

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 296720 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296720 has 40 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Demure_80, Arataki_81
- Track 2 : Zeph_84
- Track 3 : BetterYeti_82, Crocheter_83, Madvan_82, Untouchable_84, Gusicorn_84, ShaggyRogers_82
- Track 4 : EndAve_84
- Track 5 : Citrus_82
- Track 6 : OlgasClover_85
- Track 7 : Burley_82
- Track 8 : Kenosha_81, Phepper_83
- Track 9 : Chikenjars_82
- Track 10 : Figliar_81, Jodelie19_81, MajinBuu_83
- Track 11 : Dialga_84, ArtetaBall_82, Nadmeg_82, CWormy_81, Nithya_81
- Track 12 : Aflac_83, Eddiemania_83, Duffington_83, TenaciousP_83, Tonaltzin_87
- Track 13 : Aloe25_86, PestoPenguin_87
- Track 14 : Luthien_83
- Track 15 : BluerMoon_82
- Track 16 : AlainaMarie_83
- Track 17 : Runhaar_81
- Track 18 : Glintora_84
- Track 19 : OhMyWard_79
- Track 20 : Hydrus_82
- Track 21 : Mossy_83
- Track 22 : Rickmore_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 31 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_83, AlainaMarie_83, Arataki_81, ArtetaBall_82, BetterYeti_82, BluerMoon_82, Burley_82, CWormy_81, Chikenjars_82, Citrus_82, Crocheter_83, Demure_80, Dialga_84, Duffington_83, Eddiemania_83, EndAve_84, Figliar_81, Glintora_84, Gusicorn_84, Hydrus_82, Jodelie19_81, Kenosha_81, Luthien_83, Madvan_82,

MajinBuu_83, Mossy_83, Nadmeg_82, Nithya_81, OhMyWard_79, OlgasClover_85, Phepper_83, Rickmore_82, Runhaar_81, ShaggyRogers_82, TenaciousP_83, Tonaltzin_87, Untouchable_84, Zeph_84,

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

- Aloe25_86, PestoPenguin_87,

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

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Summary by start number:

Start 3:

- Found in 40 of 40 (100.0%) of genes in pham
- Manual Annotations of this start: 31 of 31
- Called 95.0% of time when present
- Phage (with cluster) where this start called: Aflac_83 (DJ), AlainaMarie_83 (DJ), Arataki_81 (DJ), ArtetaBall_82 (DJ), BetterYeti_82 (DJ), BluerMoon_82 (DJ), Burley_82 (DJ), CWormy_81 (DJ), Chikenjars_82 (DJ), Citrus_82 (DJ), Crocheter_83 (DJ), Demure_80 (DJ), Dialga_84 (DJ), Duffington_83 (DJ), Eddiemania_83 (DJ), EndAve_84 (DJ), Figliar_81 (DJ), Glintora_84 (DJ), Gusicorn_84 (DJ), Hydrus_82 (DJ), Jodelie19_81 (DJ), Kenosha_81 (DJ), Luthien_83 (DJ), Madvan_82 (DJ), MajinBuu_83 (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), ShaggyRogers_82 (DJ), TenaciousP_83 (DJ), Tonaltzin_87 (DJ), Untouchable_84 (DJ), Zeph_84 (DJ),

Start 4:

- Found in 38 of 40 (95.0%) of genes in pham
- No Manual Annotations of this start.
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Aloe25_86 (DJ), PestoPenguin_87 (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 31 times for cluster DJ.

Gene Information:

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

Candidate Starts for Aflac_83:

(Start: 3 @53564 has 31 MA's), (4, 53603), (5, 53609), (8, 53648), (10, 53678), (21, 53906), (23, 53918), (24, 53951),

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

Candidate Starts for AlainaMarie_83:

(Start: 3 @53618 has 31 MA's), (4, 53657), (10, 53738), (18, 53879), (21, 53966), (23, 53978), (24, 54011),

Gene: Aloe25_86 Start: 53058, Stop: 53435, Start Num: 4

Candidate Starts for Aloe25_86:

(Start: 3 @53019 has 31 MA's), (4, 53058), (8, 53109), (10, 53139), (13, 53187), (16, 53268), (17, 53274), (18, 53280), (19, 53304), (21, 53367), (23, 53379),

Gene: Arataki_81 Start: 52635, Stop: 53051, Start Num: 3

Candidate Starts for Arataki_81:

(Start: 3 @52635 has 31 MA's), (4, 52674), (9, 52731), (10, 52755), (11, 52779), (12, 52794), (13, 52803), (14, 52809), (15, 52860), (17, 52890), (19, 52920), (21, 52983), (23, 52995), (24, 53028), (25, 53034),

Gene: ArtetaBall_82 Start: 53195, Stop: 53611, Start Num: 3

Candidate Starts for ArtetaBall_82:

(Start: 3 @53195 has 31 MA's), (4, 53234), (10, 53315), (13, 53363), (17, 53450), (18, 53456), (19, 53480), (21, 53543), (23, 53555), (25, 53594),

