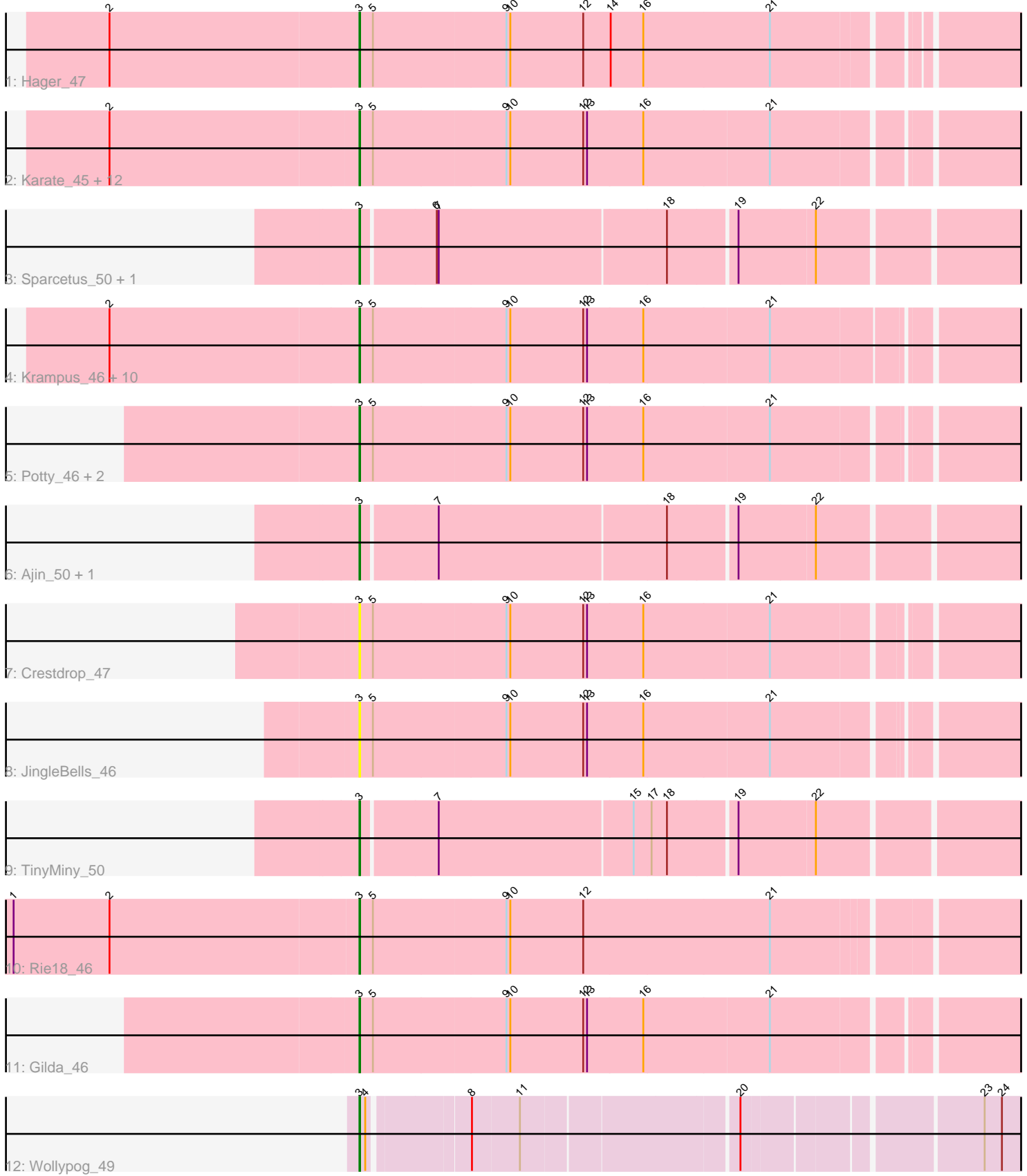


Pham 170129



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 170129 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170129 has 38 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Hager_47
- Track 2 : Karate_45, Aesir_45, Chivey_46, JDawG_45, DannyDe_46, Snakehole_46, Dauntless_46, MortySmith_44, Haunter_46, Tedro_46, Erudite_45, Hiddenleaf_46, FreddieHg_46
- Track 3 : Sparcetus_50, RikSengupta_50
- Track 4 : Krampus_46, Pharpay_46, Anakin_46, Rachella_46, Poultruss_46, Neptune_46, NarutoRun_46, Cybele_46, OverHedge_46, Kate_47, AnnaSerena_46
- Track 5 : Potty_46, PhunaPhoke_46, CoolCookie_51
- Track 6 : Ajin_50, Kors_51
- Track 7 : Crestdrop_47
- Track 8 : JingleBells_46
- Track 9 : TinyMiny_50
- Track 10 : Rie18_46
- Track 11 : Gilda_46
- Track 12 : Wollypog_49

