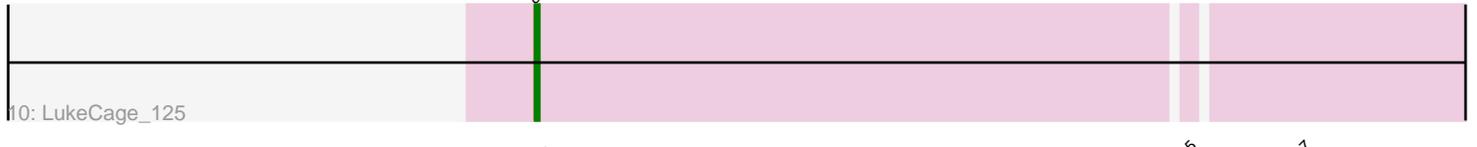
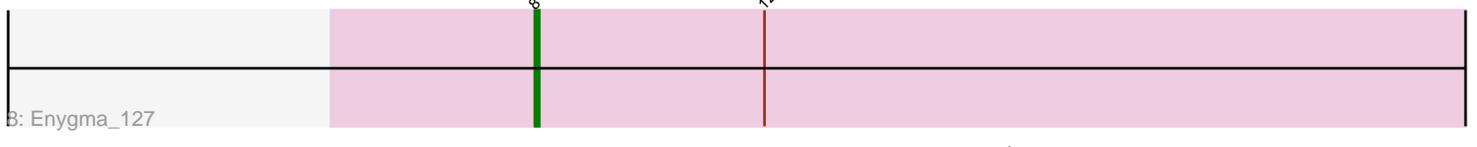
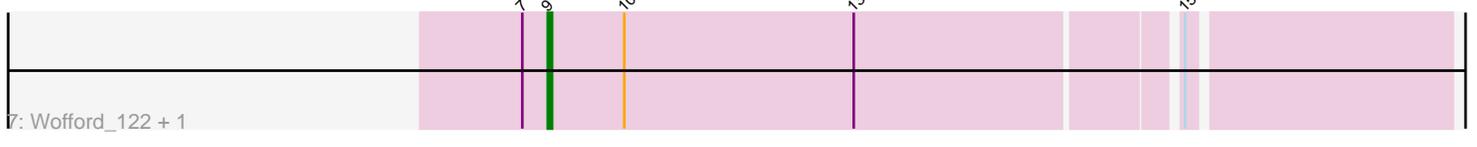
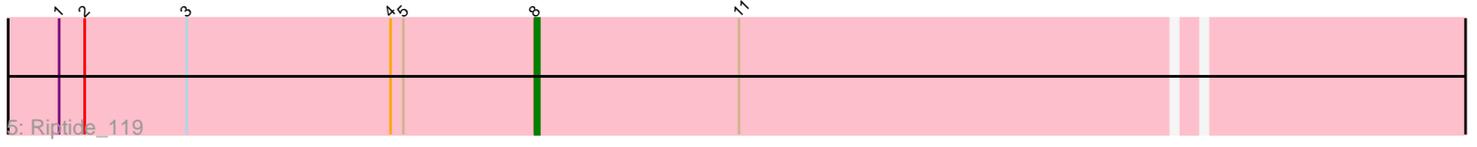
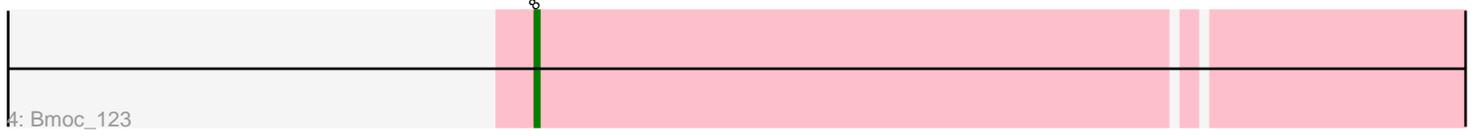
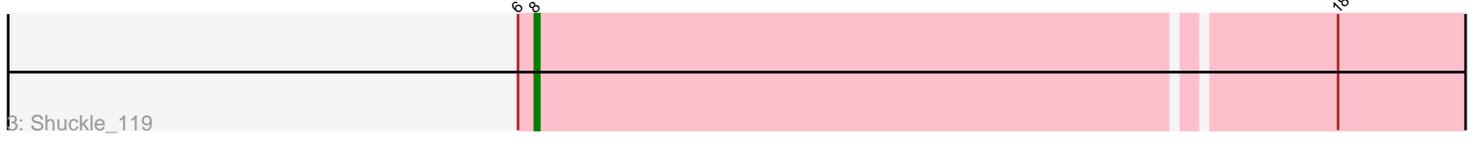
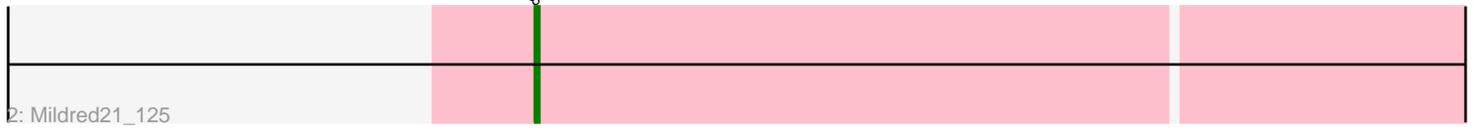
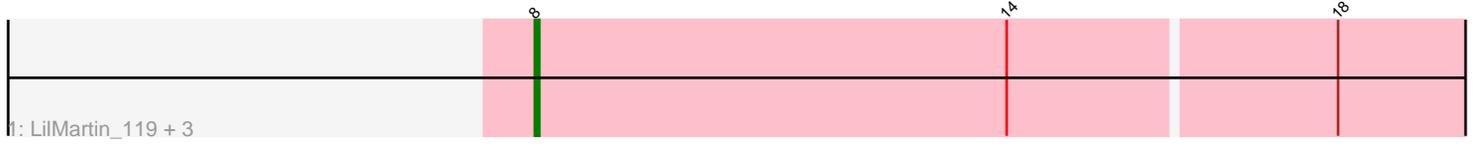


