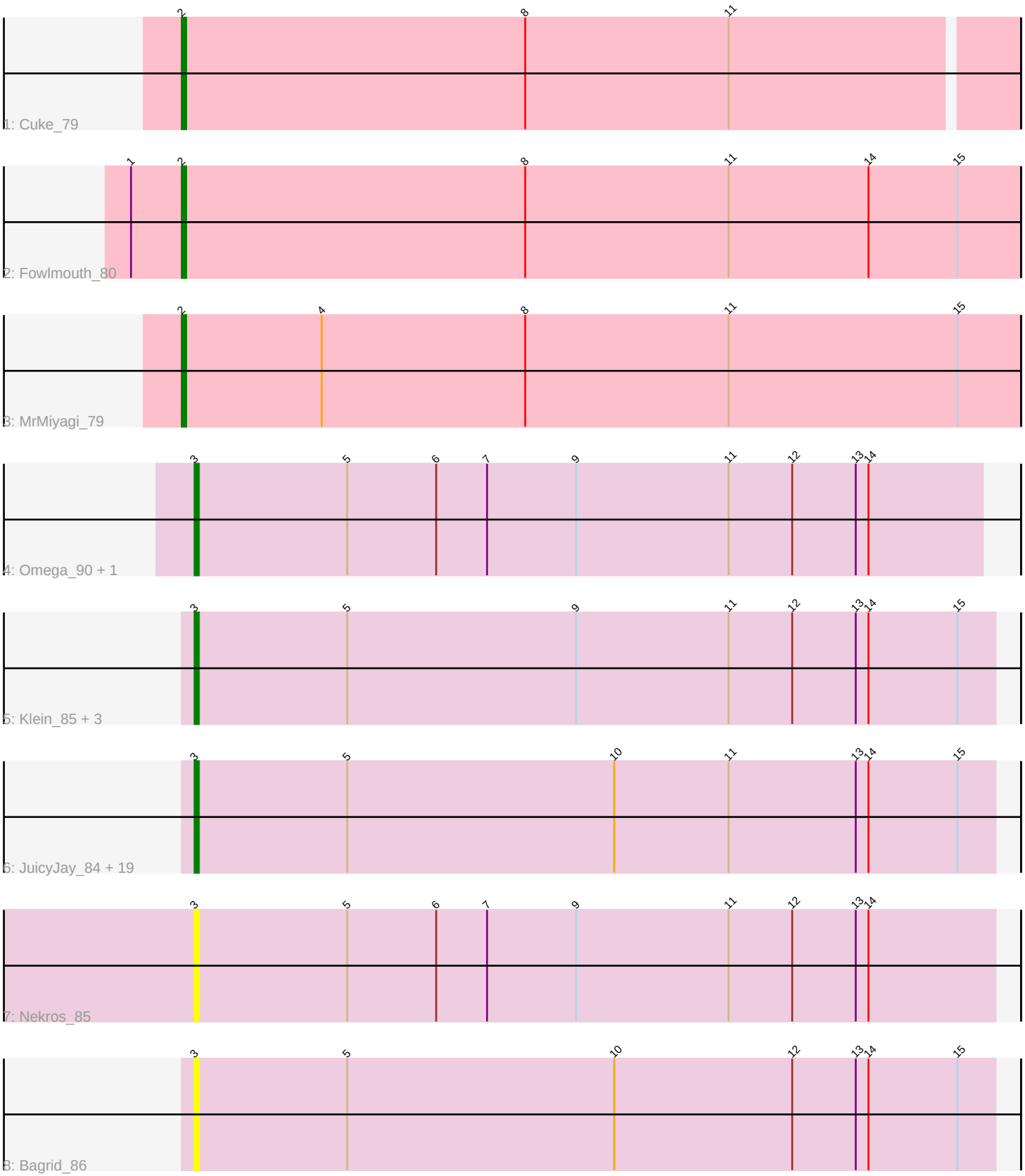
# Pham 347898


2
8
11
1: Cuke_79
1
2
8
11
14
15
2: Fowlmouth_80
2
4
8
11
15
3: MrMiyagi_79
3
5
6
7
9
11
12
13
14
4: Omega_90 + 1
3
5
9
11
12
13
14
15
5: Klein_85 + 3
3
5
10
11
13
14
15
6: JuicyJay_84 + 19
3
5
6
7
9
11
12
13
14
7: Nekros_85
3
5
10
12
13
14
15
8: Bagrid_86

