



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 294704 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294704 has 69 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Adjutor_19, Erk16_18, Giuseppe_18, Prager_18, Gumball_17, Delton_18, SirHarley_17, Mopey_18, PBI1_19, Visconti_18, Thoth_18, PLOT_19, Chill_19, BigMama_16, Penelope2018_18, WaldoWhy_19, SuperheroCarly_18, Butterscotch_18, KandZ_18, Phalaborwa_18, Nova_18, Helpful_19, Troll4_18
- Track 2 : Hawkeye_20
- Track 3 : Neptune_20, OhDear_20, Anakin_20, JingleBells_19, Potty_20, Rachella_20, Erudite_19, AnnaSerena_20, Krampus_20, DannyDe_19, FreddieHg_19, Haunter_20, Artiphact_20, Tedro_20, MortySmith_18, OverHedge_20, PhunaPhoke_20, Cybele_20, Gilda_20, Aesir_19, JDawG_19, SilentWarrior_19, Hiddenleaf_19, Annapurna_19, Poultruss_19, Dauntless_19, Crestdrop_19, Chivey_19, Kate_20, CoolCookie_20, Snakehole_21, NarutoRun_20, Pharpay_20
- Track 4 : Ajin_21, Bramble_21, LordBart_21, TinyMiny_21, RikSengupta_21, Sparcetus_21, Kors_21
- Track 5 : Tongui_19, Karate_19, Hager_21, FountainFog_19, Rie18_20

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 64 of the 64 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor_19, Aesir_19, Ajin_21, Anakin_20, AnnaSerena_20, Annapurna_19, Artiphact_20, BigMama_16, Bramble_21, Butterscotch_18, Chill_19, Chivey_19, CoolCookie_20, Crestdrop_19, Cybele_20, DannyDe_19, Dauntless_19, Delton_18, Erk16_18, Erudite_19, FountainFog_19, FreddieHg_19, Gilda_20, Giuseppe_18, Gumball_17, Hager_21, Haunter_20, Hawkeye_20, Helpful_19, Hiddenleaf_19, JDawG_19, JingleBells_19, KandZ_18, Karate_19, Kate_20, Kors_21, Krampus_20, LordBart_21, Mopey_18, MortySmith_18, NarutoRun_20, Neptune_20, Nova_18, OhDear_20, OverHedge_20, PBI1_19, PLOT_19, Penelope2018_18, Phalaborwa_18, Pharpay_20, PhunaPhoke_20, Potty_20, Poultruss_19, Prager_18, Rachella_20, Rie18_20, RikSengupta_21, SilentWarrior_19, SirHarley_17, Snakehole_21, Sparcetus_21, SuperheroCarly_18, Tedro_20, Thoth_18, TinyMiny_21, Tongui_19, Troll4_18, Visconti_18, WaldoWhy_19,

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

-

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

-

Summary by start number:

Start 1:

- Found in 69 of 69 (100.0%) of genes in pham
- Manual Annotations of this start: 64 of 64
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_19 (D1), Aesir_19 (EF), Ajin_21 (EF), Anakin_20 (EF), AnnaSerena_20 (EF), Annapurna_19 (EF), Artiphact_20 (EF), BigMama_16 (D1), Bramble_21 (EF), Butterscotch_18 (D1), Chill_19 (D1), Chivey_19 (EF), CoolCookie_20 (EF), Crestdrop_19 (EF), Cybele_20 (EF), DannyDe_19 (EF), Dauntless_19 (EF), Delton_18 (D1), Erk16_18 (D1), Erudite_19 (EF), FountainFog_19 (EF), FreddieHg_19 (EF), Gilda_20 (EF), Giuseppe_18 (D1), Gumball_17 (D1), Hager_21 (EF), Haunter_20 (EF), Hawkeye_20 (D2), Helpful_19 (D1), Hiddenleaf_19 (EF), JDawG_19 (EF), JingleBells_19 (EF), KandZ_18 (D1), Karate_19 (EF), Kate_20 (EF), Kors_21 (EF), Krampus_20 (EF), LordBart_21 (EF), Mopey_18 (D1), MortySmith_18 (EF), NarutoRun_20 (EF), Neptune_20 (EF), Nova_18 (D1), OhDear_20 (EF), OverHedge_20 (EF), PBI1_19 (D1), PLOT_19 (D1), Penelope2018_18 (D1), Phalaborwa_18 (D1), Pharpay_20 (EF), PhunaPhoke_20 (EF), Potty_20 (EF), Poultruss_19 (EF), Prager_18 (D1), Rachella_20 (EF), Rie18_20 (EF), RikSengupta_21 (EF), SilentWarrior_19 (EF), SirHarley_17 (D1), Snakehole_21 (EF), Sparcetus_21 (EF), SuperheroCarly_18 (D1), Tedro_20 (EF), Thoth_18 (D1), TinyMiny_21 (EF), Tongui_19 (EF), Troll4_18 (D1), Visconti_18 (D1), WaldoWhy_19 (D1),

