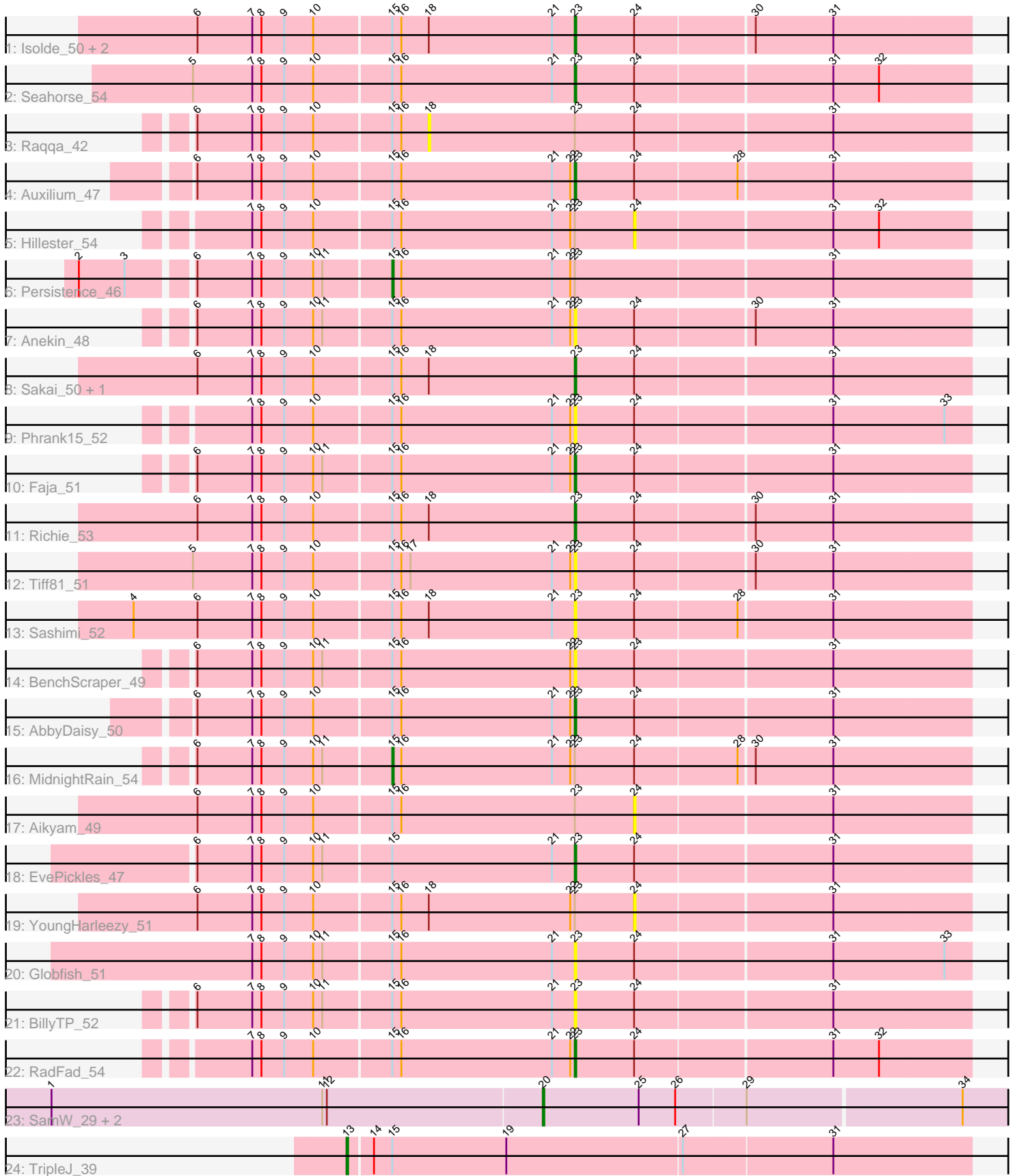


Pham 154924



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 154924 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154924 has 29 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Isolde_50, Raphaella_51, CookieBear_51
- Track 2 : Seahorse_54
- Track 3 : Raqqa_42
- Track 4 : Auxilium_47
- Track 5 : Hillester_54
- Track 6 : Persistence_46
- Track 7 : Anekin_48
- Track 8 : Sakai_50, Gorpy_51
- Track 9 : Phrank15_52
- Track 10 : Faja_51
- Track 11 : Richie_53
- Track 12 : Tiff81_51
- Track 13 : Sashimi_52
- Track 14 : BenchScraper_49
- Track 15 : AbbyDaisy_50
- Track 16 : MidnightRain_54
- Track 17 : Aikyam_49
- Track 18 : EvePickles_47
- Track 19 : YoungHarleezy_51
- Track 20 : Globfish_51
- Track 21 : BillyTP_52
- Track 22 : RadFad_54
- Track 23 : SamW_29, Lederberg_29, Troy_29
- Track 24 : TripleJ_39

