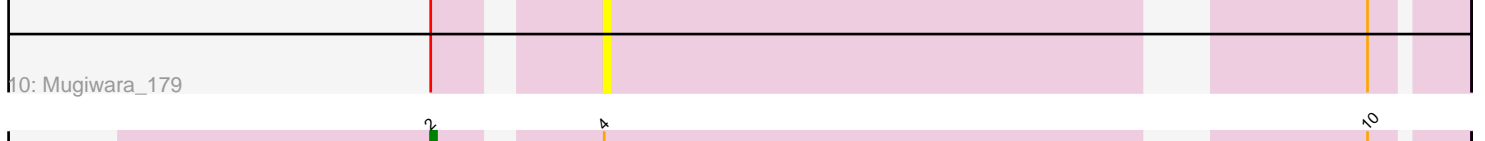
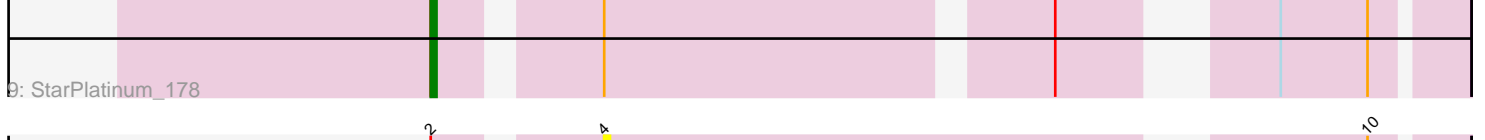
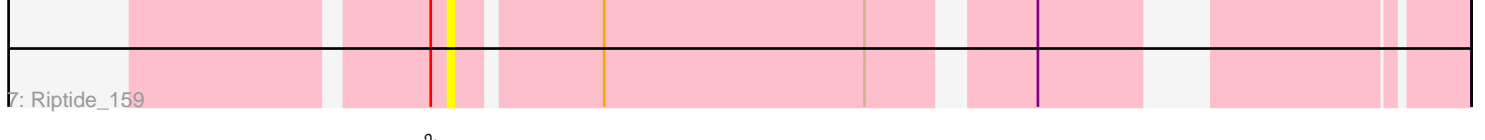
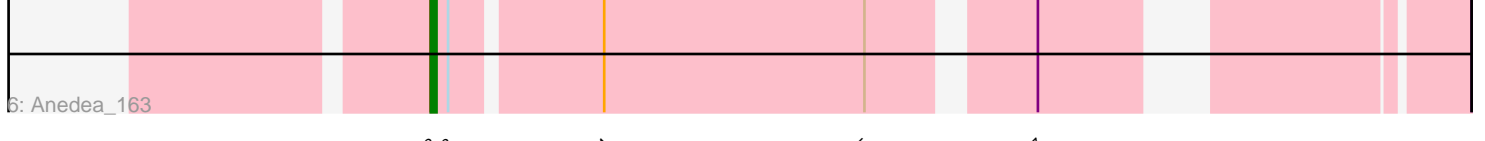
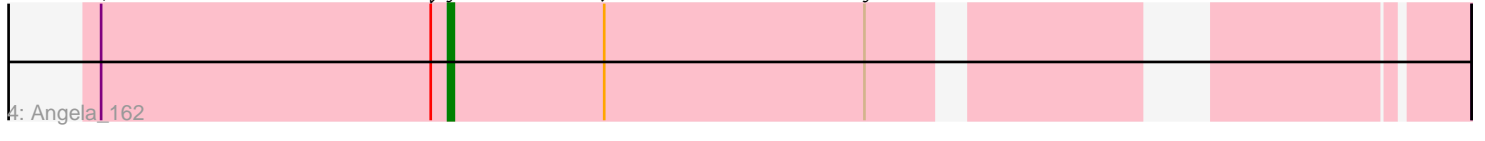
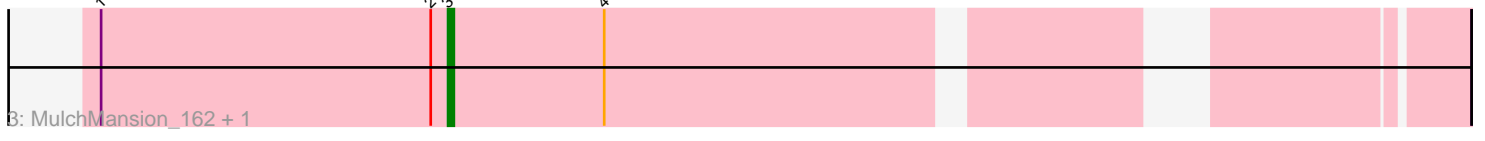
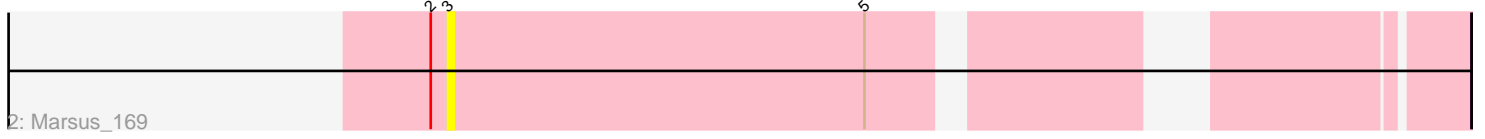
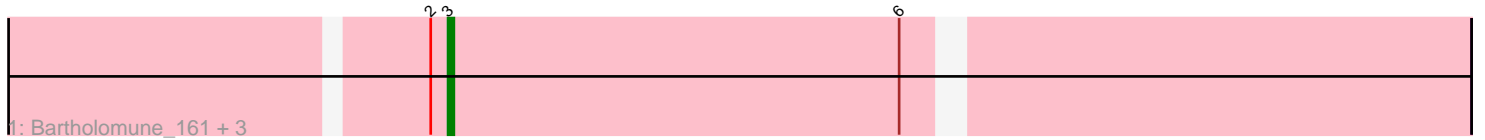


