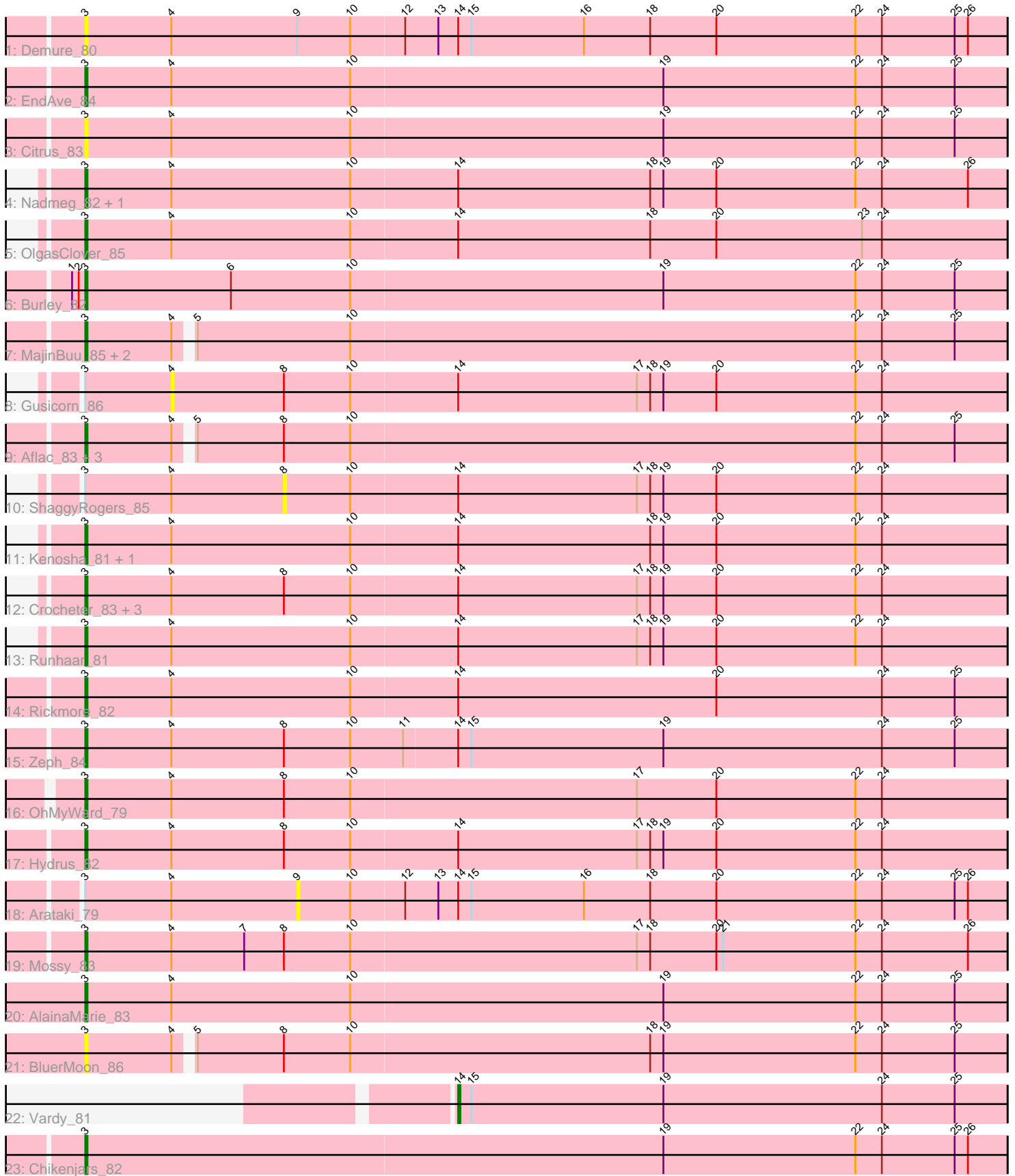


Pham 216398



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 216398 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216398 has 33 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Demure_80
- Track 2 : EndAve_84
- Track 3 : Citrus_83
- Track 4 : Nadmeg_82, Nithya_81
- Track 5 : OlgasClover_85
- Track 6 : Burley_82
- Track 7 : MajinBuu_85, Figliar_81, Jodelie19_81
- Track 8 : Gusicorn_86
- Track 9 : Aflac_83, Eddiemania_83, Duffington_83, TenaciousP_83
- Track 10 : ShaggyRogers_85
- Track 11 : Kenosha_81, Phepper_83
- Track 12 : Crocheter_83, Madvan_82, BetterYeti_85, Untouchable_84
- Track 13 : Runhaar_81
- Track 14 : Rickmore_82
- Track 15 : Zeph_84
- Track 16 : OhMyWard_79
- Track 17 : Hydrus_82
- Track 18 : Arataki_79
- Track 19 : Mossy_83
- Track 20 : AlainaMarie_83
- Track 21 : BluerMoon_86
- Track 22 : Vardy_81
- Track 23 : Chikenjars_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 24 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_83, AlainaMarie_83, BetterYeti_85, BluerMoon_86, Burley_82, Chikenjars_82, Citrus_83, Crocheter_83, Demure_80, Duffington_83, Eddiemania_83, EndAve_84, Figliar_81, Hydrus_82, Jodelie19_81, Kenosha_81, Madvan_82, MajinBuu_85, Mossy_83, Nadmeg_82, Nithya_81, OhMyWard_79, OlgasClover_85, Phepper_83,

Rickmore_82, Runhaar_81, TenaciousP_83, Untouchable_84, Zeph_84,

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

- Arataki_79, Gusicorn_86, ShaggyRogers_85,

Genes that do not have the "Most Annotated" start:

- Vardy_81,

Summary by start number:

Start 3:

- Found in 32 of 33 (97.0%) of genes in pham
- Manual Annotations of this start: 24 of 25
- Called 90.6% of time when present
- Phage (with cluster) where this start called: Aflac_83 (DJ), AlainaMarie_83 (DJ), BetterYeti_85 (DJ), BluerMoon_86 (DJ), Burley_82 (DJ), Chikenjars_82 (DJ), Citrus_83 (DJ), Crocheter_83 (DJ), Demure_80 (DJ), Duffington_83 (DJ), Eddiemania_83 (DJ), EndAve_84 (DJ), Figliar_81 (DJ), Hydrus_82 (DJ), Jodelie19_81 (DJ), Kenosha_81 (DJ), Madvan_82 (DJ), MajinBuu_85 (DJ), Mossy_83 (DJ), Nadmeg_82 (DJ), Nithya_81 (DJ), OhMyWard_79 (DJ), OlgasClover_85 (DJ), Phepper_83 (DJ), Rickmore_82 (DJ), Runhaar_81 (DJ), TenaciousP_83 (DJ), Untouchable_84 (DJ), Zeph_84 (DJ),

