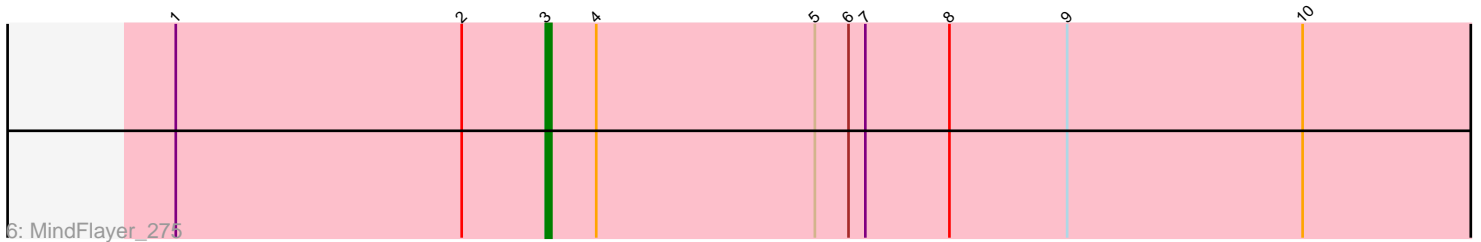
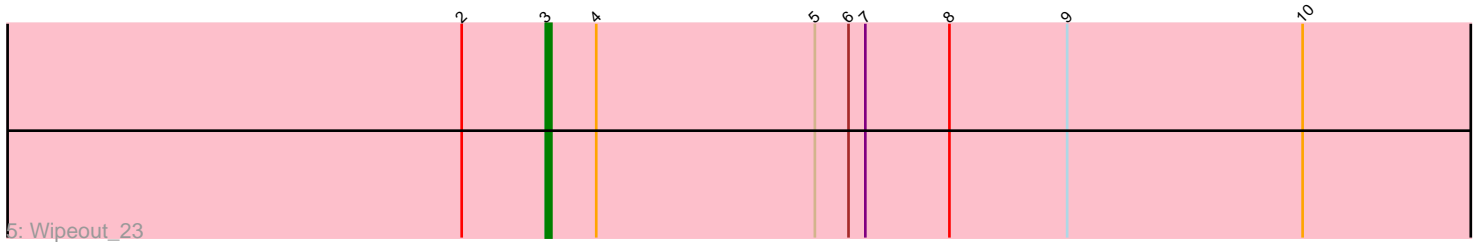
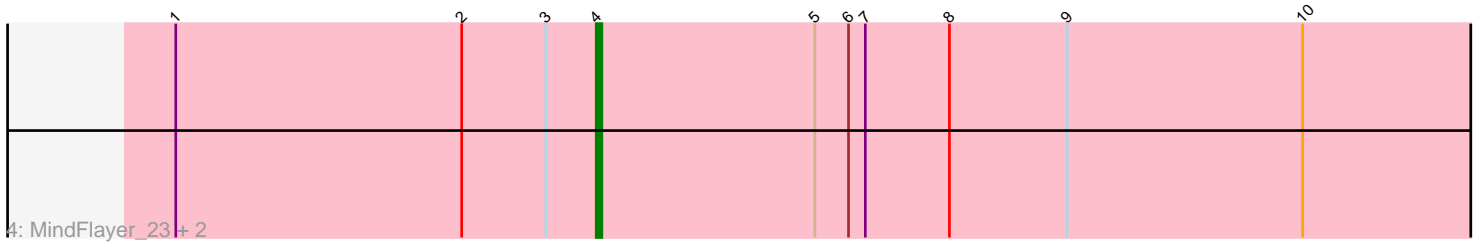
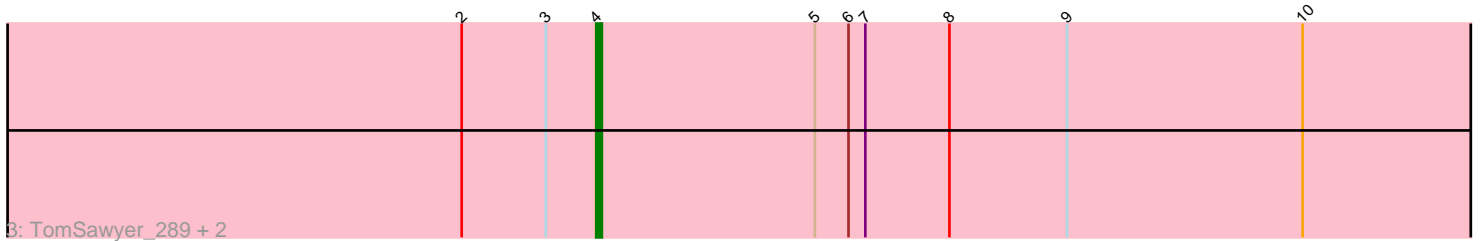
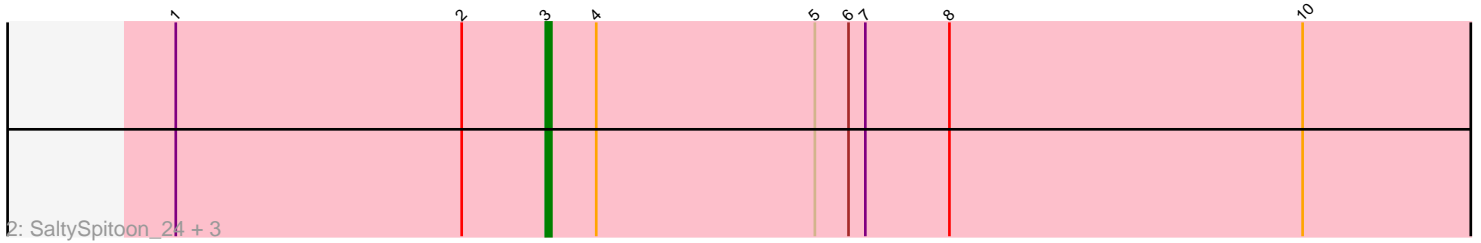
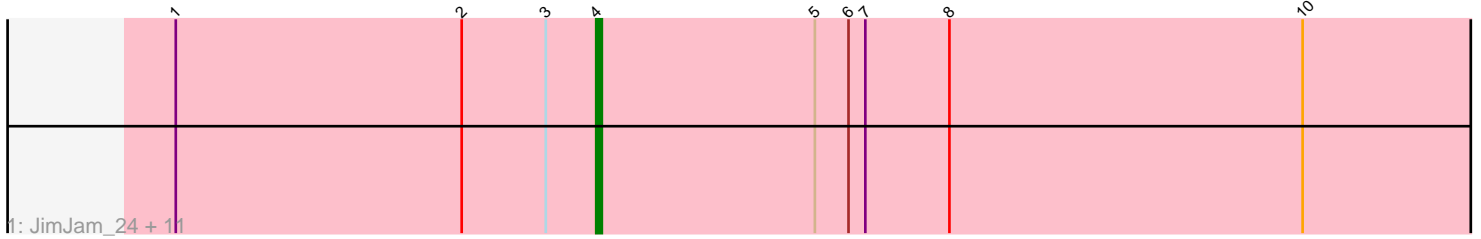


