

Pham 308730



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 308730 Report

This analysis was run 06/27/26 on database version 652.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 308730 has 51 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Erudite_25, Dauntless_25
- Track 2 : Anakin_26, OhDear_26, Cybele_26, Neptune_26, Rachella_26, Potty_26, Tiggy93_26, Haunter_26, Artiphact_26, Tedro_26, PhunaPhoke_26, Kate_26, Krampus_26, Gilda_26, CoolCookie_26, AnnaSerena_26, Pharpay_26, NarutoRun_26
- Track 3 : JDawG_25, SilentWarrior_25, Hiddenleaf_25, Aesir_25, Chivey_25, Crestdrop_25, JingleBells_25, Snakehole_27, DannyDe_25, Annapurna_25, MortySmith_24, FreddieHg_25
- Track 4 : Bramble_27, LordBart_27, Sparcetus_27, Ajin_27, Kors_27
- Track 5 : FountainFog_25, Poultruss_25, Tongui_25, Karate_25
- Track 6 : TinyMiny_27, RikSengupta_27
- Track 7 : OverHedge_26
- Track 8 : Rie18_26
- Track 9 : Hager_27
- Track 10 : Huwburt_47
- Track 11 : Triscuit_46
- Track 12 : OnionKnight_14
- Track 13 : Shrew_59
- Track 14 : Wollypog_14

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

The start number called the most often in the published annotations is 1, it was called in 40 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_25, Anakin_26, AnnaSerena_26, Annapurna_25, Artiphact_26, Chivey_25, CoolCookie_26, Crestdrop_25, Cybele_26, DannyDe_25, Dauntless_25, Erudite_25, FountainFog_25, FreddieHg_25, Gilda_26, Hager_27, Haunter_26, Hiddenleaf_25, Huwburt_47, JDawG_25, JingleBells_25, Karate_25, Kate_26, Krampus_26,

MortySmith_24, NarutoRun_26, Neptune_26, OhDear_26, OnionKnight_14, OverHedge_26, Pharpay_26, PhunaPhoke_26, Potty_26, Poultruss_25, Rachella_26, Rie18_26, Shrew_59, SilentWarrior_25, Snakehole_27, Tedro_26, Tiggy93_26, Tongui_25, Triscuit_46, Wollypog_14,

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:

- Ajin_27, Bramble_27, Kors_27, LordBart_27, RikSengupta_27, Sparcetus_27, TinyMiny_27,

Summary by start number:

Start 1:

- Found in 44 of 51 (86.3%) of genes in pham
- Manual Annotations of this start: 40 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_25 (EF), Anakin_26 (EF), AnnaSerena_26 (EF), Annapurna_25 (EF), Artiphact_26 (EF), Chivey_25 (EF), CoolCookie_26 (EF), Crestdrop_25 (EF), Cybele_26 (EF), DannyDe_25 (EF), Dauntless_25 (EF), Erudite_25 (EF), FountainFog_25 (EF), FreddieHg_25 (EF), Gilda_26 (EF), Hager_27 (EF), Haunter_26 (EF), Hiddenleaf_25 (EF), Huwbert_47 (GG), JDawG_25 (EF), JingleBells_25 (EF), Karate_25 (EF), Kate_26 (EF), Krampus_26 (EF), MortySmith_24 (EF), NarutoRun_26 (EF), Neptune_26 (EF), OhDear_26 (EF), OnionKnight_14 (singleton), OverHedge_26 (EF), Pharpay_26 (EF), PhunaPhoke_26 (EF), Potty_26 (EF), Poultruss_25 (EF), Rachella_26 (EF), Rie18_26 (EF), Shrew_59 (singleton), SilentWarrior_25 (EF), Snakehole_27 (EF), Tedro_26 (EF), Tiggy93_26 (EF), Tongui_25 (EF), Triscuit_46 (GG), Wollypog_14 (singleton),

Start 2:

- Found in 7 of 51 (13.7%) of genes in pham
- Manual Annotations of this start: 2 of 47
- Called 28.6% of time when present
- Phage (with cluster) where this start called: RikSengupta_27 (EF), TinyMiny_27 (EF),

Start 3:

- Found in 7 of 51 (13.7%) of genes in pham
- Manual Annotations of this start: 5 of 47
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Ajin_27 (EF), Bramble_27 (EF), Kors_27 (EF), LordBart_27 (EF), Sparcetus_27 (EF),

Summary by clusters:

There are 3 clusters represented in this pham: GG, singleton, EF,

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 35 times for cluster EF.
- Start number 2 was manually annotated 2 times for cluster EF.
- Start number 3 was manually annotated 5 times for cluster EF.

