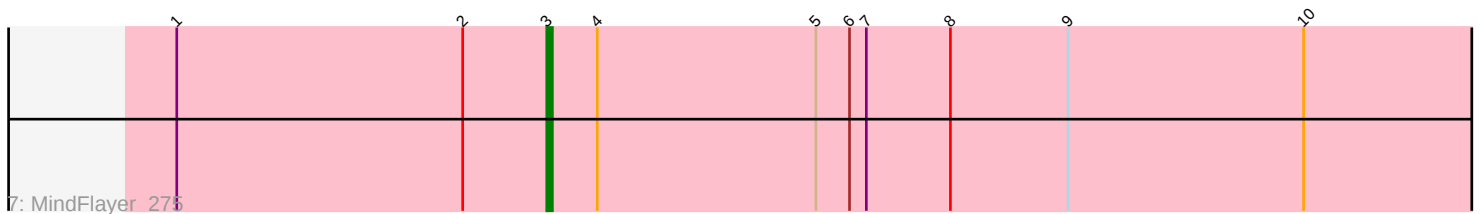
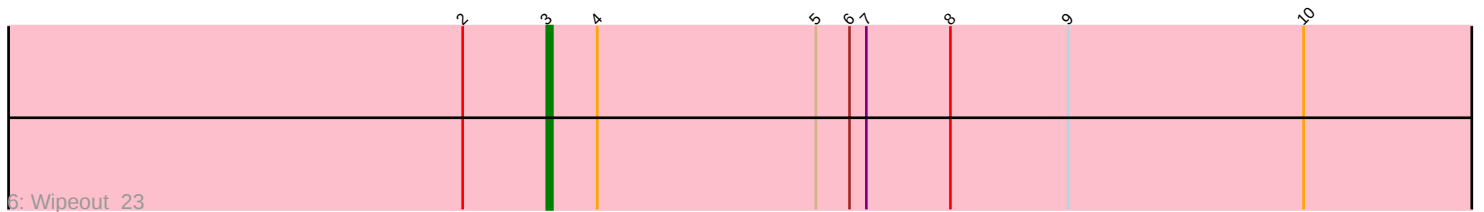
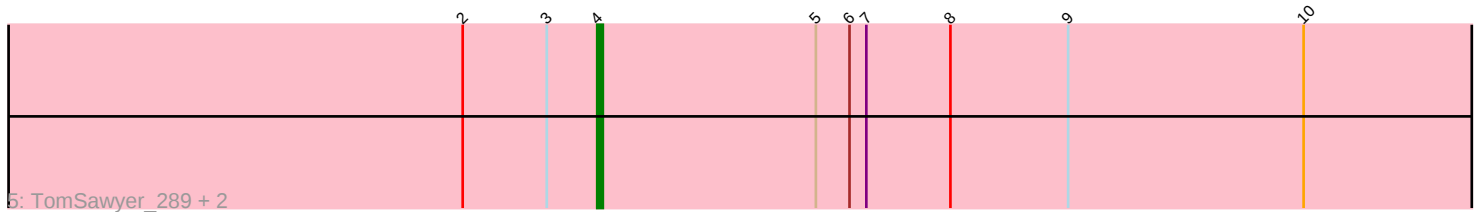
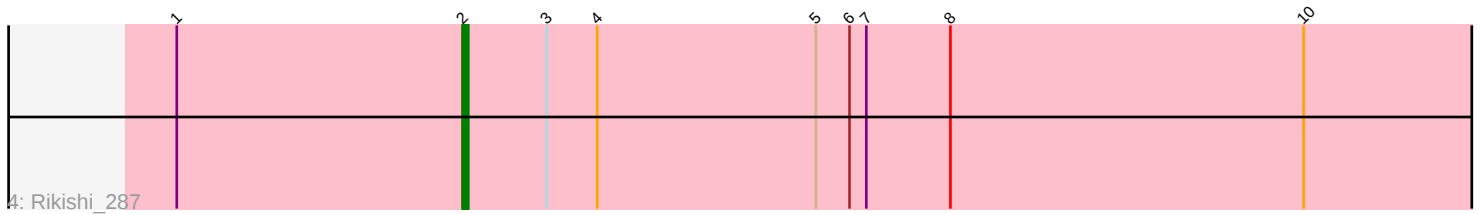
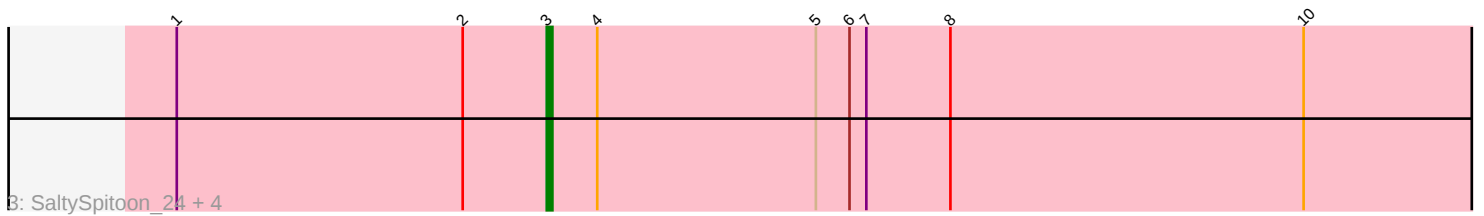
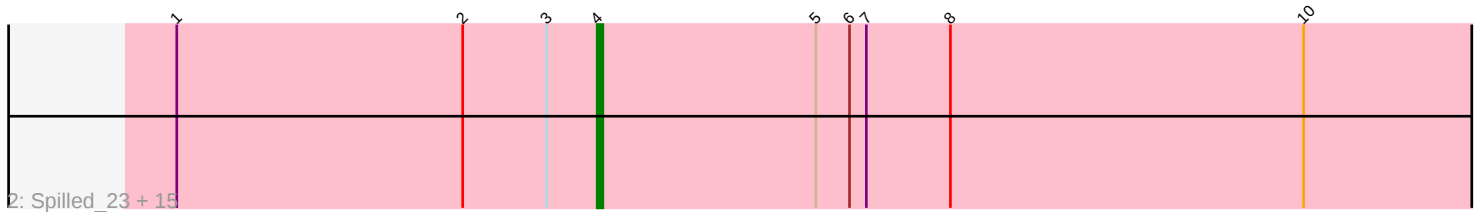
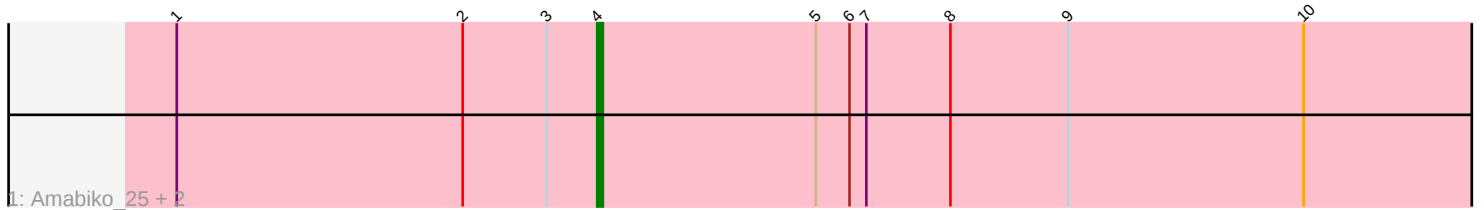


