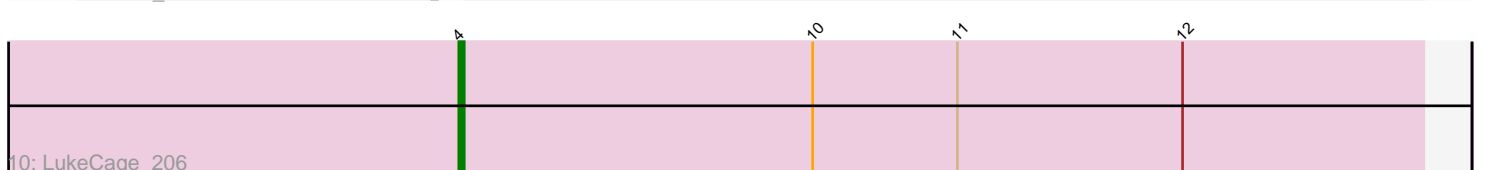
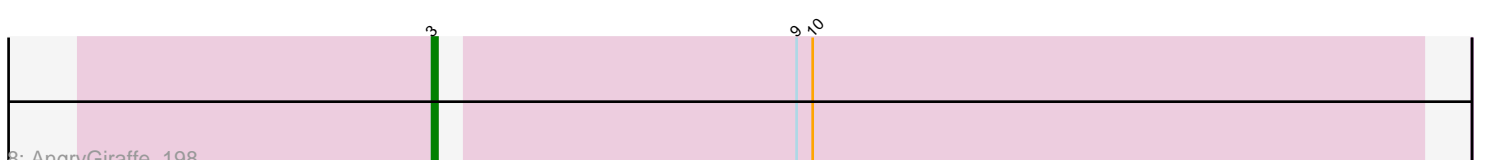
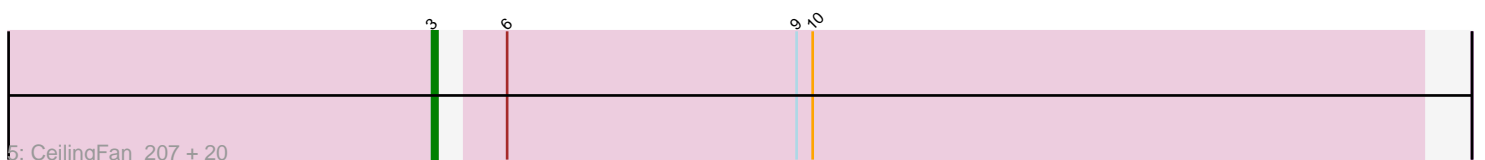
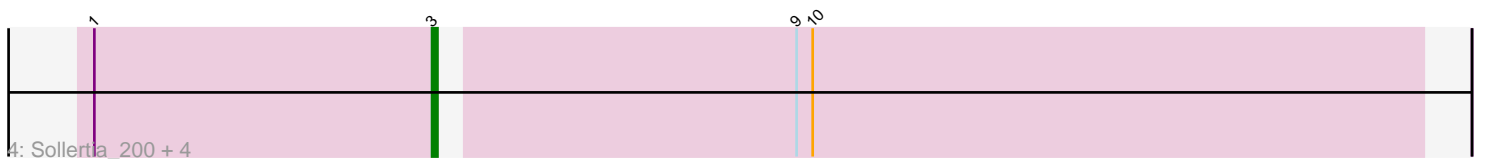
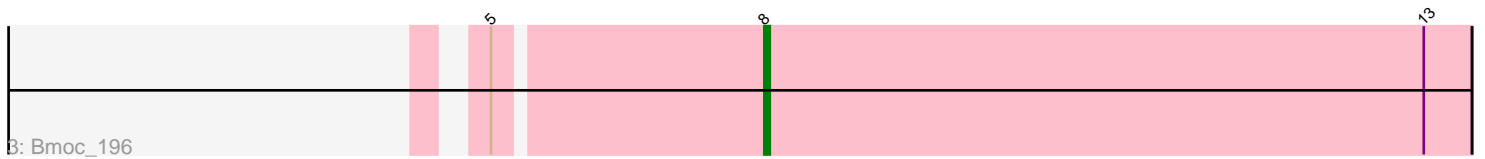
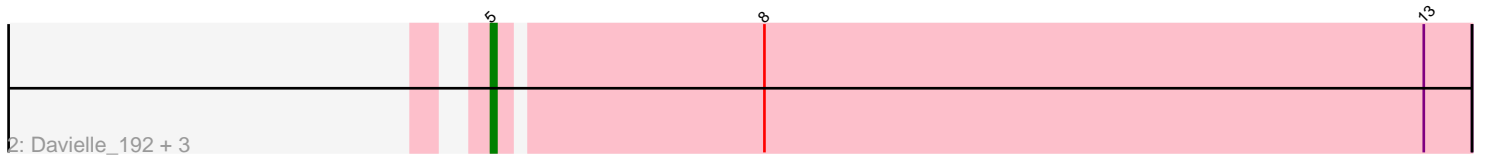
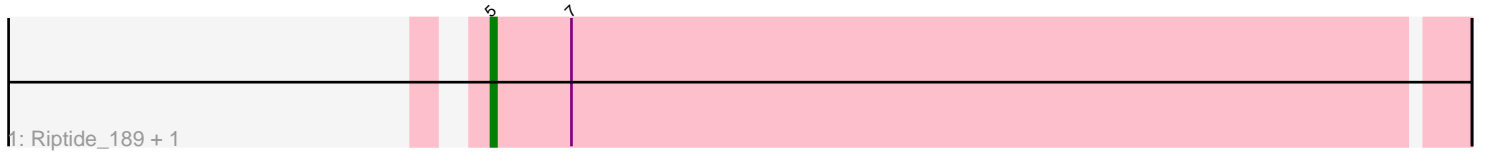


