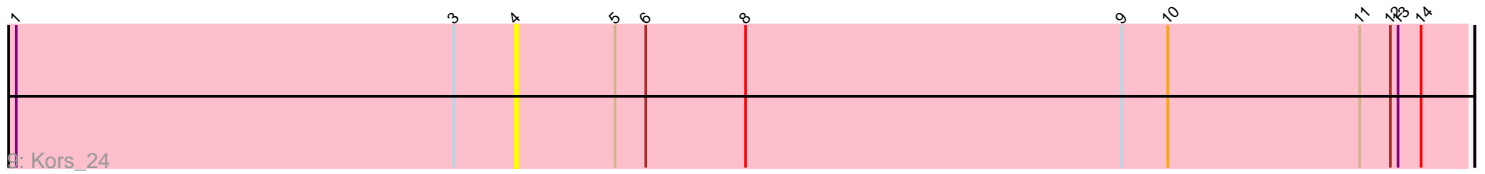
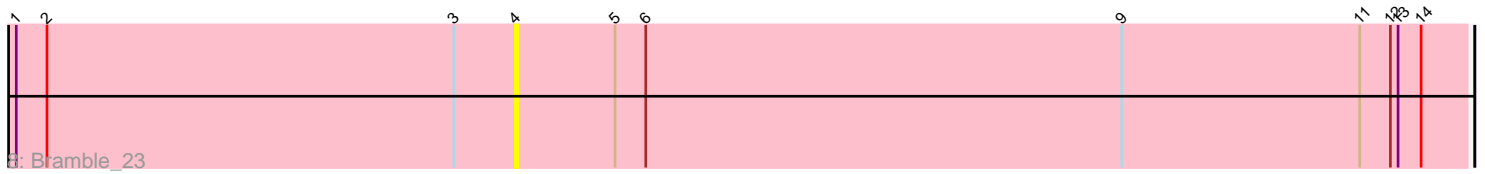
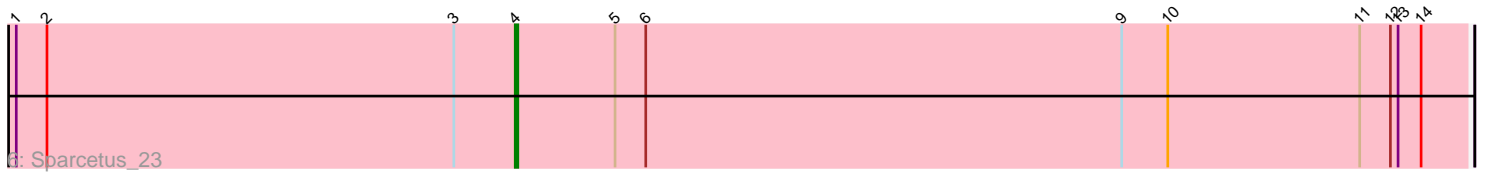
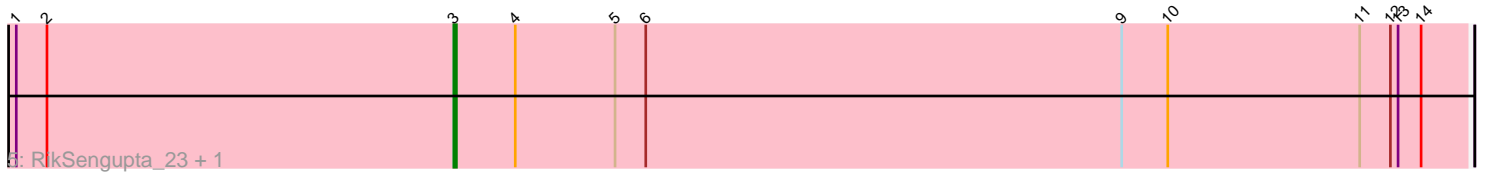