Pham 206997



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 206997 Report

This analysis was run 02/22/25 on database version 588.

Pham number 206997 has 40 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Bartholomune\_161, Squillium\_161, PinkiePie\_158, Liandry\_161
- Track 2 : Marsus\_169
- Track 3 : MulchMansion\_162, LilMartin\_160
- Track 4 : Angela\_162
- Track 5 : Bmoc\_165
- Track 6 : Anedea\_163
- Track 7 : Riptide\_159
- Track 8 : Genie2\_169, CeilingFan\_174, Bordeaux\_170, BoomerJR\_169, Karimac\_171, Stanimal\_168, Wipeout\_165, Birchlyn\_171, Rikishi\_179, TomSawyer\_176, IchabodCrane\_167, Amabiko\_174, Yaboi\_171, Spelly\_175, JimJam\_178, Battuta\_171, Quaran19\_172, Gibbi\_180, Starbow\_169, KentuckyRacer\_176, LukeCage\_171, MindFlayer\_167, SaltySpittoon\_172, Sollertia\_169, PumpkinSpice\_174, Spilled\_177
- Track 9 : StarPlatinum\_178
- Track 10 : Mugiwara\_179
- Track 11 : Enygma\_174

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

The start number called the most often in the published annotations is 2, it was called in 27 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko\_174, Anedea\_163, Battuta\_171, Birchlyn\_171, BoomerJR\_169, Bordeaux\_170, CeilingFan\_174, Enygma\_174, Genie2\_169, Gibbi\_180, IchabodCrane\_167, JimJam\_178, Karimac\_171, KentuckyRacer\_176, LukeCage\_171, MindFlayer\_167, PumpkinSpice\_174, Quaran19\_172, Rikishi\_179, SaltySpittoon\_172, Sollertia\_169, Spelly\_175, Spilled\_177, Stanimal\_168, StarPlatinum\_178, Starbow\_169, TomSawyer\_176, Wipeout\_165, Yaboi\_171,

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

- Angela\_162, Bartholomune\_161, Bmoc\_165, Liandry\_161, LilMartin\_160, Marsus\_169, Mugiwara\_179, MulchMansion\_162, PinkiePie\_158, Riptide\_159, Squillium\_161,

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

- 

### Summary by start number:

Start 2:

- Found in 40 of 40 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 27 of 35
- Called 72.5% of time when present
- Phage (with cluster) where this start called: Amabiko\_174 (BE2), Anedea\_163 (BE1), Battuta\_171 (BE2), Birchlyn\_171 (BE2), BoomerJR\_169 (BE2), Bordeaux\_170 (BE2), CeilingFan\_174 (BE2), Enygma\_174 (BE2), Genie2\_169 (BE2), Gibbi\_180 (BE2), IchabodCrane\_167 (BE2), JimJam\_178 (BE2), Karimac\_171 (BE2), KentuckyRacer\_176 (BE2), LukeCage\_171 (BE2), MindFlayer\_167 (BE2), PumpkinSpice\_174 (BE2), Quaran19\_172 (BE2), Rikishi\_179 (BE2), SaltySpittoon\_172 (BE2), Sollertia\_169 (BE2), Spelly\_175 (BE2), Spilled\_177 (BE2), Stanimal\_168 (BE2), StarPlatinum\_178 (BE2), Starbow\_169 (BE2), TomSawyer\_176 (BE2), Wipeout\_165 (BE2), Yaboi\_171 (BE2),