Start 4:

- Found in 30 of 33 (90.9%) of genes in pham
- No Manual Annotations of this start.
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Gusicorn_86 (DJ),

Start 8:

- Found in 15 of 33 (45.5%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: ShaggyRogers_85 (DJ),

Start 9:

- Found in 2 of 33 (6.1%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Arataki_79 (DJ),

Start 14:

- Found in 18 of 33 (54.5%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Vardy_81 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 3 was manually annotated 24 times for cluster DJ.

- Start number 14 was manually annotated 1 time for cluster DJ.

Gene Information:

Gene: Aflac_83 Start: 53564, Stop: 53974, Start Num: 3

Candidate Starts for Aflac_83:

(Start: 3 @53564 has 24 MA's), (4, 53603), (5, 53609), (8, 53648), (10, 53678), (22, 53906), (24, 53918), (25, 53951),

Gene: AlainaMarie_83 Start: 53618, Stop: 54034, Start Num: 3

Candidate Starts for AlainaMarie_83:

(Start: 3 @53618 has 24 MA's), (4, 53657), (10, 53738), (19, 53879), (22, 53966), (24, 53978), (25, 54011),

Gene: Arataki_79 Start: 52731, Stop: 53051, Start Num: 9

Candidate Starts for Arataki_79:

(Start: 3 @52635 has 24 MA's), (4, 52674), (9, 52731), (10, 52755), (12, 52779), (13, 52794), (Start: 14 @52803 has 1 MA's), (15, 52809), (16, 52860), (18, 52890), (20, 52920), (22, 52983), (24, 52995), (25, 53028), (26, 53034),

Gene: BetterYeti_85 Start: 53018, Stop: 53434, Start Num: 3

Candidate Starts for BetterYeti_85:

(Start: 3 @53018 has 24 MA's), (4, 53057), (8, 53108), (10, 53138), (Start: 14 @53186 has 1 MA's), (17, 53267), (18, 53273), (19, 53279), (20, 53303), (22, 53366), (24, 53378),

Gene: BluerMoon_86 Start: 53519, Stop: 53929, Start Num: 3

Candidate Starts for BluerMoon_86:

(Start: 3 @53519 has 24 MA's), (4, 53558), (5, 53564), (8, 53603), (10, 53633), (18, 53768), (19, 53774), (22, 53861), (24, 53873), (25, 53906),

Gene: Burley_82 Start: 52649, Stop: 53065, Start Num: 3

Candidate Starts for Burley_82:

(1, 52643), (2, 52646), (Start: 3 @52649 has 24 MA's), (6, 52715), (10, 52769), (19, 52910), (22, 52997), (24, 53009), (25, 53042),

Gene: Chikenjars_82 Start: 53605, Stop: 54021, Start Num: 3

Candidate Starts for Chikenjars_82:

(Start: 3 @53605 has 24 MA's), (19, 53866), (22, 53953), (24, 53965), (25, 53998), (26, 54004),

Gene: Citrus_83 Start: 53631, Stop: 54047, Start Num: 3

Candidate Starts for Citrus_83:

(Start: 3 @53631 has 24 MA's), (4, 53670), (10, 53751), (19, 53892), (22, 53979), (24, 53991), (25, 54024),

Gene: Crocheter_83 Start: 53112, Stop: 53528, Start Num: 3

Candidate Starts for Crocheter_83:

(Start: 3 @53112 has 24 MA's), (4, 53151), (8, 53202), (10, 53232), (Start: 14 @53280 has 1 MA's), (17, 53361), (18, 53367), (19, 53373), (20, 53397), (22, 53460), (24, 53472),

Gene: Demure_80 Start: 53045, Stop: 53461, Start Num: 3

Candidate Starts for Demure_80:

(Start: 3 @53045 has 24 MA's), (4, 53084), (9, 53141), (10, 53165), (12, 53189), (13, 53204), (Start: 14 @53213 has 1 MA's), (15, 53219), (16, 53270), (18, 53300), (20, 53330), (22, 53393), (24, 53405), (25, 53438), (26, 53444),

Gene: Duffington_83 Start: 53566, Stop: 53976, Start Num: 3

Candidate Starts for Duffington_83:

(Start: 3 @53566 has 24 MA's), (4, 53605), (5, 53611), (8, 53650), (10, 53680), (22, 53908), (24, 53920), (25, 53953),

Gene: Eddiemania_83 Start: 53685, Stop: 54095, Start Num: 3

Candidate Starts for Eddiemania_83:

(Start: 3 @53685 has 24 MA's), (4, 53724), (5, 53730), (8, 53769), (10, 53799), (22, 54027), (24, 54039), (25, 54072),

Gene: EndAve_84 Start: 53553, Stop: 53969, Start Num: 3

Candidate Starts for EndAve_84:

(Start: 3 @53553 has 24 MA's), (4, 53592), (10, 53673), (19, 53814), (22, 53901), (24, 53913), (25, 53946),

Gene: Figliar_81 Start: 53371, Stop: 53781, Start Num: 3

Candidate Starts for Figliar_81:

(Start: 3 @53371 has 24 MA's), (4, 53410), (5, 53416), (10, 53485), (22, 53713), (24, 53725), (25, 53758),

Gene: Gusicorn_86 Start: 53058, Stop: 53435, Start Num: 4

Candidate Starts for Gusicorn_86:

(Start: 3 @53019 has 24 MA's), (4, 53058), (8, 53109), (10, 53139), (Start: 14 @53187 has 1 MA's), (17, 53268), (18, 53274), (19, 53280), (20, 53304), (22, 53367), (24, 53379),

Gene: Hydrus_82 Start: 53381, Stop: 53797, Start Num: 3

Candidate Starts for Hydrus_82:

(Start: 3 @53381 has 24 MA's), (4, 53420), (8, 53471), (10, 53501), (Start: 14 @53549 has 1 MA's), (17, 53630), (18, 53636), (19, 53642), (20, 53666), (22, 53729), (24, 53741),

Gene: Jodelie19_81 Start: 54538, Stop: 54948, Start Num: 3

Candidate Starts for Jodelie19_81:

(Start: 3 @54538 has 24 MA's), (4, 54577), (5, 54583), (10, 54652), (22, 54880), (24, 54892), (25, 54925),

Gene: Kenosha_81 Start: 53250, Stop: 53666, Start Num: 3

Candidate Starts for Kenosha_81:

(Start: 3 @53250 has 24 MA's), (4, 53289), (10, 53370), (Start: 14 @53418 has 1 MA's), (18, 53505), (19, 53511), (20, 53535), (22, 53598), (24, 53610),

Gene: Madvan_82 Start: 52707, Stop: 53123, Start Num: 3

Candidate Starts for Madvan_82:

(Start: 3 @52707 has 24 MA's), (4, 52746), (8, 52797), (10, 52827), (Start: 14 @52875 has 1 MA's), (17, 52956), (18, 52962), (19, 52968), (20, 52992), (22, 53055), (24, 53067),

Gene: MajinBuu_85 Start: 53747, Stop: 54157, Start Num: 3

Candidate Starts for MajinBuu_85:

(Start: 3 @53747 has 24 MA's), (4, 53786), (5, 53792), (10, 53861), (22, 54089), (24, 54101), (25, 54134),

Gene: Mossy_83 Start: 54302, Stop: 54718, Start Num: 3

Candidate Starts for Mossy_83:

(Start: 3 @54302 has 24 MA's), (4, 54341), (7, 54374), (8, 54392), (10, 54422), (17, 54551), (18, 54557), (20, 54587), (21, 54590), (22, 54650), (24, 54662), (26, 54701),

Gene: Nadmeg_82 Start: 53710, Stop: 54126, Start Num: 3

Candidate Starts for Nadmeg_82:

(Start: 3 @53710 has 24 MA's), (4, 53749), (10, 53830), (Start: 14 @53878 has 1 MA's), (18, 53965), (19, 53971), (20, 53995), (22, 54058), (24, 54070), (26, 54109),

Gene: Nithya_81 Start: 53103, Stop: 53519, Start Num: 3

Candidate Starts for Nithya_81:

(Start: 3 @53103 has 24 MA's), (4, 53142), (10, 53223), (Start: 14 @53271 has 1 MA's), (18, 53358), (19, 53364), (20, 53388), (22, 53451), (24, 53463), (26, 53502),

Gene: OhMyWard_79 Start: 54058, Stop: 54474, Start Num: 3

Candidate Starts for OhMyWard_79:

(Start: 3 @54058 has 24 MA's), (4, 54097), (8, 54148), (10, 54178), (17, 54307), (20, 54343), (22, 54406), (24, 54418),

Gene: OlgasClover_85 Start: 54446, Stop: 54862, Start Num: 3

Candidate Starts for OlgasClover_85:

(Start: 3 @54446 has 24 MA's), (4, 54485), (10, 54566), (Start: 14 @54614 has 1 MA's), (18, 54701), (20, 54731), (23, 54797), (24, 54806),

Gene: Phepper_83 Start: 52949, Stop: 53365, Start Num: 3

Candidate Starts for Phepper_83:

(Start: 3 @52949 has 24 MA's), (4, 52988), (10, 53069), (Start: 14 @53117 has 1 MA's), (18, 53204), (19, 53210), (20, 53234), (22, 53297), (24, 53309),

Gene: Rickmore_82 Start: 52469, Stop: 52885, Start Num: 3

Candidate Starts for Rickmore_82:

(Start: 3 @52469 has 24 MA's), (4, 52508), (10, 52589), (Start: 14 @52637 has 1 MA's), (20, 52754), (24, 52829), (25, 52862),

Gene: Runhaar_81 Start: 52758, Stop: 53174, Start Num: 3

Candidate Starts for Runhaar_81:

(Start: 3 @52758 has 24 MA's), (4, 52797), (10, 52878), (Start: 14 @52926 has 1 MA's), (17, 53007), (18, 53013), (19, 53019), (20, 53043), (22, 53106), (24, 53118),

Gene: ShaggyRogers_85 Start: 52851, Stop: 53177, Start Num: 8

Candidate Starts for ShaggyRogers_85:

(Start: 3 @52761 has 24 MA's), (4, 52800), (8, 52851), (10, 52881), (Start: 14 @52929 has 1 MA's), (17, 53010), (18, 53016), (19, 53022), (20, 53046), (22, 53109), (24, 53121),

Gene: TenaciousP_83 Start: 54500, Stop: 54910, Start Num: 3

Candidate Starts for TenaciousP_83:

(Start: 3 @54500 has 24 MA's), (4, 54539), (5, 54545), (8, 54584), (10, 54614), (22, 54842), (24, 54854), (25, 54887),

Gene: Untouchable_84 Start: 53946, Stop: 54362, Start Num: 3

Candidate Starts for Untouchable_84:

(Start: 3 @53946 has 24 MA's), (4, 53985), (8, 54036), (10, 54066), (Start: 14 @54114 has 1 MA's), (17, 54195), (18, 54201), (19, 54207), (20, 54231), (22, 54294), (24, 54306),

Gene: Vardy_81 Start: 52636, Stop: 52884, Start Num: 14

Candidate Starts for Vardy_81:

(Start: 14 @52636 has 1 MA's), (15, 52642), (19, 52729), (24, 52828), (25, 52861),

Gene: Zeph_84 Start: 53754, Stop: 54170, Start Num: 3

Candidate Starts for Zeph_84:

(Start: 3 @53754 has 24 MA's), (4, 53793), (8, 53844), (10, 53874), (11, 53898), (Start: 14 @53922 has 1 MA's), (15, 53928), (19, 54015), (24, 54114), (25, 54147),