Summary by clusters:

There are 3 clusters represented in this pham: EF, D2, D1,

Info for manual annotations of cluster D1:

- Start number 1 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 1 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 41 times for cluster EF.

Gene Information:

Gene: Adjutor_19 Start: 12400, Stop: 12732, Start Num: 1

Candidate Starts for Adjutor_19:

(Start: 1 @12400 has 64 MA's), (4, 12517), (6, 12538), (8, 12568), (11, 12619), (12, 12628), (14, 12694),

Gene: Aesir_19 Start: 11130, Stop: 11438, Start Num: 1

Candidate Starts for Aesir_19:
(Start: 1 @11130 has 64 MA's), (3, 11181), (13, 11385),

Gene: Ajin_21 Start: 11286, Stop: 11603, Start Num: 1
Candidate Starts for Ajin_21:
(Start: 1 @11286 has 64 MA's), (2, 11322), (5, 11421), (7, 11445), (9, 11490), (10, 11499),

Gene: Anakin_20 Start: 11340, Stop: 11648, Start Num: 1
Candidate Starts for Anakin_20:
(Start: 1 @11340 has 64 MA's), (3, 11391), (13, 11595),

Gene: AnnaSerena_20 Start: 11349, Stop: 11657, Start Num: 1
Candidate Starts for AnnaSerena_20:
(Start: 1 @11349 has 64 MA's), (3, 11400), (13, 11604),

Gene: Annapurna_19 Start: 10549, Stop: 10857, Start Num: 1
Candidate Starts for Annapurna_19:
(Start: 1 @10549 has 64 MA's), (3, 10600), (13, 10804),

Gene: Artiphact_20 Start: 11341, Stop: 11649, Start Num: 1
Candidate Starts for Artiphact_20:
(Start: 1 @11341 has 64 MA's), (3, 11392), (13, 11596),

Gene: BigMama_16 Start: 12476, Stop: 12808, Start Num: 1
Candidate Starts for BigMama_16:
(Start: 1 @12476 has 64 MA's), (4, 12593), (6, 12614), (8, 12644), (11, 12695), (12, 12704), (14, 12770),

Gene: Bramble_21 Start: 11251, Stop: 11568, Start Num: 1
Candidate Starts for Bramble_21:
(Start: 1 @11251 has 64 MA's), (2, 11287), (5, 11386), (7, 11410), (9, 11455), (10, 11464),

Gene: Butterscotch_18 Start: 12460, Stop: 12792, Start Num: 1
Candidate Starts for Butterscotch_18:
(Start: 1 @12460 has 64 MA's), (4, 12577), (6, 12598), (8, 12628), (11, 12679), (12, 12688), (14, 12754),

Gene: Chill_19 Start: 12466, Stop: 12798, Start Num: 1
Candidate Starts for Chill_19:
(Start: 1 @12466 has 64 MA's), (4, 12583), (6, 12604), (8, 12634), (11, 12685), (12, 12694), (14, 12760),

Gene: Chivey_19 Start: 10542, Stop: 10850, Start Num: 1
Candidate Starts for Chivey_19:
(Start: 1 @10542 has 64 MA's), (3, 10593), (13, 10797),

Gene: CoolCookie_20 Start: 11347, Stop: 11655, Start Num: 1
Candidate Starts for CoolCookie_20:
(Start: 1 @11347 has 64 MA's), (3, 11398), (13, 11602),

Gene: Crestdrop_19 Start: 10416, Stop: 10724, Start Num: 1
Candidate Starts for Crestdrop_19:
(Start: 1 @10416 has 64 MA's), (3, 10467), (13, 10671),

Gene: Cybele_20 Start: 11317, Stop: 11625, Start Num: 1

Candidate Starts for Cybele_20:

(Start: 1 @11317 has 64 MA's), (3, 11368), (13, 11572),

Gene: DannyDe_19 Start: 10534, Stop: 10842, Start Num: 1

Candidate Starts for DannyDe_19:

(Start: 1 @10534 has 64 MA's), (3, 10585), (13, 10789),

Gene: Dauntless_19 Start: 11059, Stop: 11367, Start Num: 1

Candidate Starts for Dauntless_19:

(Start: 1 @11059 has 64 MA's), (3, 11110), (13, 11314),

Gene: Delton_18 Start: 12472, Stop: 12804, Start Num: 1

Candidate Starts for Delton_18:

(Start: 1 @12472 has 64 MA's), (4, 12589), (6, 12610), (8, 12640), (11, 12691), (12, 12700), (14, 12766),

Gene: Erk16_18 Start: 12463, Stop: 12795, Start Num: 1

Candidate Starts for Erk16_18:

(Start: 1 @12463 has 64 MA's), (4, 12580), (6, 12601), (8, 12631), (11, 12682), (12, 12691), (14, 12757),

Gene: Erudite_19 Start: 11059, Stop: 11367, Start Num: 1

Candidate Starts for Erudite_19:

(Start: 1 @11059 has 64 MA's), (3, 11110), (13, 11314),

Gene: FountainFog_19 Start: 10668, Stop: 10976, Start Num: 1

Candidate Starts for FountainFog_19:

(Start: 1 @10668 has 64 MA's), (3, 10719),

Gene: FreddieHg_19 Start: 10558, Stop: 10866, Start Num: 1

Candidate Starts for FreddieHg_19:

(Start: 1 @10558 has 64 MA's), (3, 10609), (13, 10813),

Gene: Gilda_20 Start: 11341, Stop: 11649, Start Num: 1

Candidate Starts for Gilda_20:

(Start: 1 @11341 has 64 MA's), (3, 11392), (13, 11596),

Gene: Giuseppe_18 Start: 12452, Stop: 12784, Start Num: 1

Candidate Starts for Giuseppe_18:

(Start: 1 @12452 has 64 MA's), (4, 12569), (6, 12590), (8, 12620), (11, 12671), (12, 12680), (14, 12746),

Gene: Gumball_17 Start: 12410, Stop: 12742, Start Num: 1

Candidate Starts for Gumball_17:

(Start: 1 @12410 has 64 MA's), (4, 12527), (6, 12548), (8, 12578), (11, 12629), (12, 12638), (14, 12704),

Gene: Hager_21 Start: 10912, Stop: 11220, Start Num: 1

Candidate Starts for Hager_21:

(Start: 1 @10912 has 64 MA's), (3, 10963),

Gene: Haunter_20 Start: 10754, Stop: 11062, Start Num: 1

Candidate Starts for Haunter_20:

(Start: 1 @10754 has 64 MA's), (3, 10805), (13, 11009),

Gene: Hawkeye_20 Start: 12347, Stop: 12667, Start Num: 1

Candidate Starts for Hawkeye_20:

(Start: 1 @12347 has 64 MA's), (11, 12566),

Gene: Helpful_19 Start: 12460, Stop: 12792, Start Num: 1

Candidate Starts for Helpful_19:

(Start: 1 @12460 has 64 MA's), (4, 12577), (6, 12598), (8, 12628), (11, 12679), (12, 12688), (14, 12754),

Gene: Hiddenleaf_19 Start: 10542, Stop: 10850, Start Num: 1

Candidate Starts for Hiddenleaf_19:

(Start: 1 @10542 has 64 MA's), (3, 10593), (13, 10797),

Gene: JDawG_19 Start: 11124, Stop: 11432, Start Num: 1

Candidate Starts for JDawG_19:

(Start: 1 @11124 has 64 MA's), (3, 11175), (13, 11379),

Gene: JingleBells_19 Start: 10623, Stop: 10931, Start Num: 1

Candidate Starts for JingleBells_19:

(Start: 1 @10623 has 64 MA's), (3, 10674), (13, 10878),

Gene: KandZ_18 Start: 12560, Stop: 12892, Start Num: 1

Candidate Starts for KandZ_18:

(Start: 1 @12560 has 64 MA's), (4, 12677), (6, 12698), (8, 12728), (11, 12779), (12, 12788), (14, 12854),

Gene: Karate_19 Start: 10762, Stop: 11070, Start Num: 1

Candidate Starts for Karate_19:

(Start: 1 @10762 has 64 MA's), (3, 10813),

Gene: Kate_20 Start: 11349, Stop: 11657, Start Num: 1

Candidate Starts for Kate_20:

(Start: 1 @11349 has 64 MA's), (3, 11400), (13, 11604),

Gene: Kors_21 Start: 11332, Stop: 11649, Start Num: 1

Candidate Starts for Kors_21:

(Start: 1 @11332 has 64 MA's), (2, 11368), (5, 11467), (7, 11491), (9, 11536), (10, 11545),

Gene: Krampus_20 Start: 11347, Stop: 11655, Start Num: 1

Candidate Starts for Krampus_20:

(Start: 1 @11347 has 64 MA's), (3, 11398), (13, 11602),

Gene: LordBart_21 Start: 11248, Stop: 11565, Start Num: 1

Candidate Starts for LordBart_21:

(Start: 1 @11248 has 64 MA's), (2, 11284), (5, 11383), (7, 11407), (9, 11452), (10, 11461),

Gene: Mopey_18 Start: 12460, Stop: 12792, Start Num: 1

Candidate Starts for Mopey_18:

(Start: 1 @12460 has 64 MA's), (4, 12577), (6, 12598), (8, 12628), (11, 12679), (12, 12688), (14, 12754),

Gene: MortySmith_18 Start: 10521, Stop: 10829, Start Num: 1

Candidate Starts for MortySmith_18:

(Start: 1 @10521 has 64 MA's), (3, 10572), (13, 10776),

Gene: NarutoRun_20 Start: 11340, Stop: 11648, Start Num: 1

Candidate Starts for NarutoRun_20:

(Start: 1 @11340 has 64 MA's), (3, 11391), (13, 11595),

Gene: Neptune_20 Start: 11317, Stop: 11625, Start Num: 1

Candidate Starts for Neptune_20:

(Start: 1 @11317 has 64 MA's), (3, 11368), (13, 11572),

Gene: Nova_18 Start: 12887, Stop: 13219, Start Num: 1

Candidate Starts for Nova_18:

(Start: 1 @12887 has 64 MA's), (4, 13004), (6, 13025), (8, 13055), (11, 13106), (12, 13115), (14, 13181),

Gene: OhDear_20 Start: 11346, Stop: 11654, Start Num: 1

Candidate Starts for OhDear_20:

(Start: 1 @11346 has 64 MA's), (3, 11397), (13, 11601),

Gene: OverHedge_20 Start: 11314, Stop: 11622, Start Num: 1

Candidate Starts for OverHedge_20:

(Start: 1 @11314 has 64 MA's), (3, 11365), (13, 11569),

Gene: PBI1_19 Start: 12391, Stop: 12723, Start Num: 1

Candidate Starts for PBI1_19:

(Start: 1 @12391 has 64 MA's), (4, 12508), (6, 12529), (8, 12559), (11, 12610), (12, 12619), (14, 12685),

Gene: PLOT_19 Start: 12463, Stop: 12795, Start Num: 1

Candidate Starts for PLOT_19:

(Start: 1 @12463 has 64 MA's), (4, 12580), (6, 12601), (8, 12631), (11, 12682), (12, 12691), (14, 12757),

Gene: Penelope2018_18 Start: 12460, Stop: 12792, Start Num: 1

Candidate Starts for Penelope2018_18:

(Start: 1 @12460 has 64 MA's), (4, 12577), (6, 12598), (8, 12628), (11, 12679), (12, 12688), (14, 12754),

Gene: Phalaborwa_18 Start: 12493, Stop: 12825, Start Num: 1

Candidate Starts for Phalaborwa_18:

(Start: 1 @12493 has 64 MA's), (4, 12610), (6, 12631), (8, 12661), (11, 12712), (12, 12721), (14, 12787),

Gene: Pharpay_20 Start: 11362, Stop: 11670, Start Num: 1

Candidate Starts for Pharpay_20:

(Start: 1 @11362 has 64 MA's), (3, 11413), (13, 11617),

Gene: PhunaPhoke_20 Start: 11335, Stop: 11643, Start Num: 1

Candidate Starts for PhunaPhoke_20:
(Start: 1 @11335 has 64 MA's), (3, 11386), (13, 11590),

Gene: Potty_20 Start: 11340, Stop: 11648, Start Num: 1
Candidate Starts for Potty_20:
(Start: 1 @11340 has 64 MA's), (3, 11391), (13, 11595),

