

Pham 158055



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 158055 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158055 has 34 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Mildred21\_118
- Track 2 : PumpkinSpice\_121
- Track 3 : Amabiko\_121, KentuckyRacer\_127, Spelly\_121, Quaran19\_120, Wipeout\_116, Karimac\_120, Gibbi\_126, Bordeaux\_119, Starbow\_119, Jollison\_125, Birchlyn\_118, Battuta\_119, SaltySpitooon\_120, TomSawyer\_121, CeilingFan\_125
- Track 4 : Mugiwara\_124, Anedea\_113, Bmoc\_116
- Track 5 : IchabodCrane\_116, MindFlayer\_117
- Track 6 : Spilled\_122, JimJam\_122
- Track 7 : Enygma\_119
- Track 8 : Elmer\_126, Wofford\_116
- Track 9 : LukeCage\_118
- Track 10 : StarPlatinum\_122
- Track 11 : Francob\_148
- Track 12 : Emma1919\_150
- Track 13 : Phredrick\_149, Kenrey\_152
- Track 14 : TunaTartare\_145

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

The start number called the most often in the published annotations is 11, it was called in 18 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko\_121, Anedea\_113, Battuta\_119, Birchlyn\_118, Bmoc\_116, Bordeaux\_119, CeilingFan\_125, Elmer\_126, Enygma\_119, Gibbi\_126, Jollison\_125, Karimac\_120, KentuckyRacer\_127, LukeCage\_118, Mildred21\_118, Mugiwara\_124, PumpkinSpice\_121, Quaran19\_120, SaltySpitooon\_120, Spelly\_121, StarPlatinum\_122, Starbow\_119, TomSawyer\_121, Wipeout\_116, Wofford\_116,

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

- IchabodCrane\_116, JimJam\_122, MindFlayer\_117, Spilled\_122,

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

- Emma1919\_150, Francob\_148, Kenrey\_152, Phredrick\_149, TunaTartare\_145,

## Summary by start number:

### Start 1:

- Found in 19 of 34 ( 55.9% ) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 10.5% of time when present
- Phage (with cluster) where this start called: IchabodCrane\_116 (BE2), MindFlayer\_117 (BE2),

### Start 4:

- Found in 19 of 34 ( 55.9% ) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 10.5% of time when present
- Phage (with cluster) where this start called: JimJam\_122 (BE2), Spilled\_122 (BE2),

### Start 9:

- Found in 5 of 34 ( 14.7% ) of genes in pham
- Manual Annotations of this start: 5 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emma1919\_150 (BK1), Francob\_148 (BK1), Kenrey\_152 (BK1), Phredrick\_149 (BK1), TunaTartare\_145 (BK1),

### Start 11:

- Found in 29 of 34 ( 85.3% ) of genes in pham
- Manual Annotations of this start: 18 of 27
- Called 86.2% of time when present
- Phage (with cluster) where this start called: Amabiko\_121 (BE2), Anedea\_113 (BE1), Battuta\_119 (BE2), Birchlyn\_118 (BE2), Bmoc\_116 (BE1), Bordeaux\_119 (BE2), CeilingFan\_125 (BE2), Elmer\_126 (BE2), Enygma\_119 (BE2), Gibbi\_126 (BE2), Jollison\_125 (BE2), Karimac\_120 (BE2), KentuckyRacer\_127 (BE2), LukeCage\_118 (BE2), Mildred21\_118 (BE1), Mugiwara\_124 (BE2), PumpkinSpice\_121 (BE2), Quarant19\_120 (BE2), SaltySpittoon\_120 (BE2), Spelly\_121 (BE2), StarPlatinum\_122 (BE2), Starbow\_119 (BE2), TomSawyer\_121 (BE2), Wipeout\_116 (BE2), Wofford\_116 (BE2),

## Summary by clusters:

There are 3 clusters represented in this pham: BE2, BE1, BK1,

Info for manual annotations of cluster BE1:

- Start number 11 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 1 was manually annotated 2 times for cluster BE2.
- Start number 4 was manually annotated 2 times for cluster BE2.
- Start number 11 was manually annotated 16 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 9 was manually annotated 5 times for cluster BK1.

