

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 196501 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196501 has 72 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Celaena_52, Bachaco_52, Katzastrophic_53
- Track 2 : Elva_56
- Track 3 : Gack_52
- Track 4 : Albedo_55, Kenzers_54, Slay_54, Cashington_52, Lynlen_55, Johnathan_53
- Track 5 : Kate33_54, Didgeridoo_57, BabyDaisy_54, IndyLu_54
- Track 6 : Stromboli_54, BabyYoda_54, WalkingDead_56, DirtyBubble_53, Loviatar_96, Stoor_54
- Track 7 : Nicky22_55
- Track 8 : Swervy_55, Jovita_53, Eula_54, QMacho_56, TukTuk_55, Phisb_54, Finalfrontier_55, SarBear_54
- Track 9 : Franklin22_53, Eden_53
- Track 10 : Abigail_53
- Track 11 : Coltrane_51, Brahms_51, Armstrong_51, Vitas_51, Clayda5_53, Bernstein_51, Skylord_51, Rollins_51
- Track 12 : Quenya_55
- Track 13 : Squiracle_46, Olliecat_46
- Track 14 : CroZenni_54, Arroyo_54
- Track 15 : BubbaBear_53, DickRichards_52, Doobus_52, Avocadoman_52, Albright_51, Burritobowl_54
- Track 16 : Kieran_51, ChiliPepper_51, Sharkboy_52, Dismas_52, Rona_51
- Track 17 : FlameThrower_51
- Track 18 : Icarian_57
- Track 19 : LimaBean_54
- Track 20 : Shayna_53, SunnyD_56, Teagster_55
- Track 21 : SansAfet_55
- Track 22 : BelmontSKP_54, AnnaLie_54
- Track 23 : BAjuniper_52
- Track 24 : Buldak_47
- Track 25 : Lahqtemish_53
- Track 26 : CliffHanger_55
- Track 27 : AvGardian_55
- Track 28 : SanaSana_56

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 60 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_53, Albedo_55, Albright_51, AnnaLie_54, Armstrong_51, Arroyo_54, AvGardian_55, Avocadoman_52, BAjuniper_52, BabyDaisy_54, BabyYoda_54, Bachaco_52, BelmontSKP_54, Bernstein_51, Brahms_51, BubbaBear_53, Burritobowl_54, Cashington_52, Celaena_52, ChiliPepper_51, Clayda5_53, Coltrane_51, CroZenni_54, DickRichards_52, Didgeridoo_57, DirtyBubble_53, Dismas_52, Doobus_52, Eden_53, Elva_56, Eula_54, Finalfrontier_55, FlameThrower_51, Franklin22_53, Gack_52, Icarian_57, IndyLu_54, Johnathan_53, Jovita_53, Kate33_54, Katzastrophic_53, Kenzers_54, Kieran_51, Lahqtemish_53, LimaBean_54, Loviatar_96, Lynlen_55, Nicky22_55, Phisb_54, QMacho_56, Rollins_51, Rona_51, SanaSana_56, SansAfet_55, SarBear_54, Sharkboy_52, Skylord_51, Slay_54, Stoor_54, Stromboli_54, Swervy_55, TukTuk_55, Vitas_51, WalkingDead_56,

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

- Quenya_55,

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

- Buldak_47, CliffHanger_55, Olliecat_46, Shayna_53, Squirrel_46, SunnyD_56, Teagster_55,

Summary by start number:

Start 3:

- Found in 65 of 72 (90.3%) of genes in pham
- Manual Annotations of this start: 60 of 61
- Called 98.5% of time when present
- Phage (with cluster) where this start called: Abigail_53 (EB), Albedo_55 (EB), Albright_51 (EB), AnnaLie_54 (EB), Armstrong_51 (EB), Arroyo_54 (EB), AvGardian_55 (EB), Avocadoman_52 (EB), BAjuniper_52 (EB), BabyDaisy_54 (EB), BabyYoda_54 (EB), Bachaco_52 (EB), BelmontSKP_54 (EB), Bernstein_51 (EB), Brahms_51 (EB), BubbaBear_53 (EB), Burritobowl_54 (EB), Cashington_52 (EB), Celaena_52 (EB), ChiliPepper_51 (EB), Clayda5_53 (EB), Coltrane_51 (EB), CroZenni_54 (EB), DickRichards_52 (EB), Didgeridoo_57 (EB), DirtyBubble_53 (EB), Dismas_52 (EB), Doobus_52 (EB), Eden_53 (EB), Elva_56 (EB), Eula_54 (EB), Finalfrontier_55 (EB), FlameThrower_51 (EB), Franklin22_53 (EB), Gack_52 (EB), Icarian_57 (EB), IndyLu_54 (EB), Johnathan_53 (EB), Jovita_53 (EB), Kate33_54 (EB), Katzastrophic_53 (EB), Kenzers_54 (EB), Kieran_51 (EB), Lahqtemish_53 (EB), LimaBean_54 (EB), Loviatar_96 (EB), Lynlen_55 (EB), Nicky22_55 (EB), Phisb_54 (EB), QMacho_56 (EB), Rollins_51 (EB), Rona_51 (EB), SanaSana_56 (EB), SansAfet_55 (EB), SarBear_54 (EB), Sharkboy_52 (EB), Skylord_51 (EB), Slay_54 (EB), Stoor_54 (EB), Stromboli_54 (EB), Swervy_55 (EB), TukTuk_55 (EB), Vitas_51 (EB), WalkingDead_56 (EB),

Start 4:

- Found in 4 of 72 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present

- Phage (with cluster) where this start called: CliffHanger_55 (EB), Shayna_53 (EB), SunnyD_56 (EB), Teagster_55 (EB),

Start 5:

- Found in 4 of 72 (5.6%) of genes in pham
- No Manual Annotations of this start.
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Buldak_47 (EB), Olliecat_46 (EB), Squiracle_46 (EB),

Start 7:

- Found in 2 of 72 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 61
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Quenya_55 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 3 was manually annotated 60 times for cluster EB.
- Start number 7 was manually annotated 1 time for cluster EB.

Gene Information:

Gene: Abigail_53 Start: 35128, Stop: 35286, Start Num: 3
Candidate Starts for Abigail_53:
(Start: 3 @35128 has 60 MA's), (13, 35230),

Gene: Albedo_55 Start: 35853, Stop: 36011, Start Num: 3
Candidate Starts for Albedo_55:
(Start: 3 @35853 has 60 MA's), (11, 35910), (13, 35955),

Gene: Albright_51 Start: 34559, Stop: 34717, Start Num: 3
Candidate Starts for Albright_51:
(2, 34397), (Start: 3 @34559 has 60 MA's), (11, 34616), (13, 34661),

Gene: AnnaLie_54 Start: 35788, Stop: 35946, Start Num: 3
Candidate Starts for AnnaLie_54:
(1, 35614), (2, 35626), (Start: 3 @35788 has 60 MA's), (13, 35890),

Gene: Armstrong_51 Start: 33629, Stop: 33790, Start Num: 3
Candidate Starts for Armstrong_51:
(Start: 3 @33629 has 60 MA's),

Gene: Arroyo_54 Start: 35896, Stop: 36054, Start Num: 3
Candidate Starts for Arroyo_54:
(2, 35734), (Start: 3 @35896 has 60 MA's), (13, 35998),

Gene: AvGardian_55 Start: 36075, Stop: 36236, Start Num: 3

Candidate Starts for AvGardian_55:
(1, 35907), (Start: 3 @36075 has 60 MA's), (17, 36222),

Gene: Avocadoman_52 Start: 34760, Stop: 34918, Start Num: 3
Candidate Starts for Avocadoman_52:
(2, 34598), (Start: 3 @34760 has 60 MA's), (11, 34817), (13, 34862),

Gene: BAjuniper_52 Start: 36408, Stop: 36569, Start Num: 3
Candidate Starts for BAjuniper_52:
(Start: 3 @36408 has 60 MA's), (11, 36465),

Gene: BabyDaisy_54 Start: 35917, Stop: 36075, Start Num: 3
Candidate Starts for BabyDaisy_54:
(Start: 3 @35917 has 60 MA's), (11, 35974),

Gene: BabyYoda_54 Start: 36496, Stop: 36657, Start Num: 3
Candidate Starts for BabyYoda_54:
(1, 36328), (Start: 3 @36496 has 60 MA's), (13, 36601), (17, 36643),