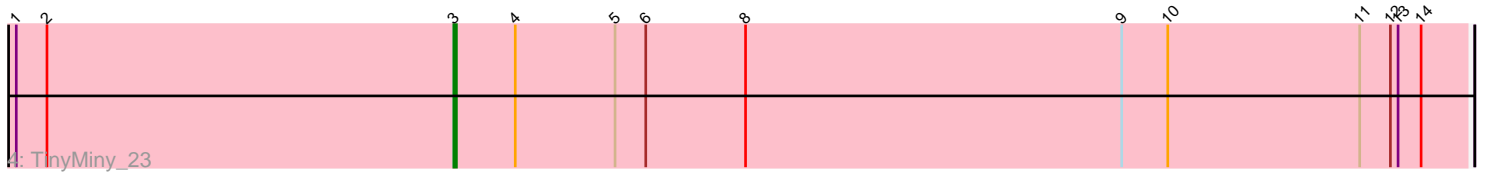
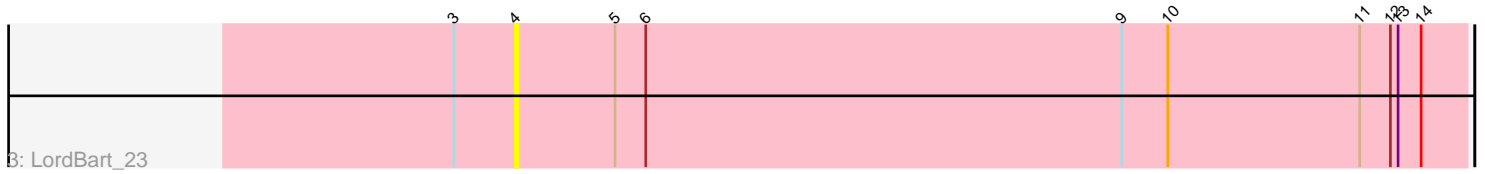
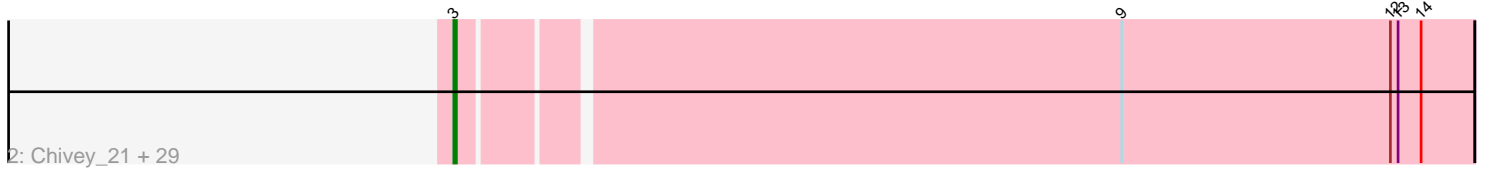
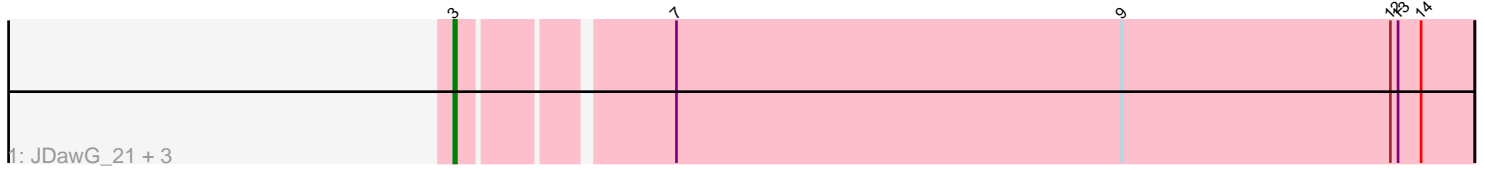