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

The start number called the most often in the published annotations is 23, it was called in 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_50, Anekin_48, Auxilium_47, BenchScraper_49, BillyTP_52, CookieBear_51, EvePickles_47, Faja_51, Globfish_51, Gorpy_51, Isolde_50, Phrank15_52, RadFad_54, Raphaella_51, Richie_53, Sakai_50, Sashimi_52,

Seahorse_54, Tiff81_51,

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

- Aikyam_49, Hillester_54, MidnightRain_54, Persistence_46, Raqqa_42, YoungHarleezy_51,

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

- Lederberg_29, SamW_29, TripleJ_39, Troy_29,

Summary by start number:

Start 13:

- Found in 1 of 29 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TripleJ_39 (FJ),

Start 15:

- Found in 26 of 29 (89.7%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 7.7% of time when present
- Phage (with cluster) where this start called: MidnightRain_54 (AY), Persistence_46 (AY),

Start 18:

- Found in 9 of 29 (31.0%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Raqqa_42 (AY),

Start 20:

- Found in 3 of 29 (10.3%) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lederberg_29 (EP), SamW_29 (EP), Troy_29 (EP),

Start 23:

- Found in 25 of 29 (86.2%) of genes in pham
- Manual Annotations of this start: 10 of 16
- Called 76.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_50 (AY), Anekin_48 (AY), Auxilium_47 (AY), BenchScraper_49 (AY), BillyTP_52 (AY), CookieBear_51 (AY), EvePickles_47 (AY), Faja_51 (AY), Globfish_51 (AY), Gorpy_51 (AY), Isolde_50 (AY), Phrank15_52 (AY), RadFad_54 (AY), Raphaella_51 (AY), Richie_53 (AY), Sakai_50 (AY), Sashimi_52 (AY), Seahorse_54 (AY), Tiff81_51 (AY),

Start 24:

- Found in 24 of 29 (82.8%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Aikyam_49 (AY), Hillester_54 (AY), YoungHarleezy_51 (AY),

Summary by clusters:

There are 3 clusters represented in this pham: AY, FJ, EP,

Info for manual annotations of cluster AY:

- Start number 15 was manually annotated 2 times for cluster AY.
- Start number 23 was manually annotated 10 times for cluster AY.

Info for manual annotations of cluster EP:

- Start number 20 was manually annotated 3 times for cluster EP.

Info for manual annotations of cluster FJ:

- Start number 13 was manually annotated 1 time for cluster FJ.

Gene Information:

Gene: AbbyDaisy_50 Start: 31666, Stop: 31412, Start Num: 23

Candidate Starts for AbbyDaisy_50:

(6, 31909), (7, 31873), (8, 31867), (9, 31852), (10, 31834), (Start: 15 @31786 has 2 MA's), (16, 31780), (21, 31681), (22, 31669), (Start: 23 @31666 has 10 MA's), (24, 31627), (31, 31501),

Gene: Aikyam_49 Start: 29332, Stop: 29117, Start Num: 24

Candidate Starts for Aikyam_49:

(6, 29614), (7, 29578), (8, 29572), (9, 29557), (10, 29539), (Start: 15 @29491 has 2 MA's), (16, 29485), (Start: 23 @29371 has 10 MA's), (24, 29332), (31, 29206),

Gene: Anekin_48 Start: 30801, Stop: 30547, Start Num: 23

Candidate Starts for Anekin_48:

(6, 31044), (7, 31008), (8, 31002), (9, 30987), (10, 30969), (11, 30963), (Start: 15 @30921 has 2 MA's), (16, 30915), (21, 30816), (22, 30804), (Start: 23 @30801 has 10 MA's), (24, 30762), (30, 30687), (31, 30636),

Gene: Auxilium_47 Start: 28937, Stop: 28683, Start Num: 23

Candidate Starts for Auxilium_47:

(6, 29180), (7, 29144), (8, 29138), (9, 29123), (10, 29105), (Start: 15 @29057 has 2 MA's), (16, 29051), (21, 28952), (22, 28940), (Start: 23 @28937 has 10 MA's), (24, 28898), (28, 28832), (31, 28772),

Gene: BenchScraper_49 Start: 30687, Stop: 30433, Start Num: 23

Candidate Starts for BenchScraper_49:

(6, 30930), (7, 30894), (8, 30888), (9, 30873), (10, 30855), (11, 30849), (Start: 15 @30807 has 2 MA's), (16, 30801), (22, 30690), (Start: 23 @30687 has 10 MA's), (24, 30648), (31, 30522),

