
Candidate Starts for Corazon_68:
(Start: 3 @40660 has 20 MA's), (9, 40786), (11, 40813), (12, 40819), (14, 40828), (16, 40840), (17, 40864), (21, 40921), (22, 40930),

Gene: Dallas_120 Start: 67308, Stop: 67562, Start Num: 5
Candidate Starts for Dallas_120:
(Start: 5 @67308 has 17 MA's), (8, 67401), (15, 67461), (18, 67494), (20, 67524),

Gene: DmpstrDiver_120 Start: 66714, Stop: 66968, Start Num: 5
Candidate Starts for DmpstrDiver_120:
(2, 66669), (Start: 5 @66714 has 17 MA's), (8, 66807), (15, 66867), (18, 66900),

Gene: Dove_105 Start: 62222, Stop: 62476, Start Num: 5
Candidate Starts for Dove_105:
(Start: 5 @62222 has 17 MA's), (8, 62315), (15, 62375), (18, 62408), (20, 62438),

Gene: Ejimix_114 Start: 67842, Stop: 68096, Start Num: 5
Candidate Starts for Ejimix_114:
(2, 67797), (Start: 5 @67842 has 17 MA's), (8, 67935), (15, 67995), (18, 68028), (20, 68058),

Gene: FeliMaine_73 Start: 40708, Stop: 40989, Start Num: 3
Candidate Starts for FeliMaine_73:
(Start: 3 @40708 has 20 MA's), (9, 40834), (11, 40861), (12, 40867), (14, 40876), (16, 40888), (17, 40912), (21, 40969), (22, 40978),

Gene: Gaia_82 Start: 49561, Stop: 49815, Start Num: 5
Candidate Starts for Gaia_82:
(4, 49552), (Start: 5 @49561 has 17 MA's), (6, 49582), (7, 49585), (8, 49654), (10, 49690), (13, 49705), (15, 49714), (19, 49750), (20, 49777),

Gene: Gattaca_68 Start: 39854, Stop: 40135, Start Num: 3
Candidate Starts for Gattaca_68:
(Start: 3 @39854 has 20 MA's), (9, 39980), (11, 40007), (12, 40013), (14, 40022), (16, 40034), (17, 40058), (21, 40115), (22, 40124),

Gene: GoongGoong_70 Start: 39653, Stop: 39934, Start Num: 3
Candidate Starts for GoongGoong_70:
(Start: 3 @39653 has 20 MA's), (9, 39779), (11, 39806), (12, 39812), (14, 39821), (16, 39833), (17, 39857), (21, 39914), (22, 39923),

Gene: Halley_122 Start: 68158, Stop: 68412, Start Num: 5
Candidate Starts for Halley_122:
(2, 68113), (Start: 5 @68158 has 17 MA's), (8, 68251), (15, 68311), (18, 68344), (20, 68374),

Gene: Hughesyang_119 Start: 67614, Stop: 67868, Start Num: 5
Candidate Starts for Hughesyang_119:
(2, 67569), (Start: 5 @67614 has 17 MA's), (8, 67707), (15, 67767), (18, 67800), (20, 67830),

Gene: Huphlepuff_73 Start: 40271, Stop: 40552, Start Num: 3
Candidate Starts for Huphlepuff_73:
(Start: 3 @40271 has 20 MA's), (9, 40397), (11, 40424), (12, 40430), (14, 40439), (16, 40451), (17, 40475), (21, 40532), (22, 40541),

Gene: JoieB_72 Start: 40704, Stop: 40985, Start Num: 3
Candidate Starts for JoieB_72:
(Start: 3 @40704 has 20 MA's), (9, 40830), (11, 40857), (12, 40863), (14, 40872), (16, 40884), (17, 40908), (21, 40965), (22, 40974),

Gene: JuicyJay_116 Start: 68928, Stop: 69182, Start Num: 5
Candidate Starts for JuicyJay_116:
(Start: 5 @68928 has 17 MA's), (8, 69021), (15, 69081), (18, 69114), (20, 69144),

Gene: Lilbit_68 Start: 40434, Stop: 40715, Start Num: 3
Candidate Starts for Lilbit_68:
(Start: 3 @40434 has 20 MA's), (9, 40560), (11, 40587), (12, 40593), (14, 40602), (16, 40614), (17, 40638), (21, 40695), (22, 40704),

Gene: LittleLaf_70 Start: 40163, Stop: 40444, Start Num: 3
Candidate Starts for LittleLaf_70:
(Start: 3 @40163 has 20 MA's), (9, 40289), (11, 40316), (12, 40322), (14, 40331), (16, 40343), (17, 40367), (21, 40424), (22, 40433),

