

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 224626 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224626 has 55 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Albright_37, Cashington_37, Doobus_38, Avocadoman_38
- Track 2 : BelmontSKP_40, AnnaLie_40
- Track 3 : Quenya_38
- Track 4 : Stoor_40, SanaSana_42, Icarian_42
- Track 5 : Softsoap_39, BubbaBear_38, Burritobowl_39, Eula_40
- Track 6 : PhigPhack_40
- Track 7 : Celaena_37
- Track 8 : Phisb_40, Swervy_40
- Track 9 : TukTuk_40
- Track 10 : Jabb_40, CupcakePrincess_40, Jovita_40, MsUbiquitous_40
- Track 11 : Kenzers_39, Lynlen_39
- Track 12 : Didgeridoo_41
- Track 13 : Abigail_38, LimaBean_38
- Track 14 : Kieran_37, ChiliPepper_36, Dismas_37, Sharkboy_38, Rona_37
- Track 15 : FlameThrower_37
- Track 16 : DirtyBubble_39, Stromboli_40
- Track 17 : Bachaco_37
- Track 18 : Albedo_40
- Track 19 : Elva_41
- Track 20 : BabyYoda_40
- Track 21 : Nicky22_40
- Track 22 : Lahqtemish_38
- Track 23 : Katzastrophic_38
- Track 24 : WalkingDead_41
- Track 25 : DickRichards_38
- Track 26 : Slay_40
- Track 27 : IndyLu_38
- Track 28 : QMacho_42
- Track 29 : Finalfrontier_39
- Track 30 : Kate33_38
- Track 31 : Bengal_40
- Track 32 : SarBear_39
- Track 33 : PastaFagioli_38
- Track 34 : BabyDaisy_38
- Track 35 : SansAfet_40

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

The start number called the most often in the published annotations is 11, it was called in 43 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_38, Albright_37, AnnaLie_40, Avocadoman_38, BabyDaisy_38, BabyYoda_40, Bachaco_37, BelmontSKP_40, Bengal_40, BubbaBear_38, Burritobowl_39, Cashington_37, Celaena_37, ChiliPepper_36, DickRichards_38, Didgeridoo_41, DirtyBubble_39, Dismas_37, Doobus_38, Elva_41, Eula_40, Finalfrontier_39, FlameThrower_37, Icarian_42, IndyLu_38, Kate33_38, Katzastrophic_38, Kenzers_39, Kieran_37, Lahqtemish_38, LimaBean_38, Lynlen_39, Nicky22_40, PastaFagioli_38, PhigPhack_40, Phisb_40, QMacho_42, Quenya_38, Rona_37, SanaSana_42, SansAfet_40, Sharkboy_38, Slay_40, Softsoap_39, Stoor_40, Stromboli_40, Swervy_40, TukTuk_40, WalkingDead_41,

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:

- Albedo_40, CupcakePrincess_40, Jabb_40, Jovita_40, MsUbiquitous_40, SarBear_39,

Summary by start number:

Start 11:

- Found in 49 of 55 (89.1%) of genes in pham
- Manual Annotations of this start: 43 of 46
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_38 (EB), Albright_37 (EB), AnnaLie_40 (EB), Avocadoman_38 (EB), BabyDaisy_38 (EB), BabyYoda_40 (EB), Bachaco_37 (EB), BelmontSKP_40 (EB), Bengal_40 (EB), BubbaBear_38 (EB), Burritobowl_39 (EB), Cashington_37 (EB), Celaena_37 (EB), ChiliPepper_36 (EB), DickRichards_38 (EB), Didgeridoo_41 (EB), DirtyBubble_39 (EB), Dismas_37 (EB), Doobus_38 (EB), Elva_41 (EB), Eula_40 (EB), Finalfrontier_39 (EB), FlameThrower_37 (EB), Icarian_42 (EB), IndyLu_38 (EB), Kate33_38 (EB), Katzastrophic_38 (EB), Kenzers_39 (EB), Kieran_37 (EB), Lahqtemish_38 (EB), LimaBean_38 (EB), Lynlen_39 (EB), Nicky22_40 (EB), PastaFagioli_38 (EB), PhigPhack_40 (EB), Phisb_40 (EB), QMacho_42 (EB), Quenya_38 (EB), Rona_37 (EB), SanaSana_42 (EB), SansAfet_40 (EB), Sharkboy_38 (EB), Slay_40 (EB), Softsoap_39 (EB), Stoor_40 (EB), Stromboli_40 (EB), Swervy_40 (EB), TukTuk_40 (EB), WalkingDead_41 (EB),