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 31 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_45, Ajin_50, Anakin_46, AnnaSerena_46, Chivey_46, CoolCookie_51, Crestdrop_47, Cybele_46, DannyDe_46, Dauntless_46, Erudite_45, FreddieHg_46, Gilda_46, Hager_47, Haunter_46, Hiddenleaf_46, JDawG_45, JingleBells_46, Karate_45, Kate_47, Kors_51, Krampus_46, MortySmith_44, NarutoRun_46, Neptune_46, OverHedge_46, Pharpay_46, PhunaPhoke_46, Potty_46, Poultruss_46, Rachella_46, Rie18_46, RikSengupta_50, Snakehole_46, Sparcetus_50, Tedro_46, TinyMiny_50, Wollypog_49,

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 3:

- Found in 38 of 38 (100.0%) of genes in pham
- Manual Annotations of this start: 31 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_45 (EF), Ajin_50 (EF), Anakin_46 (EF), AnnaSerena_46 (EF), Chivey_46 (EF), CoolCookie_51 (EF), Crestdrop_47 (EF), Cybele_46 (EF), DannyDe_46 (EF), Dauntless_46 (EF), Erudite_45 (EF), FreddieHg_46 (EF), Gilda_46 (EF), Hager_47 (EF), Haunter_46 (EF), Hiddenleaf_46 (EF), JDawG_45 (EF), JingleBells_46 (EF), Karate_45 (EF), Kate_47 (EF), Kors_51 (EF), Krampus_46 (EF), MortySmith_44 (EF), NarutoRun_46 (EF), Neptune_46 (EF), OverHedge_46 (EF), Pharpay_46 (EF), PhunaPhoke_46 (EF), Potty_46 (EF), Poultruss_46 (EF), Rachella_46 (EF), Rie18_46 (EF), RikSengupta_50 (EF), Snakehole_46 (EF), Sparcetus_50 (EF), Tedro_46 (EF), TinyMiny_50 (EF), Wollypog_49 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, EF,

Info for manual annotations of cluster EF:

- Start number 3 was manually annotated 30 times for cluster EF.

Gene Information:

Gene: Aesir_45 Start: 30636, Stop: 31667, Start Num: 3

Candidate Starts for Aesir_45:

(2, 30252), (Start: 3 @30636 has 31 MA's), (5, 30657), (9, 30861), (10, 30867), (12, 30981), (13, 30987), (16, 31074), (21, 31266),

Gene: Ajin_50 Start: 31955, Stop: 32980, Start Num: 3

Candidate Starts for Ajin_50:

(Start: 3 @31955 has 31 MA's), (7, 32069), (18, 32417), (19, 32519), (22, 32636),

Gene: Anakin_46 Start: 30992, Stop: 32026, Start Num: 3

Candidate Starts for Anakin_46:

(2, 30605), (Start: 3 @30992 has 31 MA's), (5, 31013), (9, 31217), (10, 31223), (12, 31337), (13, 31343), (16, 31430), (21, 31622),

Gene: AnnaSerena_46 Start: 31027, Stop: 32061, Start Num: 3

Candidate Starts for AnnaSerena_46:

(2, 30640), (Start: 3 @31027 has 31 MA's), (5, 31048), (9, 31252), (10, 31258), (12, 31372), (13, 31378), (16, 31465), (21, 31657),

Gene: Chivey_46 Start: 30214, Stop: 31257, Start Num: 3

Candidate Starts for Chivey_46:

(2, 29830), (Start: 3 @30214 has 31 MA's), (5, 30235), (9, 30439), (10, 30445), (12, 30559), (13, 30565), (16, 30652), (21, 30844),

Gene: CoolCookie_51 Start: 31022, Stop: 32053, Start Num: 3

Candidate Starts for CoolCookie_51:

(Start: 3 @31022 has 31 MA's), (5, 31043), (9, 31247), (10, 31253), (12, 31367), (13, 31373), (16, 31460), (21, 31652),

Gene: Crestdrop_47 Start: 30245, Stop: 31276, Start Num: 3

Candidate Starts for Crestdrop_47:

(Start: 3 @30245 has 31 MA's), (5, 30266), (9, 30470), (10, 30476), (12, 30590), (13, 30596), (16, 30683), (21, 30875),

Gene: Cybele_46 Start: 30992, Stop: 32026, Start Num: 3

Candidate Starts for Cybele_46:

(2, 30605), (Start: 3 @30992 has 31 MA's), (5, 31013), (9, 31217), (10, 31223), (12, 31337), (13, 31343), (16, 31430), (21, 31622),

Gene: DannyDe_46 Start: 30220, Stop: 31251, Start Num: 3

Candidate Starts for DannyDe_46:

(2, 29836), (Start: 3 @30220 has 31 MA's), (5, 30241), (9, 30445), (10, 30451), (12, 30565), (13, 30571), (16, 30658), (21, 30850),

Gene: Dauntless_46 Start: 30572, Stop: 31603, Start Num: 3

Candidate Starts for Dauntless_46:

(2, 30188), (Start: 3 @30572 has 31 MA's), (5, 30593), (9, 30797), (10, 30803), (12, 30917), (13, 30923), (16, 31010), (21, 31202),

Gene: Erudite_45 Start: 30572, Stop: 31603, Start Num: 3

Candidate Starts for Erudite_45:

(2, 30188), (Start: 3 @30572 has 31 MA's), (5, 30593), (9, 30797), (10, 30803), (12, 30917), (13, 30923), (16, 31010), (21, 31202),

Gene: FreddieHg_46 Start: 30230, Stop: 31267, Start Num: 3

Candidate Starts for FreddieHg_46:

(2, 29846), (Start: 3 @30230 has 31 MA's), (5, 30251), (9, 30455), (10, 30461), (12, 30575), (13, 30581), (16, 30668), (21, 30860),

Gene: Gilda_46 Start: 31013, Stop: 32047, Start Num: 3

Candidate Starts for Gilda_46:

(Start: 3 @31013 has 31 MA's), (5, 31034), (9, 31238), (10, 31244), (12, 31358), (13, 31364), (16, 31451), (21, 31643),

Gene: Hager_47 Start: 30441, Stop: 31469, Start Num: 3

Candidate Starts for Hager_47:

(2, 30054), (Start: 3 @30441 has 31 MA's), (5, 30462), (9, 30666), (10, 30672), (12, 30786), (14, 30828), (16, 30879), (21, 31074),

Gene: Haunter_46 Start: 30396, Stop: 31430, Start Num: 3

Candidate Starts for Haunter_46:

(2, 30012), (Start: 3 @30396 has 31 MA's), (5, 30417), (9, 30621), (10, 30627), (12, 30741), (13, 30747), (16, 30834), (21, 31026),

Gene: Hiddenleaf_46 Start: 30214, Stop: 31257, Start Num: 3

Candidate Starts for Hiddenleaf_46:

(2, 29830), (Start: 3 @30214 has 31 MA's), (5, 30235), (9, 30439), (10, 30445), (12, 30559), (13, 30565), (16, 30652), (21, 30844),

Gene: JDawG_45 Start: 30631, Stop: 31662, Start Num: 3

Candidate Starts for JDawG_45:

(2, 30247), (Start: 3 @30631 has 31 MA's), (5, 30652), (9, 30856), (10, 30862), (12, 30976), (13, 30982), (16, 31069), (21, 31261),

Gene: JingleBells_46 Start: 30365, Stop: 31393, Start Num: 3

Candidate Starts for JingleBells_46:

(Start: 3 @30365 has 31 MA's), (5, 30386), (9, 30590), (10, 30596), (12, 30710), (13, 30716), (16, 30803), (21, 30995),

Gene: Karate_45 Start: 31014, Stop: 32048, Start Num: 3

Candidate Starts for Karate_45:

(2, 30630), (Start: 3 @31014 has 31 MA's), (5, 31035), (9, 31239), (10, 31245), (12, 31359), (13, 31365), (16, 31452), (21, 31644),

Gene: Kate_47 Start: 31024, Stop: 32058, Start Num: 3

Candidate Starts for Kate_47:

(2, 30637), (Start: 3 @31024 has 31 MA's), (5, 31045), (9, 31249), (10, 31255), (12, 31369), (13, 31375), (16, 31462), (21, 31654),

Gene: Kors_51 Start: 32032, Stop: 33069, Start Num: 3

Candidate Starts for Kors_51:

(Start: 3 @32032 has 31 MA's), (7, 32146), (18, 32494), (19, 32596), (22, 32713),

Gene: Krampus_46 Start: 31024, Stop: 32061, Start Num: 3

Candidate Starts for Krampus_46:

(2, 30637), (Start: 3 @31024 has 31 MA's), (5, 31045), (9, 31249), (10, 31255), (12, 31369), (13, 31375), (16, 31462), (21, 31654),

Gene: MortySmith_44 Start: 30049, Stop: 31080, Start Num: 3

Candidate Starts for MortySmith_44:

(2, 29665), (Start: 3 @30049 has 31 MA's), (5, 30070), (9, 30274), (10, 30280), (12, 30394), (13, 30400), (16, 30487), (21, 30679),