Pham 284009



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 284009 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284009 has 36 members, 2 are drafts.

Phages represented in each track:

- Track 1 : LilMartin\_119, Angela\_120, Marsus\_121, MulchMansion\_119
- Track 2 : Mildred21\_125
- Track 3 : Shuckle\_119
- Track 4 : Bmoc\_123
- Track 5 : Riptide\_119
- Track 6 : Amabiko\_128, Bordeaux\_126, Gibbi\_133, PumpkinSpice\_129, Starbow\_126, Rikishi\_126, Battuta\_126, Quaran19\_127, KentuckyRacer\_129, Spelly\_129, Spilled\_130, Jollison\_127, AcciDwight\_132, IchabodCrane\_123, JimJam\_130, CeilingFan\_127, SaltySpittoon\_127, Birchlyn\_126, MindFlayer\_124, Brizzy\_126, Wipeout\_122, TomSawyer\_128
- Track 7 : Wofford\_122, Elmer\_126
- Track 8 : Enygma\_127
- Track 9 : StarPlatinum\_129
- Track 10 : LukeCage\_125
- Track 11 : Mugiwara\_128

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

The start number called the most often in the published annotations is 8, it was called in 31 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight\_132, Amabiko\_128, Angela\_120, Battuta\_126, Birchlyn\_126, Bmoc\_123, Bordeaux\_126, Brizzy\_126, CeilingFan\_127, Enygma\_127, Gibbi\_133, IchabodCrane\_123, JimJam\_130, Jollison\_127, KentuckyRacer\_129, LilMartin\_119, LukeCage\_125, Marsus\_121, Mildred21\_125, MindFlayer\_124, MulchMansion\_119, PumpkinSpice\_129, Quaran19\_127, Rikishi\_126, Riptide\_119, SaltySpittoon\_127, Shuckle\_119, Spelly\_129, Spilled\_130, StarPlatinum\_129, Starbow\_126, TomSawyer\_128, Wipeout\_122,

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

- 

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

- Elmer\_126, Mugiwara\_128, Wofford\_122,

### Summary by start number:

#### Start 8:

- Found in 33 of 36 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 31 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight\_132 (BE2), Amabiko\_128 (BE2), Angela\_120 (BE1), Battuta\_126 (BE2), Birchlyn\_126 (BE2), Bmoc\_123 (BE1), Bordeaux\_126 (BE2), Brizzy\_126 (BE2), CeilingFan\_127 (BE2), Enygma\_127 (BE2), Gibbi\_133 (BE2), IchabodCrane\_123 (BE2), JimJam\_130 (BE2), Jollison\_127 (BE2), KentuckyRacer\_129 (BE2), LilMartin\_119 (BE1), LukeCage\_125 (BE2), Marsus\_121 (BE1), Mildred21\_125 (BE1), MindFlayer\_124 (BE2), MulchMansion\_119 (BE1), PumpkinSpice\_129 (BE2), Quaran19\_127 (BE2), Rikishi\_126 (BE2), Riptide\_119 (BE1), SaltySpittoon\_127 (BE2), Shuckle\_119 (BE1), Spelly\_129 (BE2), Spilled\_130 (BE2), StarPlatinum\_129 (BE2), Starbow\_126 (BE2), TomSawyer\_128 (BE2), Wipeout\_122 (BE2),