Gene: Poultress_19 Start: 11113, Stop: 11421, Start Num: 1
Candidate Starts for Poultress_19:
(Start: 1 @11113 has 64 MA's), (3, 11164), (13, 11368),

Gene: Prager_18 Start: 12472, Stop: 12804, Start Num: 1
Candidate Starts for Prager_18:
(Start: 1 @12472 has 64 MA's), (4, 12589), (6, 12610), (8, 12640), (11, 12691), (12, 12700), (14, 12766),

Gene: Rachella_20 Start: 11343, Stop: 11651, Start Num: 1
Candidate Starts for Rachella_20:
(Start: 1 @11343 has 64 MA's), (3, 11394), (13, 11598),

Gene: Rie18_20 Start: 10694, Stop: 11002, Start Num: 1
Candidate Starts for Rie18_20:
(Start: 1 @10694 has 64 MA's), (3, 10745),

Gene: RikSengupta_21 Start: 11369, Stop: 11686, Start Num: 1
Candidate Starts for RikSengupta_21:
(Start: 1 @11369 has 64 MA's), (2, 11405), (5, 11504), (7, 11528), (9, 11573), (10, 11582),

Gene: SilentWarrior_19 Start: 10550, Stop: 10858, Start Num: 1
Candidate Starts for SilentWarrior_19:
(Start: 1 @10550 has 64 MA's), (3, 10601), (13, 10805),

Gene: SirHarley_17 Start: 12392, Stop: 12724, Start Num: 1
Candidate Starts for SirHarley_17:
(Start: 1 @12392 has 64 MA's), (4, 12509), (6, 12530), (8, 12560), (11, 12611), (12, 12620), (14, 12686),

Gene: Snakehole_21 Start: 10639, Stop: 10947, Start Num: 1
Candidate Starts for Snakehole_21:
(Start: 1 @10639 has 64 MA's), (3, 10690), (13, 10894),

Gene: Sparcetus_21 Start: 11248, Stop: 11565, Start Num: 1
Candidate Starts for Sparcetus_21:
(Start: 1 @11248 has 64 MA's), (2, 11284), (5, 11383), (7, 11407), (9, 11452), (10, 11461),

Gene: SuperheroCarly_18 Start: 12322, Stop: 12654, Start Num: 1
Candidate Starts for SuperheroCarly_18:
(Start: 1 @12322 has 64 MA's), (4, 12439), (6, 12460), (8, 12490), (11, 12541), (12, 12550), (14, 12616),

Gene: Tedro_20 Start: 10813, Stop: 11121, Start Num: 1
Candidate Starts for Tedro_20:
(Start: 1 @10813 has 64 MA's), (3, 10864), (13, 11068),

Gene: Thoth_18 Start: 12457, Stop: 12789, Start Num: 1

Candidate Starts for Thoth_18:

(Start: 1 @12457 has 64 MA's), (4, 12574), (6, 12595), (8, 12625), (11, 12676), (12, 12685), (14, 12751),

Gene: TinyMiny_21 Start: 11267, Stop: 11584, Start Num: 1

Candidate Starts for TinyMiny_21:

(Start: 1 @11267 has 64 MA's), (2, 11303), (5, 11402), (7, 11426), (9, 11471), (10, 11480),

Gene: Tongui_19 Start: 10686, Stop: 10994, Start Num: 1

Candidate Starts for Tongui_19:

(Start: 1 @10686 has 64 MA's), (3, 10737),

Gene: Troll4_18 Start: 12461, Stop: 12793, Start Num: 1

Candidate Starts for Troll4_18:

(Start: 1 @12461 has 64 MA's), (4, 12578), (6, 12599), (8, 12629), (11, 12680), (12, 12689), (14, 12755),

Gene: Visconti_18 Start: 12470, Stop: 12802, Start Num: 1

Candidate Starts for Visconti_18:

(Start: 1 @12470 has 64 MA's), (4, 12587), (6, 12608), (8, 12638), (11, 12689), (12, 12698), (14, 12764),

Gene: WaldoWhy_19 Start: 12466, Stop: 12798, Start Num: 1

Candidate Starts for WaldoWhy_19:

(Start: 1 @12466 has 64 MA's), (4, 12583), (6, 12604), (8, 12634), (11, 12685), (12, 12694), (14, 12760),