Info for manual annotations of cluster GG:

•Start number 1 was manually annotated 2 times for cluster GG.

Gene Information:

Gene: Aesir_25 Start: 13209, Stop: 13787, Start Num: 1

Candidate Starts for Aesir_25:

(Start: 1 @13209 has 40 MA's), (7, 13278), (17, 13461), (29, 13692), (32, 13731),

Gene: Ajin_27 Start: 13365, Stop: 13940, Start Num: 3

Candidate Starts for Ajin_27:

(Start: 2 @13362 has 2 MA's), (Start: 3 @13365 has 5 MA's), (15, 13569), (16, 13605), (17, 13608), (21, 13659), (22, 13737), (29, 13839), (32, 13878),

Gene: Anakin_26 Start: 13416, Stop: 13994, Start Num: 1

Candidate Starts for Anakin_26:

(Start: 1 @13416 has 40 MA's), (7, 13485), (17, 13668), (32, 13938),

Gene: AnnaSerena_26 Start: 13425, Stop: 14003, Start Num: 1

Candidate Starts for AnnaSerena_26:

(Start: 1 @13425 has 40 MA's), (7, 13494), (17, 13677), (32, 13947),

Gene: Annapurna_25 Start: 12628, Stop: 13209, Start Num: 1

Candidate Starts for Annapurna_25:

(Start: 1 @12628 has 40 MA's), (7, 12697), (17, 12880), (29, 13111), (32, 13150),

Gene: Artiphact_26 Start: 13417, Stop: 13995, Start Num: 1

Candidate Starts for Artiphact_26:

(Start: 1 @13417 has 40 MA's), (7, 13486), (17, 13669), (32, 13939),

Gene: Bramble_27 Start: 13330, Stop: 13905, Start Num: 3

Candidate Starts for Bramble_27:

(Start: 2 @13327 has 2 MA's), (Start: 3 @13330 has 5 MA's), (15, 13534), (16, 13570), (17, 13573), (21, 13624), (22, 13702), (29, 13804), (32, 13843),

Gene: Chivey_25 Start: 12621, Stop: 13202, Start Num: 1

Candidate Starts for Chivey_25:

(Start: 1 @12621 has 40 MA's), (7, 12690), (17, 12873), (29, 13104), (32, 13143),

Gene: CoolCookie_26 Start: 13423, Stop: 14001, Start Num: 1

Candidate Starts for CoolCookie_26:

(Start: 1 @13423 has 40 MA's), (7, 13492), (17, 13675), (32, 13945),

Gene: Crestdrop_25 Start: 12495, Stop: 13073, Start Num: 1

Candidate Starts for Crestdrop_25:

(Start: 1 @12495 has 40 MA's), (7, 12564), (17, 12747), (29, 12978), (32, 13017),

Gene: Cybele_26 Start: 13393, Stop: 13971, Start Num: 1

Candidate Starts for Cybele_26:

(Start: 1 @13393 has 40 MA's), (7, 13462), (17, 13645), (32, 13915),

Gene: DannyDe_25 Start: 12613, Stop: 13194, Start Num: 1

Candidate Starts for DannyDe_25:

(Start: 1 @12613 has 40 MA's), (7, 12682), (17, 12865), (29, 13096), (32, 13135),

Gene: Dauntless_25 Start: 13138, Stop: 13716, Start Num: 1

Candidate Starts for Dauntless_25:

(Start: 1 @13138 has 40 MA's), (7, 13207), (17, 13390), (25, 13558), (29, 13621), (32, 13660),

Gene: Erudite_25 Start: 13138, Stop: 13716, Start Num: 1

Candidate Starts for Erudite_25:

(Start: 1 @13138 has 40 MA's), (7, 13207), (17, 13390), (25, 13558), (29, 13621), (32, 13660),

Gene: FountainFog_25 Start: 12744, Stop: 13313, Start Num: 1

Candidate Starts for FountainFog_25:

(Start: 1 @12744 has 40 MA's), (7, 12813), (17, 12996), (27, 13215), (29, 13227), (32, 13266),

Gene: FreddieHg_25 Start: 12637, Stop: 13218, Start Num: 1

Candidate Starts for FreddieHg_25:

(Start: 1 @12637 has 40 MA's), (7, 12706), (17, 12889), (29, 13120), (32, 13159),

Gene: Gilda_26 Start: 13417, Stop: 13995, Start Num: 1

Candidate Starts for Gilda_26:

(Start: 1 @13417 has 40 MA's), (7, 13486), (17, 13669), (32, 13939),

Gene: Hager_27 Start: 12988, Stop: 13557, Start Num: 1

Candidate Starts for Hager_27:

(Start: 1 @12988 has 40 MA's), (7, 13057), (17, 13240), (19, 13270), (20, 13285), (29, 13471), (32, 13510),

Gene: Haunter_26 Start: 12830, Stop: 13408, Start Num: 1

Candidate Starts for Haunter_26:

(Start: 1 @12830 has 40 MA's), (7, 12899), (17, 13082), (32, 13352),

Gene: Hiddenleaf_25 Start: 12621, Stop: 13202, Start Num: 1

Candidate Starts for Hiddenleaf_25:

(Start: 1 @12621 has 40 MA's), (7, 12690), (17, 12873), (29, 13104), (32, 13143),

Gene: Huwbert_47 Start: 23795, Stop: 24343, Start Num: 1

Candidate Starts for Huwbert_47:

(Start: 1 @23795 has 40 MA's), (5, 23837), (6, 23846), (26, 24224),

Gene: JDawG_25 Start: 13203, Stop: 13784, Start Num: 1

Candidate Starts for JDawG_25:

(Start: 1 @13203 has 40 MA's), (7, 13272), (17, 13455), (29, 13686), (32, 13725),

Gene: JingleBells_25 Start: 12702, Stop: 13280, Start Num: 1

Candidate Starts for JingleBells_25:

(Start: 1 @12702 has 40 MA's), (7, 12771), (17, 12954), (29, 13185), (32, 13224),

Gene: Karate_25 Start: 12838, Stop: 13407, Start Num: 1

Candidate Starts for Karate_25:

(Start: 1 @12838 has 40 MA's), (7, 12907), (17, 13090), (27, 13309), (29, 13321), (32, 13360),

Gene: Kate_26 Start: 13425, Stop: 14003, Start Num: 1
Candidate Starts for Kate_26:
(Start: 1 @13425 has 40 MA's), (7, 13494), (17, 13677), (32, 13947),

Gene: Kors_27 Start: 13411, Stop: 13986, Start Num: 3
Candidate Starts for Kors_27:
(Start: 2 @13408 has 2 MA's), (Start: 3 @13411 has 5 MA's), (15, 13615), (16, 13651), (17, 13654),
(21, 13705), (22, 13783), (29, 13885), (32, 13924),

Gene: Krampus_26 Start: 13423, Stop: 14001, Start Num: 1
Candidate Starts for Krampus_26:
(Start: 1 @13423 has 40 MA's), (7, 13492), (17, 13675), (32, 13945),

Gene: LordBart_27 Start: 13327, Stop: 13902, Start Num: 3
Candidate Starts for LordBart_27:
(Start: 2 @13324 has 2 MA's), (Start: 3 @13327 has 5 MA's), (15, 13531), (16, 13567), (17, 13570),
(21, 13621), (22, 13699), (29, 13801), (32, 13840),

Gene: MortySmith_24 Start: 12600, Stop: 13178, Start Num: 1
Candidate Starts for MortySmith_24:
(Start: 1 @12600 has 40 MA's), (7, 12669), (17, 12852), (29, 13083), (32, 13122),

Gene: NarutoRun_26 Start: 13416, Stop: 13994, Start Num: 1
Candidate Starts for NarutoRun_26:
(Start: 1 @13416 has 40 MA's), (7, 13485), (17, 13668), (32, 13938),

Gene: Neptune_26 Start: 13393, Stop: 13971, Start Num: 1
Candidate Starts for Neptune_26:
(Start: 1 @13393 has 40 MA's), (7, 13462), (17, 13645), (32, 13915),

Gene: OhDear_26 Start: 13422, Stop: 14000, Start Num: 1
Candidate Starts for OhDear_26:
(Start: 1 @13422 has 40 MA's), (7, 13491), (17, 13674), (32, 13944),

Gene: OnionKnight_14 Start: 9412, Stop: 9990, Start Num: 1
Candidate Starts for OnionKnight_14:
(Start: 1 @9412 has 40 MA's), (4, 9445), (8, 9520), (9, 9538), (10, 9556), (11, 9562), (12, 9589), (14,
9625), (24, 9838), (28, 9907), (31, 9940),

Gene: OverHedge_26 Start: 13393, Stop: 13962, Start Num: 1
Candidate Starts for OverHedge_26:
(Start: 1 @13393 has 40 MA's), (17, 13645), (32, 13915),

