

Pham 154718



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 154718 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154718 has 64 members, 7 are drafts.

Phages represented in each track:

- Track 1 : AvGardian_67
- Track 2 : Stoor_65, Loviatar_111, DirtyBubble_65, SanaSana_67
- Track 3 : Sharkboy_66, Kieran_63, ChiliPepper_63
- Track 4 : Rona_64, Dismas_65
- Track 5 : Katzastrophic_64, Celaena_63, Bachaco_64, FlameThrower_62
- Track 6 : Arroyo_67, Doobus_65, BelmontSKP_66, DickRichards_65, BubbaBear_66, Johnathan_66, Burritobowl_68, AnnaLie_66, SansAfet_68, QMacho_68, Abigail_66, Albright_66
- Track 7 : Bernstein_67, Clayda5_69, Rollins_67, Armstrong_67, Coltrane_67, Skylord_67, Vitas_67, Brahms_67
- Track 8 : Jovita_66
- Track 9 : Franklin22_70
- Track 10 : Lahqtemish_67
- Track 11 : BAjuniper_64
- Track 12 : TukTuk_68, Finalfrontier_67, Slay_68
- Track 13 : Cashington_66, Phisb_70
- Track 14 : LimaBean_66, CroZenni_67
- Track 15 : Elva_69
- Track 16 : BabyDaisy_69
- Track 17 : Avocadoman_67
- Track 18 : SarBear_68, Swervy_68, Eula_67
- Track 19 : IndyLu_69
- Track 20 : Buldak_67
- Track 21 : BabyYoda_65
- Track 22 : Gack_67
- Track 23 : Eden_68
- Track 24 : Albedo_68
- Track 25 : Nicky22_67
- Track 26 : Quenya_67
- Track 27 : Didgeridoo_73
- Track 28 : Stromboli_65
- Track 29 : Kenzers_67
- Track 30 : Lynlen_68
- Track 31 : Icarian_70

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

The start number called the most often in the published annotations is 6, it was called in 36 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Armstrong_67, AvGardian_67, BAjuniper_64, BabyYoda_65, Bachaco_64, Bernstein_67, Brahms_67, Celaena_63, ChiliPepper_63, Clayda5_69, Coltrane_67, DirtyBubble_65, Dismas_65, Eden_68, Eula_67, Finalfrontier_67, FlameThrower_62, Franklin22_70, Gack_67, Icarian_70, Jovita_66, Katzastrophic_64, Kenzers_67, Kieran_63, Loviatar_111, Lynlen_68, Nicky22_67, Quenya_67, Rollins_67, Rona_64, SanaSana_67, SarBear_68, Sharkboy_66, Skylord_67, Slay_68, Stoor_65, Stromboli_65, Swervy_68, TukTuk_68, Vitas_67,

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

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

- Abigail_66, Albedo_68, Albright_66, AnnaLie_66, Arroyo_67, Avocadoman_67, BabyDaisy_69, BelmontSKP_66, BubbaBear_66, Buldak_67, Burritobowl_68, Cashington_66, CroZenni_67, DickRichards_65, Didgeridoo_73, Doobus_65, Elva_69, IndyLu_69, Johnathan_66, Lahqtemish_67, LimaBean_66, Phisb_70, QMacho_68, SansAfet_68,

Summary by start number:

Start 6:

- Found in 40 of 64 (62.5%) of genes in pham
- Manual Annotations of this start: 36 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Armstrong_67 (EB), AvGardian_67 (EB), BAjuniper_64 (EB), BabyYoda_65 (EB), Bachaco_64 (EB), Bernstein_67 (EB), Brahms_67 (EB), Celaena_63 (EB), ChiliPepper_63 (EB), Clayda5_69 (EB), Coltrane_67 (EB), DirtyBubble_65 (EB), Dismas_65 (EB), Eden_68 (EB), Eula_67 (EB), Finalfrontier_67 (EB), FlameThrower_62 (EB), Franklin22_70 (EB), Gack_67 (EB), Icarian_70 (EB), Jovita_66 (EB), Katzastrophic_64 (EB), Kenzers_67 (EB), Kieran_63 (EB), Loviatar_111 (EB), Lynlen_68 (EB), Nicky22_67 (EB), Quenya_67 (EB), Rollins_67 (EB), Rona_64 (EB), SanaSana_67 (EB), SarBear_68 (EB), Sharkboy_66 (EB), Skylord_67 (EB), Slay_68 (EB), Stoor_65 (EB), Stromboli_65 (EB), Swervy_68 (EB), TukTuk_68 (EB), Vitas_67 (EB),

