Pham 87118


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 87118 Report

This analysis was run 04/05/24 on database version 557.
Pham number 87118 has 13 members, 0 are drafts.
Phages represented in each track:

- Track 1 : Beem_124
- Track 2 : Bombitas_110, Yeet_114
- Track 3 : Constella_106, JuicyJay_119, NihilNomen_124, Thibault_105
- Track 4 : Schatzie-118
- Track 5 : Omega_128
- Track 6 : Lucky20̄13_114
- Track 7 : KashFlow_114
- Track 8 : HokkenD_112
- Track 9 : Porcelain_117


## 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 4 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Constella_106, JuicyJay_119, NihilNomen_124, Thibault_105,

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

- Beem_124,

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

- Bombitas_110, HokkenD_112, KashFlow_114, Lucky2013_114, Omega_128, Porcelain_117, Schatzie_118, Yeet_114,


## Summary by start number:

Start 1:

- Found in 8 of 13 ( $61.5 \%$ ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called $37.5 \%$ of time when present
-Phage (with cluster) where this start called: Bombitas_110 (J), Omega_128 (J), Yeet_114 (J),

Start 3:

- Found in 5 of 13 ( $38.5 \%$ ) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called $80.0 \%$ of time when present
- Phage (with cluster) where this start called: Constella_106 (J), JuicyJay_119 (J), NihilNomen_124 (J), Thibault_105 (J),

Start 4:

- Found in 13 of 13 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called $7.7 \%$ of time when present
- Phage (with cluster) where this start called: HokkenD_112 (J),

Start 5:

- Found in 13 of 13 ( $100.0 \%$ ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called $15.4 \%$ of time when present
- Phage (with cluster) where this start called: Beem_124 (J), Lucky2013_114 (J),

Start 6:

- Found in 8 of 13 ( $61.5 \%$ ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called $25.0 \%$ of time when present
- Phage (with cluster) where this start called: KashFlow_114 (J), Porcelain_117 (J),

Start 7:

- Found in 8 of 13 ( $61.5 \%$ ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called $12.5 \%$ of time when present
- Phage (with cluster) where this start called: Schatzie_118 (J),


## Summary by clusters:

There is one cluster represented in this pham: J
Info for manual annotations of cluster J :
-Start number 1 was manually annotated 3 times for cluster J.
-Start number 3 was manually annotated 4 times for cluster J .
-Start number 4 was manually annotated 1 time for cluster J.
-Start number 5 was manually annotated 2 times for cluster J .
-Start number 6 was manually annotated 2 times for cluster J.
-Start number 7 was manually annotated 1 time for cluster J.

## Gene Information:

Gene: Beem_124 Start: 69282, Stop: 69593, Start Num: 5
Candidate Starts for Beem_124:
(Start: 3 @69243 has 4 MA's), (Start: 4 @69252 has 1 MA's), (Start: 5 @69282 has 2 MA's), (8, 69396), (12, 69462), (13, 69522),

Gene: Bombitas_110 Start: 65857, Stop: 66306, Start Num: 1

Candidate Starts for Bombitas_110:
(Start: 1 @65857 has 3 MA's), (2, 65860), (Start: 4 @65881 has 1 MA's), (Start: 5 @65911 has 2 MA's), (Start: 6 @65914 has 2 MA's), (Start: 7 @65959 has 1 MA's), (8, 66028), (9, 66061), (10, $66115)$, ( 14,66280 ), $(15,66298)$,

Gene: Constella_106 Start: 62708, Stop: 63058, Start Num: 3
Candidate Starts for Constella_106:
(Start: 3 @62708 has 4 MA's), (Start: 4 @62717 has 1 MA's), (Start: 5 @62747 has 2 MA's), (8, 62861), (12, 62927), (13, 62987),

Gene: HokkenD_112 Start: 67397, Stop: 67822, Start Num: 4
Candidate Starts for HokkenD_112:
(Start: 1 @67373 has 3 MA's), (2, 67376), (Start: 4 @67397 has 1 MA's), (Start: 5 @67427 has 2 MA's), (Start: 6 @67430 has 2 MA's), (Start: 7 @67475 has 1 MA's), (8, 67544), (9, 67577), (10, $67631),(14,67796),(15,67814)$,