Gene: NarutoRun_46 Start: 30992, Stop: 32026, Start Num: 3

Candidate Starts for NarutoRun_46:

(2, 30605), (Start: 3 @30992 has 31 MA's), (5, 31013), (9, 31217), (10, 31223), (12, 31337), (13, 31343), (16, 31430), (21, 31622),

Gene: Neptune_46 Start: 30992, Stop: 32026, Start Num: 3

Candidate Starts for Neptune_46:

(2, 30605), (Start: 3 @30992 has 31 MA's), (5, 31013), (9, 31217), (10, 31223), (12, 31337), (13, 31343), (16, 31430), (21, 31622),

Gene: OverHedge_46 Start: 30982, Stop: 32016, Start Num: 3

Candidate Starts for OverHedge_46:

(2, 30595), (Start: 3 @30982 has 31 MA's), (5, 31003), (9, 31207), (10, 31213), (12, 31327), (13, 31333), (16, 31420), (21, 31612),

Gene: Pharpay_46 Start: 31037, Stop: 32071, Start Num: 3

Candidate Starts for Pharpay_46:

(2, 30650), (Start: 3 @31037 has 31 MA's), (5, 31058), (9, 31262), (10, 31268), (12, 31382), (13, 31388), (16, 31475), (21, 31667),

Gene: PhunaPhoke_46 Start: 31010, Stop: 32041, Start Num: 3

Candidate Starts for PhunaPhoke_46:

(Start: 3 @31010 has 31 MA's), (5, 31031), (9, 31235), (10, 31241), (12, 31355), (13, 31361), (16, 31448), (21, 31640),

Gene: Potty_46 Start: 31015, Stop: 32046, Start Num: 3

Candidate Starts for Potty_46:

(Start: 3 @31015 has 31 MA's), (5, 31036), (9, 31240), (10, 31246), (12, 31360), (13, 31366), (16, 31453), (21, 31645),

Gene: Poultress_46 Start: 31330, Stop: 32364, Start Num: 3

Candidate Starts for Poultress_46:

(2, 30943), (Start: 3 @31330 has 31 MA's), (5, 31351), (9, 31555), (10, 31561), (12, 31675), (13, 31681), (16, 31768), (21, 31960),

Gene: Rachella_46 Start: 31018, Stop: 32052, Start Num: 3

Candidate Starts for Rachella_46:

(2, 30631), (Start: 3 @31018 has 31 MA's), (5, 31039), (9, 31243), (10, 31249), (12, 31363), (13, 31369), (16, 31456), (21, 31648),

Gene: Rie18_46 Start: 30512, Stop: 31552, Start Num: 3

Candidate Starts for Rie18_46:

(1, 29978), (2, 30128), (Start: 3 @30512 has 31 MA's), (5, 30533), (9, 30737), (10, 30743), (12, 30857), (21, 31145),

Gene: RikSengupta_50 Start: 32069, Stop: 33094, Start Num: 3

Candidate Starts for RikSengupta_50:

(Start: 3 @32069 has 31 MA's), (6, 32180), (7, 32183), (18, 32531), (19, 32633), (22, 32750),

Gene: Snakehole_46 Start: 30192, Stop: 31235, Start Num: 3

Candidate Starts for Snakehole_46:

(2, 29808), (Start: 3 @30192 has 31 MA's), (5, 30213), (9, 30417), (10, 30423), (12, 30537), (13, 30543), (16, 30630), (21, 30822),

Gene: Sparcetus_50 Start: 31946, Stop: 32971, Start Num: 3

Candidate Starts for Sparcetus_50:

(Start: 3 @31946 has 31 MA's), (6, 32057), (7, 32060), (18, 32408), (19, 32510), (22, 32627),

Gene: Tedro_46 Start: 30446, Stop: 31486, Start Num: 3

Candidate Starts for Tedro_46:

(2, 30062), (Start: 3 @30446 has 31 MA's), (5, 30467), (9, 30671), (10, 30677), (12, 30791), (13, 30797), (16, 30884), (21, 31076),

Gene: TinyMiny_50 Start: 31967, Stop: 32992, Start Num: 3

Candidate Starts for TinyMiny_50:

(Start: 3 @31967 has 31 MA's), (7, 32081), (15, 32378), (17, 32405), (18, 32429), (19, 32531), (22, 32648),

Gene: Wollypog_49 Start: 35619, Stop: 36602, Start Num: 3

Candidate Starts for Wollypog_49:

(Start: 3 @35619 has 31 MA's), (4, 35628), (8, 35772), (11, 35844), (20, 36162), (23, 36501), (24, 36528),