

Pham 161958



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 161958 Report

This analysis was run 04/28/24 on database version 559.

Pham number 161958 has 48 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Mossy_78
- Track 2 : Odesza_76
- Track 3 : Hortihabitatio_80
- Track 4 : Eddiemania_76
- Track 5 : Crocheter_78
- Track 6 : Figliar_76, Jodelie19_76
- Track 7 : Magel_78
- Track 8 : OlgasClover_80
- Track 9 : FortCran_84, Kerry_76, Capybara_78, Gravy_76, Artorias_79
- Track 10 : Vardy_76, Zeph_81
- Track 11 : Runhaar_76, Phepper_78, Untouchable_79
- Track 12 : Hydrus_77
- Track 13 : Rickmore_75
- Track 14 : Rickmore_76
- Track 15 : Roney_76, Tanis_77, Gill_77
- Track 16 : Chickenjars_77
- Track 17 : Duffington_78
- Track 18 : Pherobrine_78
- Track 19 : Perkunas_80
- Track 20 : Nithya_76
- Track 21 : BluerMoon_81
- Track 22 : Burley_77
- Track 23 : Captrips_79, Avazak_80
- Track 24 : EndAve_79
- Track 25 : OlgasClover_78
- Track 26 : Conley_76
- Track 27 : AlainaMarie_76
- Track 28 : AlainaMarie_78
- Track 29 : OhMyWard_74
- Track 30 : Aflac_76
- Track 31 : Nadmeg_77
- Track 32 : Kenosha_76
- Track 33 : TenaciousP_83
- Track 34 : Aflac_78
- Track 35 : Fazel_85
- Track 36 : BluerMoon_79
- Track 37 : Petite_78

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

The start number called the most often in the published annotations is 10, it was called in 22 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_78, AlainaMarie_78, BluerMoon_81, Burley_77, Chikenjars_77, Crocheter_78, Duffington_78, Eddiemania_76, EndAve_79, Fazel_85, Figliar_76, Hortihabitatio_80, Hydrus_77, Jodelie19_76, Kenosha_76, Mossy_78, Nadmeg_77, Nithya_76, OhMyWard_74, OlgasClover_80, Phepper_78, Pherobrine_78, Rickmore_76, Runhaar_76, Untouchable_79, Vardy_76, Zeph_81,

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

- TenaciousP_83,

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

- Aflac_76, AlainaMarie_76, Artorias_79, Avazak_80, BluerMoon_79, Captrips_79, Capybara_78, Conley_76, FortCran_84, Gill_77, Gravy_76, Kerry_76, Magel_78, Odesza_76, OlgasClover_78, Perkunas_80, Petite_78, Rickmore_75, Roney_76, Tanis_77,

Summary by start number:

Start 9:

- Found in 2 of 48 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 50.0% of time when present
- Phage (with cluster) where this start called: OlgasClover_78 (DJ),

Start 10:

- Found in 28 of 48 (58.3%) of genes in pham
- Manual Annotations of this start: 22 of 36
- Called 96.4% of time when present
- Phage (with cluster) where this start called: Aflac_78 (DJ), AlainaMarie_78 (DJ), BluerMoon_81 (DJ), Burley_77 (DJ), Chikenjars_77 (DJ), Crocheter_78 (DJ), Duffington_78 (DJ), Eddiemania_76 (DJ), EndAve_79 (DJ), Fazel_85 (DJ), Figliar_76 (DJ), Hortihabitatio_80 (DJ), Hydrus_77 (DJ), Jodelie19_76 (DJ), Kenosha_76 (DJ), Mossy_78 (DJ), Nadmeg_77 (DJ), Nithya_76 (DJ), OhMyWard_74 (DJ), OlgasClover_80 (DJ), Phepper_78 (DJ), Pherobrine_78 (DJ), Rickmore_76 (DJ), Runhaar_76 (DJ), Untouchable_79 (DJ), Vardy_76 (DJ), Zeph_81 (DJ),

Start 11:

- Found in 15 of 48 (31.2%) of genes in pham
- Manual Annotations of this start: 10 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artorias_79 (DJ), Avazak_80 (DJ), Captrips_79 (DJ), Capybara_78 (DJ), Conley_76 (DJ), FortCran_84 (DJ), Gill_77 (DJ), Gravy_76 (DJ), Kerry_76 (DJ), Magel_78 (DJ), Odesza_76 (DJ), Perkunas_80 (DJ), Petite_78 (DJ), Roney_76 (DJ), Tanis_77 (DJ),

Start 13:

- Found in 5 of 48 (10.4%) of genes in pham
- Manual Annotations of this start: 3 of 36
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Aflac_76 (DJ), AlainaMarie_76 (DJ), BluerMoon_79 (DJ), Rickmore_75 (DJ),

Start 18:

- Found in 22 of 48 (45.8%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: TenaciousP_83 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 9 was manually annotated 1 time for cluster DJ.
- Start number 10 was manually annotated 22 times for cluster DJ.
- Start number 11 was manually annotated 10 times for cluster DJ.
- Start number 13 was manually annotated 3 times for cluster DJ.