Gene: JuicyJay_119 Start: 70379, Stop: 70729, Start Num: 3
Candidate Starts for JuicyJay_119:
(Start: 3 @ 70379 has 4 MA's), (Start: 4 @ 70388 has 1 MA's), (Start: 5 @ 70418 has 2 MA's), (8, 70532), (12, 70598), (13, 70658),

Gene: KashFlow_114 Start: 64828, Stop: 65220, Start Num: 6
Candidate Starts for KashFlow_114:
(Start: 1 @64771 has 3 MA's), (2, 64774), (Start: 4 @64795 has 1 MA's), (Start: 5 @64825 has 2 MA's), (Start: 6 @64828 has 2 MA's), (Start: 7 @64873 has 1 MA's), (8, 64942), (10, 65029), (14, 65194), (15, 65212),

Gene: Lucky2013_114 Start: 63704, Stop: 64099, Start Num: 5
Candidate Starts for Lucky2013_114:
(Start: 1 @63650 has 3 MA's), (2, 63653), (Start: 4 @63674 has 1 MA's), (Start: 5 @63704 has 2 MA's), (Start: 6 @63707 has 2 MA's), (Start: 7 @63752 has 1 MA's), (8, 63821), (9, 63854), (10, $63908),(14,64073),(15,64091)$,

Gene: NihilNomen_124 Start: 68331, Stop: 68681, Start Num: 3
Candidate Starts for NihilNomen_124:
(Start: 3 @68331 has 4 MA's), (Start: 4 @68340 has 1 MA's), (Start: 5 @68370 has 2 MA's), (8, 68484), (12, 68550), ( 13,68610 ),

Gene: Omega_128 Start: 68650, Stop: 69204, Start Num: 1
Candidate Starts for Omega_128:
(Start: 1 @68650 has 3 MA's), (2, 68653), (Start: 4 @68674 has 1 MA's), (Start: 5 @68704 has 2 MA's), (Start: 6 @68707 has 2 MA's), (Start: 7 @68752 has 1 MA's), (8, 68821), (9, 68854), (11, $69016),(14,69175)$,

Gene: Porcelain_117 Start: 64653, Stop: 65045, Start Num: 6 Candidate Starts for Porcelain_117:
(Start: 1 @64596 has 3 MA's), (2, 64599), (Start: 4 @64620 has 1 MA's), (Start: 5 @64650 has 2 MA's), (Start: 6 @64653 has 2 MA's), (Start: 7 @64698 has 1 MA's), (8, 64767), (9, 64800), (10, 64854), $(14,65019)$ ), $(15,65037)$,

Gene: Schatzie_118 Start: 67901, Stop: 68248, Start Num: 7 Candidate Starts for Schatzie_118:
(Start: 1 @67799 has 3 MA's), (2, 67802), (Start: 4 @67823 has 1 MA's), (Start: 5 @67853 has 2 MA's), (Start: 6 @67856 has 2 MA's), (Start: 7 @67901 has 1 MA's), (8, 67970), (9, 68003), (10, 68057), (14, 68222), ( 15,68240 ),

Gene: Thibault_105 Start: 62989, Stop: 63339, Start Num: 3 Candidate Starts for Thibault_105:
(Start: 3 @62989 has 4 MA's), (Start: 4 @62998 has 1 MA's), (Start: 5 @63028 has 2 MA's), (8, $63142)$, (12, 63208), ( 13,63268 ),

Gene: Yeet_114 Start: 66737, Stop: 67186, Start Num: 1
Candidate Starts for Yeet_114:
(Start: 1 @66737 has 3 MA's), (2, 66740), (Start: 4 @66761 has 1 MA's), (Start: 5 @66791 has 2 MA's), (Start: 6 @66794 has 2 MA's), (Start: 7 @66839 has 1 MA's), (8, 66908), (9, 66941), (10, 66995), (14, 67160), (15, 67178),