Start 3:

- Found in 11 of 40 ( 27.5% ) of genes in pham
- Manual Annotations of this start: 8 of 35
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Angela\_162 (BE1), Bartholomune\_161 (BE1), Bmoc\_165 (BE1), Liandry\_161 (BE1), LilMartin\_160 (BE1), Marsus\_169 (BE1), MulchMansion\_162 (BE1), PinkiePie\_158 (BE1), Riptide\_159 (BE1), Squillium\_161 (BE1),

Start 4:

- Found in 8 of 40 ( 20.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Mugiwara\_179 (BE2),

### Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 2 was manually annotated 1 time for cluster BE1.
- Start number 3 was manually annotated 8 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 26 times for cluster BE2.

### Gene Information:

Gene: Amabiko\_174 Start: 92371, Stop: 92517, Start Num: 2

Candidate Starts for Amabiko\_174:

(Start: 2 @92371 has 27 MA's),

Gene: Anedea\_163 Start: 90802, Stop: 90957, Start Num: 2  
Candidate Starts for Anedea\_163:  
(Start: 2 @90802 has 27 MA's), (Start: 3 @90805 has 8 MA's), (4, 90829), (5, 90874), (7, 90898),

Gene: Angela\_162 Start: 91184, Stop: 91339, Start Num: 3  
Candidate Starts for Angela\_162:  
(1, 91124), (Start: 2 @91181 has 27 MA's), (Start: 3 @91184 has 8 MA's), (4, 91211), (5, 91256),

Gene: Bartholomune\_161 Start: 90983, Stop: 91153, Start Num: 3  
Candidate Starts for Bartholomune\_161:  
(Start: 2 @90980 has 27 MA's), (Start: 3 @90983 has 8 MA's), (6, 91061),

Gene: Battuta\_171 Start: 92153, Stop: 92299, Start Num: 2  
Candidate Starts for Battuta\_171:  
(Start: 2 @92153 has 27 MA's),

Gene: Birchlyn\_171 Start: 90010, Stop: 90156, Start Num: 2  
Candidate Starts for Birchlyn\_171:  
(Start: 2 @90010 has 27 MA's),

Gene: Bmoc\_165 Start: 91374, Stop: 91526, Start Num: 3  
Candidate Starts for Bmoc\_165:  
(Start: 2 @91371 has 27 MA's), (Start: 3 @91374 has 8 MA's), (5, 91443), (8, 91470),

Gene: BoomerJR\_169 Start: 92442, Stop: 92588, Start Num: 2  
Candidate Starts for BoomerJR\_169:  
(Start: 2 @92442 has 27 MA's),

Gene: Bordeaux\_170 Start: 92660, Stop: 92806, Start Num: 2  
Candidate Starts for Bordeaux\_170:  
(Start: 2 @92660 has 27 MA's),

Gene: CeilingFan\_174 Start: 92894, Stop: 93040, Start Num: 2  
Candidate Starts for CeilingFan\_174:  
(Start: 2 @92894 has 27 MA's),

Gene: Enygma\_174 Start: 95024, Stop: 95182, Start Num: 2  
Candidate Starts for Enygma\_174:  
(Start: 2 @95024 has 27 MA's), (4, 95048), (10, 95168),

Gene: Genie2\_169 Start: 92556, Stop: 92702, Start Num: 2  
Candidate Starts for Genie2\_169:  
(Start: 2 @92556 has 27 MA's),

Gene: Gibbi\_180 Start: 92948, Stop: 93094, Start Num: 2  
Candidate Starts for Gibbi\_180:  
(Start: 2 @92948 has 27 MA's),

Gene: IchabodCrane\_167 Start: 92072, Stop: 92218, Start Num: 2  
Candidate Starts for IchabodCrane\_167:  
(Start: 2 @92072 has 27 MA's),

Gene: JimJam\_178 Start: 93993, Stop: 94139, Start Num: 2  
Candidate Starts for JimJam\_178:  
(Start: 2 @93993 has 27 MA's),

Gene: Karimac\_171 Start: 92617, Stop: 92763, Start Num: 2  
Candidate Starts for Karimac\_171:  
(Start: 2 @92617 has 27 MA's),

Gene: KentuckyRacer\_176 Start: 93739, Stop: 93885, Start Num: 2  
Candidate Starts for KentuckyRacer\_176:  
(Start: 2 @93739 has 27 MA's),

Gene: Liandry\_161 Start: 91726, Stop: 91896, Start Num: 3  
Candidate Starts for Liandry\_161:  
(Start: 2 @91723 has 27 MA's), (Start: 3 @91726 has 8 MA's), (6, 91804),