Gene: BetterYeti_82 Start: 53018, Stop: 53434, Start Num: 3

Candidate Starts for BetterYeti_82:

(Start: 3 @53018 has 31 MA's), (4, 53057), (8, 53108), (10, 53138), (13, 53186), (16, 53267), (17, 53273), (18, 53279), (19, 53303), (21, 53366), (23, 53378),

Gene: BluerMoon_82 Start: 53519, Stop: 53929, Start Num: 3

Candidate Starts for BluerMoon_82:

(Start: 3 @53519 has 31 MA's), (4, 53558), (5, 53564), (8, 53603), (10, 53633), (17, 53768), (18, 53774), (21, 53861), (23, 53873), (24, 53906),

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

Candidate Starts for Burley_82:

(1, 52643), (2, 52646), (Start: 3 @52649 has 31 MA's), (6, 52715), (10, 52769), (18, 52910), (21, 52997), (23, 53009), (24, 53042),

Gene: CWormy_81 Start: 52622, Stop: 53038, Start Num: 3

Candidate Starts for CWormy_81:

(Start: 3 @52622 has 31 MA's), (4, 52661), (10, 52742), (13, 52790), (17, 52877), (18, 52883), (19, 52907), (21, 52970), (23, 52982), (25, 53021),

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

Candidate Starts for Chikenjars_82:

(Start: 3 @53605 has 31 MA's), (18, 53866), (21, 53953), (23, 53965), (24, 53998), (25, 54004),

Gene: Citrus_82 Start: 53631, Stop: 54047, Start Num: 3

Candidate Starts for Citrus_82:

(Start: 3 @53631 has 31 MA's), (4, 53670), (10, 53751), (18, 53892), (21, 53979), (23, 53991), (24, 54024),

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

Candidate Starts for Crocheter_83:

(Start: 3 @53112 has 31 MA's), (4, 53151), (8, 53202), (10, 53232), (13, 53280), (16, 53361), (17, 53367), (18, 53373), (19, 53397), (21, 53460), (23, 53472),

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

Candidate Starts for Demure_80:

(Start: 3 @53045 has 31 MA's), (4, 53084), (9, 53141), (10, 53165), (11, 53189), (12, 53204), (13, 53213), (14, 53219), (15, 53270), (17, 53300), (19, 53330), (21, 53393), (23, 53405), (24, 53438), (25, 53444),

Gene: Dialga_84 Start: 53214, Stop: 53630, Start Num: 3

Candidate Starts for Dialga_84:

(Start: 3 @53214 has 31 MA's), (4, 53253), (10, 53334), (13, 53382), (17, 53469), (18, 53475), (19, 53499), (21, 53562), (23, 53574), (25, 53613),

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

Candidate Starts for Duffington_83:

(Start: 3 @53566 has 31 MA's), (4, 53605), (5, 53611), (8, 53650), (10, 53680), (21, 53908), (23, 53920), (24, 53953),

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

Candidate Starts for Eddiemania_83:

(Start: 3 @53685 has 31 MA's), (4, 53724), (5, 53730), (8, 53769), (10, 53799), (21, 54027), (23, 54039), (24, 54072),

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

Candidate Starts for EndAve_84:

(Start: 3 @53553 has 31 MA's), (4, 53592), (10, 53673), (18, 53814), (21, 53901), (23, 53913), (24, 53946),

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

Candidate Starts for Figliar_81:

(Start: 3 @53371 has 31 MA's), (4, 53410), (5, 53416), (10, 53485), (21, 53713), (23, 53725), (24, 53758),

Gene: Glintora_84 Start: 53741, Stop: 54157, Start Num: 3

Candidate Starts for Glintora_84:

(1, 53735), (Start: 3 @53741 has 31 MA's), (4, 53780), (10, 53861), (21, 54089), (23, 54101), (24, 54134),

Gene: Gusicorn_84 Start: 53019, Stop: 53435, Start Num: 3

Candidate Starts for Gusicorn_84:

(Start: 3 @53019 has 31 MA's), (4, 53058), (8, 53109), (10, 53139), (13, 53187), (16, 53268), (17, 53274), (18, 53280), (19, 53304), (21, 53367), (23, 53379),

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

Candidate Starts for Hydrus_82:

(Start: 3 @53381 has 31 MA's), (4, 53420), (8, 53471), (10, 53501), (13, 53549), (16, 53630), (17, 53636), (18, 53642), (19, 53666), (21, 53729), (23, 53741),

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

Candidate Starts for Jodelie19_81:

(Start: 3 @54538 has 31 MA's), (4, 54577), (5, 54583), (10, 54652), (21, 54880), (23, 54892), (24, 54925),

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

Candidate Starts for Kenosha_81:

(Start: 3 @53250 has 31 MA's), (4, 53289), (10, 53370), (13, 53418), (17, 53505), (18, 53511), (19, 53535), (21, 53598), (23, 53610),

Gene: Luthien_83 Start: 53557, Stop: 53973, Start Num: 3
Candidate Starts for Luthien_83:
(Start: 3 @53557 has 31 MA's), (4, 53596), (10, 53677), (18, 53818), (21, 53905), (23, 53917), (24, 53950),