Start 7:

- Found in 1 of 64 (1.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Buldak_67 (EB),

Start 8:

- Found in 22 of 64 (34.4%) of genes in pham
- Manual Annotations of this start: 20 of 57
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Abigail_66 (EB), Albedo_68 (EB), Albright_66 (EB), AnnaLie_66 (EB), Arroyo_67 (EB), BabyDaisy_69 (EB), BelmontSKP_66 (EB), BubbaBear_66 (EB), Burritobowl_68 (EB), Cashington_66 (EB), CroZenni_67 (EB), DickRichards_65 (EB), Didgeridoo_73 (EB), Doobus_65 (EB), Elva_69 (EB), IndyLu_69 (EB), Johnathan_66 (EB), Lahqtemish_67 (EB), LimaBean_66 (EB), Phisb_70 (EB), QMacho_68 (EB), SansAfet_68 (EB),

Start 9:

- Found in 1 of 64 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 57
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avocadoman_67 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 6 was manually annotated 36 times for cluster EB.
- Start number 8 was manually annotated 20 times for cluster EB.
- Start number 9 was manually annotated 1 time for cluster EB.

Gene Information:

Gene: Abigail_66 Start: 39740, Stop: 40090, Start Num: 8

Candidate Starts for Abigail_66:

(Start: 8 @39740 has 20 MA's), (18, 39875), (20, 39908), (35, 40049), (36, 40061),

Gene: Albedo_68 Start: 40661, Stop: 41011, Start Num: 8

Candidate Starts for Albedo_68:

(Start: 8 @40661 has 20 MA's), (18, 40796), (20, 40829), (35, 40970), (36, 40982),

Gene: Albright_66 Start: 39722, Stop: 40072, Start Num: 8

Candidate Starts for Albright_66:

(Start: 8 @39722 has 20 MA's), (18, 39857), (20, 39890), (35, 40031), (36, 40043),

Gene: AnnaLie_66 Start: 40401, Stop: 40751, Start Num: 8

Candidate Starts for AnnaLie_66:

(Start: 8 @40401 has 20 MA's), (18, 40536), (20, 40569), (35, 40710), (36, 40722),

Gene: Armstrong_67 Start: 38820, Stop: 39191, Start Num: 6

Candidate Starts for Armstrong_67:

(Start: 6 @38820 has 36 MA's), (17, 38925), (20, 38988), (28, 39057), (30, 39069), (39, 39168),

Gene: Arroyo_67 Start: 40865, Stop: 41215, Start Num: 8

Candidate Starts for Arroyo_67:

(Start: 8 @40865 has 20 MA's), (18, 41000), (20, 41033), (35, 41174), (36, 41186),

Gene: AvGardian_67 Start: 40487, Stop: 40837, Start Num: 6

Candidate Starts for AvGardian_67:

(Start: 6 @40487 has 36 MA's), (19, 40625), (20, 40655), (29, 40733), (30, 40736), (34, 40784), (35, 40796), (36, 40808), (37, 40820),

Gene: Avocadoman_67 Start: 40039, Stop: 40389, Start Num: 9

Candidate Starts for Avocadoman_67:

(Start: 9 @40039 has 1 MA's), (18, 40174), (20, 40207), (35, 40348), (36, 40360),

Gene: BAjuniper_64 Start: 40548, Stop: 40928, Start Num: 6

Candidate Starts for BAjuniper_64:

(Start: 6 @40548 has 36 MA's), (32, 40818), (35, 40848), (37, 40872), (38, 40875),

Gene: BabyDaisy_69 Start: 41209, Stop: 41559, Start Num: 8

Candidate Starts for BabyDaisy_69:

(Start: 8 @41209 has 20 MA's), (17, 41314), (19, 41347), (20, 41377), (29, 41455), (30, 41458), (35, 41518), (36, 41530),

Gene: BabyYoda_65 Start: 40429, Stop: 40776, Start Num: 6

Candidate Starts for BabyYoda_65:

(1, 39952), (Start: 6 @40429 has 36 MA's), (20, 40594), (22, 40615), (29, 40672), (30, 40675), (34, 40723), (35, 40735), (36, 40747),

Gene: Bachaco_64 Start: 41227, Stop: 41607, Start Num: 6

Candidate Starts for Bachaco_64:

(Start: 6 @41227 has 36 MA's), (11, 41272), (12, 41275), (14, 41305), (16, 41311), (17, 41329), (28, 41455), (37, 41554),

Gene: BelmontSKP_66 Start: 40401, Stop: 40751, Start Num: 8

Candidate Starts for BelmontSKP_66:

(Start: 8 @40401 has 20 MA's), (18, 40536), (20, 40569), (35, 40710), (36, 40722),

Gene: Bernstein_67 Start: 38818, Stop: 39189, Start Num: 6

Candidate Starts for Bernstein_67:

(Start: 6 @38818 has 36 MA's), (17, 38923), (20, 38986), (28, 39055), (30, 39067), (39, 39166),

Gene: Brahms_67 Start: 38720, Stop: 39091, Start Num: 6

Candidate Starts for Brahms_67:

(Start: 6 @38720 has 36 MA's), (17, 38825), (20, 38888), (28, 38957), (30, 38969), (39, 39068),

Gene: BubbaBear_66 Start: 40653, Stop: 41003, Start Num: 8

Candidate Starts for BubbaBear_66:

(Start: 8 @40653 has 20 MA's), (18, 40788), (20, 40821), (35, 40962), (36, 40974),

Gene: Buldak_67 Start: 38230, Stop: 38595, Start Num: 7

Candidate Starts for Buldak_67:

(7, 38230), (10, 38263), (24, 38428), (27, 38458), (28, 38461),

Gene: Burritobowl_68 Start: 40223, Stop: 40573, Start Num: 8

Candidate Starts for Burritobowl_68:

(Start: 8 @40223 has 20 MA's), (18, 40358), (20, 40391), (35, 40532), (36, 40544),

Gene: Cashington_66 Start: 39964, Stop: 40314, Start Num: 8

Candidate Starts for Cashington_66:

(Start: 8 @39964 has 20 MA's), (18, 40099), (20, 40132), (23, 40156), (35, 40273), (36, 40285),

Gene: Celaena_63 Start: 40990, Stop: 41370, Start Num: 6
Candidate Starts for Celaena_63:
(Start: 6 @40990 has 36 MA's), (11, 41035), (12, 41038), (14, 41068), (16, 41074), (17, 41092), (28, 41218), (37, 41317),

Gene: ChiliPepper_63 Start: 40454, Stop: 40804, Start Num: 6
Candidate Starts for ChiliPepper_63:
(Start: 6 @40454 has 36 MA's), (13, 40517), (31, 40706), (33, 40730),

Gene: Clayda5_69 Start: 38786, Stop: 39157, Start Num: 6
Candidate Starts for Clayda5_69:
(Start: 6 @38786 has 36 MA's), (17, 38891), (20, 38954), (28, 39023), (30, 39035), (39, 39134),

Gene: Coltrane_67 Start: 38720, Stop: 39091, Start Num: 6
Candidate Starts for Coltrane_67:
(Start: 6 @38720 has 36 MA's), (17, 38825), (20, 38888), (28, 38957), (30, 38969), (39, 39068),

Gene: CroZenni_67 Start: 40208, Stop: 40558, Start Num: 8
Candidate Starts for CroZenni_67:
(Start: 8 @40208 has 20 MA's), (18, 40343), (20, 40376), (25, 40418), (35, 40517), (36, 40529),

Gene: DickRichards_65 Start: 40179, Stop: 40529, Start Num: 8
Candidate Starts for DickRichards_65:
(Start: 8 @40179 has 20 MA's), (18, 40314), (20, 40347), (35, 40488), (36, 40500),

Gene: Didgeridoo_73 Start: 41636, Stop: 41986, Start Num: 8
Candidate Starts for Didgeridoo_73:
(Start: 8 @41636 has 20 MA's), (17, 41741), (19, 41774), (20, 41804), (29, 41882), (30, 41885), (35, 41945), (36, 41957),

Gene: DirtyBubble_65 Start: 40468, Stop: 40815, Start Num: 6
Candidate Starts for DirtyBubble_65:
(Start: 6 @40468 has 36 MA's), (20, 40633), (22, 40654), (29, 40711), (30, 40714), (34, 40762), (35, 40774), (36, 40786),

Gene: Dismas_65 Start: 40592, Stop: 40942, Start Num: 6
Candidate Starts for Dismas_65:
(Start: 6 @40592 has 36 MA's), (13, 40655), (31, 40844), (33, 40868),

Gene: Doobus_65 Start: 40034, Stop: 40384, Start Num: 8
Candidate Starts for Doobus_65:
(Start: 8 @40034 has 20 MA's), (18, 40169), (20, 40202), (35, 40343), (36, 40355),

Gene: Eden_68 Start: 39619, Stop: 39996, Start Num: 6
Candidate Starts for Eden_68:
(Start: 6 @39619 has 36 MA's), (15, 39703), (17, 39724), (20, 39787), (30, 39868), (39, 39973),