Gene Information:

Gene: Aflac_76 Start: 51417, Stop: 51707, Start Num: 13

Candidate Starts for Aflac_76:

(5, 51318), (8, 51339), (Start: 9 @51375 has 1 MA's), (Start: 13 @51417 has 3 MA's), (14, 51423), (16, 51432), (20, 51477), (21, 51489), (23, 51495), (25, 51549), (28, 51567), (41, 51636), (46, 51660), (47, 51672), (49, 51690),

Gene: Aflac_78 Start: 51861, Stop: 52208, Start Num: 10

Candidate Starts for Aflac_78:

(Start: 10 @51861 has 22 MA's), (21, 51966), (22, 51969), (39, 52092), (43, 52113), (52, 52170),

Gene: AlainaMarie_76 Start: 51470, Stop: 51748, Start Num: 13

Candidate Starts for AlainaMarie_76:

(Start: 13 @51470 has 3 MA's), (23, 51536), (27, 51593), (43, 51686), (46, 51701), (50, 51737),

Gene: AlainaMarie_78 Start: 51906, Stop: 52253, Start Num: 10

Candidate Starts for AlainaMarie_78:

(7, 51858), (Start: 10 @51906 has 22 MA's), (15, 51954), (21, 52011), (22, 52014), (32, 52101), (34, 52107), (39, 52137), (40, 52143), (52, 52215),

Gene: Artorias_79 Start: 51103, Stop: 51390, Start Num: 11

Candidate Starts for Artorias_79:

(Start: 11 @51103 has 10 MA's), (12, 51112), (17, 51130), (36, 51289), (39, 51307), (45, 51340), (47, 51355),

Gene: Avazak_80 Start: 51785, Stop: 52072, Start Num: 11

Candidate Starts for Avazak_80:

(Start: 11 @51785 has 10 MA's), (12, 51794), (17, 51812), (36, 51971), (39, 51989), (45, 52022),

Gene: BluerMoon_81 Start: 51813, Stop: 52160, Start Num: 10

Candidate Starts for BluerMoon_81:

(Start: 10 @51813 has 22 MA's), (18, 51894), (21, 51918), (31, 52005), (34, 52014), (35, 52023),

Gene: BluerMoon_79 Start: 51369, Stop: 51659, Start Num: 13

Candidate Starts for BluerMoon_79:

(Start: 13 @51369 has 3 MA's), (14, 51375), (20, 51429), (21, 51441), (23, 51447), (28, 51519), (41, 51588), (46, 51612), (49, 51642),

Gene: Burley_77 Start: 50918, Stop: 51265, Start Num: 10

Candidate Starts for Burley_77:

(Start: 10 @50918 has 22 MA's), (18, 50999), (22, 51026), (31, 51110),

Gene: Captrips_79 Start: 50933, Stop: 51220, Start Num: 11

Candidate Starts for Captrips_79:

(Start: 11 @50933 has 10 MA's), (12, 50942), (17, 50960), (36, 51119), (39, 51137), (45, 51170),

Gene: Capybara_78 Start: 50770, Stop: 51057, Start Num: 11

Candidate Starts for Capybara_78:

(Start: 11 @50770 has 10 MA's), (12, 50779), (17, 50797), (36, 50956), (39, 50974), (45, 51007), (47, 51022),

Gene: Chikenjars_77 Start: 51872, Stop: 52219, Start Num: 10

Candidate Starts for Chikenjars_77:

(6, 51815), (Start: 10 @51872 has 22 MA's), (18, 51953), (21, 51977), (31, 52064), (34, 52073), (35, 52082),

Gene: Conley_76 Start: 51234, Stop: 51521, Start Num: 11

Candidate Starts for Conley_76:

(Start: 11 @51234 has 10 MA's), (12, 51243), (17, 51261), (36, 51420), (39, 51438),

Gene: Crocheter_78 Start: 51379, Stop: 51726, Start Num: 10

Candidate Starts for Crocheter_78:

(Start: 10 @51379 has 22 MA's), (18, 51460), (31, 51571), (34, 51580), (35, 51589), (43, 51631),

Gene: Duffington_78 Start: 51842, Stop: 52189, Start Num: 10

Candidate Starts for Duffington_78:

(6, 51785), (Start: 10 @51842 has 22 MA's), (21, 51947), (31, 52034), (34, 52043), (35, 52052),