Gene: Madvan_82 Start: 52707, Stop: 53123, Start Num: 3
Candidate Starts for Madvan_82:
(Start: 3 @52707 has 31 MA's), (4, 52746), (8, 52797), (10, 52827), (13, 52875), (16, 52956), (17, 52962), (18, 52968), (19, 52992), (21, 53055), (23, 53067),

Gene: MajinBuu_83 Start: 53747, Stop: 54157, Start Num: 3
Candidate Starts for MajinBuu_83:
(Start: 3 @53747 has 31 MA's), (4, 53786), (5, 53792), (10, 53861), (21, 54089), (23, 54101), (24, 54134),

Gene: Mossy_83 Start: 54302, Stop: 54718, Start Num: 3
Candidate Starts for Mossy_83:
(Start: 3 @54302 has 31 MA's), (4, 54341), (7, 54374), (8, 54392), (10, 54422), (16, 54551), (17, 54557), (19, 54587), (20, 54590), (21, 54650), (23, 54662), (25, 54701),

Gene: Nadmeg_82 Start: 53710, Stop: 54126, Start Num: 3
Candidate Starts for Nadmeg_82:
(Start: 3 @53710 has 31 MA's), (4, 53749), (10, 53830), (13, 53878), (17, 53965), (18, 53971), (19, 53995), (21, 54058), (23, 54070), (25, 54109),

Gene: Nithya_81 Start: 53103, Stop: 53519, Start Num: 3
Candidate Starts for Nithya_81:
(Start: 3 @53103 has 31 MA's), (4, 53142), (10, 53223), (13, 53271), (17, 53358), (18, 53364), (19, 53388), (21, 53451), (23, 53463), (25, 53502),

Gene: OhMyWard_79 Start: 54058, Stop: 54474, Start Num: 3
Candidate Starts for OhMyWard_79:
(Start: 3 @54058 has 31 MA's), (4, 54097), (8, 54148), (10, 54178), (16, 54307), (19, 54343), (21, 54406), (23, 54418),

Gene: OlgasClover_85 Start: 54446, Stop: 54862, Start Num: 3
Candidate Starts for OlgasClover_85:
(Start: 3 @54446 has 31 MA's), (4, 54485), (10, 54566), (13, 54614), (17, 54701), (19, 54731), (22, 54797), (23, 54806),

Gene: PestoPenguin_87 Start: 53058, Stop: 53435, Start Num: 4
Candidate Starts for PestoPenguin_87:
(Start: 3 @53019 has 31 MA's), (4, 53058), (8, 53109), (10, 53139), (13, 53187), (16, 53268), (17, 53274), (18, 53280), (19, 53304), (21, 53367), (23, 53379),

Gene: Phepper_83 Start: 52949, Stop: 53365, Start Num: 3
Candidate Starts for Phepper_83:
(Start: 3 @52949 has 31 MA's), (4, 52988), (10, 53069), (13, 53117), (17, 53204), (18, 53210), (19, 53234), (21, 53297), (23, 53309),

Gene: Rickmore_82 Start: 52469, Stop: 52885, Start Num: 3
Candidate Starts for Rickmore_82:

(Start: 3 @52469 has 31 MA's), (4, 52508), (10, 52589), (13, 52637), (19, 52754), (23, 52829), (24, 52862),

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

Candidate Starts for Runhaar_81:

(Start: 3 @52758 has 31 MA's), (4, 52797), (10, 52878), (13, 52926), (16, 53007), (17, 53013), (18, 53019), (19, 53043), (21, 53106), (23, 53118),

Gene: ShaggyRogers_82 Start: 52761, Stop: 53177, Start Num: 3

Candidate Starts for ShaggyRogers_82:

(Start: 3 @52761 has 31 MA's), (4, 52800), (8, 52851), (10, 52881), (13, 52929), (16, 53010), (17, 53016), (18, 53022), (19, 53046), (21, 53109), (23, 53121),

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

Candidate Starts for TenaciousP_83:

(Start: 3 @54500 has 31 MA's), (4, 54539), (5, 54545), (8, 54584), (10, 54614), (21, 54842), (23, 54854), (24, 54887),

Gene: Tonaltzin_87 Start: 53332, Stop: 53742, Start Num: 3

Candidate Starts for Tonaltzin_87:

(Start: 3 @53332 has 31 MA's), (4, 53371), (5, 53377), (8, 53416), (10, 53446), (21, 53674), (23, 53686), (24, 53719),

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

Candidate Starts for Untouchable_84:

(Start: 3 @53946 has 31 MA's), (4, 53985), (8, 54036), (10, 54066), (13, 54114), (16, 54195), (17, 54201), (18, 54207), (19, 54231), (21, 54294), (23, 54306),

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

Candidate Starts for Zeph_84:

(Start: 3 @53754 has 31 MA's), (4, 53793), (8, 53844), (10, 53874), (11, 53898), (13, 53922), (14, 53928), (18, 54015), (23, 54114), (24, 54147),