

Pham 154853



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 154853 Report

This analysis was run 04/22/24 on database version 561.

Pham number 154853 has 38 members, 7 are drafts.

Phages represented in each track:

- Track 1 : LilMartin\_110, Angela\_110, MulchMansion\_110
- Track 2 : Anedea\_109, Bmoc\_111
- Track 3 : Mildred21\_112
- Track 4 : Enygma\_115
- Track 5 : BoomerJR\_117, Genie2\_117, Yaboi\_117, Stanimal\_116, Sollertia\_116
- Track 6 : IchabodCrane\_114
- Track 7 : Jollison\_121, Battuta\_115, KentuckyRacer\_123, SaltySpittoon\_116, MindFlayer\_114, CeilingFan\_121, TomSawyer\_117, Bordeaux\_115, Starbow\_115, JimJam\_118, PumpkinSpice\_117, Amabiko\_117, Gibbi\_122, Spelly\_117, Quaran19\_116, Birchlyn\_114, Wipeout\_114
- Track 8 : LukeCage\_115
- Track 9 : Spilled\_118, Karimac\_116
- Track 10 : Elmer\_122
- Track 11 : Tomas\_119
- Track 12 : Wofford\_112
- Track 13 : StarPlatinum\_117
- Track 14 : Mugiwara\_120

### ***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 29 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko\_117, Anedea\_109, Angela\_110, Battuta\_115, Birchlyn\_114, Bmoc\_111, BoomerJR\_117, Bordeaux\_115, CeilingFan\_121, Elmer\_122, Enygma\_115, Genie2\_117, Gibbi\_122, JimJam\_118, Jollison\_121, Karimac\_116, KentuckyRacer\_123, LilMartin\_110, LukeCage\_115, Mildred21\_112, MindFlayer\_114, Mugiwara\_120, MulchMansion\_110, PumpkinSpice\_117, Quaran19\_116, SaltySpittoon\_116, Sollertia\_116, Spelly\_117, Spilled\_118, Stanimal\_116, StarPlatinum\_117, Starbow\_115, TomSawyer\_117, Tomas\_119, Wipeout\_114, Yaboi\_117,

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

- IchabodCrane\_114, Wofford\_112,

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

- 

### Summary by start number:

Start 7:

- Found in 24 of 38 ( 63.2% ) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 8.3% of time when present
- Phage (with cluster) where this start called: IchabodCrane\_114 (BE2), Wofford\_112 (BE2),

Start 8:

- Found in 38 of 38 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 31
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Amabiko\_117 (BE2), Anedea\_109 (BE1), Angela\_110 (BE1), Battuta\_115 (BE2), Birchlyn\_114 (BE2), Bmoc\_111 (BE1), BoomerJR\_117 (BE2), Bordeaux\_115 (BE2), CeilingFan\_121 (BE2), Elmer\_122 (BE2), Enygma\_115 (BE2), Genie2\_117 (BE2), Gibbi\_122 (BE2), JimJam\_118 (BE2), Jollison\_121 (BE2), Karimac\_116 (BE2), KentuckyRacer\_123 (BE2), LilMartin\_110 (BE1), LukeCage\_115 (BE2), Mildred21\_112 (BE1), MindFlayer\_114 (BE2), Mugiwara\_120 (BE2), MulchMansion\_110 (BE1), PumpkinSpice\_117 (BE2), Quaran19\_116 (BE2), SaltySpittoon\_116 (BE2), Sollertia\_116 (BE2), Spelly\_117 (BE2), Spilled\_118 (BE2), Stanimal\_116 (BE2), StarPlatinum\_117 (BE2), Starbow\_115 (BE2), TomSawyer\_117 (BE2), Tomas\_119 (BE2), Wipeout\_114 (BE2), Yaboi\_117 (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 5 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 7 was manually annotated 2 times for cluster BE2.
- Start number 8 was manually annotated 24 times for cluster BE2.

### Gene Information:

Gene: Amabiko\_117 Start: 77265, Stop: 77444, Start Num: 8

Candidate Starts for Amabiko\_117:

(2, 77187), (Start: 7 @77262 has 2 MA's), (Start: 8 @77265 has 29 MA's), (13, 77376), (14, 77406),

Gene: Anedea\_109 Start: 75835, Stop: 76008, Start Num: 8

Candidate Starts for Anedea\_109:

(6, 75817), (Start: 8 @75835 has 29 MA's), (10, 75928), (11, 75937), (12, 75940), (13, 75943),

Gene: Angela\_110 Start: 76178, Stop: 76351, Start Num: 8  
Candidate Starts for Angela\_110:  
(Start: 8 @76178 has 29 MA's), (10, 76271), (11, 76280), (12, 76283), (13, 76286), (15, 76337),