Pham 296729



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 296729 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296729 has 39 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Riptide\_189, Anedea\_197
- Track 2 : Davielle\_192, Braelyn\_188, WhereRU\_191, Persimmon\_192
- Track 3 : Bmoc\_196
- Track 4 : Sollertia\_200, BoomerJR\_199, Stanimal\_199, Yaboi\_204, Genie2\_199
- Track 5 : CeilingFan\_207, TomSawyer\_207, AcciDwight\_210, Brizzy\_202, Birchlyn\_201, Starbow\_200, KentuckyRacer\_209, IchabodCrane\_198, PumpkinSpice\_205, Battuta\_200, Gibbi\_210, Quaran19\_203, Spelly\_206, Rikishi\_203, JimJam\_210, Jollison\_200, Spilled\_209, MindFlayer\_196, Wipeout\_194, Bordeaux\_201, SaltySpitooon\_202
- Track 6 : Karimac\_203, Amabiko\_207
- Track 7 : Enygma\_209
- Track 8 : AngryGiraffe\_198
- Track 9 : StarPlatinum\_210
- Track 10 : LukeCage\_206

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

The start number called the most often in the published annotations is 3, it was called in 27 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight\_210, AngryGiraffe\_198, Battuta\_200, Birchlyn\_201, BoomerJR\_199, Bordeaux\_201, Brizzy\_202, CeilingFan\_207, Enygma\_209, Genie2\_199, Gibbi\_210, IchabodCrane\_198, JimJam\_210, Jollison\_200, KentuckyRacer\_209, MindFlayer\_196, PumpkinSpice\_205, Quaran19\_203, Rikishi\_203, SaltySpitooon\_202, Sollertia\_200, Spelly\_206, Spilled\_209, Stanimal\_199, StarPlatinum\_210, Starbow\_200, TomSawyer\_207, Wipeout\_194, Yaboi\_204,

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

- Amabiko\_207, Karimac\_203,

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

- Anedea\_197, Bmoc\_196, Braelyn\_188, Davielle\_192, LukeCage\_206, Persimmon\_192, Riptide\_189, WhereRU\_191,