Gene: Bachaco_52 Start: 37225, Stop: 37389, Start Num: 3
Candidate Starts for Bachaco_52:
(Start: 3 @37225 has 60 MA's),

Gene: BelmontSKP_54 Start: 35788, Stop: 35946, Start Num: 3
Candidate Starts for BelmontSKP_54:
(1, 35614), (2, 35626), (Start: 3 @35788 has 60 MA's), (13, 35890),

Gene: Bernstein_51 Start: 33627, Stop: 33788, Start Num: 3
Candidate Starts for Bernstein_51:
(Start: 3 @33627 has 60 MA's),

Gene: Brahms_51 Start: 33547, Stop: 33708, Start Num: 3
Candidate Starts for Brahms_51:
(Start: 3 @33547 has 60 MA's),

Gene: BubbaBear_53 Start: 35537, Stop: 35695, Start Num: 3
Candidate Starts for BubbaBear_53:
(2, 35375), (Start: 3 @35537 has 60 MA's), (11, 35594), (13, 35639),

Gene: Buldak_47 Start: 32389, Stop: 32547, Start Num: 5
Candidate Starts for Buldak_47:
(5, 32389), (9, 32437),

Gene: Burritobowl_54 Start: 35467, Stop: 35625, Start Num: 3
Candidate Starts for Burritobowl_54:
(2, 35305), (Start: 3 @35467 has 60 MA's), (11, 35524), (13, 35569),

Gene: Cashington_52 Start: 34880, Stop: 35038, Start Num: 3
Candidate Starts for Cashington_52:
(Start: 3 @34880 has 60 MA's), (11, 34937), (13, 34982),

Gene: Celaena_52 Start: 36987, Stop: 37151, Start Num: 3
Candidate Starts for Celaena_52:

(Start: 3 @36987 has 60 MA's),

Gene: ChiliPepper_51 Start: 36277, Stop: 36438, Start Num: 3

Candidate Starts for ChiliPepper_51:

(Start: 3 @36277 has 60 MA's), (12, 36352),

Gene: Clayda5_53 Start: 33612, Stop: 33773, Start Num: 3

Candidate Starts for Clayda5_53:

(Start: 3 @33612 has 60 MA's),

Gene: CliffHanger_55 Start: 33631, Stop: 33807, Start Num: 4

Candidate Starts for CliffHanger_55:

(4, 33631), (5, 33634),

Gene: Coltrane_51 Start: 33547, Stop: 33708, Start Num: 3

Candidate Starts for Coltrane_51:

(Start: 3 @33547 has 60 MA's),

Gene: CroZenni_54 Start: 35404, Stop: 35562, Start Num: 3

Candidate Starts for CroZenni_54:

(2, 35242), (Start: 3 @35404 has 60 MA's), (13, 35506),

Gene: DickRichards_52 Start: 35579, Stop: 35737, Start Num: 3

Candidate Starts for DickRichards_52:

(2, 35417), (Start: 3 @35579 has 60 MA's), (11, 35636), (13, 35681),

Gene: Didgeridoo_57 Start: 36261, Stop: 36419, Start Num: 3

Candidate Starts for Didgeridoo_57:

(Start: 3 @36261 has 60 MA's), (11, 36318),

Gene: DirtyBubble_53 Start: 36164, Stop: 36325, Start Num: 3

Candidate Starts for DirtyBubble_53:

(1, 35996), (Start: 3 @36164 has 60 MA's), (13, 36269), (17, 36311),

Gene: Dismas_52 Start: 36198, Stop: 36359, Start Num: 3

Candidate Starts for Dismas_52:

(Start: 3 @36198 has 60 MA's), (12, 36273),

Gene: Doobus_52 Start: 35068, Stop: 35226, Start Num: 3

Candidate Starts for Doobus_52:

(2, 34906), (Start: 3 @35068 has 60 MA's), (11, 35125), (13, 35170),

Gene: Eden_53 Start: 34909, Stop: 35073, Start Num: 3

Candidate Starts for Eden_53:

(Start: 3 @34909 has 60 MA's), (14, 35032), (18, 35065),

Gene: Elva_56 Start: 36561, Stop: 36722, Start Num: 3

Candidate Starts for Elva_56:

(1, 36393), (Start: 3 @36561 has 60 MA's), (10, 36615), (13, 36666), (17, 36708),

Gene: Eula_54 Start: 35251, Stop: 35409, Start Num: 3

Candidate Starts for Eula_54:

(Start: 3 @35251 has 60 MA's), (11, 35308), (13, 35353),

Gene: Finalfrontier_55 Start: 36361, Stop: 36519, Start Num: 3
Candidate Starts for Finalfrontier_55:
(Start: 3 @36361 has 60 MA's), (11, 36418), (13, 36463),

Gene: FlameThrower_51 Start: 36024, Stop: 36188, Start Num: 3
Candidate Starts for FlameThrower_51:
(Start: 3 @36024 has 60 MA's),

Gene: Franklin22_53 Start: 34194, Stop: 34358, Start Num: 3
Candidate Starts for Franklin22_53:
(Start: 3 @34194 has 60 MA's), (14, 34317), (18, 34350),

Gene: Gack_52 Start: 34522, Stop: 34686, Start Num: 3
Candidate Starts for Gack_52:
(Start: 3 @34522 has 60 MA's), (14, 34645), (18, 34678),

Gene: Icarian_57 Start: 37160, Stop: 37321, Start Num: 3
Candidate Starts for Icarian_57:
(Start: 3 @37160 has 60 MA's), (13, 37265),

Gene: IndyLu_54 Start: 35837, Stop: 35995, Start Num: 3
Candidate Starts for IndyLu_54:
(Start: 3 @35837 has 60 MA's), (11, 35894),

Gene: Johnathan_53 Start: 34906, Stop: 35064, Start Num: 3
Candidate Starts for Johnathan_53:
(Start: 3 @34906 has 60 MA's), (11, 34963), (13, 35008),

Gene: Jovita_53 Start: 35125, Stop: 35283, Start Num: 3
Candidate Starts for Jovita_53:
(Start: 3 @35125 has 60 MA's), (11, 35182), (13, 35227),

Gene: Kate33_54 Start: 35554, Stop: 35712, Start Num: 3
Candidate Starts for Kate33_54:
(Start: 3 @35554 has 60 MA's), (11, 35611),

Gene: Katzastrophic_53 Start: 36534, Stop: 36698, Start Num: 3
Candidate Starts for Katzastrophic_53:
(Start: 3 @36534 has 60 MA's),

Gene: Kenzers_54 Start: 35385, Stop: 35543, Start Num: 3
Candidate Starts for Kenzers_54:
(Start: 3 @35385 has 60 MA's), (11, 35442), (13, 35487),

Gene: Kieran_51 Start: 36239, Stop: 36400, Start Num: 3
Candidate Starts for Kieran_51:
(Start: 3 @36239 has 60 MA's), (12, 36314),

Gene: Lahqtemish_53 Start: 35828, Stop: 35989, Start Num: 3
Candidate Starts for Lahqtemish_53:
(Start: 3 @35828 has 60 MA's),

Gene: LimaBean_54 Start: 35006, Stop: 35164, Start Num: 3

Candidate Starts for LimaBean_54:

(Start: 3 @35006 has 60 MA's), (11, 35063), (13, 35108),

Gene: Loviatar_96 Start: 37572, Stop: 37733, Start Num: 3

Candidate Starts for Loviatar_96:

(1, 37404), (Start: 3 @37572 has 60 MA's), (13, 37677), (17, 37719),

Gene: Lynlen_55 Start: 35565, Stop: 35723, Start Num: 3

Candidate Starts for Lynlen_55:

(Start: 3 @35565 has 60 MA's), (11, 35622), (13, 35667),

Gene: Nicky22_55 Start: 36014, Stop: 36175, Start Num: 3

Candidate Starts for Nicky22_55:

(Start: 3 @36014 has 60 MA's), (Start: 7 @36029 has 1 MA's), (10, 36068),

Gene: Olliecat_46 Start: 32464, Stop: 32625, Start Num: 5

Candidate Starts for Olliecat_46:

(5, 32464), (16, 32593),

Gene: Phisb_54 Start: 35489, Stop: 35647, Start Num: 3

Candidate Starts for Phisb_54:

(Start: 3 @35489 has 60 MA's), (11, 35546), (13, 35591),

Gene: QMacho_56 Start: 35905, Stop: 36063, Start Num: 3

Candidate Starts for QMacho_56:

(Start: 3 @35905 has 60 MA's), (11, 35962), (13, 36007),

Gene: Quenya_55 Start: 36683, Stop: 36829, Start Num: 7

Candidate Starts for Quenya_55:

(Start: 3 @36668 has 60 MA's), (Start: 7 @36683 has 1 MA's), (8, 36686), (13, 36773),

Gene: Rollins_51 Start: 33627, Stop: 33788, Start Num: 3

Candidate Starts for Rollins_51:

(Start: 3 @33627 has 60 MA's),

Gene: Rona_51 Start: 36189, Stop: 36350, Start Num: 3

Candidate Starts for Rona_51:

(Start: 3 @36189 has 60 MA's), (12, 36264),

Gene: SanaSana_56 Start: 36876, Stop: 37037, Start Num: 3

Candidate Starts for SanaSana_56:

(1, 36708), (Start: 3 @36876 has 60 MA's), (13, 36981), (17, 37023),

Gene: SansAfet_55 Start: 35314, Stop: 35472, Start Num: 3

Candidate Starts for SansAfet_55:

(Start: 3 @35314 has 60 MA's), (13, 35416),

Gene: SarBear_54 Start: 35209, Stop: 35367, Start Num: 3

Candidate Starts for SarBear_54:

(Start: 3 @35209 has 60 MA's), (11, 35266), (13, 35311),

Gene: Sharkboy_52 Start: 36288, Stop: 36449, Start Num: 3

Candidate Starts for Sharkboy_52:
(Start: 3 @36288 has 60 MA's), (12, 36363),

Gene: Shayna_53 Start: 34066, Stop: 34242, Start Num: 4
Candidate Starts for Shayna_53:
(4, 34066), (6, 34075), (8, 34084), (15, 34195),

Gene: Skylord_51 Start: 33586, Stop: 33747, Start Num: 3
Candidate Starts for Skylord_51:
(Start: 3 @33586 has 60 MA's),

Gene: Slay_54 Start: 35801, Stop: 35959, Start Num: 3
Candidate Starts for Slay_54:
(Start: 3 @35801 has 60 MA's), (11, 35858), (13, 35903),

Gene: Squircle_46 Start: 32463, Stop: 32624, Start Num: 5
Candidate Starts for Squircle_46:
(5, 32463), (16, 32592),

Gene: Stoor_54 Start: 36663, Stop: 36824, Start Num: 3
Candidate Starts for Stoor_54:
(1, 36495), (Start: 3 @36663 has 60 MA's), (13, 36768), (17, 36810),

Gene: Stromboli_54 Start: 36534, Stop: 36695, Start Num: 3
Candidate Starts for Stromboli_54:
(1, 36366), (Start: 3 @36534 has 60 MA's), (13, 36639), (17, 36681),

Gene: SunnyD_56 Start: 34073, Stop: 34249, Start Num: 4
Candidate Starts for SunnyD_56:
(4, 34073), (6, 34082), (8, 34091), (15, 34202),

Gene: Swervy_55 Start: 35481, Stop: 35639, Start Num: 3
Candidate Starts for Swervy_55:
(Start: 3 @35481 has 60 MA's), (11, 35538), (13, 35583),

Gene: Teagster_55 Start: 34702, Stop: 34878, Start Num: 4
Candidate Starts for Teagster_55:
(4, 34702), (6, 34711), (8, 34720), (15, 34831),

Gene: TukTuk_55 Start: 35546, Stop: 35704, Start Num: 3
Candidate Starts for TukTuk_55:
(Start: 3 @35546 has 60 MA's), (11, 35603), (13, 35648),

Gene: Vitas_51 Start: 33618, Stop: 33779, Start Num: 3
Candidate Starts for Vitas_51:
(Start: 3 @33618 has 60 MA's),

Gene: WalkingDead_56 Start: 37283, Stop: 37444, Start Num: 3
Candidate Starts for WalkingDead_56:
(1, 37115), (Start: 3 @37283 has 60 MA's), (13, 37388), (17, 37430),