Pham 221556



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 221556 Report

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

Pham number 221556 has 43 members, 8 are drafts.

Phages represented in each track:

- Track 1 : JDawG_21, Crestdrop_21, Rie18_22, Hager_23
- Track 2 : Chivey_21, MortySmith_20, Anakin_22, Karate_21, SilentWarrior_21, Aesir_21, Hiddenleaf_21, Potty_22, Rachella_22, Dauntless_21, DannyDe_21, Poultruss_21, Haunter_22, Artiphact_22, Krampus_22, Tedro_22, JingleBells_21, Neptune_22, PhunaPhoke_22, Cybele_22, Kate_22, AnnaSerena_22, OverHedge_22, CoolCookie_22, Erudite_21, Snakehole_23, Pharpay_22, NarutoRun_22, FreddieHg_21, Gilda_22
- Track 3 : LordBart_23
- Track 4 : TinyMiny_23
- Track 5 : RikSengupta_23, Ajin_23
- Track 6 : Sparcetus_23
- Track 7 : Tongui_22, Annapurna_22
- Track 8 : Bramble_23
- Track 9 : Kors_24

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 34 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_21, Ajin_23, Anakin_22, AnnaSerena_22, Artiphact_22, Chivey_21, CoolCookie_22, Crestdrop_21, Cybele_22, DannyDe_21, Dauntless_21, Erudite_21, FreddieHg_21, Gilda_22, Hager_23, Haunter_22, Hiddenleaf_21, JDawG_21, JingleBells_21, Karate_21, Kate_22, Krampus_22, MortySmith_20, NarutoRun_22, Neptune_22, OverHedge_22, Pharpay_22, PhunaPhoke_22, Potty_22, Poultruss_21, Rachella_22, Rie18_22, RikSengupta_23, SilentWarrior_21, Snakehole_23, Tedro_22, TinyMiny_23,

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

- Annapurna_22, Bramble_23, Kors_24, LordBart_23, Sparcetus_23, Tongui_22,

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

-

Summary by start number:

Start 3:

- Found in 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 34 of 35
- Called 86.0% of time when present
- Phage (with cluster) where this start called: Aesir_21 (EF), Ajin_23 (EF), Anakin_22 (EF), AnnaSerena_22 (EF), Artiphact_22 (EF), Chivey_21 (EF), CoolCookie_22 (EF), Crestdrop_21 (EF), Cybele_22 (EF), DannyDe_21 (EF), Dauntless_21 (EF), Erudite_21 (EF), FreddieHg_21 (EF), Gilda_22 (EF), Hager_23 (EF), Haunter_22 (EF), Hiddenleaf_21 (EF), JDawG_21 (EF), JingleBells_21 (EF), Karate_21 (EF), Kate_22 (EF), Krampus_22 (EF), MortySmith_20 (EF), NarutoRun_22 (EF), Neptune_22 (EF), OverHedge_22 (EF), Pharpay_22 (EF), PhunaPhoke_22 (EF), Potty_22 (EF), Poultruss_21 (EF), Rachella_22 (EF), Rie18_22 (EF), RikSengupta_23 (EF), SilentWarrior_21 (EF), Snakehole_23 (EF), Tedro_22 (EF), TinyMiny_23 (EF),

Start 4:

- Found in 7 of 43 (16.3%) of genes in pham
- Manual Annotations of this start: 1 of 35
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Bramble_23 (EF), Kors_24 (EF), LordBart_23 (EF), Sparcetus_23 (EF),

Start 7:

- Found in 6 of 43 (14.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Annapurna_22 (EF), Tongui_22 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 3 was manually annotated 34 times for cluster EF.
- Start number 4 was manually annotated 1 time for cluster EF.