Gene: Marvin_66 Start: 39924, Stop: 40205, Start Num: 3
Candidate Starts for Marvin_66:
(Start: 3 @39924 has 20 MA's), (9, 40050), (11, 40077), (12, 40083), (14, 40092), (16, 40104), (17, 40128), (21, 40185), (22, 40194),

Gene: Minerva_117 Start: 66215, Stop: 66469, Start Num: 5
Candidate Starts for Minerva_117:
(2, 66170), (Start: 5 @66215 has 17 MA's), (8, 66308), (15, 66368), (18, 66401), (20, 66431),

Gene: MosMoris_67 Start: 39854, Stop: 40135, Start Num: 3
Candidate Starts for MosMoris_67:
(Start: 3 @39854 has 20 MA's), (9, 39980), (11, 40007), (12, 40013), (14, 40022), (16, 40034), (17, 40058), (21, 40115), (22, 40124),

Gene: Nebkiss_81 Start: 48173, Stop: 48427, Start Num: 5
Candidate Starts for Nebkiss_81:

(4, 48164), (Start: 5 @48173 has 17 MA's), (6, 48194), (7, 48197), (8, 48266), (10, 48302), (13, 48317), (15, 48326), (19, 48362), (20, 48389),

Gene: NihilNomen_121 Start: 66880, Stop: 67134, Start Num: 5
Candidate Starts for NihilNomen_121:
(Start: 5 @66880 has 17 MA's), (8, 66973), (15, 67033), (18, 67066), (20, 67096),

Gene: Phoebus_120 Start: 68738, Stop: 68992, Start Num: 5
Candidate Starts for Phoebus_120:
(Start: 5 @68738 has 17 MA's), (8, 68831), (15, 68891), (18, 68924), (20, 68954),

Gene: Poise_71 Start: 39750, Stop: 40031, Start Num: 3
Candidate Starts for Poise_71:
(Start: 3 @39750 has 20 MA's), (9, 39876), (11, 39903), (12, 39909), (14, 39918), (16, 39930), (17, 39954), (21, 40011), (22, 40020),

Gene: Pound_109 Start: 65234, Stop: 65488, Start Num: 5
Candidate Starts for Pound_109:
(2, 65189), (Start: 5 @65234 has 17 MA's), (8, 65327), (15, 65387), (18, 65420), (20, 65450),

Gene: Pringar_69 Start: 40072, Stop: 40353, Start Num: 3
Candidate Starts for Pringar_69:
(Start: 3 @40072 has 20 MA's), (9, 40198), (11, 40225), (12, 40231), (14, 40240), (16, 40252), (17, 40276), (21, 40333), (22, 40342),

Gene: Raela_71 Start: 40307, Stop: 40588, Start Num: 3
Candidate Starts for Raela_71:
(Start: 3 @40307 has 20 MA's), (9, 40433), (11, 40460), (12, 40466), (14, 40475), (16, 40487), (17, 40511), (21, 40568), (22, 40577),

Gene: Rearden_108 Start: 62870, Stop: 63124, Start Num: 5
Candidate Starts for Rearden_108:
(Start: 5 @62870 has 17 MA's), (8, 62963), (15, 63023), (18, 63056),

Gene: RedRaider77_70 Start: 39695, Stop: 39976, Start Num: 3
Candidate Starts for RedRaider77_70:
(Start: 3 @39695 has 20 MA's), (9, 39821), (11, 39848), (12, 39854), (14, 39863), (16, 39875), (17, 39899), (21, 39956), (22, 39965),

Gene: Redno2_113 Start: 64670, Stop: 64924, Start Num: 5
Candidate Starts for Redno2_113:
(Start: 5 @64670 has 17 MA's), (8, 64763), (15, 64823), (18, 64856), (20, 64886),

Gene: Tesla_67 Start: 39544, Stop: 39825, Start Num: 3
Candidate Starts for Tesla_67:
(Start: 3 @39544 has 20 MA's), (9, 39670), (11, 39697), (12, 39703), (14, 39712), (16, 39724), (17, 39748), (21, 39805), (22, 39814),

Gene: Thibault_100 Start: 60845, Stop: 61099, Start Num: 5
Candidate Starts for Thibault_100:
(Start: 5 @60845 has 17 MA's), (8, 60938), (15, 60998), (18, 61031), (20, 61061),

Gene: VasuNzinga_69 Start: 39646, Stop: 39927, Start Num: 3

Candidate Starts for VasuNzinga_69:
(Start: 3 @39646 has 20 MA's), (9, 39772), (11, 39799), (12, 39805), (14, 39814), (16, 39826), (17, 39850), (21, 39907), (22, 39916),

Gene: Xiaokay_108 Start: 63741, Stop: 63995, Start Num: 5
Candidate Starts for Xiaokay_108:
(Start: 5 @63741 has 17 MA's), (8, 63834), (15, 63894), (18, 63927), (20, 63957),