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 347898 Report

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

Pham number 347898 has 31 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Cuke_79
• Track 2 : Fowlmouth_80
• Track 3 : MrMiyagi_79
• Track 4 : Omega_90, LittleE_85
• Track 5 : Klein_85, Redno2_81, Wanda_89, Ejimix_85
• Track 6 : JuicyJay_84, HokkenD_76, Beem_86, NihilNomen_87, Yeet_79, Dallas_85, Zelink_84, Thibault_72, Xiaokay_76, Odette_85, Hughesyang_86, Bombitas_75, Phoebus_88, Dove_71, Kalah2_80, Constella_72, Schatzie_81, DmpstrDiver_86, ThreeRngTarjay_83, Halley_87
• Track 7 : Nekros_85
• Track 8 : Bagrid_86

***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 24 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bagrid_86, Beem_86, Bombitas_75, Constella_72, Dallas_85, DmpstrDiver_86, Dove_71, Ejimix_85, Halley_87, HokkenD_76, Hughesyang_86, JuicyJay_84, Kalah2_80, Klein_85, LittleE_85, Nekros_85, NihilNomen_87, Odette_85, Omega_90, Phoebus_88, Redno2_81, Schatzie_81, Thibault_72, ThreeRngTarjay_83, Wanda_89, Xiaokay_76, Yeet_79, Zelink_84,

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

Genes that do not have the "Most Annotated" start:
• Cuke_79, Fowlmouth_80, MrMiyagi_79,

**Summary by start number:**

Start 2:
• Found in 3 of 31 ( 9.7% ) of genes in pham

• Manual Annotations of this start: 3 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cuke_79 (AC), Fowlmouth_80 (AC), MrMiyagi_79 (AC),

Start 3:
• Found in 28 of 31 ( 90.3% ) of genes in pham
• Manual Annotations of this start: 24 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bagrid_86 (J), Beem_86 (J), Bombitas_75 (J), Constella_72 (J), Dallas_85 (J), DmpstrDiver_86 (J), Dove_71 (J), Ejimix_85 (J), Halley_87 (J), HokkenD_76 (J), Hughesyang_86 (J), JuicyJay_84 (J), Kalah2_80 (J), Klein_85 (J), LittleE_85 (J), Nekros_85 (J), NihilNomen_87 (J), Odette_85 (J), Omega_90 (J), Phoebus_88 (J), Redno2_81 (J), Schatzie_81 (J), Thibault_72 (J), ThreeRngTarjay_83 (J), Wanda_89 (J), Xiaokay_76 (J), Yeet_79 (J), Zelink_84 (J),

**Summary by clusters:**

There are 2 clusters represented in this pham: AC, J,

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

Info for manual annotations of cluster J:
•Start number 3 was manually annotated 24 times for cluster J.

***Gene Information:***

Gene: Bagrid_86 Start: 54949, Stop: 55137, Start Num: 3
Candidate Starts for Bagrid_86:
(Start: 3 @54949 has 24 MA's), (5, 54985), (10, 55048), (12, 55090), (13, 55105), (14, 55108), (15, 55129),

Gene: Beem_86 Start: 55810, Stop: 55998, Start Num: 3
Candidate Starts for Beem_86:
(Start: 3 @55810 has 24 MA's), (5, 55846), (10, 55909), (11, 55936), (13, 55966), (14, 55969), (15, 55990),

Gene: Bombitas_75 Start: 52973, Stop: 53161, Start Num: 3
Candidate Starts for Bombitas_75:
(Start: 3 @52973 has 24 MA's), (5, 53009), (10, 53072), (11, 53099), (13, 53129), (14, 53132), (15, 53153),