Pham 170273



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 170273 Report

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

Pham number 170273 has 24 members, 4 are drafts.

Phages represented in each track:

- Track 1 : JimJam_24, Spilled_23, Spelly_290, CeilingFan_300, Jollison_292, Jollison_28, JimJam_292, PumpkinSpice_24, Spilled_291, PumpkinSpice_288, Spelly_24, CeilingFan_26
- Track 2 : SaltySpittoon_24, LukeCage_24, LukeCage_287, SaltySpittoon_284
- Track 3 : TomSawyer_289, TomSawyer_24, Wipeout_277
- Track 4 : MindFlayer_23, Amabiko_25, Amabiko_289
- Track 5 : Wipeout_23
- Track 6 : 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 14 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_25, Amabiko_289, CeilingFan_26, CeilingFan_300, JimJam_24, JimJam_292, Jollison_28, Jollison_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, SaltySpittoon_24, SaltySpittoon_284, Wipeout_23,

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

-

Summary by start number:

Start 3:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 20
- Called 25.0% of time when present

- Phage (with cluster) where this start called: LukeCage_24 (BE2), LukeCage_287 (BE2), MindFlayer_275 (BE2), SaltySpittoon_24 (BE2), SaltySpittoon_284 (BE2), Wipeout_23 (BE2),

Start 4:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 14 of 20
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Amabiko_25 (BE2), Amabiko_289 (BE2), CeilingFan_26 (BE2), CeilingFan_300 (BE2), JimJam_24 (BE2), JimJam_292 (BE2), Jollison_28 (BE2), Jollison_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 3 was manually annotated 6 times for cluster BE2.
- Start number 4 was manually annotated 14 times for cluster BE2.