Gene: Battuta\_115 Start: 77239, Stop: 77418, Start Num: 8  
Candidate Starts for Battuta\_115:  
(2, 77161), (Start: 7 @77236 has 2 MA's), (Start: 8 @77239 has 29 MA's), (13, 77350), (14, 77380),

Gene: Birchlyn\_114 Start: 75125, Stop: 75304, Start Num: 8  
Candidate Starts for Birchlyn\_114:  
(2, 75047), (Start: 7 @75122 has 2 MA's), (Start: 8 @75125 has 29 MA's), (13, 75236), (14, 75266),

Gene: Bmoc\_111 Start: 76263, Stop: 76436, Start Num: 8  
Candidate Starts for Bmoc\_111:  
(6, 76245), (Start: 8 @76263 has 29 MA's), (10, 76356), (11, 76365), (12, 76368), (13, 76371),

Gene: BoomerJR\_117 Start: 77305, Stop: 77484, Start Num: 8  
Candidate Starts for BoomerJR\_117:  
(Start: 8 @77305 has 29 MA's), (13, 77416), (14, 77446),

Gene: Bordeaux\_115 Start: 77394, Stop: 77573, Start Num: 8  
Candidate Starts for Bordeaux\_115:  
(2, 77316), (Start: 7 @77391 has 2 MA's), (Start: 8 @77394 has 29 MA's), (13, 77505), (14, 77535),

Gene: CeilingFan\_121 Start: 77157, Stop: 77336, Start Num: 8  
Candidate Starts for CeilingFan\_121:  
(2, 77079), (Start: 7 @77154 has 2 MA's), (Start: 8 @77157 has 29 MA's), (13, 77268), (14, 77298),

Gene: Elmer\_122 Start: 78466, Stop: 78645, Start Num: 8  
Candidate Starts for Elmer\_122:  
(Start: 7 @78463 has 2 MA's), (Start: 8 @78466 has 29 MA's), (13, 78577), (14, 78607),

Gene: Enygma\_115 Start: 78780, Stop: 78959, Start Num: 8  
Candidate Starts for Enygma\_115:  
(1, 78699), (3, 78729), (4, 78735), (5, 78747), (Start: 7 @78777 has 2 MA's), (Start: 8 @78780 has 29 MA's), (14, 78921),

Gene: Genie2\_117 Start: 77419, Stop: 77598, Start Num: 8  
Candidate Starts for Genie2\_117:  
(Start: 8 @77419 has 29 MA's), (13, 77530), (14, 77560),

Gene: Gibbi\_122 Start: 77377, Stop: 77556, Start Num: 8  
Candidate Starts for Gibbi\_122:  
(2, 77299), (Start: 7 @77374 has 2 MA's), (Start: 8 @77377 has 29 MA's), (13, 77488), (14, 77518),

Gene: IchabodCrane\_114 Start: 76963, Stop: 77145, Start Num: 7  
Candidate Starts for IchabodCrane\_114:  
(2, 76888), (Start: 7 @76963 has 2 MA's), (Start: 8 @76966 has 29 MA's), (13, 77077), (14, 77107),

Gene: JimJam\_118 Start: 77788, Stop: 77967, Start Num: 8  
Candidate Starts for JimJam\_118:  
(2, 77710), (Start: 7 @77785 has 2 MA's), (Start: 8 @77788 has 29 MA's), (13, 77899), (14, 77929),

Gene: Jollison\_121 Start: 77222, Stop: 77401, Start Num: 8  
Candidate Starts for Jollison\_121:  
(2, 77144), (Start: 7 @77219 has 2 MA's), (Start: 8 @77222 has 29 MA's), (13, 77333), (14, 77363),

Gene: Karimac\_116 Start: 77503, Stop: 77682, Start Num: 8  
Candidate Starts for Karimac\_116:  
(2, 77425), (Start: 7 @77500 has 2 MA's), (Start: 8 @77503 has 29 MA's), (13, 77614), (14, 77644),

Gene: KentuckyRacer\_123 Start: 77652, Stop: 77831, Start Num: 8  
Candidate Starts for KentuckyRacer\_123:  
(2, 77574), (Start: 7 @77649 has 2 MA's), (Start: 8 @77652 has 29 MA's), (13, 77763), (14, 77793),

Gene: LilMartin\_110 Start: 76126, Stop: 76299, Start Num: 8  
Candidate Starts for LilMartin\_110:  
(Start: 8 @76126 has 29 MA's), (10, 76219), (11, 76228), (12, 76231), (13, 76234), (15, 76285),

Gene: LukeCage\_115 Start: 77173, Stop: 77352, Start Num: 8  
Candidate Starts for LukeCage\_115:  
(Start: 8 @77173 has 29 MA's), (13, 77284), (14, 77314),