Pham 243484



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 243484 Report

This analysis was run 02/07/26 on database version 634.

Pham number 243484 has 30 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Amabiko_25, MindFlayer_23, Amabiko_289
- Track 2 : Spilled_23, KentuckyRacer_24, CeilingFan_290, Brizzy_281, Jollison_25, Brizzy_23, JimJam_24, KentuckyRacer_292, Spelly_290, JimJam_292, PumpkinSpice_24, Spilled_291, PumpkinSpice_288, Jollison_282, Spelly_24, CeilingFan_24
- Track 3 : SaltySpittoon_24, LukeCage_24, LukeCage_287, SaltySpittoon_284, Rikishi_26
- Track 4 : Rikishi_287
- Track 5 : TomSawyer_289, TomSawyer_24, Wipeout_277
- Track 6 : Wipeout_23
- Track 7 : MindFlayer_275

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

The start number called the most often in the published annotations is 4, it was called in 22 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_25, Amabiko_289, Brizzy_23, Brizzy_281, CeilingFan_24, CeilingFan_290, JimJam_24, JimJam_292, Jollison_25, Jollison_282, KentuckyRacer_24, KentuckyRacer_292, MindFlayer_23, PumpkinSpice_24, PumpkinSpice_288, Spelly_24, Spelly_290, Spilled_23, Spilled_291, TomSawyer_24, TomSawyer_289, Wipeout_277,