Gene: Constella_72 Start: 49947, Stop: 50135, Start Num: 3
Candidate Starts for Constella_72:
(Start: 3 @49947 has 24 MA's), (5, 49983), (10, 50046), (11, 50073), (13, 50103), (14, 50106), (15, 50127),

Gene: Cuke_79 Start: 47908, Stop: 48102, Start Num: 2
Candidate Starts for Cuke_79:

(Start: 2 @47908 has 3 MA's), (8, 47989), (11, 48037),

Gene: Dallas_85 Start: 54731, Stop: 54919, Start Num: 3
Candidate Starts for Dallas_85:
(Start: 3 @54731 has 24 MA's), (5, 54767), (10, 54830), (11, 54857), (13, 54887), (14, 54890), (15, 54911),

Gene: DmpstrDiver_86 Start: 55145, Stop: 55333, Start Num: 3
Candidate Starts for DmpstrDiver_86:
(Start: 3 @55145 has 24 MA's), (5, 55181), (10, 55244), (11, 55271), (13, 55301), (14, 55304), (15, 55325),

Gene: Dove_71 Start: 51239, Stop: 51427, Start Num: 3
Candidate Starts for Dove_71:
(Start: 3 @51239 has 24 MA's), (5, 51275), (10, 51338), (11, 51365), (13, 51395), (14, 51398), (15, 51419),

Gene: Ejimix_85 Start: 56605, Stop: 56793, Start Num: 3
Candidate Starts for Ejimix_85:
(Start: 3 @56605 has 24 MA's), (5, 56641), (9, 56695), (11, 56731), (12, 56746), (13, 56761), (14, 56764), (15, 56785),

Gene: Fowlmouth_80 Start: 50481, Stop: 50678, Start Num: 2
Candidate Starts for Fowlmouth_80:
(1, 50469), (Start: 2 @50481 has 3 MA's), (8, 50562), (11, 50610), (14, 50643), (15, 50664),

Gene: Halley_87 Start: 55810, Stop: 55998, Start Num: 3
Candidate Starts for Halley_87:
(Start: 3 @55810 has 24 MA's), (5, 55846), (10, 55909), (11, 55936), (13, 55966), (14, 55969), (15, 55990),

Gene: HokkenD_76 Start: 54079, Stop: 54267, Start Num: 3
Candidate Starts for HokkenD_76:
(Start: 3 @54079 has 24 MA's), (5, 54115), (10, 54178), (11, 54205), (13, 54235), (14, 54238), (15, 54259),

Gene: Hughesyang_86 Start: 55768, Stop: 55956, Start Num: 3
Candidate Starts for Hughesyang_86:
(Start: 3 @55768 has 24 MA's), (5, 55804), (10, 55867), (11, 55894), (13, 55924), (14, 55927), (15, 55948),

Gene: JuicyJay_84 Start: 56944, Stop: 57132, Start Num: 3
Candidate Starts for JuicyJay_84:
(Start: 3 @56944 has 24 MA's), (5, 56980), (10, 57043), (11, 57070), (13, 57100), (14, 57103), (15, 57124),

Gene: Kalah2_80 Start: 55103, Stop: 55291, Start Num: 3
Candidate Starts for Kalah2_80:
(Start: 3 @55103 has 24 MA's), (5, 55139), (10, 55202), (11, 55229), (13, 55259), (14, 55262), (15, 55283),

Gene: Klein_85 Start: 54529, Stop: 54717, Start Num: 3
Candidate Starts for Klein_85:

(Start: 3 @54529 has 24 MA's), (5, 54565), (9, 54619), (11, 54655), (12, 54670), (13, 54685), (14, 54688), (15, 54709),

Gene: LittleE_85 Start: 54353, Stop: 54541, Start Num: 3
Candidate Starts for LittleE_85:
(Start: 3 @54353 has 24 MA's), (5, 54389), (6, 54410), (7, 54422), (9, 54443), (11, 54479), (12, 54494), (13, 54509), (14, 54512),