**Gene Information:**

Gene: Amabiko\_121 Start: 77937, Stop: 78092, Start Num: 11

Candidate Starts for Amabiko\_121:

(Start: 1 @77835 has 2 MA's), (Start: 4 @77892 has 2 MA's), (Start: 11 @77937 has 18 MA's), (14, 77982), (17, 78066),

Gene: Anedea\_113 Start: 76495, Stop: 76650, Start Num: 11

Candidate Starts for Anedea\_113:

(Start: 11 @76495 has 18 MA's),

Gene: Battuta\_119 Start: 77911, Stop: 78066, Start Num: 11

Candidate Starts for Battuta\_119:

(Start: 1 @77809 has 2 MA's), (Start: 4 @77866 has 2 MA's), (Start: 11 @77911 has 18 MA's), (14, 77956), (17, 78040),

Gene: Birchlyn\_118 Start: 75797, Stop: 75952, Start Num: 11

Candidate Starts for Birchlyn\_118:

(Start: 1 @75695 has 2 MA's), (Start: 4 @75752 has 2 MA's), (Start: 11 @75797 has 18 MA's), (14, 75842), (17, 75926),

Gene: Bmoc\_116 Start: 77106, Stop: 77258, Start Num: 11

Candidate Starts for Bmoc\_116:

(Start: 11 @77106 has 18 MA's),

Gene: Bordeaux\_119 Start: 78066, Stop: 78221, Start Num: 11

Candidate Starts for Bordeaux\_119:

(Start: 1 @77964 has 2 MA's), (Start: 4 @78021 has 2 MA's), (Start: 11 @78066 has 18 MA's), (14, 78111), (17, 78195),

Gene: CeilingFan\_125 Start: 77829, Stop: 77984, Start Num: 11

Candidate Starts for CeilingFan\_125:

(Start: 1 @77727 has 2 MA's), (Start: 4 @77784 has 2 MA's), (Start: 11 @77829 has 18 MA's), (14, 77874), (17, 77958),

Gene: Elmer\_126 Start: 79140, Stop: 79295, Start Num: 11

Candidate Starts for Elmer\_126:

(5, 79104), (Start: 11 @79140 has 18 MA's), (14, 79185), (17, 79269),

Gene: Emma1919\_150 Start: 82354, Stop: 82509, Start Num: 9

Candidate Starts for Emma1919\_150:

(2, 82285), (3, 82309), (5, 82324), (Start: 9 @82354 has 5 MA's), (13, 82405), (15, 82468),

Gene: Enygma\_119 Start: 79456, Stop: 79611, Start Num: 11

Candidate Starts for Enygma\_119:

(Start: 11 @79456 has 18 MA's),

Gene: Francob\_148 Start: 82862, Stop: 83017, Start Num: 9

Candidate Starts for Francob\_148:

(2, 82793), (3, 82817), (5, 82832), (7, 82856), (8, 82859), (Start: 9 @82862 has 5 MA's), (13, 82913), (15, 82976),

Gene: Gibbi\_126 Start: 78049, Stop: 78204, Start Num: 11

Candidate Starts for Gibbi\_126:

(Start: 1 @77947 has 2 MA's), (Start: 4 @78004 has 2 MA's), (Start: 11 @78049 has 18 MA's), (14, 78094), (17, 78178),

Gene: IchabodCrane\_116 Start: 77536, Stop: 77793, Start Num: 1

Candidate Starts for IchabodCrane\_116:

(Start: 1 @77536 has 2 MA's), (Start: 4 @77593 has 2 MA's), (Start: 11 @77638 has 18 MA's), (14, 77683), (17, 77767),

Gene: JimJam\_122 Start: 78415, Stop: 78615, Start Num: 4

Candidate Starts for JimJam\_122:

(Start: 1 @78358 has 2 MA's), (Start: 4 @78415 has 2 MA's), (Start: 11 @78460 has 18 MA's), (14, 78505), (17, 78589),

Gene: Jollison\_125 Start: 77894, Stop: 78049, Start Num: 11

Candidate Starts for Jollison\_125:

(Start: 1 @77792 has 2 MA's), (Start: 4 @77849 has 2 MA's), (Start: 11 @77894 has 18 MA's), (14, 77939), (17, 78023),

Gene: Karimac\_120 Start: 78175, Stop: 78330, Start Num: 11

Candidate Starts for Karimac\_120:

(Start: 1 @78073 has 2 MA's), (Start: 4 @78130 has 2 MA's), (Start: 11 @78175 has 18 MA's), (14, 78220), (17, 78304),

Gene: Kenrey\_152 Start: 83476, Stop: 83631, Start Num: 9

Candidate Starts for Kenrey\_152:

(3, 83431), (5, 83446), (Start: 9 @83476 has 5 MA's), (13, 83527), (15, 83590),

Gene: KentuckyRacer\_127 Start: 78324, Stop: 78479, Start Num: 11

Candidate Starts for KentuckyRacer\_127:

