

Pham 200525



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 200525 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200525 has 28 members, 2 are drafts.

Phages represented in each track:

- Track 1 : SparkleGoddess\_162, Karp\_157, Belfort\_163, Westy\_164, Comrade\_160, Stigma\_161
- Track 2 : Kenrey\_170, Phredrick\_167
- Track 3 : TunaTartare\_163
- Track 4 : Emma1919\_168, MeganTheeKilla\_165, Forrest\_169
- Track 5 : Jada\_166
- Track 6 : Patelgo\_165, Moab\_163
- Track 7 : Sham\_157
- Track 8 : Faust\_155, SeresaTree\_157
- Track 9 : Francob\_166
- Track 10 : Beuffert\_156, Blueeyedbeauty\_159
- Track 11 : Gilson\_167
- Track 12 : Annadreamy\_150, Limpid\_157
- Track 13 : Muntaha\_135, Wakanda\_134
- Track 14 : BillNye\_127
- Track 15 : Circinus\_128

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

The start number called the most often in the published annotations is 10, it was called in 25 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_150, Belfort\_163, Beuffert\_156, BillNye\_127, Blueeyedbeauty\_159, Circinus\_128, Comrade\_160, Emma1919\_168, Faust\_155, Forrest\_169, Francob\_166, Jada\_166, Karp\_157, Kenrey\_170, Limpid\_157, MeganTheeKilla\_165, Moab\_163, Muntaha\_135, Patelgo\_165, Phredrick\_167, SeresaTree\_157, Sham\_157, SparkleGoddess\_162, Stigma\_161, TunaTartare\_163, Wakanda\_134, Westy\_164,

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

- Gilson\_167,

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

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### Summary by start number:

#### Start 10:

- Found in 28 of 28 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 26
- Called 96.4% of time when present
- Phage (with cluster) where this start called: Annadreamy\_150 (BK1), Belfort\_163 (BK1), Beuffert\_156 (BK1), BillNye\_127 (BK2), Blueeyedbeauty\_159 (BK1), Circinus\_128 (BK2), Comrade\_160 (BK1), Emma1919\_168 (BK1), Faust\_155 (BK1), Forrest\_169 (BK1), Francob\_166 (BK1), Jada\_166 (BK1), Karp\_157 (BK1), Kenrey\_170 (BK1), Limpid\_157 (BK1), MeganTheeKilla\_165 (BK1), Moab\_163 (BK1), Muntaha\_135 (BK2), Patelgo\_165 (BK1), Phredrick\_167 (BK1), SeresaTree\_157 (BK1), Sham\_157 (BK1), SparkleGoddess\_162 (BK1), Stigma\_161 (BK1), TunaTartare\_163 (BK1), Wakanda\_134 (BK2), Westy\_164 (BK1),

#### Start 13:

- Found in 9 of 28 ( 32.1% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Gilson\_167 (BK1),

### Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

#### Info for manual annotations of cluster BK1:

- Start number 10 was manually annotated 21 times for cluster BK1.
- Start number 13 was manually annotated 1 time for cluster BK1.

#### Info for manual annotations of cluster BK2:

- Start number 10 was manually annotated 4 times for cluster BK2.

### Gene Information:

Gene: Annadreamy\_150 Start: 81654, Stop: 81887, Start Num: 10

Candidate Starts for Annadreamy\_150:

(Start: 10 @81654 has 25 MA's), (12, 81675), (14, 81690), (18, 81780), (21, 81801), (22, 81807), (29, 81861), (30, 81870),

Gene: Belfort\_163 Start: 87583, Stop: 87810, Start Num: 10

Candidate Starts for Belfort\_163:

(7, 87574), (8, 87577), (Start: 10 @87583 has 25 MA's), (19, 87709), (23, 87730), (24, 87736),

Gene: Beuffert\_156 Start: 86190, Stop: 86423, Start Num: 10

Candidate Starts for Beuffert\_156:

(Start: 10 @86190 has 25 MA's), (12, 86211), (14, 86226), (18, 86316), (22, 86343), (29, 86397), (30, 86406),

Gene: BillNye\_127 Start: 77750, Stop: 77983, Start Num: 10

Candidate Starts for BillNye\_127:

(Start: 10 @77750 has 25 MA's), (12, 77771), (14, 77786), (25, 77915),

Gene: Blueeyedbeauty\_159 Start: 86076, Stop: 86306, Start Num: 10

Candidate Starts for Blueeyedbeauty\_159:

(Start: 10 @86076 has 25 MA's), (12, 86097), (14, 86112), (18, 86202), (22, 86229), (29, 86280), (30, 86289),

Gene: Circinus\_128 Start: 77718, Stop: 77951, Start Num: 10

Candidate Starts for Circinus\_128:

(9, 77715), (Start: 10 @77718 has 25 MA's), (12, 77739), (15, 77775), (29, 77925),

Gene: Comrade\_160 Start: 87785, Stop: 88012, Start Num: 10

Candidate Starts for Comrade\_160:

(7, 87776), (8, 87779), (Start: 10 @87785 has 25 MA's), (19, 87911), (23, 87932), (24, 87938),

Gene: Emma1919\_168 Start: 87152, Stop: 87385, Start Num: 10

Candidate Starts for Emma1919\_168:

(8, 87146), (9, 87149), (Start: 10 @87152 has 25 MA's), (12, 87173), (Start: 13 @87182 has 1 MA's), (27, 87332),

Gene: Faust\_155 Start: 86768, Stop: 87001, Start Num: 10

Candidate Starts for Faust\_155:

(6, 86753), (Start: 10 @86768 has 25 MA's), (11, 86777), (12, 86789), (Start: 13 @86798 has 1 MA's), (21, 86915), (29, 86975),