Gene Information:

Gene: Aesir_21 Start: 11798, Stop: 12184, Start Num: 3

Candidate Starts for Aesir_21:

(Start: 3 @11798 has 34 MA's), (9, 12047), (12, 12152), (13, 12155), (14, 12164),

Gene: Ajin_23 Start: 11984, Stop: 12379, Start Num: 3

Candidate Starts for Ajin_23:

(1, 11813), (2, 11825), (Start: 3 @11984 has 34 MA's), (Start: 4 @12008 has 1 MA's), (5, 12047), (6, 12059), (9, 12245), (10, 12263), (11, 12338), (12, 12350), (13, 12353), (14, 12362),

Gene: Anakin_22 Start: 12008, Stop: 12394, Start Num: 3

Candidate Starts for Anakin_22:

(Start: 3 @12008 has 34 MA's), (9, 12257), (12, 12362), (13, 12365), (14, 12374),

Gene: AnnaSerena_22 Start: 12017, Stop: 12403, Start Num: 3

Candidate Starts for AnnaSerena_22:

(Start: 3 @12017 has 34 MA's), (9, 12266), (12, 12371), (13, 12374), (14, 12383),

Gene: Annapurna_22 Start: 11292, Stop: 11603, Start Num: 7

Candidate Starts for Annapurna_22:

(Start: 3 @11217 has 34 MA's), (7, 11292), (9, 11466), (12, 11571), (13, 11574), (14, 11583),

Gene: Artiphact_22 Start: 12009, Stop: 12395, Start Num: 3

Candidate Starts for Artiphact_22:

(Start: 3 @12009 has 34 MA's), (9, 12258), (12, 12363), (13, 12366), (14, 12375),

Gene: Bramble_23 Start: 11973, Stop: 12344, Start Num: 4

Candidate Starts for Bramble_23:

(1, 11778), (2, 11790), (Start: 3 @11949 has 34 MA's), (Start: 4 @11973 has 1 MA's), (5, 12012), (6, 12024), (9, 12210), (11, 12303), (12, 12315), (13, 12318), (14, 12327),

Gene: Chivey_21 Start: 11210, Stop: 11596, Start Num: 3

Candidate Starts for Chivey_21:

(Start: 3 @11210 has 34 MA's), (9, 11459), (12, 11564), (13, 11567), (14, 11576),

Gene: CoolCookie_22 Start: 12015, Stop: 12401, Start Num: 3

Candidate Starts for CoolCookie_22:

(Start: 3 @12015 has 34 MA's), (9, 12264), (12, 12369), (13, 12372), (14, 12381),

Gene: Crestdrop_21 Start: 11084, Stop: 11470, Start Num: 3

Candidate Starts for Crestdrop_21:

(Start: 3 @11084 has 34 MA's), (7, 11159), (9, 11333), (12, 11438), (13, 11441), (14, 11450),

Gene: Cybele_22 Start: 11985, Stop: 12371, Start Num: 3

Candidate Starts for Cybele_22:

(Start: 3 @11985 has 34 MA's), (9, 12234), (12, 12339), (13, 12342), (14, 12351),

Gene: DannyDe_21 Start: 11202, Stop: 11588, Start Num: 3

Candidate Starts for DannyDe_21:

(Start: 3 @11202 has 34 MA's), (9, 11451), (12, 11556), (13, 11559), (14, 11568),

Gene: Dauntless_21 Start: 11727, Stop: 12113, Start Num: 3

Candidate Starts for Dauntless_21:

(Start: 3 @11727 has 34 MA's), (9, 11976), (12, 12081), (13, 12084), (14, 12093),

Gene: Erudite_21 Start: 11727, Stop: 12113, Start Num: 3

Candidate Starts for Erudite_21:

(Start: 3 @11727 has 34 MA's), (9, 11976), (12, 12081), (13, 12084), (14, 12093),

Gene: FreddieHg_21 Start: 11226, Stop: 11612, Start Num: 3

Candidate Starts for FreddieHg_21:

(Start: 3 @11226 has 34 MA's), (9, 11475), (12, 11580), (13, 11583), (14, 11592),

Gene: Gilda_22 Start: 12009, Stop: 12395, Start Num: 3

Candidate Starts for Gilda_22:

(Start: 3 @12009 has 34 MA's), (9, 12258), (12, 12363), (13, 12366), (14, 12375),

Gene: Hager_23 Start: 11580, Stop: 11966, Start Num: 3

Candidate Starts for Hager_23:

(Start: 3 @11580 has 34 MA's), (7, 11655), (9, 11829), (12, 11934), (13, 11937), (14, 11946),

Gene: Haunter_22 Start: 11422, Stop: 11808, Start Num: 3

Candidate Starts for Haunter_22:

(Start: 3 @11422 has 34 MA's), (9, 11671), (12, 11776), (13, 11779), (14, 11788),

Gene: Hiddenleaf_21 Start: 11210, Stop: 11596, Start Num: 3

Candidate Starts for Hiddenleaf_21:

(Start: 3 @11210 has 34 MA's), (9, 11459), (12, 11564), (13, 11567), (14, 11576),

Gene: JDawG_21 Start: 11792, Stop: 12178, Start Num: 3

Candidate Starts for JDawG_21:

(Start: 3 @11792 has 34 MA's), (7, 11867), (9, 12041), (12, 12146), (13, 12149), (14, 12158),

Gene: JingleBells_21 Start: 11291, Stop: 11677, Start Num: 3

Candidate Starts for JingleBells_21:

(Start: 3 @11291 has 34 MA's), (9, 11540), (12, 11645), (13, 11648), (14, 11657),

Gene: Karate_21 Start: 11430, Stop: 11816, Start Num: 3

Candidate Starts for Karate_21:

(Start: 3 @11430 has 34 MA's), (9, 11679), (12, 11784), (13, 11787), (14, 11796),

Gene: Kate_22 Start: 12017, Stop: 12403, Start Num: 3

Candidate Starts for Kate_22:

(Start: 3 @12017 has 34 MA's), (9, 12266), (12, 12371), (13, 12374), (14, 12383),

Gene: Kors_24 Start: 12054, Stop: 12425, Start Num: 4

Candidate Starts for Kors_24:

(1, 11859), (Start: 3 @12030 has 34 MA's), (Start: 4 @12054 has 1 MA's), (5, 12093), (6, 12105), (8, 12144), (9, 12291), (10, 12309), (11, 12384), (12, 12396), (13, 12399), (14, 12408),

Gene: Krampus_22 Start: 12015, Stop: 12401, Start Num: 3

Candidate Starts for Krampus_22:

(Start: 3 @12015 has 34 MA's), (9, 12264), (12, 12369), (13, 12372), (14, 12381),

Gene: LordBart_23 Start: 11970, Stop: 12341, Start Num: 4

Candidate Starts for LordBart_23:

(Start: 3 @11946 has 34 MA's), (Start: 4 @11970 has 1 MA's), (5, 12009), (6, 12021), (9, 12207), (10, 12225), (11, 12300), (12, 12312), (13, 12315), (14, 12324),

Gene: MortySmith_20 Start: 11189, Stop: 11575, Start Num: 3

Candidate Starts for MortySmith_20:

(Start: 3 @11189 has 34 MA's), (9, 11438), (12, 11543), (13, 11546), (14, 11555),

Gene: NarutoRun_22 Start: 12008, Stop: 12394, Start Num: 3

Candidate Starts for NarutoRun_22:

(Start: 3 @12008 has 34 MA's), (9, 12257), (12, 12362), (13, 12365), (14, 12374),

Gene: Neptune_22 Start: 11985, Stop: 12371, Start Num: 3
Candidate Starts for Neptune_22:
(Start: 3 @11985 has 34 MA's), (9, 12234), (12, 12339), (13, 12342), (14, 12351),

Gene: OverHedge_22 Start: 11982, Stop: 12368, Start Num: 3
Candidate Starts for OverHedge_22:
(Start: 3 @11982 has 34 MA's), (9, 12231), (12, 12336), (13, 12339), (14, 12348),