Gene: LilMartin\_160 Start: 90830, Stop: 90985, Start Num: 3  
Candidate Starts for LilMartin\_160:  
(1, 90770), (Start: 2 @90827 has 27 MA's), (Start: 3 @90830 has 8 MA's), (4, 90857),

Gene: LukeCage\_171 Start: 93627, Stop: 93773, Start Num: 2  
Candidate Starts for LukeCage\_171:  
(Start: 2 @93627 has 27 MA's),

Gene: Marsus\_169 Start: 91379, Stop: 91534, Start Num: 3  
Candidate Starts for Marsus\_169:  
(Start: 2 @91376 has 27 MA's), (Start: 3 @91379 has 8 MA's), (5, 91451),

Gene: MindFlayer\_167 Start: 91979, Stop: 92125, Start Num: 2  
Candidate Starts for MindFlayer\_167:  
(Start: 2 @91979 has 27 MA's),

Gene: Mugiwara\_179 Start: 93609, Stop: 93743, Start Num: 4  
Candidate Starts for Mugiwara\_179:  
(Start: 2 @93585 has 27 MA's), (4, 93609), (10, 93729),

Gene: MulchMansion\_162 Start: 91446, Stop: 91601, Start Num: 3  
Candidate Starts for MulchMansion\_162:  
(1, 91386), (Start: 2 @91443 has 27 MA's), (Start: 3 @91446 has 8 MA's), (4, 91473),

Gene: PinkiePie\_158 Start: 91726, Stop: 91896, Start Num: 3  
Candidate Starts for PinkiePie\_158:  
(Start: 2 @91723 has 27 MA's), (Start: 3 @91726 has 8 MA's), (6, 91804),

Gene: PumpkinSpice\_174 Start: 93200, Stop: 93346, Start Num: 2  
Candidate Starts for PumpkinSpice\_174:  
(Start: 2 @93200 has 27 MA's),

Gene: Quaran19\_172 Start: 92639, Stop: 92785, Start Num: 2  
Candidate Starts for Quaran19\_172:  
(Start: 2 @92639 has 27 MA's),

Gene: Rikishi\_179 Start: 92752, Stop: 92898, Start Num: 2

Candidate Starts for Rikishi\_179:  
(Start: 2 @92752 has 27 MA's),

Gene: Riptide\_159 Start: 89445, Stop: 89597, Start Num: 3  
Candidate Starts for Riptide\_159:  
(Start: 2 @89442 has 27 MA's), (Start: 3 @89445 has 8 MA's), (4, 89469), (5, 89514), (7, 89538),

Gene: SaltySpittoon\_172 Start: 92183, Stop: 92329, Start Num: 2  
Candidate Starts for SaltySpittoon\_172:  
(Start: 2 @92183 has 27 MA's),

Gene: Sollertia\_169 Start: 92556, Stop: 92702, Start Num: 2  
Candidate Starts for Sollertia\_169:  
(Start: 2 @92556 has 27 MA's),

Gene: Spelly\_175 Start: 92112, Stop: 92258, Start Num: 2  
Candidate Starts for Spelly\_175:  
(Start: 2 @92112 has 27 MA's),

Gene: Spilled\_177 Start: 92925, Stop: 93071, Start Num: 2  
Candidate Starts for Spilled\_177:  
(Start: 2 @92925 has 27 MA's),

Gene: Squillium\_161 Start: 91728, Stop: 91898, Start Num: 3  
Candidate Starts for Squillium\_161:  
(Start: 2 @91725 has 27 MA's), (Start: 3 @91728 has 8 MA's), (6, 91806),

Gene: Stanimal\_168 Start: 92917, Stop: 93063, Start Num: 2  
Candidate Starts for Stanimal\_168:  
(Start: 2 @92917 has 27 MA's),

Gene: StarPlatinum\_178 Start: 94656, Stop: 94808, Start Num: 2  
Candidate Starts for StarPlatinum\_178:  
(Start: 2 @94656 has 27 MA's), (4, 94680), (8, 94752), (9, 94779), (10, 94794),

Gene: Starbow\_169 Start: 92156, Stop: 92302, Start Num: 2  
Candidate Starts for Starbow\_169:  
(Start: 2 @92156 has 27 MA's),

Gene: TomSawyer\_176 Start: 93844, Stop: 93990, Start Num: 2  
Candidate Starts for TomSawyer\_176:  
(Start: 2 @93844 has 27 MA's),

Gene: Wipeout\_165 Start: 93188, Stop: 93334, Start Num: 2  
Candidate Starts for Wipeout\_165:  
(Start: 2 @93188 has 27 MA's),

Gene: Yaboi\_171 Start: 92491, Stop: 92637, Start Num: 2  
Candidate Starts for Yaboi\_171:  
(Start: 2 @92491 has 27 MA's),