#### Start 9:

- Found in 3 of 36 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 3 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elmer\_126 (BE2), Mugiwara\_128 (BE2), Wofford\_122 (BE2),

### Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

#### Info for manual annotations of cluster BE1:

- Start number 8 was manually annotated 8 times for cluster BE1.

#### Info for manual annotations of cluster BE2:

- Start number 8 was manually annotated 23 times for cluster BE2.
- Start number 9 was manually annotated 3 times for cluster BE2.

### Gene Information:

Gene: AcciDwight\_132 Start: 79745, Stop: 79945, Start Num: 8

Candidate Starts for AcciDwight\_132:

(Start: 8 @79745 has 31 MA's), (16, 79916),

Gene: Amabiko\_128 Start: 79790, Stop: 79990, Start Num: 8

Candidate Starts for Amabiko\_128:

(Start: 8 @79790 has 31 MA's), (16, 79961),

Gene: Angela\_120 Start: 78670, Stop: 78918, Start Num: 8

Candidate Starts for Angela\_120:

(Start: 8 @78670 has 31 MA's), (14, 78781), (18, 78856),

Gene: Battuta\_126 Start: 79763, Stop: 79963, Start Num: 8  
Candidate Starts for Battuta\_126:  
(Start: 8 @79763 has 31 MA's), (16, 79934),

Gene: Birchlyn\_126 Start: 77650, Stop: 77850, Start Num: 8  
Candidate Starts for Birchlyn\_126:  
(Start: 8 @77650 has 31 MA's), (16, 77821),

Gene: Bmoc\_123 Start: 78996, Stop: 79238, Start Num: 8  
Candidate Starts for Bmoc\_123:  
(Start: 8 @78996 has 31 MA's),

Gene: Bordeaux\_126 Start: 79918, Stop: 80118, Start Num: 8  
Candidate Starts for Bordeaux\_126:  
(Start: 8 @79918 has 31 MA's), (16, 80089),

Gene: Brizzy\_126 Start: 79571, Stop: 79771, Start Num: 8  
Candidate Starts for Brizzy\_126:  
(Start: 8 @79571 has 31 MA's), (16, 79742),

Gene: CeilingFan\_127 Start: 79682, Stop: 79882, Start Num: 8  
Candidate Starts for CeilingFan\_127:  
(Start: 8 @79682 has 31 MA's), (16, 79853),

Gene: Elmer\_126 Start: 80893, Stop: 81111, Start Num: 9  
Candidate Starts for Elmer\_126:  
(7, 80887), (Start: 9 @80893 has 3 MA's), (10, 80911), (13, 80965), (15, 81037),

Gene: Enygma\_127 Start: 81332, Stop: 81577, Start Num: 8  
Candidate Starts for Enygma\_127:  
(Start: 8 @81332 has 31 MA's), (12, 81386),

Gene: Gibbi\_133 Start: 79902, Stop: 80102, Start Num: 8  
Candidate Starts for Gibbi\_133:  
(Start: 8 @79902 has 31 MA's), (16, 80073),

Gene: IchabodCrane\_123 Start: 79491, Stop: 79691, Start Num: 8  
Candidate Starts for IchabodCrane\_123:  
(Start: 8 @79491 has 31 MA's), (16, 79662),

Gene: JimJam\_130 Start: 80312, Stop: 80512, Start Num: 8  
Candidate Starts for JimJam\_130:  
(Start: 8 @80312 has 31 MA's), (16, 80483),

Gene: Jollison\_127 Start: 79747, Stop: 79947, Start Num: 8  
Candidate Starts for Jollison\_127:  
(Start: 8 @79747 has 31 MA's), (16, 79918),

Gene: KentuckyRacer\_129 Start: 80177, Stop: 80377, Start Num: 8  
Candidate Starts for KentuckyRacer\_129:  
(Start: 8 @80177 has 31 MA's), (16, 80348),