Gene: Mildred21\_112 Start: 76359, Stop: 76538, Start Num: 8  
Candidate Starts for Mildred21\_112:  
(Start: 8 @76359 has 29 MA's), (13, 76467),

Gene: MindFlayer\_114 Start: 76873, Stop: 77052, Start Num: 8  
Candidate Starts for MindFlayer\_114:  
(2, 76795), (Start: 7 @76870 has 2 MA's), (Start: 8 @76873 has 29 MA's), (13, 76984), (14, 77014),

Gene: Mugiwara\_120 Start: 77757, Stop: 77936, Start Num: 8  
Candidate Starts for Mugiwara\_120:  
(Start: 7 @77754 has 2 MA's), (Start: 8 @77757 has 29 MA's), (13, 77868), (14, 77898),

Gene: MulchMansion\_110 Start: 76126, Stop: 76299, Start Num: 8  
Candidate Starts for MulchMansion\_110:  
(Start: 8 @76126 has 29 MA's), (10, 76219), (11, 76228), (12, 76231), (13, 76234), (15, 76285),

Gene: PumpkinSpice\_117 Start: 77831, Stop: 78010, Start Num: 8  
Candidate Starts for PumpkinSpice\_117:  
(2, 77753), (Start: 7 @77828 has 2 MA's), (Start: 8 @77831 has 29 MA's), (13, 77942), (14, 77972),

Gene: Quaran19\_116 Start: 77256, Stop: 77435, Start Num: 8  
Candidate Starts for Quaran19\_116:  
(2, 77178), (Start: 7 @77253 has 2 MA's), (Start: 8 @77256 has 29 MA's), (13, 77367), (14, 77397),

Gene: SaltySpittoon\_116 Start: 77268, Stop: 77447, Start Num: 8  
Candidate Starts for SaltySpittoon\_116:  
(2, 77190), (Start: 7 @77265 has 2 MA's), (Start: 8 @77268 has 29 MA's), (13, 77379), (14, 77409),

Gene: Sollertia\_116 Start: 77419, Stop: 77598, Start Num: 8  
Candidate Starts for Sollertia\_116:  
(Start: 8 @77419 has 29 MA's), (13, 77530), (14, 77560),

Gene: Spelly\_117 Start: 77220, Stop: 77399, Start Num: 8

Candidate Starts for Spelly\_117:

(2, 77142), (Start: 7 @77217 has 2 MA's), (Start: 8 @77220 has 29 MA's), (13, 77331), (14, 77361),

Gene: Spilled\_118 Start: 77337, Stop: 77516, Start Num: 8

Candidate Starts for Spilled\_118:

(2, 77259), (Start: 7 @77334 has 2 MA's), (Start: 8 @77337 has 29 MA's), (13, 77448), (14, 77478),

Gene: Stanimal\_116 Start: 77308, Stop: 77487, Start Num: 8

Candidate Starts for Stanimal\_116:

(Start: 8 @77308 has 29 MA's), (13, 77419), (14, 77449),

Gene: StarPlatinum\_117 Start: 78051, Stop: 78227, Start Num: 8

Candidate Starts for StarPlatinum\_117:

(2, 77973), (Start: 8 @78051 has 29 MA's), (13, 78162), (14, 78192), (15, 78213),

Gene: Starbow\_115 Start: 77241, Stop: 77420, Start Num: 8

Candidate Starts for Starbow\_115:

(2, 77163), (Start: 7 @77238 has 2 MA's), (Start: 8 @77241 has 29 MA's), (13, 77352), (14, 77382),

Gene: TomSawyer\_117 Start: 77286, Stop: 77465, Start Num: 8

Candidate Starts for TomSawyer\_117:

(2, 77208), (Start: 7 @77283 has 2 MA's), (Start: 8 @77286 has 29 MA's), (13, 77397), (14, 77427),

Gene: Tomas\_119 Start: 79170, Stop: 79349, Start Num: 8

Candidate Starts for Tomas\_119:

(Start: 8 @79170 has 29 MA's), (9, 79203), (13, 79284), (14, 79314), (15, 79335),

Gene: Wipeout\_114 Start: 77610, Stop: 77789, Start Num: 8

Candidate Starts for Wipeout\_114:

(2, 77532), (Start: 7 @77607 has 2 MA's), (Start: 8 @77610 has 29 MA's), (13, 77721), (14, 77751),

Gene: Wofford\_112 Start: 78427, Stop: 78609, Start Num: 7

Candidate Starts for Wofford\_112:

(Start: 7 @78427 has 2 MA's), (Start: 8 @78430 has 29 MA's), (13, 78541), (14, 78571),

Gene: Yaboi\_117 Start: 77396, Stop: 77575, Start Num: 8

Candidate Starts for Yaboi\_117:

(Start: 8 @77396 has 29 MA's), (13, 77507), (14, 77537),