## Summary by start number:

### Start 3:

- Found in 31 of 39 ( 79.5% ) of genes in pham
- Manual Annotations of this start: 27 of 37
- Called 93.5% of time when present
- Phage (with cluster) where this start called: AcciDwight\_210 (BE2), AngryGiraffe\_198 (BE2), Battuta\_200 (BE2), Birchlyn\_201 (BE2), BoomerJR\_199 (BE2), Bordeaux\_201 (BE2), Brizzy\_202 (BE2), CeilingFan\_207 (BE2), Enygma\_209 (BE2), Genie2\_199 (BE2), Gibbi\_210 (BE2), IchabodCrane\_198 (BE2), JimJam\_210 (BE2), Jollison\_200 (BE2), KentuckyRacer\_209 (BE2), MindFlayer\_196 (BE2), PumpkinSpice\_205 (BE2), Quaran19\_203 (BE2), Rikishi\_203 (BE2), SaltySpittoon\_202 (BE2), Sollertia\_200 (BE2), Spelly\_206 (BE2), Spilled\_209 (BE2), Stanimal\_199 (BE2), StarPlatinum\_210 (BE2), Starbow\_200 (BE2), TomSawyer\_207 (BE2), Wipeout\_194 (BE2), Yaboi\_204 (BE2),

### Start 4:

- Found in 1 of 39 ( 2.6% ) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LukeCage\_206 (BE2),

### Start 5:

- Found in 7 of 39 ( 17.9% ) of genes in pham
- Manual Annotations of this start: 6 of 37
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Anedea\_197 (BE1), Braelyn\_188 (BE1), Davielle\_192 (BE1), Persimmon\_192 (BE1), Riptide\_189 (BE1), WhereRU\_191 (BE1),

### Start 6:

- Found in 23 of 39 ( 59.0% ) of genes in pham
- Manual Annotations of this start: 2 of 37
- Called 8.7% of time when present
- Phage (with cluster) where this start called: Amabiko\_207 (BE2), Karimac\_203 (BE2),

### Start 8:

- Found in 5 of 39 ( 12.8% ) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Bmoc\_196 (BE1),

## Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 5 was manually annotated 6 times for cluster BE1.
- Start number 8 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 3 was manually annotated 27 times for cluster BE2.
- Start number 4 was manually annotated 1 time for cluster BE2.
- Start number 6 was manually annotated 2 times for cluster BE2.

### **Gene Information:**

Gene: AcciDwight\_210 Start: 101273, Stop: 101452, Start Num: 3

Candidate Starts for AcciDwight\_210:

(Start: 3 @101273 has 27 MA's), (Start: 6 @101282 has 2 MA's), (9, 101336), (10, 101339),

Gene: Amabiko\_207 Start: 101100, Stop: 101270, Start Num: 6

Candidate Starts for Amabiko\_207:

(Start: 3 @101091 has 27 MA's), (Start: 6 @101100 has 2 MA's), (9, 101154), (10, 101157),

Gene: Anedea\_197 Start: 100479, Stop: 100658, Start Num: 5

Candidate Starts for Anedea\_197:

(Start: 5 @100479 has 6 MA's), (7, 100494),

Gene: AngryGiraffe\_198 Start: 100384, Stop: 100563, Start Num: 3

Candidate Starts for AngryGiraffe\_198:

(Start: 3 @100384 has 27 MA's), (9, 100447), (10, 100450),

Gene: Battuta\_200 Start: 100407, Stop: 100586, Start Num: 3

Candidate Starts for Battuta\_200:

(Start: 3 @100407 has 27 MA's), (Start: 6 @100416 has 2 MA's), (9, 100470), (10, 100473),

Gene: Birchlyn\_201 Start: 98339, Stop: 98518, Start Num: 3

Candidate Starts for Birchlyn\_201:

(Start: 3 @98339 has 27 MA's), (Start: 6 @98348 has 2 MA's), (9, 98402), (10, 98405),

Gene: Bmoc\_196 Start: 100674, Stop: 100805, Start Num: 8

Candidate Starts for Bmoc\_196:

(Start: 5 @100626 has 6 MA's), (Start: 8 @100674 has 1 MA's), (13, 100797),

Gene: BoomerJR\_199 Start: 100817, Stop: 100996, Start Num: 3

Candidate Starts for BoomerJR\_199:

(1, 100754), (Start: 3 @100817 has 27 MA's), (9, 100880), (10, 100883),

Gene: Bordeaux\_201 Start: 100990, Stop: 101169, Start Num: 3

Candidate Starts for Bordeaux\_201:

(Start: 3 @100990 has 27 MA's), (Start: 6 @100999 has 2 MA's), (9, 101053), (10, 101056),

Gene: Braelyn\_188 Start: 99463, Stop: 99642, Start Num: 5

Candidate Starts for Braelyn\_188:

(Start: 5 @99463 has 6 MA's), (Start: 8 @99511 has 1 MA's), (13, 99634),

Gene: Brizzy\_202 Start: 101526, Stop: 101705, Start Num: 3

Candidate Starts for Brizzy\_202:

(Start: 3 @101526 has 27 MA's), (Start: 6 @101535 has 2 MA's), (9, 101589), (10, 101592),

Gene: CeilingFan\_207 Start: 101784, Stop: 101963, Start Num: 3

Candidate Starts for CeilingFan\_207:  
(Start: 3 @101784 has 27 MA's), (Start: 6 @101793 has 2 MA's), (9, 101847), (10, 101850),

Gene: Davielle\_192 Start: 99791, Stop: 99970, Start Num: 5  
Candidate Starts for Davielle\_192:  
(Start: 5 @99791 has 6 MA's), (Start: 8 @99839 has 1 MA's), (13, 99962),

Gene: Enygma\_209 Start: 103807, Stop: 103986, Start Num: 3  
Candidate Starts for Enygma\_209:  
(2, 103798), (Start: 3 @103807 has 27 MA's), (10, 103873),

Gene: Genie2\_199 Start: 100931, Stop: 101110, Start Num: 3  
Candidate Starts for Genie2\_199:  
(1, 100868), (Start: 3 @100931 has 27 MA's), (9, 100994), (10, 100997),

Gene: Gibbi\_210 Start: 101277, Stop: 101456, Start Num: 3  
Candidate Starts for Gibbi\_210:  
(Start: 3 @101277 has 27 MA's), (Start: 6 @101286 has 2 MA's), (9, 101340), (10, 101343),

Gene: IchabodCrane\_198 Start: 100792, Stop: 100971, Start Num: 3  
Candidate Starts for IchabodCrane\_198:  
(Start: 3 @100792 has 27 MA's), (Start: 6 @100801 has 2 MA's), (9, 100855), (10, 100858),

Gene: JimJam\_210 Start: 102713, Stop: 102892, Start Num: 3  
Candidate Starts for JimJam\_210:  
(Start: 3 @102713 has 27 MA's), (Start: 6 @102722 has 2 MA's), (9, 102776), (10, 102779),

Gene: Jollison\_200 Start: 100923, Stop: 101102, Start Num: 3  
Candidate Starts for Jollison\_200:  
(Start: 3 @100923 has 27 MA's), (Start: 6 @100932 has 2 MA's), (9, 100986), (10, 100989),

Gene: Karimac\_203 Start: 101126, Stop: 101296, Start Num: 6  
Candidate Starts for Karimac\_203:  
(Start: 3 @101117 has 27 MA's), (Start: 6 @101126 has 2 MA's), (9, 101180), (10, 101183),

Gene: KentuckyRacer\_209 Start: 102628, Stop: 102807, Start Num: 3  
Candidate Starts for KentuckyRacer\_209:  
(Start: 3 @102628 has 27 MA's), (Start: 6 @102637 has 2 MA's), (9, 102691), (10, 102694),

Gene: LukeCage\_206 Start: 102605, Stop: 102784, Start Num: 4  
Candidate Starts for LukeCage\_206:  
(Start: 4 @102605 has 1 MA's), (10, 102671), (11, 102698), (12, 102740),

Gene: MindFlayer\_196 Start: 100308, Stop: 100487, Start Num: 3  
Candidate Starts for MindFlayer\_196:  
(Start: 3 @100308 has 27 MA's), (Start: 6 @100317 has 2 MA's), (9, 100371), (10, 100374),