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

- LukeCage_24, LukeCage_287, MindFlayer_275, Rikishi_26, Rikishi_287, SaltySpittoon_24, SaltySpittoon_284, Wipeout_23,

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

-

Summary by start number:

Start 2:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Rikishi_287 (BE2),

Start 3:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 7 of 30
- Called 23.3% of time when present
- Phage (with cluster) where this start called: LukeCage_24 (BE2), LukeCage_287 (BE2), MindFlayer_275 (BE2), Rikishi_26 (BE2), SaltySpittoon_24 (BE2), SaltySpittoon_284 (BE2), Wipeout_23 (BE2),

Start 4:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 22 of 30
- Called 73.3% of time when present
- Phage (with cluster) where this start called: Amabiko_25 (BE2), Amabiko_289 (BE2), Brizzy_23 (BE2), Brizzy_281 (BE2), CeilingFan_24 (BE2), CeilingFan_290 (BE2), JimJam_24 (BE2), JimJam_292 (BE2), Jollison_25 (BE2), Jollison_282 (BE2), KentuckyRacer_24 (BE2), KentuckyRacer_292 (BE2), MindFlayer_23 (BE2), PumpkinSpice_24 (BE2), PumpkinSpice_288 (BE2), Spelly_24 (BE2), Spelly_290 (BE2), Spilled_23 (BE2), Spilled_291 (BE2), TomSawyer_24 (BE2), TomSawyer_289 (BE2), Wipeout_277 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 1 time for cluster BE2.
- Start number 3 was manually annotated 7 times for cluster BE2.
- Start number 4 was manually annotated 22 times for cluster BE2.

Gene Information:

Gene: Amabiko_25 Start: 11116, Stop: 10940, Start Num: 4

Candidate Starts for Amabiko_25:

(1, 11191), (Start: 2 @11140 has 1 MA's), (Start: 3 @11125 has 7 MA's), (Start: 4 @11116 has 22 MA's), (5, 11077), (6, 11071), (7, 11068), (8, 11053), (9, 11032), (10, 10990),

Gene: Amabiko_289 Start: 129942, Stop: 129766, Start Num: 4

Candidate Starts for Amabiko_289:

(1, 130017), (Start: 2 @129966 has 1 MA's), (Start: 3 @129951 has 7 MA's), (Start: 4 @129942 has 22 MA's), (5, 129903), (6, 129897), (7, 129894), (8, 129879), (9, 129858), (10, 129816),

Gene: Brizzy_281 Start: 129973, Stop: 129797, Start Num: 4

Candidate Starts for Brizzy_281:

(1, 130048), (Start: 2 @129997 has 1 MA's), (Start: 3 @129982 has 7 MA's), (Start: 4 @129973 has 22 MA's), (5, 129934), (6, 129928), (7, 129925), (8, 129910), (10, 129847),

Gene: Brizzy_23 Start: 10705, Stop: 10529, Start Num: 4

Candidate Starts for Brizzy_23:

(1, 10780), (Start: 2 @10729 has 1 MA's), (Start: 3 @10714 has 7 MA's), (Start: 4 @10705 has 22 MA's), (5, 10666), (6, 10660), (7, 10657), (8, 10642), (10, 10579),

Gene: CeilingFan_290 Start: 131519, Stop: 131343, Start Num: 4

Candidate Starts for CeilingFan_290:

(1, 131594), (Start: 2 @131543 has 1 MA's), (Start: 3 @131528 has 7 MA's), (Start: 4 @131519 has 22 MA's), (5, 131480), (6, 131474), (7, 131471), (8, 131456), (10, 131393),

Gene: CeilingFan_24 Start: 10912, Stop: 10736, Start Num: 4

Candidate Starts for CeilingFan_24:

(1, 10987), (Start: 2 @10936 has 1 MA's), (Start: 3 @10921 has 7 MA's), (Start: 4 @10912 has 22 MA's), (5, 10873), (6, 10867), (7, 10864), (8, 10849), (10, 10786),

Gene: JimJam_24 Start: 11115, Stop: 10939, Start Num: 4

Candidate Starts for JimJam_24:

(1, 11190), (Start: 2 @11139 has 1 MA's), (Start: 3 @11124 has 7 MA's), (Start: 4 @11115 has 22 MA's), (5, 11076), (6, 11070), (7, 11067), (8, 11052), (10, 10989),