Gene: LilMartin\_119 Start: 78575, Stop: 78823, Start Num: 8

Candidate Starts for LilMartin\_119:  
(Start: 8 @78575 has 31 MA's), (14, 78686), (18, 78761),

Gene: LukeCage\_125 Start: 79827, Stop: 80063, Start Num: 8  
Candidate Starts for LukeCage\_125:  
(Start: 8 @79827 has 31 MA's),

Gene: Marsus\_121 Start: 79049, Stop: 79297, Start Num: 8  
Candidate Starts for Marsus\_121:  
(Start: 8 @79049 has 31 MA's), (14, 79160), (18, 79235),

Gene: Mildred21\_125 Start: 79329, Stop: 79574, Start Num: 8  
Candidate Starts for Mildred21\_125:  
(Start: 8 @79329 has 31 MA's),

Gene: MindFlayer\_124 Start: 79398, Stop: 79598, Start Num: 8  
Candidate Starts for MindFlayer\_124:  
(Start: 8 @79398 has 31 MA's), (16, 79569),

Gene: Mugiwara\_128 Start: 80616, Stop: 80840, Start Num: 9  
Candidate Starts for Mugiwara\_128:  
(Start: 9 @80616 has 3 MA's), (15, 80760), (17, 80784),

Gene: MulchMansion\_119 Start: 78618, Stop: 78866, Start Num: 8  
Candidate Starts for MulchMansion\_119:  
(Start: 8 @78618 has 31 MA's), (14, 78729), (18, 78804),

Gene: PumpkinSpice\_129 Start: 80354, Stop: 80554, Start Num: 8  
Candidate Starts for PumpkinSpice\_129:  
(Start: 8 @80354 has 31 MA's), (16, 80525),

Gene: Quaran19\_127 Start: 79781, Stop: 79981, Start Num: 8  
Candidate Starts for Quaran19\_127:  
(Start: 8 @79781 has 31 MA's), (16, 79952),

Gene: Rikishi\_126 Start: 79696, Stop: 79896, Start Num: 8  
Candidate Starts for Rikishi\_126:  
(Start: 8 @79696 has 31 MA's), (16, 79867),

Gene: Riptide\_119 Start: 78070, Stop: 78312, Start Num: 8  
Candidate Starts for Riptide\_119:  
(1, 77959), (2, 77965), (3, 77989), (4, 78037), (5, 78040), (Start: 8 @78070 has 31 MA's), (11, 78118),

Gene: SaltySpittoon\_127 Start: 79793, Stop: 79993, Start Num: 8  
Candidate Starts for SaltySpittoon\_127:  
(Start: 8 @79793 has 31 MA's), (16, 79964),

Gene: Shuckle\_119 Start: 79769, Stop: 80005, Start Num: 8  
Candidate Starts for Shuckle\_119:  
(6, 79766), (Start: 8 @79769 has 31 MA's), (18, 79952),

Gene: Spelly\_129 Start: 79745, Stop: 79945, Start Num: 8  
Candidate Starts for Spelly\_129:

(Start: 8 @79745 has 31 MA's), (16, 79916),

Gene: Spilled\_130 Start: 79863, Stop: 80063, Start Num: 8

Candidate Starts for Spilled\_130:

(Start: 8 @79863 has 31 MA's), (16, 80034),

Gene: StarPlatinum\_129 Start: 80807, Stop: 81049, Start Num: 8

Candidate Starts for StarPlatinum\_129:

(Start: 8 @80807 has 31 MA's), (14, 80918),

Gene: Starbow\_126 Start: 79765, Stop: 79965, Start Num: 8

Candidate Starts for Starbow\_126:

(Start: 8 @79765 has 31 MA's), (16, 79936),

Gene: TomSawyer\_128 Start: 79811, Stop: 80011, Start Num: 8

Candidate Starts for TomSawyer\_128:

(Start: 8 @79811 has 31 MA's), (16, 79982),

Gene: Wipeout\_122 Start: 80135, Stop: 80335, Start Num: 8

Candidate Starts for Wipeout\_122:

(Start: 8 @80135 has 31 MA's), (16, 80306),

Gene: Wofford\_122 Start: 80857, Stop: 81075, Start Num: 9

Candidate Starts for Wofford\_122:

(7, 80851), (Start: 9 @80857 has 3 MA's), (10, 80875), (13, 80929), (15, 81001),