Gene: Elva_69 Start: 40991, Stop: 41338, Start Num: 8
Candidate Starts for Elva_69:
(Start: 8 @40991 has 20 MA's), (19, 41126), (20, 41156), (30, 41237), (35, 41297), (36, 41309),

Gene: Eula_67 Start: 40261, Stop: 40611, Start Num: 6

Candidate Starts for Eula_67:

(Start: 6 @40261 has 36 MA's), (18, 40396), (20, 40429), (36, 40582),

Gene: Finalfrontier_67 Start: 40928, Stop: 41278, Start Num: 6

Candidate Starts for Finalfrontier_67:

(Start: 6 @40928 has 36 MA's), (18, 41063), (20, 41096), (36, 41249),

Gene: FlameThrower_62 Start: 40026, Stop: 40406, Start Num: 6

Candidate Starts for FlameThrower_62:

(Start: 6 @40026 has 36 MA's), (11, 40071), (12, 40074), (14, 40104), (16, 40110), (17, 40128), (28, 40254), (37, 40353),

Gene: Franklin22_70 Start: 39362, Stop: 39733, Start Num: 6

Candidate Starts for Franklin22_70:

(2, 38942), (4, 39020), (Start: 6 @39362 has 36 MA's), (17, 39467), (20, 39530), (28, 39599), (30, 39611), (39, 39710),

Gene: Gack_67 Start: 39302, Stop: 39679, Start Num: 6

Candidate Starts for Gack_67:

(Start: 6 @39302 has 36 MA's), (10, 39335), (17, 39407), (19, 39440), (30, 39551), (39, 39656),

Gene: Icarian_70 Start: 41170, Stop: 41517, Start Num: 6

Candidate Starts for Icarian_70:

(Start: 6 @41170 has 36 MA's), (20, 41335), (22, 41356), (29, 41413), (30, 41416), (34, 41464), (35, 41476), (36, 41488),

Gene: IndyLu_69 Start: 40940, Stop: 41290, Start Num: 8

Candidate Starts for IndyLu_69:

(Start: 8 @40940 has 20 MA's), (17, 41045), (19, 41078), (20, 41108), (25, 41150), (29, 41186), (30, 41189), (35, 41249), (36, 41261),

Gene: Johnathan_66 Start: 39723, Stop: 40073, Start Num: 8

Candidate Starts for Johnathan_66:

(Start: 8 @39723 has 20 MA's), (18, 39858), (20, 39891), (35, 40032), (36, 40044),

Gene: Jovita_66 Start: 40029, Stop: 40379, Start Num: 6

Candidate Starts for Jovita_66:

(3, 39633), (Start: 6 @40029 has 36 MA's), (18, 40164), (20, 40197), (36, 40350),

Gene: Katzastrophic_64 Start: 40536, Stop: 40916, Start Num: 6

Candidate Starts for Katzastrophic_64:

(Start: 6 @40536 has 36 MA's), (11, 40581), (12, 40584), (14, 40614), (16, 40620), (17, 40638), (28, 40764), (37, 40863),

Gene: Kenzers_67 Start: 40109, Stop: 40459, Start Num: 6

Candidate Starts for Kenzers_67:

(5, 39932), (Start: 6 @40109 has 36 MA's), (18, 40244), (20, 40277), (35, 40418), (36, 40430),

Gene: Kieran_63 Start: 40416, Stop: 40766, Start Num: 6

Candidate Starts for Kieran_63:

(Start: 6 @40416 has 36 MA's), (13, 40479), (31, 40668), (33, 40692),

Gene: Lahqtemish_67 Start: 41142, Stop: 41492, Start Num: 8

Candidate Starts for Lahqtemish_67:

(Start: 8 @41142 has 20 MA's), (17, 41247), (20, 41310), (26, 41370), (29, 41388), (30, 41391), (31, 41400), (35, 41451), (36, 41463),

Gene: LimaBean_66 Start: 39617, Stop: 39967, Start Num: 8

Candidate Starts for LimaBean_66:

(Start: 8 @39617 has 20 MA's), (18, 39752), (20, 39785), (25, 39827), (35, 39926), (36, 39938),

Gene: Loviatar_111 Start: 41536, Stop: 41883, Start Num: 6

Candidate Starts for Loviatar_111:

(Start: 6 @41536 has 36 MA's), (20, 41701), (22, 41722), (29, 41779), (30, 41782), (34, 41830), (35, 41842), (36, 41854),

Gene: Lynlen_68 Start: 40262, Stop: 40612, Start Num: 6

Candidate Starts for Lynlen_68:

(Start: 6 @40262 has 36 MA's), (18, 40397), (20, 40430), (25, 40472), (35, 40571), (36, 40583),

Gene: Nicky22_67 Start: 40704, Stop: 41054, Start Num: 6

Candidate Starts for Nicky22_67:

(Start: 6 @40704 has 36 MA's), (18, 40839), (20, 40872), (35, 41013), (36, 41025),

Gene: Phisb_70 Start: 40292, Stop: 40642, Start Num: 8

Candidate Starts for Phisb_70:

(Start: 8 @40292 has 20 MA's), (18, 40427), (20, 40460), (23, 40484), (35, 40601), (36, 40613),

Gene: QMacho_68 Start: 40423, Stop: 40773, Start Num: 8

Candidate Starts for QMacho_68:

(Start: 8 @40423 has 20 MA's), (18, 40558), (20, 40591), (35, 40732), (36, 40744),

Gene: Quenya_67 Start: 40867, Stop: 41247, Start Num: 6

Candidate Starts for Quenya_67:

(Start: 6 @40867 has 36 MA's), (11, 40912), (12, 40915), (14, 40945), (21, 41035), (28, 41095), (31, 41116), (37, 41194),

Gene: Rollins_67 Start: 38818, Stop: 39189, Start Num: 6

Candidate Starts for Rollins_67:

(Start: 6 @38818 has 36 MA's), (17, 38923), (20, 38986), (28, 39055), (30, 39067), (39, 39166),

Gene: Rona_64 Start: 40583, Stop: 40933, Start Num: 6

Candidate Starts for Rona_64:

(Start: 6 @40583 has 36 MA's), (13, 40646), (31, 40835), (33, 40859),

Gene: SanaSana_67 Start: 40879, Stop: 41226, Start Num: 6

Candidate Starts for SanaSana_67:

(Start: 6 @40879 has 36 MA's), (20, 41044), (22, 41065), (29, 41122), (30, 41125), (34, 41173), (35, 41185), (36, 41197),

Gene: SansAfet_68 Start: 40268, Stop: 40618, Start Num: 8

Candidate Starts for SansAfet_68:

(Start: 8 @40268 has 20 MA's), (18, 40403), (20, 40436), (35, 40577), (36, 40589),

Gene: SarBear_68 Start: 40354, Stop: 40704, Start Num: 6

Candidate Starts for SarBear_68:

(Start: 6 @40354 has 36 MA's), (18, 40489), (20, 40522), (36, 40675),

Gene: Sharkboy_66 Start: 40947, Stop: 41297, Start Num: 6

Candidate Starts for Sharkboy_66:

(Start: 6 @40947 has 36 MA's), (13, 41010), (31, 41199), (33, 41223),

Gene: Skylord_67 Start: 38735, Stop: 39106, Start Num: 6

Candidate Starts for Skylord_67:

(Start: 6 @38735 has 36 MA's), (17, 38840), (20, 38903), (28, 38972), (30, 38984), (39, 39083),

Gene: Slay_68 Start: 40803, Stop: 41153, Start Num: 6

Candidate Starts for Slay_68:

(Start: 6 @40803 has 36 MA's), (18, 40938), (20, 40971), (36, 41124),

Gene: Stoor_65 Start: 40666, Stop: 41013, Start Num: 6

Candidate Starts for Stoor_65:

(Start: 6 @40666 has 36 MA's), (20, 40831), (22, 40852), (29, 40909), (30, 40912), (34, 40960), (35, 40972), (36, 40984),

Gene: Stromboli_65 Start: 40467, Stop: 40814, Start Num: 6

Candidate Starts for Stromboli_65:

(Start: 6 @40467 has 36 MA's), (20, 40632), (22, 40653), (29, 40710), (30, 40713), (34, 40761), (36, 40785),

Gene: Swervy_68 Start: 40391, Stop: 40741, Start Num: 6

Candidate Starts for Swervy_68:

(Start: 6 @40391 has 36 MA's), (18, 40526), (20, 40559), (36, 40712),

Gene: TukTuk_68 Start: 40582, Stop: 40932, Start Num: 6

Candidate Starts for TukTuk_68:

(Start: 6 @40582 has 36 MA's), (18, 40717), (20, 40750), (36, 40903),

Gene: Vitas_67 Start: 38791, Stop: 39162, Start Num: 6

Candidate Starts for Vitas_67:

(Start: 6 @38791 has 36 MA's), (17, 38896), (20, 38959), (28, 39028), (30, 39040), (39, 39139),