Gene: MrMiyagi_79 Start: 50880, Stop: 51077, Start Num: 2
Candidate Starts for MrMiyagi_79:
(Start: 2 @50880 has 3 MA's), (4, 50913), (8, 50961), (11, 51009), (15, 51063),

Gene: Nekros_85 Start: 54578, Stop: 54766, Start Num: 3
Candidate Starts for Nekros_85:
(Start: 3 @54578 has 24 MA's), (5, 54614), (6, 54635), (7, 54647), (9, 54668), (11, 54704), (12, 54719), (13, 54734), (14, 54737),

Gene: NihilNomen_87 Start: 55897, Stop: 56085, Start Num: 3
Candidate Starts for NihilNomen_87:
(Start: 3 @55897 has 24 MA's), (5, 55933), (10, 55996), (11, 56023), (13, 56053), (14, 56056), (15, 56077),

Gene: Odette_85 Start: 54939, Stop: 55127, Start Num: 3
Candidate Starts for Odette_85:
(Start: 3 @54939 has 24 MA's), (5, 54975), (10, 55038), (11, 55065), (13, 55095), (14, 55098), (15, 55119),

Gene: Omega_90 Start: 56132, Stop: 56317, Start Num: 3
Candidate Starts for Omega_90:
(Start: 3 @56132 has 24 MA's), (5, 56168), (6, 56189), (7, 56201), (9, 56222), (11, 56258), (12, 56273), (13, 56288), (14, 56291),

Gene: Phoebus_88 Start: 57079, Stop: 57267, Start Num: 3
Candidate Starts for Phoebus_88:
(Start: 3 @57079 has 24 MA's), (5, 57115), (10, 57178), (11, 57205), (13, 57235), (14, 57238), (15, 57259),

Gene: Redno2_81 Start: 52699, Stop: 52887, Start Num: 3
Candidate Starts for Redno2_81:
(Start: 3 @52699 has 24 MA's), (5, 52735), (9, 52789), (11, 52825), (12, 52840), (13, 52855), (14, 52858), (15, 52879),

Gene: Schatzie_81 Start: 54686, Stop: 54874, Start Num: 3
Candidate Starts for Schatzie_81:
(Start: 3 @54686 has 24 MA's), (5, 54722), (10, 54785), (11, 54812), (13, 54842), (14, 54845), (15, 54866),

Gene: Thibault_72 Start: 50892, Stop: 51080, Start Num: 3
Candidate Starts for Thibault_72:
(Start: 3 @50892 has 24 MA's), (5, 50928), (10, 50991), (11, 51018), (13, 51048), (14, 51051), (15, 51072),

Gene: ThreeRngTarjay_83 Start: 55971, Stop: 56159, Start Num: 3

Candidate Starts for ThreeRngTarjay_83:
(Start: 3 @55971 has 24 MA's), (5, 56007), (10, 56070), (11, 56097), (13, 56127), (14, 56130), (15, 56151),

Gene: Wanda_89 Start: 54838, Stop: 55026, Start Num: 3
Candidate Starts for Wanda_89:
(Start: 3 @54838 has 24 MA's), (5, 54874), (9, 54928), (11, 54964), (12, 54979), (13, 54994), (14, 54997), (15, 55018),

Gene: Xiaokay_76 Start: 51808, Stop: 51996, Start Num: 3
Candidate Starts for Xiaokay_76:
(Start: 3 @51808 has 24 MA's), (5, 51844), (10, 51907), (11, 51934), (13, 51964), (14, 51967), (15, 51988),

Gene: Yeet_79 Start: 54188, Stop: 54376, Start Num: 3
Candidate Starts for Yeet_79:
(Start: 3 @54188 has 24 MA's), (5, 54224), (10, 54287), (11, 54314), (13, 54344), (14, 54347), (15, 54368),

Gene: Zelink_84 Start: 56283, Stop: 56471, Start Num: 3
Candidate Starts for Zelink_84:
(Start: 3 @56283 has 24 MA's), (5, 56319), (10, 56382), (11, 56409), (13, 56439), (14, 56442), (15, 56463),