Gene: Pharpay_22 Start: 12030, Stop: 12416, Start Num: 3
Candidate Starts for Pharpay_22:
(Start: 3 @12030 has 34 MA's), (9, 12279), (12, 12384), (13, 12387), (14, 12396),

Gene: PhunaPhoke_22 Start: 12003, Stop: 12389, Start Num: 3
Candidate Starts for PhunaPhoke_22:
(Start: 3 @12003 has 34 MA's), (9, 12252), (12, 12357), (13, 12360), (14, 12369),

Gene: Potty_22 Start: 12008, Stop: 12394, Start Num: 3
Candidate Starts for Potty_22:
(Start: 3 @12008 has 34 MA's), (9, 12257), (12, 12362), (13, 12365), (14, 12374),

Gene: Poultruss_21 Start: 11781, Stop: 12167, Start Num: 3
Candidate Starts for Poultruss_21:
(Start: 3 @11781 has 34 MA's), (9, 12030), (12, 12135), (13, 12138), (14, 12147),

Gene: Rachella_22 Start: 12011, Stop: 12397, Start Num: 3
Candidate Starts for Rachella_22:
(Start: 3 @12011 has 34 MA's), (9, 12260), (12, 12365), (13, 12368), (14, 12377),

Gene: Rie18_22 Start: 11362, Stop: 11748, Start Num: 3
Candidate Starts for Rie18_22:
(Start: 3 @11362 has 34 MA's), (7, 11437), (9, 11611), (12, 11716), (13, 11719), (14, 11728),

Gene: RikSengupta_23 Start: 12067, Stop: 12462, Start Num: 3
Candidate Starts for RikSengupta_23:
(1, 11896), (2, 11908), (Start: 3 @12067 has 34 MA's), (Start: 4 @12091 has 1 MA's), (5, 12130), (6, 12142), (9, 12328), (10, 12346), (11, 12421), (12, 12433), (13, 12436), (14, 12445),

Gene: SilentWarrior_21 Start: 11218, Stop: 11604, Start Num: 3
Candidate Starts for SilentWarrior_21:
(Start: 3 @11218 has 34 MA's), (9, 11467), (12, 11572), (13, 11575), (14, 11584),

Gene: Snakehole_23 Start: 11307, Stop: 11693, Start Num: 3
Candidate Starts for Snakehole_23:
(Start: 3 @11307 has 34 MA's), (9, 11556), (12, 11661), (13, 11664), (14, 11673),

Gene: Sparcetus_23 Start: 11970, Stop: 12341, Start Num: 4
Candidate Starts for Sparcetus_23:
(1, 11775), (2, 11787), (Start: 3 @11946 has 34 MA's), (Start: 4 @11970 has 1 MA's), (5, 12009), (6, 12021), (9, 12207), (10, 12225), (11, 12300), (12, 12312), (13, 12315), (14, 12324),

Gene: Tedro_22 Start: 11481, Stop: 11867, Start Num: 3
Candidate Starts for Tedro_22:
(Start: 3 @11481 has 34 MA's), (9, 11730), (12, 11835), (13, 11838), (14, 11847),

Gene: TinyMiny_23 Start: 11965, Stop: 12360, Start Num: 3

Candidate Starts for TinyMiny_23:

(1, 11794), (2, 11806), (Start: 3 @11965 has 34 MA's), (Start: 4 @11989 has 1 MA's), (5, 12028), (6, 12040), (8, 12079), (9, 12226), (10, 12244), (11, 12319), (12, 12331), (13, 12334), (14, 12343),

Gene: Tongui_22 Start: 11429, Stop: 11740, Start Num: 7

Candidate Starts for Tongui_22:

(Start: 3 @11354 has 34 MA's), (7, 11429), (9, 11603), (12, 11708), (13, 11711), (14, 11720),