Gene Information:

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

Candidate Starts for Amabiko_25:

(1, 11191), (2, 11140), (Start: 3 @11125 has 6 MA's), (Start: 4 @11116 has 14 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), (2, 129966), (Start: 3 @129951 has 6 MA's), (Start: 4 @129942 has 14 MA's), (5, 129903), (6, 129897), (7, 129894), (8, 129879), (9, 129858), (10, 129816),

Gene: CeilingFan_300 Start: 131519, Stop: 131343, Start Num: 4

Candidate Starts for CeilingFan_300:

(1, 131594), (2, 131543), (Start: 3 @131528 has 6 MA's), (Start: 4 @131519 has 14 MA's), (5, 131480), (6, 131474), (7, 131471), (8, 131456), (10, 131393),

Gene: CeilingFan_26 Start: 10912, Stop: 10736, Start Num: 4

Candidate Starts for CeilingFan_26:

(1, 10987), (2, 10936), (Start: 3 @10921 has 6 MA's), (Start: 4 @10912 has 14 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), (2, 11139), (Start: 3 @11124 has 6 MA's), (Start: 4 @11115 has 14 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), (2, 132675), (Start: 3 @132660 has 6 MA's), (Start: 4 @132651 has 14 MA's), (5, 132612), (6, 132606), (7, 132603), (8, 132588), (10, 132525),

Gene: Jollison_292 Start: 129791, Stop: 129615, Start Num: 4

Candidate Starts for Jollison_292:

(1, 129866), (2, 129815), (Start: 3 @129800 has 6 MA's), (Start: 4 @129791 has 14 MA's), (5, 129752), (6, 129746), (7, 129743), (8, 129728), (10, 129665),

Gene: Jollison_28 Start: 11116, Stop: 10940, Start Num: 4

Candidate Starts for Jollison_28:

(1, 11191), (2, 11140), (Start: 3 @11125 has 6 MA's), (Start: 4 @11116 has 14 MA's), (5, 11077), (6, 11071), (7, 11068), (8, 11053), (10, 10990),

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

Candidate Starts for LukeCage_24:

(1, 10940), (2, 10889), (Start: 3 @10874 has 6 MA's), (Start: 4 @10865 has 14 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), (2, 131793), (Start: 3 @131778 has 6 MA's), (Start: 4 @131769 has 14 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), (2, 10750), (Start: 3 @10735 has 6 MA's), (Start: 4 @10726 has 14 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), (2, 128810), (Start: 3 @128795 has 6 MA's), (Start: 4 @128786 has 14 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), (2, 11140), (Start: 3 @11125 has 6 MA's), (Start: 4 @11116 has 14 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), (2, 131032), (Start: 3 @131017 has 6 MA's), (Start: 4 @131008 has 14 MA's), (5, 130969), (6, 130963), (7, 130960), (8, 130945), (10, 130882),

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

Candidate Starts for SaltySpittoon_24:

(1, 11191), (2, 11140), (Start: 3 @11125 has 6 MA's), (Start: 4 @11116 has 14 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), (2, 129404), (Start: 3 @129389 has 6 MA's), (Start: 4 @129380 has 14 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), (2, 129944), (Start: 3 @129929 has 6 MA's), (Start: 4 @129920 has 14 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), (2, 11140), (Start: 3 @11125 has 6 MA's), (Start: 4 @11116 has 14 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), (2, 10750), (Start: 3 @10735 has 6 MA's), (Start: 4 @10726 has 14 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), (2, 131219), (Start: 3 @131204 has 6 MA's), (Start: 4 @131195 has 14 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:

(2, 132512), (Start: 3 @132497 has 6 MA's), (Start: 4 @132488 has 14 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:

(2, 10733), (Start: 3 @10718 has 6 MA's), (Start: 4 @10709 has 14 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:

(2, 10755), (Start: 3 @10740 has 6 MA's), (Start: 4 @10731 has 14 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:

(2, 131486), (Start: 3 @131471 has 6 MA's), (Start: 4 @131462 has 14 MA's), (5, 131423), (6, 131417), (7, 131414), (8, 131399), (9, 131378), (10, 131336),