Gene: BillyTP_52 Start: 32558, Stop: 32304, Start Num: 23

Candidate Starts for BillyTP_52:

(6, 32801), (7, 32765), (8, 32759), (9, 32744), (10, 32726), (11, 32720), (Start: 15 @32678 has 2 MA's), (16, 32672), (21, 32573), (Start: 23 @32558 has 10 MA's), (24, 32519), (31, 32393),

Gene: CookieBear_51 Start: 31351, Stop: 31097, Start Num: 23

Candidate Starts for CookieBear_51:

(6, 31594), (7, 31558), (8, 31552), (9, 31537), (10, 31519), (Start: 15 @31471 has 2 MA's), (16, 31465), (18, 31447), (21, 31366), (Start: 23 @31351 has 10 MA's), (24, 31312), (30, 31237), (31, 31186),

Gene: EvePickles_47 Start: 31556, Stop: 31302, Start Num: 23

Candidate Starts for EvePickles_47:

(6, 31799), (7, 31763), (8, 31757), (9, 31742), (10, 31724), (11, 31718), (Start: 15 @31676 has 2 MA's), (21, 31571), (Start: 23 @31556 has 10 MA's), (24, 31517), (31, 31391),

Gene: Faja_51 Start: 32526, Stop: 32272, Start Num: 23

Candidate Starts for Faja_51:

(6, 32769), (7, 32733), (8, 32727), (9, 32712), (10, 32694), (11, 32688), (Start: 15 @32646 has 2 MA's), (16, 32640), (21, 32541), (22, 32529), (Start: 23 @32526 has 10 MA's), (24, 32487), (31, 32361),

Gene: Globfish_51 Start: 31449, Stop: 31195, Start Num: 23

Candidate Starts for Globfish_51:

(7, 31656), (8, 31650), (9, 31635), (10, 31617), (11, 31611), (Start: 15 @31569 has 2 MA's), (16, 31563), (21, 31464), (Start: 23 @31449 has 10 MA's), (24, 31410), (31, 31284), (33, 31212),

Gene: Gorpy_51 Start: 32343, Stop: 32089, Start Num: 23

Candidate Starts for Gorpy_51:

(6, 32586), (7, 32550), (8, 32544), (9, 32529), (10, 32511), (Start: 15 @32463 has 2 MA's), (16, 32457), (18, 32439), (Start: 23 @32343 has 10 MA's), (24, 32304), (31, 32178),

Gene: Hillester_54 Start: 32245, Stop: 32030, Start Num: 24

Candidate Starts for Hillester_54:

(7, 32491), (8, 32485), (9, 32470), (10, 32452), (Start: 15 @32404 has 2 MA's), (16, 32398), (21, 32299), (22, 32287), (Start: 23 @32284 has 10 MA's), (24, 32245), (31, 32119), (32, 32089),

Gene: Isolde_50 Start: 31020, Stop: 30766, Start Num: 23

Candidate Starts for Isolde_50:

(6, 31263), (7, 31227), (8, 31221), (9, 31206), (10, 31188), (Start: 15 @31140 has 2 MA's), (16, 31134), (18, 31116), (21, 31035), (Start: 23 @31020 has 10 MA's), (24, 30981), (30, 30906), (31, 30855),

Gene: Lederberg_29 Start: 26515, Stop: 26210, Start Num: 20

Candidate Starts for Lederberg_29:

(1, 26833), (11, 26656), (12, 26653), (Start: 20 @26515 has 3 MA's), (25, 26452), (26, 26428), (29, 26383), (34, 26248),

Gene: MidnightRain_54 Start: 32585, Stop: 32211, Start Num: 15

Candidate Starts for MidnightRain_54:

(6, 32708), (7, 32672), (8, 32666), (9, 32651), (10, 32633), (11, 32627), (Start: 15 @32585 has 2 MA's), (16, 32579), (21, 32480), (22, 32468), (Start: 23 @32465 has 10 MA's), (24, 32426), (28, 32360), (30, 32351), (31, 32300),

Gene: Persistence_46 Start: 30198, Stop: 29824, Start Num: 15

Candidate Starts for Persistence_46:

(2, 30387), (3, 30357), (6, 30321), (7, 30285), (8, 30279), (9, 30264), (10, 30246), (11, 30240), (Start: 15 @30198 has 2 MA's), (16, 30192), (21, 30093), (22, 30081), (Start: 23 @30078 has 10 MA's), (31, 29913),

Gene: Phrank15_52 Start: 31309, Stop: 31055, Start Num: 23

Candidate Starts for Phrank15_52:

(7, 31516), (8, 31510), (9, 31495), (10, 31477), (Start: 15 @31429 has 2 MA's), (16, 31423), (21, 31324), (22, 31312), (Start: 23 @31309 has 10 MA's), (24, 31270), (31, 31144), (33, 31072),

Gene: RadFad_54 Start: 32284, Stop: 32030, Start Num: 23

Candidate Starts for RadFad_54:

(7, 32491), (8, 32485), (9, 32470), (10, 32452), (Start: 15 @32404 has 2 MA's), (16, 32398), (21, 32299), (22, 32287), (Start: 23 @32284 has 10 MA's), (24, 32245), (31, 32119), (32, 32089),

Gene: Raphaella_51 Start: 30952, Stop: 30698, Start Num: 23

Candidate Starts for Raphaella_51:

(6, 31195), (7, 31159), (8, 31153), (9, 31138), (10, 31120), (Start: 15 @31072 has 2 MA's), (16, 31066), (18, 31048), (21, 30967), (Start: 23 @30952 has 10 MA's), (24, 30913), (30, 30838), (31, 30787),

Gene: Raqqa_42 Start: 28245, Stop: 27895, Start Num: 18

Candidate Starts for Raqqa_42:

(6, 28392), (7, 28356), (8, 28350), (9, 28335), (10, 28317), (Start: 15 @28269 has 2 MA's), (16, 28263), (18, 28245), (Start: 23 @28149 has 10 MA's), (24, 28110), (31, 27984),

Gene: Richie_53 Start: 32021, Stop: 31767, Start Num: 23

Candidate Starts for Richie_53:

(6, 32264), (7, 32228), (8, 32222), (9, 32207), (10, 32189), (Start: 15 @32141 has 2 MA's), (16, 32135), (18, 32117), (Start: 23 @32021 has 10 MA's), (24, 31982), (30, 31907), (31, 31856),

Gene: Sakai_50 Start: 31054, Stop: 30800, Start Num: 23

Candidate Starts for Sakai_50:

(6, 31297), (7, 31261), (8, 31255), (9, 31240), (10, 31222), (Start: 15 @31174 has 2 MA's), (16, 31168), (18, 31150), (Start: 23 @31054 has 10 MA's), (24, 31015), (31, 30889),

Gene: SamW_29 Start: 26130, Stop: 25825, Start Num: 20

Candidate Starts for SamW_29:

(1, 26448), (11, 26271), (12, 26268), (Start: 20 @26130 has 3 MA's), (25, 26067), (26, 26043), (29, 25998), (34, 25863),

Gene: Sashimi_52 Start: 32287, Stop: 32033, Start Num: 23

Candidate Starts for Sashimi_52:

(4, 32572), (6, 32530), (7, 32494), (8, 32488), (9, 32473), (10, 32455), (Start: 15 @32407 has 2 MA's), (16, 32401), (18, 32383), (21, 32302), (Start: 23 @32287 has 10 MA's), (24, 32248), (28, 32182), (31, 32122),

Gene: Seahorse_54 Start: 33286, Stop: 33032, Start Num: 23

Candidate Starts for Seahorse_54:

(5, 33532), (7, 33493), (8, 33487), (9, 33472), (10, 33454), (Start: 15 @33406 has 2 MA's), (16, 33400), (21, 33301), (Start: 23 @33286 has 10 MA's), (24, 33247), (31, 33121), (32, 33091),

Gene: Tiff81_51 Start: 29465, Stop: 29211, Start Num: 23

Candidate Starts for Tiff81_51:

(5, 29711), (7, 29672), (8, 29666), (9, 29651), (10, 29633), (Start: 15 @29585 has 2 MA's), (16, 29579), (17, 29573), (21, 29480), (22, 29468), (Start: 23 @29465 has 10 MA's), (24, 29426), (30, 29351), (31, 29300),

Gene: TripleJ_39 Start: 28726, Stop: 28325, Start Num: 13

Candidate Starts for TripleJ_39:

(Start: 13 @28726 has 1 MA's), (14, 28711), (Start: 15 @28699 has 2 MA's), (19, 28624), (27, 28510), (31, 28414),

Gene: Troy_29 Start: 26130, Stop: 25825, Start Num: 20

Candidate Starts for Troy_29:

(1, 26448), (11, 26271), (12, 26268), (Start: 20 @26130 has 3 MA's), (25, 26067), (26, 26043), (29, 25998), (34, 25863),

Gene: YoungHarleezy_51 Start: 31479, Stop: 31264, Start Num: 24

Candidate Starts for YoungHarleezy_51:

(6, 31761), (7, 31725), (8, 31719), (9, 31704), (10, 31686), (Start: 15 @31638 has 2 MA's), (16, 31632), (18, 31614), (22, 31521), (Start: 23 @31518 has 10 MA's), (24, 31479), (31, 31353),