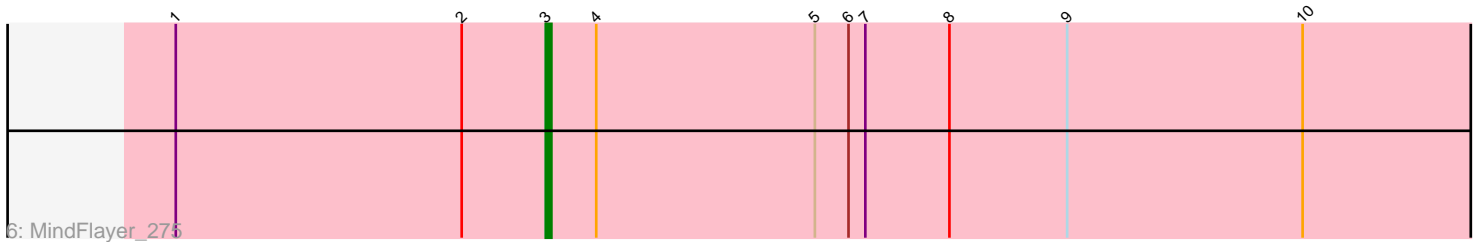
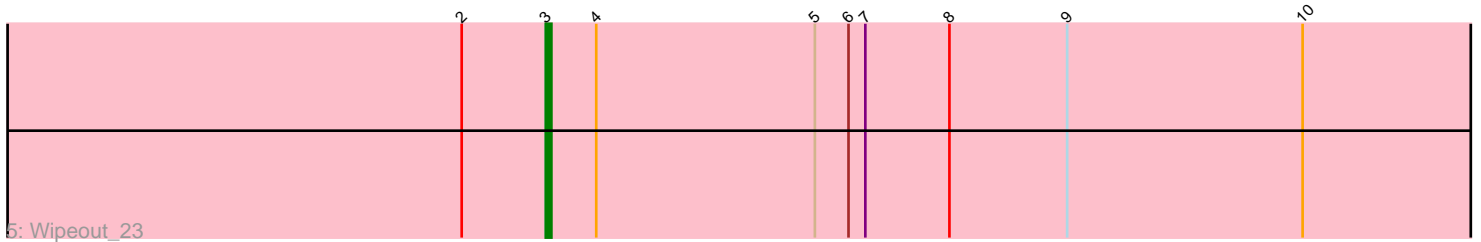
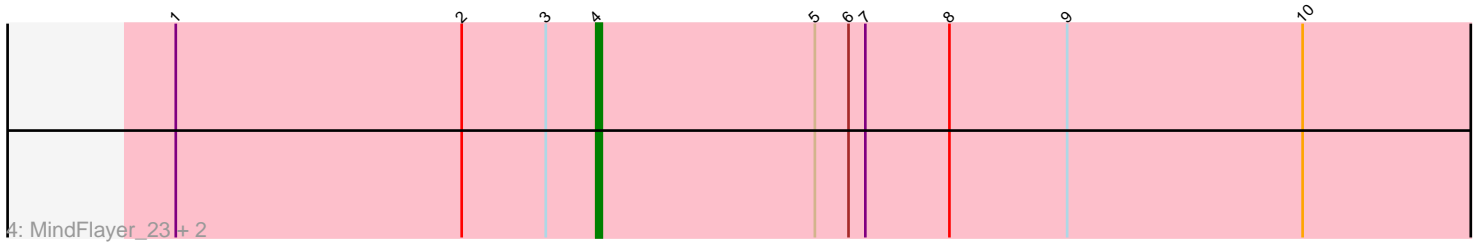
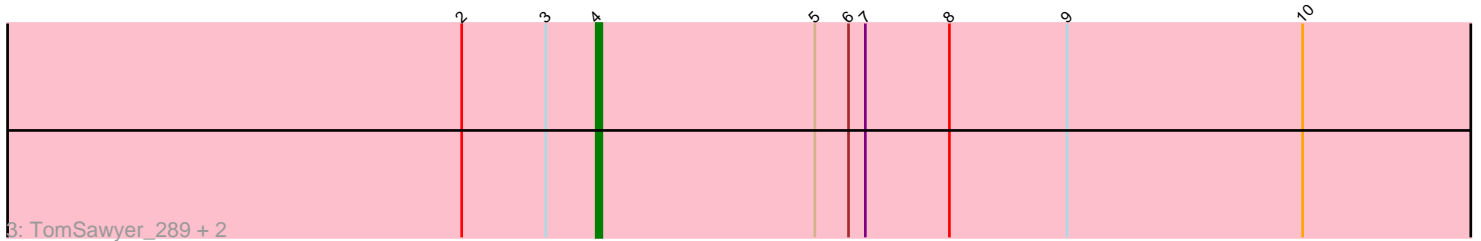
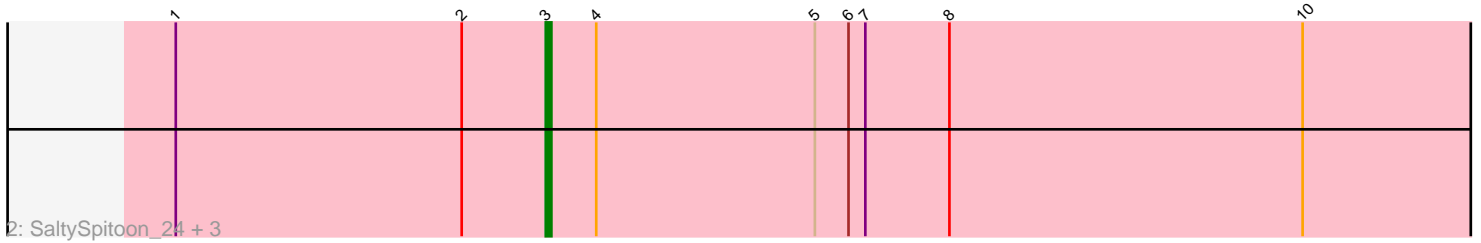
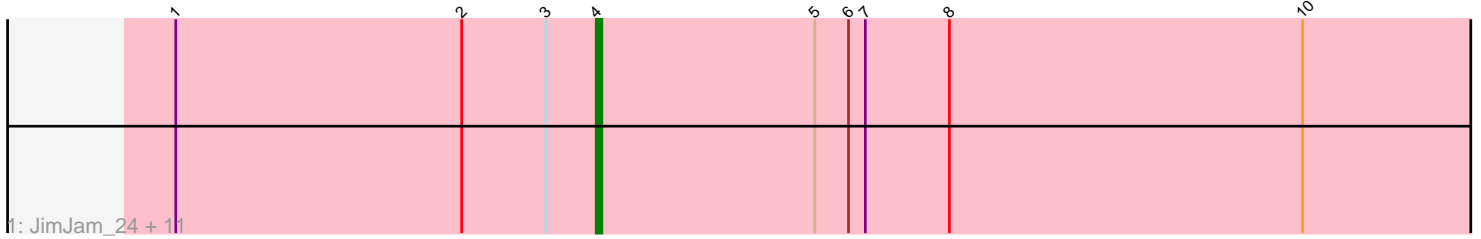


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 154976 Report

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

Pham number 154976 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),