Gene: Eddiemania_76 Start: 51958, Stop: 52305, Start Num: 10

Candidate Starts for Eddiemania_76:

(3, 51877), (Start: 10 @51958 has 22 MA's), (18, 52039), (22, 52066), (31, 52150), (34, 52159), (35, 52168),

Gene: EndAve_79 Start: 51816, Stop: 52163, Start Num: 10

Candidate Starts for EndAve_79:

(7, 51768), (Start: 10 @51816 has 22 MA's), (18, 51897), (21, 51921), (22, 51924), (35, 52026),

Gene: Fazel_85 Start: 51842, Stop: 52171, Start Num: 10

Candidate Starts for Fazel_85:

(Start: 10 @51842 has 22 MA's), (22, 51950), (26, 52001), (33, 52040), (48, 52124), (50, 52145),

Gene: Figliar_76 Start: 51641, Stop: 51988, Start Num: 10

Candidate Starts for Figliar_76:

(6, 51584), (Start: 10 @51641 has 22 MA's), (18, 51722), (21, 51746), (22, 51749), (31, 51833), (39, 51872), (52, 51950),

Gene: FortCran_84 Start: 51103, Stop: 51390, Start Num: 11

Candidate Starts for FortCran_84:

(Start: 11 @51103 has 10 MA's), (12, 51112), (17, 51130), (36, 51289), (39, 51307), (45, 51340), (47, 51355),

Gene: Gill_77 Start: 50798, Stop: 51109, Start Num: 11

Candidate Starts for Gill_77:

(Start: 11 @50798 has 10 MA's), (12, 50807), (18, 50852), (23, 50882), (30, 50951), (45, 51032), (46, 51035), (49, 51065), (51, 51077),

Gene: Gravy_76 Start: 50460, Stop: 50747, Start Num: 11

Candidate Starts for Gravy_76:

(Start: 11 @50460 has 10 MA's), (12, 50469), (17, 50487), (36, 50646), (39, 50664), (45, 50697), (47, 50712),

Gene: Hortihabitatio_80 Start: 52238, Stop: 52543, Start Num: 10

Candidate Starts for Hortihabitatio_80:

(Start: 10 @52238 has 22 MA's), (17, 52283), (19, 52316), (24, 52352), (29, 52406), (47, 52508),

Gene: Hydrus_77 Start: 51677, Stop: 52024, Start Num: 10

Candidate Starts for Hydrus_77:

(2, 51596), (Start: 10 @51677 has 22 MA's), (21, 51782), (22, 51785), (43, 51929),

Gene: Jodelie19_76 Start: 52808, Stop: 53155, Start Num: 10

Candidate Starts for Jodelie19_76:

(6, 52751), (Start: 10 @52808 has 22 MA's), (18, 52889), (21, 52913), (22, 52916), (31, 53000), (39, 53039), (52, 53117),

Gene: Kenosha_76 Start: 51507, Stop: 51854, Start Num: 10

Candidate Starts for Kenosha_76:

(Start: 10 @51507 has 22 MA's), (18, 51588), (22, 51615), (31, 51699), (34, 51708), (35, 51717), (43, 51759),

Gene: Kerry_76 Start: 50523, Stop: 50810, Start Num: 11

Candidate Starts for Kerry_76:

(Start: 11 @50523 has 10 MA's), (12, 50532), (17, 50550), (36, 50709), (39, 50727), (45, 50760), (47, 50775),

Gene: Magel_78 Start: 50713, Stop: 51024, Start Num: 11

Candidate Starts for Magel_78:

(Start: 11 @50713 has 10 MA's), (12, 50722), (23, 50797), (30, 50866), (45, 50947), (49, 50980),

Gene: Mossy_78 Start: 52559, Stop: 52906, Start Num: 10

Candidate Starts for Mossy_78:

(8, 52520), (Start: 10 @52559 has 22 MA's), (15, 52607), (21, 52664), (22, 52667), (43, 52811),

Gene: Nadmeg_77 Start: 51977, Stop: 52324, Start Num: 10

Candidate Starts for Nadmeg_77:

(Start: 10 @51977 has 22 MA's), (18, 52058), (34, 52178),

Gene: Nithya_76 Start: 51360, Stop: 51707, Start Num: 10

Candidate Starts for Nithya_76:

(Start: 10 @51360 has 22 MA's), (18, 51441), (34, 51561), (35, 51570),

Gene: Odesza_76 Start: 50660, Stop: 50971, Start Num: 11

Candidate Starts for Odesza_76:

(Start: 11 @50660 has 10 MA's), (12, 50669), (18, 50714), (23, 50744), (30, 50813), (45, 50894), (46, 50897), (49, 50927), (51, 50939),