Start 22:

- Found in 11 of 55 (20.0%) of genes in pham
- Manual Annotations of this start: 3 of 46
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Albedo_40 (EB), CupcakePrincess_40 (EB), Jabb_40 (EB), Jovita_40 (EB), MsUbiquitous_40 (EB), SarBear_39 (EB),

Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 11 was manually annotated 43 times for cluster EB.
- Start number 22 was manually annotated 3 times for cluster EB.

Gene Information:

Gene: Abigail_38 Start: 25955, Stop: 26224, Start Num: 11

Candidate Starts for Abigail_38:

(9, 25907), (Start: 11 @25955 has 43 MA's), (25, 25991), (26, 25994), (42, 26147), (44, 26183),

Gene: Albedo_40 Start: 26678, Stop: 27001, Start Num: 22

Candidate Starts for Albedo_40:

(6, 26366), (7, 26369), (Start: 22 @26678 has 3 MA's), (30, 26729), (35, 26765), (37, 26801), (38, 26804), (39, 26810), (42, 26924), (44, 26960),

Gene: Albright_37 Start: 25657, Stop: 25926, Start Num: 11

Candidate Starts for Albright_37:

(9, 25609), (Start: 11 @25657 has 43 MA's), (25, 25693), (26, 25696), (42, 25849), (44, 25885),

Gene: AnnaLie_40 Start: 26779, Stop: 27129, Start Num: 11

Candidate Starts for AnnaLie_40:

(Start: 11 @26779 has 43 MA's), (17, 26830), (26, 26908), (42, 27052), (44, 27088),

Gene: Avocadoman_38 Start: 25894, Stop: 26163, Start Num: 11

Candidate Starts for Avocadoman_38:

(9, 25846), (Start: 11 @25894 has 43 MA's), (25, 25930), (26, 25933), (42, 26086), (44, 26122),

Gene: BabyDaisy_38 Start: 26417, Stop: 26773, Start Num: 11

Candidate Starts for BabyDaisy_38:

(9, 26369), (Start: 11 @26417 has 43 MA's), (17, 26468), (26, 26546), (33, 26591), (34, 26594), (42, 26696), (44, 26732),

Gene: BabyYoda_40 Start: 27560, Stop: 27835, Start Num: 11

Candidate Starts for BabyYoda_40:

(Start: 11 @27560 has 43 MA's), (23, 27602), (24, 27605), (27, 27617), (28, 27620), (42, 27758), (43, 27785),

Gene: Bachaco_37 Start: 27591, Stop: 27851, Start Num: 11

Candidate Starts for Bachaco_37:

(Start: 11 @27591 has 43 MA's), (12, 27597), (14, 27609), (29, 27636), (42, 27765), (44, 27801), (45, 27834),

Gene: BelmontSKP_40 Start: 26779, Stop: 27129, Start Num: 11

Candidate Starts for BelmontSKP_40:

(Start: 11 @26779 has 43 MA's), (17, 26830), (26, 26908), (42, 27052), (44, 27088),

Gene: Bengal_40 Start: 26408, Stop: 26773, Start Num: 11

Candidate Starts for Bengal_40:

(Start: 11 @26408 has 43 MA's), (16, 26450), (17, 26453), (18, 26465), (19, 26468), (20, 26486), (21, 26504), (25, 26540), (26, 26543), (42, 26696), (44, 26732),

Gene: BubbaBear_38 Start: 26352, Stop: 26702, Start Num: 11

Candidate Starts for BubbaBear_38:

(Start: 11 @26352 has 43 MA's), (17, 26403), (26, 26481), (42, 26625), (44, 26661),

Gene: Burritobowl_39 Start: 26353, Stop: 26703, Start Num: 11

Candidate Starts for Burritobowl_39:

(Start: 11 @26353 has 43 MA's), (17, 26404), (26, 26482), (42, 26626), (44, 26662),

Gene: Cashington_37 Start: 25697, Stop: 25966, Start Num: 11

Candidate Starts for Cashington_37:

(9, 25649), (Start: 11 @25697 has 43 MA's), (25, 25733), (26, 25736), (42, 25889), (44, 25925),

Gene: Celaena_37 Start: 27333, Stop: 27593, Start Num: 11

Candidate Starts for Celaena_37:

(5, 27180), (Start: 11 @27333 has 43 MA's), (12, 27339), (14, 27351), (29, 27378), (42, 27507), (44, 27543), (45, 27576),

Gene: ChiliPepper_36 Start: 26781, Stop: 27017, Start Num: 11

Candidate Starts for ChiliPepper_36:

(Start: 11 @26781 has 43 MA's), (12, 26787), (14, 26799), (29, 26826), (32, 26847),

Gene: CupcakePrincess_40 Start: 26541, Stop: 26822, Start Num: 22

Candidate Starts for CupcakePrincess_40:

(Start: 22 @26541 has 3 MA's), (30, 26592), (42, 26745), (44, 26781),

Gene: DickRichards_38 Start: 26679, Stop: 27062, Start Num: 11

Candidate Starts for DickRichards_38:

(Start: 11 @26679 has 43 MA's), (15, 26718), (21, 26742), (25, 26778), (26, 26781), (36, 26841), (42, 26985), (44, 27021),

Gene: Didgeridoo_41 Start: 26825, Stop: 27154, Start Num: 11

Candidate Starts for Didgeridoo_41:

(Start: 11 @26825 has 43 MA's), (26, 26927), (33, 26972), (34, 26975), (41, 27044), (42, 27077), (44, 27113),

Gene: DirtyBubble_39 Start: 27207, Stop: 27503, Start Num: 11

Candidate Starts for DirtyBubble_39:

(Start: 11 @27207 has 43 MA's), (13, 27219), (Start: 22 @27246 has 3 MA's), (23, 27267), (30, 27297), (42, 27426), (43, 27453),

Gene: Dismas_37 Start: 26952, Stop: 27188, Start Num: 11

Candidate Starts for Dismas_37:

(Start: 11 @26952 has 43 MA's), (12, 26958), (14, 26970), (29, 26997), (32, 27018),

Gene: Doobus_38 Start: 26061, Stop: 26330, Start Num: 11

Candidate Starts for Doobus_38:

(9, 26013), (Start: 11 @26061 has 43 MA's), (25, 26097), (26, 26100), (42, 26253), (44, 26289),

Gene: Elva_41 Start: 27269, Stop: 27622, Start Num: 11

Candidate Starts for Elva_41:

(Start: 11 @27269 has 43 MA's), (17, 27320), (26, 27398), (33, 27443), (42, 27545),

Gene: Eula_40 Start: 26454, Stop: 26804, Start Num: 11

Candidate Starts for Eula_40:

(Start: 11 @26454 has 43 MA's), (17, 26505), (26, 26583), (42, 26727), (44, 26763),

Gene: Finalfrontier_39 Start: 27068, Stop: 27397, Start Num: 11

Candidate Starts for Finalfrontier_39:

(Start: 11 @27068 has 43 MA's), (26, 27170), (33, 27215), (34, 27218), (41, 27287), (42, 27320), (44, 27356),

Gene: FlameThrower_37 Start: 26783, Stop: 27043, Start Num: 11

Candidate Starts for FlameThrower_37:

(Start: 11 @26783 has 43 MA's), (12, 26789), (14, 26801), (29, 26828), (42, 26957), (44, 26993), (45, 27026),

Gene: Icarian_42 Start: 27843, Stop: 28139, Start Num: 11

Candidate Starts for Icarian_42:

(Start: 11 @27843 has 43 MA's), (13, 27855), (Start: 22 @27882 has 3 MA's), (23, 27903), (30, 27933), (42, 28062),

Gene: IndyLu_38 Start: 26383, Stop: 26739, Start Num: 11

Candidate Starts for IndyLu_38:

(2, 26098), (4, 26224), (Start: 11 @26383 has 43 MA's), (17, 26434), (26, 26512), (34, 26560), (42, 26662), (44, 26698),

Gene: Jabb_40 Start: 26541, Stop: 26822, Start Num: 22

Candidate Starts for Jabb_40:

(Start: 22 @26541 has 3 MA's), (30, 26592), (42, 26745), (44, 26781),

Gene: Jovita_40 Start: 26556, Stop: 26837, Start Num: 22

Candidate Starts for Jovita_40:

(Start: 22 @26556 has 3 MA's), (30, 26607), (42, 26760), (44, 26796),

Gene: Kate33_38 Start: 26148, Stop: 26477, Start Num: 11

Candidate Starts for Kate33_38:

(Start: 11 @26148 has 43 MA's), (15, 26187), (26, 26250), (33, 26295), (34, 26298), (42, 26400), (44, 26436),

Gene: Katzastrophic_38 Start: 26912, Stop: 27172, Start Num: 11

Candidate Starts for Katzastrophic_38:

(5, 26759), (Start: 11 @26912 has 43 MA's), (12, 26918), (14, 26930), (29, 26957), (42, 27086), (44, 27122), (45, 27155),

Gene: Kenzers_39 Start: 26376, Stop: 26675, Start Num: 11

Candidate Starts for Kenzers_39:

(Start: 11 @26376 has 43 MA's), (21, 26439), (25, 26475), (26, 26478), (42, 26598), (44, 26634),

Gene: Kieran_37 Start: 26960, Stop: 27196, Start Num: 11

Candidate Starts for Kieran_37:

(Start: 11 @26960 has 43 MA's), (12, 26966), (14, 26978), (29, 27005), (32, 27026),

Gene: Lahqtemish_38 Start: 26424, Stop: 26780, Start Num: 11

Candidate Starts for Lahqtemish_38:

(Start: 11 @26424 has 43 MA's), (17, 26475), (26, 26553), (33, 26598), (42, 26703), (44, 26739),

Gene: LimaBean_38 Start: 25833, Stop: 26102, Start Num: 11

Candidate Starts for LimaBean_38:

(9, 25785), (Start: 11 @25833 has 43 MA's), (25, 25869), (26, 25872), (42, 26025), (44, 26061),

Gene: Lynlen_39 Start: 26376, Stop: 26675, Start Num: 11

Candidate Starts for Lynlen_39:

(Start: 11 @26376 has 43 MA's), (21, 26439), (25, 26475), (26, 26478), (42, 26598), (44, 26634),

Gene: MsUbiquitous_40 Start: 26541, Stop: 26822, Start Num: 22

Candidate Starts for MsUbiquitous_40:

(Start: 22 @26541 has 3 MA's), (30, 26592), (42, 26745), (44, 26781),

Gene: Nicky22_40 Start: 26917, Stop: 27267, Start Num: 11

Candidate Starts for Nicky22_40:

(Start: 11 @26917 has 43 MA's), (17, 26968), (26, 27046), (42, 27190), (44, 27226),

Gene: PastaFagioli_38 Start: 26409, Stop: 26765, Start Num: 11

Candidate Starts for PastaFagioli_38:

(Start: 11 @26409 has 43 MA's), (17, 26460), (26, 26538), (33, 26583), (34, 26586), (42, 26688), (44, 26724),

Gene: PhigPhack_40 Start: 26279, Stop: 26629, Start Num: 11

Candidate Starts for PhigPhack_40:

(Start: 11 @26279 has 43 MA's), (17, 26330), (26, 26408), (42, 26552), (44, 26588),

Gene: Phisb_40 Start: 26510, Stop: 26863, Start Num: 11

Candidate Starts for Phisb_40:

(9, 26462), (Start: 11 @26510 has 43 MA's), (17, 26561), (26, 26639), (42, 26786), (44, 26822),

Gene: QMacho_42 Start: 27152, Stop: 27505, Start Num: 11

Candidate Starts for QMacho_42:

(Start: 11 @27152 has 43 MA's), (17, 27203), (26, 27281), (40, 27338), (42, 27428), (44, 27464),

Gene: Quenya_38 Start: 26614, Stop: 26925, Start Num: 11

Candidate Starts for Quenya_38:

(1, 26302), (6, 26464), (8, 26491), (Start: 11 @26614 has 43 MA's), (23, 26671), (31, 26710), (42, 26839), (44, 26875), (45, 26908),

Gene: Rona_37 Start: 26943, Stop: 27179, Start Num: 11

Candidate Starts for Rona_37:

(Start: 11 @26943 has 43 MA's), (12, 26949), (14, 26961), (29, 26988), (32, 27009),

Gene: SanaSana_42 Start: 28045, Stop: 28341, Start Num: 11

Candidate Starts for SanaSana_42:

(Start: 11 @28045 has 43 MA's), (13, 28057), (Start: 22 @28084 has 3 MA's), (23, 28105), (30, 28135), (42, 28264),

Gene: SansAfet_40 Start: 26366, Stop: 26716, Start Num: 11

Candidate Starts for SansAfet_40:

(Start: 11 @26366 has 43 MA's), (17, 26417), (26, 26495), (42, 26639), (44, 26675),

Gene: SarBear_39 Start: 26231, Stop: 26512, Start Num: 22

Candidate Starts for SarBear_39:

(9, 26183), (Start: 22 @26231 has 3 MA's), (30, 26282), (42, 26435), (44, 26471),

Gene: Sharkboy_38 Start: 27042, Stop: 27278, Start Num: 11

Candidate Starts for Sharkboy_38:

(Start: 11 @27042 has 43 MA's), (12, 27048), (14, 27060), (29, 27087), (32, 27108),

Gene: Slay_40 Start: 26911, Stop: 27240, Start Num: 11

Candidate Starts for Slay_40:

(Start: 11 @26911 has 43 MA's), (15, 26950), (26, 27013), (33, 27058), (34, 27061), (42, 27163), (44, 27199),

Gene: Softsoap_39 Start: 26277, Stop: 26627, Start Num: 11

Candidate Starts for Softsoap_39:

(Start: 11 @26277 has 43 MA's), (17, 26328), (26, 26406), (42, 26550), (44, 26586),

Gene: Stoor_40 Start: 27714, Stop: 28010, Start Num: 11

Candidate Starts for Stoor_40:

(Start: 11 @27714 has 43 MA's), (13, 27726), (Start: 22 @27753 has 3 MA's), (23, 27774), (30, 27804), (42, 27933),

Gene: Stromboli_40 Start: 27577, Stop: 27873, Start Num: 11

Candidate Starts for Stromboli_40:

(Start: 11 @27577 has 43 MA's), (13, 27589), (Start: 22 @27616 has 3 MA's), (23, 27637), (30, 27667), (42, 27796), (43, 27823),

Gene: Swervy_40 Start: 26431, Stop: 26784, Start Num: 11

Candidate Starts for Swervy_40:

(9, 26383), (Start: 11 @26431 has 43 MA's), (17, 26482), (26, 26560), (42, 26707), (44, 26743),

Gene: TukTuk_40 Start: 26501, Stop: 26797, Start Num: 11

Candidate Starts for TukTuk_40:

(3, 26327), (Start: 11 @26501 has 43 MA's), (15, 26540), (21, 26564), (25, 26600), (26, 26603), (42, 26720), (44, 26756),

Gene: WalkingDead_41 Start: 27970, Stop: 28248, Start Num: 11

Candidate Starts for WalkingDead_41:

(10, 27925), (Start: 11 @27970 has 43 MA's), (23, 28012), (24, 28015), (27, 28027), (28, 28030), (42, 28171), (43, 28198),