Gene: Forrest\_169 Start: 88135, Stop: 88368, Start Num: 10

Candidate Starts for Forrest\_169:

(8, 88129), (9, 88132), (Start: 10 @88135 has 25 MA's), (12, 88156), (Start: 13 @88165 has 1 MA's), (27, 88315),

Gene: Francob\_166 Start: 87657, Stop: 87890, Start Num: 10

Candidate Starts for Francob\_166:

(8, 87651), (9, 87654), (Start: 10 @87657 has 25 MA's), (12, 87678), (27, 87837),

Gene: Gilson\_167 Start: 87144, Stop: 87347, Start Num: 13

Candidate Starts for Gilson\_167:

(8, 87108), (9, 87111), (Start: 10 @87114 has 25 MA's), (12, 87135), (Start: 13 @87144 has 1 MA's), (27, 87294),

Gene: Jada\_166 Start: 86831, Stop: 87064, Start Num: 10

Candidate Starts for Jada\_166:

(8, 86825), (9, 86828), (Start: 10 @86831 has 25 MA's), (12, 86852), (Start: 13 @86861 has 1 MA's), (18, 86957), (27, 87011),

Gene: Karp\_157 Start: 87009, Stop: 87236, Start Num: 10

Candidate Starts for Karp\_157:

(7, 87000), (8, 87003), (Start: 10 @87009 has 25 MA's), (19, 87135), (23, 87156), (24, 87162),

Gene: Kenrey\_170 Start: 88284, Stop: 88517, Start Num: 10

Candidate Starts for Kenrey\_170:

(Start: 10 @88284 has 25 MA's), (12, 88305), (Start: 13 @88314 has 1 MA's), (15, 88341), (27, 88464),

Gene: Limpid\_157 Start: 86967, Stop: 87200, Start Num: 10  
Candidate Starts for Limpid\_157:  
(Start: 10 @86967 has 25 MA's), (12, 86988), (14, 87003), (18, 87093), (21, 87114), (22, 87120), (29, 87174), (30, 87183),

Gene: MeganTheeKilla\_165 Start: 86738, Stop: 86971, Start Num: 10  
Candidate Starts for MeganTheeKilla\_165:  
(8, 86732), (9, 86735), (Start: 10 @86738 has 25 MA's), (12, 86759), (Start: 13 @86768 has 1 MA's), (27, 86918),

Gene: Moab\_163 Start: 88781, Stop: 89014, Start Num: 10  
Candidate Starts for Moab\_163:  
(1, 88736), (4, 88760), (5, 88763), (Start: 10 @88781 has 25 MA's), (12, 88802), (15, 88838), (16, 88865), (18, 88907), (27, 88961), (28, 88976),

Gene: Muntaha\_135 Start: 76653, Stop: 76886, Start Num: 10  
Candidate Starts for Muntaha\_135:  
(6, 76638), (Start: 10 @76653 has 25 MA's), (12, 76674), (29, 76860),

Gene: Patelgo\_165 Start: 89473, Stop: 89706, Start Num: 10  
Candidate Starts for Patelgo\_165:  
(1, 89428), (4, 89452), (5, 89455), (Start: 10 @89473 has 25 MA's), (12, 89494), (15, 89530), (16, 89557), (18, 89599), (27, 89653), (28, 89668),

Gene: Phredrick\_167 Start: 86627, Stop: 86860, Start Num: 10  
Candidate Starts for Phredrick\_167:  
(Start: 10 @86627 has 25 MA's), (12, 86648), (Start: 13 @86657 has 1 MA's), (15, 86684), (27, 86807),

Gene: SeresaTree\_157 Start: 86150, Stop: 86383, Start Num: 10  
Candidate Starts for SeresaTree\_157:  
(6, 86135), (Start: 10 @86150 has 25 MA's), (11, 86159), (12, 86171), (Start: 13 @86180 has 1 MA's), (21, 86297), (29, 86357),

Gene: Sham\_157 Start: 88619, Stop: 88852, Start Num: 10  
Candidate Starts for Sham\_157:  
(2, 88577), (3, 88589), (6, 88604), (Start: 10 @88619 has 25 MA's), (17, 88727), (18, 88745), (20, 88760), (26, 88787), (29, 88826), (30, 88835),

Gene: SparkleGoddess\_162 Start: 87796, Stop: 88023, Start Num: 10  
Candidate Starts for SparkleGoddess\_162:  
(7, 87787), (8, 87790), (Start: 10 @87796 has 25 MA's), (19, 87922), (23, 87943), (24, 87949),

Gene: Stigma\_161 Start: 88230, Stop: 88457, Start Num: 10  
Candidate Starts for Stigma\_161:  
(7, 88221), (8, 88224), (Start: 10 @88230 has 25 MA's), (19, 88356), (23, 88377), (24, 88383),

Gene: TunaTartare\_163 Start: 89865, Stop: 90098, Start Num: 10  
Candidate Starts for TunaTartare\_163:  
(2, 89823), (3, 89835), (6, 89850), (Start: 10 @89865 has 25 MA's), (17, 89973), (18, 89991), (26, 90033), (29, 90072), (30, 90081),

Gene: Wakanda\_134 Start: 76595, Stop: 76828, Start Num: 10  
Candidate Starts for Wakanda\_134:

(6, 76580), (Start: 10 @76595 has 25 MA's), (12, 76616), (29, 76802),

Gene: Westy\_164 Start: 88545, Stop: 88772, Start Num: 10

Candidate Starts for Westy\_164:

(7, 88536), (8, 88539), (Start: 10 @88545 has 25 MA's), (19, 88671), (23, 88692), (24, 88698),