(Start: 1 @78222 has 2 MA's), (Start: 4 @78279 has 2 MA's), (Start: 11 @78324 has 18 MA's), (14, 78369), (17, 78453),

Gene: LukeCage\_118 Start: 77847, Stop: 77999, Start Num: 11

Candidate Starts for LukeCage\_118:

(Start: 11 @77847 has 18 MA's), (14, 77892), (16, 77967),

Gene: Mildred21\_118 Start: 77407, Stop: 77559, Start Num: 11

Candidate Starts for Mildred21\_118:

(10, 77401), (Start: 11 @77407 has 18 MA's), (12, 77410),

Gene: MindFlayer\_117 Start: 77443, Stop: 77700, Start Num: 1

Candidate Starts for MindFlayer\_117:

(Start: 1 @77443 has 2 MA's), (Start: 4 @77500 has 2 MA's), (Start: 11 @77545 has 18 MA's), (14, 77590), (17, 77674),

Gene: Mugiwara\_124 Start: 78535, Stop: 78690, Start Num: 11

Candidate Starts for Mugiwara\_124:

(Start: 11 @78535 has 18 MA's),

Gene: Phredrick\_149 Start: 81811, Stop: 81966, Start Num: 9

Candidate Starts for Phredrick\_149:

(3, 81766), (5, 81781), (Start: 9 @81811 has 5 MA's), (13, 81862), (15, 81925),

Gene: PumpkinSpice\_121 Start: 78501, Stop: 78656, Start Num: 11

Candidate Starts for PumpkinSpice\_121:

(Start: 11 @78501 has 18 MA's), (14, 78546), (17, 78630),

Gene: Quaran19\_120 Start: 77928, Stop: 78083, Start Num: 11

Candidate Starts for Quaran19\_120:

(Start: 1 @77826 has 2 MA's), (Start: 4 @77883 has 2 MA's), (Start: 11 @77928 has 18 MA's), (14, 77973), (17, 78057),

Gene: SaltySpittoon\_120 Start: 77940, Stop: 78095, Start Num: 11

Candidate Starts for SaltySpittoon\_120:

(Start: 1 @77838 has 2 MA's), (Start: 4 @77895 has 2 MA's), (Start: 11 @77940 has 18 MA's), (14, 77985), (17, 78069),

Gene: Spelly\_121 Start: 77892, Stop: 78047, Start Num: 11

Candidate Starts for Spelly\_121:

(Start: 1 @77790 has 2 MA's), (Start: 4 @77847 has 2 MA's), (Start: 11 @77892 has 18 MA's), (14, 77937), (17, 78021),

Gene: Spilled\_122 Start: 77964, Stop: 78164, Start Num: 4

Candidate Starts for Spilled\_122:

(Start: 1 @77907 has 2 MA's), (Start: 4 @77964 has 2 MA's), (Start: 11 @78009 has 18 MA's), (14, 78054), (17, 78138),

Gene: StarPlatinum\_122 Start: 78906, Stop: 79058, Start Num: 11

Candidate Starts for StarPlatinum\_122:

(Start: 11 @78906 has 18 MA's), (14, 78951), (16, 79026),

Gene: Starbow\_119 Start: 77913, Stop: 78068, Start Num: 11

Candidate Starts for Starbow\_119:

(Start: 1 @77811 has 2 MA's), (Start: 4 @77868 has 2 MA's), (Start: 11 @77913 has 18 MA's), (14, 77958), (17, 78042),

Gene: TomSawyer\_121 Start: 77958, Stop: 78113, Start Num: 11

Candidate Starts for TomSawyer\_121:

(Start: 1 @77856 has 2 MA's), (Start: 4 @77913 has 2 MA's), (Start: 11 @77958 has 18 MA's), (14, 78003), (17, 78087),

Gene: TunaTartare\_145 Start: 84538, Stop: 84702, Start Num: 9

Candidate Starts for TunaTartare\_145:

(3, 84490), (5, 84505), (6, 84529), (7, 84532), (8, 84535), (Start: 9 @84538 has 5 MA's), (15, 84658), (17, 84685),

Gene: Wipeout\_116 Start: 78282, Stop: 78437, Start Num: 11

Candidate Starts for Wipeout\_116:

(Start: 1 @78180 has 2 MA's), (Start: 4 @78237 has 2 MA's), (Start: 11 @78282 has 18 MA's), (14, 78327), (17, 78411),

Gene: Wofford\_116 Start: 79104, Stop: 79259, Start Num: 11

Candidate Starts for Wofford\_116:

(5, 79068), (Start: 11 @79104 has 18 MA's), (14, 79149), (17, 79233),