Gene: Persimmon\_192 Start: 99039, Stop: 99218, Start Num: 5  
Candidate Starts for Persimmon\_192:  
(Start: 5 @99039 has 6 MA's), (Start: 8 @99087 has 1 MA's), (13, 99210),

Gene: PumpkinSpice\_205 Start: 101529, Stop: 101708, Start Num: 3  
Candidate Starts for PumpkinSpice\_205:

(Start: 3 @101529 has 27 MA's), (Start: 6 @101538 has 2 MA's), (9, 101592), (10, 101595),

Gene: Quaran19\_203 Start: 100970, Stop: 101149, Start Num: 3

Candidate Starts for Quaran19\_203:

(Start: 3 @100970 has 27 MA's), (Start: 6 @100979 has 2 MA's), (9, 101033), (10, 101036),

Gene: Rikishi\_203 Start: 101251, Stop: 101430, Start Num: 3

Candidate Starts for Rikishi\_203:

(Start: 3 @101251 has 27 MA's), (Start: 6 @101260 has 2 MA's), (9, 101314), (10, 101317),

Gene: Riptide\_189 Start: 99118, Stop: 99297, Start Num: 5

Candidate Starts for Riptide\_189:

(Start: 5 @99118 has 6 MA's), (7, 99133),

Gene: SaltySpittoon\_202 Start: 100512, Stop: 100691, Start Num: 3

Candidate Starts for SaltySpittoon\_202:

(Start: 3 @100512 has 27 MA's), (Start: 6 @100521 has 2 MA's), (9, 100575), (10, 100578),

Gene: Sollertia\_200 Start: 100931, Stop: 101110, Start Num: 3

Candidate Starts for Sollertia\_200:

(1, 100868), (Start: 3 @100931 has 27 MA's), (9, 100994), (10, 100997),

Gene: Spelly\_206 Start: 100441, Stop: 100620, Start Num: 3

Candidate Starts for Spelly\_206:

(Start: 3 @100441 has 27 MA's), (Start: 6 @100450 has 2 MA's), (9, 100504), (10, 100507),

Gene: Spilled\_209 Start: 101645, Stop: 101824, Start Num: 3

Candidate Starts for Spilled\_209:

(Start: 3 @101645 has 27 MA's), (Start: 6 @101654 has 2 MA's), (9, 101708), (10, 101711),

Gene: Stanimal\_199 Start: 101292, Stop: 101471, Start Num: 3

Candidate Starts for Stanimal\_199:

(1, 101229), (Start: 3 @101292 has 27 MA's), (9, 101355), (10, 101358),

Gene: StarPlatinum\_210 Start: 103114, Stop: 103293, Start Num: 3

Candidate Starts for StarPlatinum\_210:

(Start: 3 @103114 has 27 MA's), (10, 103180), (12, 103249),

Gene: Starbow\_200 Start: 100485, Stop: 100664, Start Num: 3

Candidate Starts for Starbow\_200:

(Start: 3 @100485 has 27 MA's), (Start: 6 @100494 has 2 MA's), (9, 100548), (10, 100551),

Gene: TomSawyer\_207 Start: 102956, Stop: 103117, Start Num: 3

Candidate Starts for TomSawyer\_207:

(Start: 3 @102956 has 27 MA's), (Start: 6 @102965 has 2 MA's), (9, 103019), (10, 103022),

Gene: WhereRU\_191 Start: 99791, Stop: 99970, Start Num: 5

Candidate Starts for WhereRU\_191:

(Start: 5 @99791 has 6 MA's), (Start: 8 @99839 has 1 MA's), (13, 99962),

Gene: Wipeout\_194 Start: 101908, Stop: 102069, Start Num: 3

Candidate Starts for Wipeout\_194:

(Start: 3 @101908 has 27 MA's), (Start: 6 @101917 has 2 MA's), (9, 101971), (10, 101974),

Gene: Yaboi\_204 Start: 100866, Stop: 101045, Start Num: 3

Candidate Starts for Yaboi\_204:

(1, 100803), (Start: 3 @100866 has 27 MA's), (9, 100929), (10, 100932),