Gene: JimJam_292 Start: 132651, Stop: 132475, Start Num: 4

Candidate Starts for JimJam_292:

(1, 132726), (Start: 2 @132675 has 1 MA's), (Start: 3 @132660 has 7 MA's), (Start: 4 @132651 has 22 MA's), (5, 132612), (6, 132606), (7, 132603), (8, 132588), (10, 132525),

Gene: Jollison_25 Start: 11116, Stop: 10940, Start Num: 4

Candidate Starts for Jollison_25:

(1, 11191), (Start: 2 @11140 has 1 MA's), (Start: 3 @11125 has 7 MA's), (Start: 4 @11116 has 22 MA's), (5, 11077), (6, 11071), (7, 11068), (8, 11053), (10, 10990),

Gene: Jollison_282 Start: 129791, Stop: 129615, Start Num: 4

Candidate Starts for Jollison_282:

(1, 129866), (Start: 2 @129815 has 1 MA's), (Start: 3 @129800 has 7 MA's), (Start: 4 @129791 has 22 MA's), (5, 129752), (6, 129746), (7, 129743), (8, 129728), (10, 129665),

Gene: KentuckyRacer_24 Start: 10913, Stop: 10737, Start Num: 4

Candidate Starts for KentuckyRacer_24:

(1, 10988), (Start: 2 @10937 has 1 MA's), (Start: 3 @10922 has 7 MA's), (Start: 4 @10913 has 22 MA's), (5, 10874), (6, 10868), (7, 10865), (8, 10850), (10, 10787),

Gene: KentuckyRacer_292 Start: 132364, Stop: 132188, Start Num: 4

Candidate Starts for KentuckyRacer_292:

(1, 132439), (Start: 2 @132388 has 1 MA's), (Start: 3 @132373 has 7 MA's), (Start: 4 @132364 has 22 MA's), (5, 132325), (6, 132319), (7, 132316), (8, 132301), (10, 132238),

Gene: LukeCage_24 Start: 10874, Stop: 10689, Start Num: 3

Candidate Starts for LukeCage_24:

(1, 10940), (Start: 2 @10889 has 1 MA's), (Start: 3 @10874 has 7 MA's), (Start: 4 @10865 has 22 MA's), (5, 10826), (6, 10820), (7, 10817), (8, 10802), (10, 10739),

Gene: LukeCage_287 Start: 131778, Stop: 131593, Start Num: 3

Candidate Starts for LukeCage_287:

(1, 131844), (Start: 2 @131793 has 1 MA's), (Start: 3 @131778 has 7 MA's), (Start: 4 @131769 has 22 MA's), (5, 131730), (6, 131724), (7, 131721), (8, 131706), (10, 131643),

Gene: MindFlayer_23 Start: 10726, Stop: 10550, Start Num: 4

Candidate Starts for MindFlayer_23:

(1, 10801), (Start: 2 @10750 has 1 MA's), (Start: 3 @10735 has 7 MA's), (Start: 4 @10726 has 22 MA's), (5, 10687), (6, 10681), (7, 10678), (8, 10663), (9, 10642), (10, 10600),

Gene: MindFlayer_275 Start: 128795, Stop: 128610, Start Num: 3

Candidate Starts for MindFlayer_275:

(1, 128861), (Start: 2 @128810 has 1 MA's), (Start: 3 @128795 has 7 MA's), (Start: 4 @128786 has 22 MA's), (5, 128747), (6, 128741), (7, 128738), (8, 128723), (9, 128702), (10, 128660),

Gene: PumpkinSpice_24 Start: 11116, Stop: 10940, Start Num: 4

Candidate Starts for PumpkinSpice_24:

(1, 11191), (Start: 2 @11140 has 1 MA's), (Start: 3 @11125 has 7 MA's), (Start: 4 @11116 has 22 MA's), (5, 11077), (6, 11071), (7, 11068), (8, 11053), (10, 10990),

Gene: PumpkinSpice_288 Start: 131008, Stop: 130832, Start Num: 4

Candidate Starts for PumpkinSpice_288:

(1, 131083), (Start: 2 @131032 has 1 MA's), (Start: 3 @131017 has 7 MA's), (Start: 4 @131008 has 22 MA's), (5, 130969), (6, 130963), (7, 130960), (8, 130945), (10, 130882),

Gene: Rikishi_287 Start: 131119, Stop: 130919, Start Num: 2

Candidate Starts for Rikishi_287:

(1, 131170), (Start: 2 @131119 has 1 MA's), (Start: 3 @131104 has 7 MA's), (Start: 4 @131095 has 22 MA's), (5, 131056), (6, 131050), (7, 131047), (8, 131032), (10, 130969),

Gene: Rikishi_26 Start: 11031, Stop: 10846, Start Num: 3

Candidate Starts for Rikishi_26:

(1, 11097), (Start: 2 @11046 has 1 MA's), (Start: 3 @11031 has 7 MA's), (Start: 4 @11022 has 22 MA's), (5, 10983), (6, 10977), (7, 10974), (8, 10959), (10, 10896),

Gene: SaltySpittoon_24 Start: 11125, Stop: 10940, Start Num: 3

Candidate Starts for SaltySpittoon_24:

(1, 11191), (Start: 2 @11140 has 1 MA's), (Start: 3 @11125 has 7 MA's), (Start: 4 @11116 has 22 MA's), (5, 11077), (6, 11071), (7, 11068), (8, 11053), (10, 10990),

Gene: SaltySpittoon_284 Start: 129389, Stop: 129204, Start Num: 3

Candidate Starts for SaltySpittoon_284:

(1, 129455), (Start: 2 @129404 has 1 MA's), (Start: 3 @129389 has 7 MA's), (Start: 4 @129380 has 22 MA's), (5, 129341), (6, 129335), (7, 129332), (8, 129317), (10, 129254),

Gene: Spelly_290 Start: 129920, Stop: 129744, Start Num: 4

Candidate Starts for Spelly_290:

(1, 129995), (Start: 2 @129944 has 1 MA's), (Start: 3 @129929 has 7 MA's), (Start: 4 @129920 has 22 MA's), (5, 129881), (6, 129875), (7, 129872), (8, 129857), (10, 129794),

Gene: Spelly_24 Start: 11116, Stop: 10940, Start Num: 4

Candidate Starts for Spelly_24:

(1, 11191), (Start: 2 @11140 has 1 MA's), (Start: 3 @11125 has 7 MA's), (Start: 4 @11116 has 22 MA's), (5, 11077), (6, 11071), (7, 11068), (8, 11053), (10, 10990),

Gene: Spilled_23 Start: 10726, Stop: 10550, Start Num: 4

Candidate Starts for Spilled_23:

(1, 10801), (Start: 2 @10750 has 1 MA's), (Start: 3 @10735 has 7 MA's), (Start: 4 @10726 has 22 MA's), (5, 10687), (6, 10681), (7, 10678), (8, 10663), (10, 10600),

Gene: Spilled_291 Start: 131195, Stop: 131019, Start Num: 4

Candidate Starts for Spilled_291:

(1, 131270), (Start: 2 @131219 has 1 MA's), (Start: 3 @131204 has 7 MA's), (Start: 4 @131195 has 22 MA's), (5, 131156), (6, 131150), (7, 131147), (8, 131132), (10, 131069),

Gene: TomSawyer_289 Start: 132488, Stop: 132312, Start Num: 4

Candidate Starts for TomSawyer_289:

(Start: 2 @132512 has 1 MA's), (Start: 3 @132497 has 7 MA's), (Start: 4 @132488 has 22 MA's), (5, 132449), (6, 132443), (7, 132440), (8, 132425), (9, 132404), (10, 132362),

Gene: TomSawyer_24 Start: 10709, Stop: 10533, Start Num: 4

Candidate Starts for TomSawyer_24:

(Start: 2 @10733 has 1 MA's), (Start: 3 @10718 has 7 MA's), (Start: 4 @10709 has 22 MA's), (5, 10670), (6, 10664), (7, 10661), (8, 10646), (9, 10625), (10, 10583),

Gene: Wipeout_23 Start: 10740, Stop: 10555, Start Num: 3

Candidate Starts for Wipeout_23:

(Start: 2 @10755 has 1 MA's), (Start: 3 @10740 has 7 MA's), (Start: 4 @10731 has 22 MA's), (5, 10692), (6, 10686), (7, 10683), (8, 10668), (9, 10647), (10, 10605),

Gene: Wipeout_277 Start: 131462, Stop: 131286, Start Num: 4

Candidate Starts for Wipeout_277:

(Start: 2 @131486 has 1 MA's), (Start: 3 @131471 has 7 MA's), (Start: 4 @131462 has 22 MA's), (5, 131423), (6, 131417), (7, 131414), (8, 131399), (9, 131378), (10, 131336),