Gene: Pharpay_26 Start: 13438, Stop: 14016, Start Num: 1
Candidate Starts for Pharpay_26:
(Start: 1 @13438 has 40 MA's), (7, 13507), (17, 13690), (32, 13960),

Gene: PhunaPhoke_26 Start: 13411, Stop: 13989, Start Num: 1
Candidate Starts for PhunaPhoke_26:
(Start: 1 @13411 has 40 MA's), (7, 13480), (17, 13663), (32, 13933),

Gene: Potty_26 Start: 13416, Stop: 13994, Start Num: 1

Candidate Starts for Potty_26:

(Start: 1 @13416 has 40 MA's), (7, 13485), (17, 13668), (32, 13938),

Gene: Poultress_25 Start: 13189, Stop: 13758, Start Num: 1

Candidate Starts for Poultress_25:

(Start: 1 @13189 has 40 MA's), (7, 13258), (17, 13441), (27, 13660), (29, 13672), (32, 13711),

Gene: Rachella_26 Start: 13419, Stop: 13997, Start Num: 1

Candidate Starts for Rachella_26:

(Start: 1 @13419 has 40 MA's), (7, 13488), (17, 13671), (32, 13941),

Gene: Rie18_26 Start: 12770, Stop: 13339, Start Num: 1

Candidate Starts for Rie18_26:

(Start: 1 @12770 has 40 MA's), (7, 12839), (17, 13022), (29, 13253), (30, 13271), (32, 13292),

Gene: RikSengupta_27 Start: 13445, Stop: 14023, Start Num: 2

Candidate Starts for RikSengupta_27:

(Start: 2 @13445 has 2 MA's), (Start: 3 @13448 has 5 MA's), (15, 13652), (16, 13688), (17, 13691), (21, 13742), (22, 13820), (29, 13922), (32, 13961),

Gene: Shrew_59 Start: 28257, Stop: 28817, Start Num: 1

Candidate Starts for Shrew_59:

(Start: 1 @28257 has 40 MA's), (16, 28497), (23, 28635), (26, 28680),

Gene: SilentWarrior_25 Start: 12629, Stop: 13210, Start Num: 1

Candidate Starts for SilentWarrior_25:

(Start: 1 @12629 has 40 MA's), (7, 12698), (17, 12881), (29, 13112), (32, 13151),

Gene: Snakehole_27 Start: 12718, Stop: 13299, Start Num: 1

Candidate Starts for Snakehole_27:

(Start: 1 @12718 has 40 MA's), (7, 12787), (17, 12970), (29, 13201), (32, 13240),

Gene: Sparcetus_27 Start: 13327, Stop: 13902, Start Num: 3

Candidate Starts for Sparcetus_27:

(Start: 2 @13324 has 2 MA's), (Start: 3 @13327 has 5 MA's), (15, 13531), (16, 13567), (17, 13570), (21, 13621), (22, 13699), (29, 13801), (32, 13840),

Gene: Tedro_26 Start: 12889, Stop: 13467, Start Num: 1

Candidate Starts for Tedro_26:

(Start: 1 @12889 has 40 MA's), (7, 12958), (17, 13141), (32, 13411),

Gene: Tiggy93_26 Start: 13422, Stop: 14000, Start Num: 1

Candidate Starts for Tiggy93_26:

(Start: 1 @13422 has 40 MA's), (7, 13491), (17, 13674), (32, 13944),

Gene: TinyMiny_27 Start: 13343, Stop: 13921, Start Num: 2

Candidate Starts for TinyMiny_27:

(Start: 2 @13343 has 2 MA's), (Start: 3 @13346 has 5 MA's), (15, 13550), (16, 13586), (17, 13589), (21, 13640), (22, 13718), (29, 13820), (32, 13859),

Gene: Tongui_25 Start: 12762, Stop: 13331, Start Num: 1

Candidate Starts for Tongui_25:

(Start: 1 @12762 has 40 MA's), (7, 12831), (17, 13014), (27, 13233), (29, 13245), (32, 13284),

Gene: Triscuit_46 Start: 23716, Stop: 24264, Start Num: 1

Candidate Starts for Triscuit_46:

(Start: 1 @23716 has 40 MA's), (6, 23767), (26, 24145),

Gene: Wollypog_14 Start: 9975, Stop: 10520, Start Num: 1

Candidate Starts for Wollypog_14:

(Start: 1 @9975 has 40 MA's), (5, 10014), (13, 10140), (17, 10218), (18, 10233),