Gene: OhMyWard_74 Start: 52318, Stop: 52665, Start Num: 10

Candidate Starts for OhMyWard_74:

(8, 52279), (Start: 10 @52318 has 22 MA's), (15, 52366), (21, 52423), (22, 52426), (43, 52570), (52, 52627),

Gene: OlgasClover_80 Start: 52722, Stop: 53078, Start Num: 10

Candidate Starts for OlgasClover_80:

(6, 52665), (Start: 10 @52722 has 22 MA's), (21, 52827), (22, 52830), (37, 52941), (39, 52953), (42, 52968),

Gene: OlgasClover_78 Start: 52236, Stop: 52568, Start Num: 9

Candidate Starts for OlgasClover_78:

(8, 52200), (Start: 9 @52236 has 1 MA's), (Start: 13 @52278 has 3 MA's), (14, 52284), (16, 52293), (20, 52338), (21, 52350), (23, 52356), (27, 52413), (38, 52482), (46, 52521), (47, 52533), (49, 52551),

Gene: Perkunas_80 Start: 50720, Stop: 51007, Start Num: 11

Candidate Starts for Perkunas_80:

(4, 50633), (Start: 11 @50720 has 10 MA's), (12, 50729), (17, 50747), (36, 50906), (39, 50924), (44, 50954), (45, 50957), (49, 50990),

Gene: Petite_78 Start: 52186, Stop: 52473, Start Num: 11

Candidate Starts for Petite_78:

(Start: 11 @52186 has 10 MA's), (12, 52195), (18, 52240), (36, 52372), (39, 52390), (45, 52423),

Gene: Phepper_78 Start: 51216, Stop: 51563, Start Num: 10

Candidate Starts for Phepper_78:

(Start: 10 @51216 has 22 MA's), (18, 51297), (22, 51324), (34, 51417), (35, 51426),

Gene: Pherobrine_78 Start: 52256, Stop: 52603, Start Num: 10

Candidate Starts for Pherobrine_78:

(Start: 10 @52256 has 22 MA's), (21, 52361), (22, 52364), (43, 52508),

Gene: Rickmore_75 Start: 50033, Stop: 50323, Start Num: 13

Candidate Starts for Rickmore_75:

(Start: 13 @50033 has 3 MA's), (14, 50039), (20, 50093), (23, 50111), (27, 50168), (41, 50252), (46, 50276), (47, 50288), (49, 50306),

Gene: Rickmore_76 Start: 50323, Stop: 50679, Start Num: 10

Candidate Starts for Rickmore_76:

(1, 50200), (Start: 10 @50323 has 22 MA's), (14, 50365), (21, 50428), (22, 50431), (39, 50554), (42, 50569),

Gene: Roney_76 Start: 50823, Stop: 51134, Start Num: 11

Candidate Starts for Roney_76:

(Start: 11 @50823 has 10 MA's), (12, 50832), (18, 50877), (23, 50907), (30, 50976), (45, 51057), (46, 51060), (49, 51090), (51, 51102),

Gene: Runhaar_76 Start: 51025, Stop: 51372, Start Num: 10

Candidate Starts for Runhaar_76:

(Start: 10 @51025 has 22 MA's), (18, 51106), (22, 51133), (34, 51226), (35, 51235),

Gene: Tanis_77 Start: 50643, Stop: 50954, Start Num: 11

Candidate Starts for Tanis_77:

(Start: 11 @50643 has 10 MA's), (12, 50652), (18, 50697), (23, 50727), (30, 50796), (45, 50877), (46, 50880), (49, 50910), (51, 50922),

Gene: TenaciousP_83 Start: 52851, Stop: 53117, Start Num: 18

Candidate Starts for TenaciousP_83:

(6, 52713), (Start: 10 @52770 has 22 MA's), (18, 52851), (21, 52875), (22, 52878), (31, 52962), (39, 53001), (52, 53079),

Gene: Untouchable_79 Start: 52213, Stop: 52554, Start Num: 10

Candidate Starts for Untouchable_79:

(Start: 10 @52213 has 22 MA's), (18, 52294), (22, 52321), (34, 52414), (35, 52423),

Gene: Vardy_76 Start: 50912, Stop: 51259, Start Num: 10

Candidate Starts for Vardy_76:

(Start: 10 @50912 has 22 MA's), (18, 50993), (22, 51020), (31, 51104), (35, 51122),

Gene: Zeph_81 Start: 52050, Stop: 52397, Start Num: 10

Candidate Starts for Zeph_81:

(Start: 10 @52050 has 22 MA's), (18, 52131), (22, 52158), (31, 52242), (35, 52260),