

Pham 311991



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 311991 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311991 has 23 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Faja\_49
- Track 2 : Lawnathon\_49
- Track 3 : AdaS\_44
- Track 4 : SonDevVon\_50
- Track 5 : Bhageatrice\_48, Crescenzo\_47
- Track 6 : Globfish\_48
- Track 7 : Vopal\_51
- Track 8 : ThayneTheZag\_49, SpicyFrank\_51
- Track 9 : MaterMagnus\_48, Aikyam\_46
- Track 10 : ThayneTheZag\_65
- Track 11 : MurphyJoseph\_44
- Track 12 : Lasker\_47
- Track 13 : Sarge\_44
- Track 14 : TripleJ\_73
- Track 15 : Bauer\_58
- Track 16 : BellaJr\_54
- Track 17 : Zucker\_38
- Track 18 : Merpity\_71
- Track 19 : Altostratus\_34
- Track 20 : Khuang\_35

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

The start number called the most often in the published annotations is 17, it was called in 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS\_44, Bauer\_58, Bhageatrice\_48, Crescenzo\_47, Faja\_49, Globfish\_48, Khuang\_35, Merpity\_71, SpicyFrank\_51, ThayneTheZag\_49, ThayneTheZag\_65, TripleJ\_73,

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

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

- Aikyam\_46, Altostratus\_34, BellaJr\_54, Lasker\_47, Lawnathon\_49, MaterMagnus\_48, MurphyJoseph\_44, Sarge\_44, SonDevVon\_50, Vopal\_51, Zucker\_38,

### Summary by start number:

Start 2:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus\_34 (FS),

Start 3:

- Found in 5 of 23 ( 21.7% ) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam\_46 (AY), Lasker\_47 (AY), Lawnathon\_49 (AY), MaterMagnus\_48 (AY), SonDevVon\_50 (AY),

Start 9:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MurphyJoseph\_44 (AY),

Start 10:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vopal\_51 (AY),

Start 14:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zucker\_38 (FN),

Start 17:

- Found in 12 of 23 ( 52.2% ) of genes in pham
- Manual Annotations of this start: 10 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdaS\_44 (AY), Bauer\_58 (FN), Bhageatrice\_48 (AY), Crescenzo\_47 (AY), Faja\_49 (AY), Globfish\_48 (AY), Khuang\_35 (FS), Merpity\_71 (FQ1), SpicyFrank\_51 (AY), ThayneTheZag\_49 (AY), ThayneTheZag\_65 (AY), TripleJ\_73 (FJ),

Start 25:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BellaJr\_54 (FN),

Start 31:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sarge\_44 (FB),

### **Summary by clusters:**

There are 6 clusters represented in this pham: FS, FB, AY, FJ, FQ1, FN,

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 3 times for cluster AY.
- Start number 17 was manually annotated 8 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 31 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FJ:

- Start number 17 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FN:

- Start number 14 was manually annotated 1 time for cluster FN.
- Start number 17 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FS:

- Start number 2 was manually annotated 1 time for cluster FS.

### **Gene Information:**

Gene: AdaS\_44 Start: 28504, Stop: 28803, Start Num: 17

Candidate Starts for AdaS\_44:

(Start: 17 @28504 has 10 MA's), (19, 28513), (45, 28687), (50, 28753),

Gene: Aikyam\_46 Start: 27868, Stop: 28284, Start Num: 3

Candidate Starts for Aikyam\_46:

(Start: 3 @27868 has 3 MA's), (4, 27877), (18, 27982), (45, 28168), (50, 28234),

Gene: Altostratus\_34 Start: 24188, Stop: 23673, Start Num: 2

Candidate Starts for Altostratus\_34:

(Start: 2 @24188 has 1 MA's), (33, 23936), (45, 23789), (50, 23723),

Gene: Bauer\_58 Start: 32955, Stop: 33227, Start Num: 17

Candidate Starts for Bauer\_58:

(Start: 17 @32955 has 10 MA's), (19, 32964), (23, 32997), (39, 33093), (44, 33135), (49, 33198), (50, 33207), (51, 33210),

Gene: BellaJr\_54 Start: 32861, Stop: 33166, Start Num: 25

Candidate Starts for BellaJr\_54:

(15, 32783), (25, 32861), (26, 32867), (35, 32939), (46, 33068),

Gene: Bhageatrice\_48 Start: 31728, Stop: 32027, Start Num: 17  
Candidate Starts for Bhageatrice\_48:  
(Start: 17 @31728 has 10 MA's), (19, 31737), (23, 31770), (45, 31911), (50, 31977), (52, 32010),

Gene: Crescenzo\_47 Start: 30815, Stop: 31114, Start Num: 17  
Candidate Starts for Crescenzo\_47:  
(Start: 17 @30815 has 10 MA's), (19, 30824), (23, 30857), (45, 30998), (50, 31064), (52, 31097),

Gene: Faja\_49 Start: 31772, Stop: 32071, Start Num: 17  
Candidate Starts for Faja\_49:  
(7, 31706), (12, 31736), (Start: 17 @31772 has 10 MA's), (19, 31781), (41, 31919), (45, 31955), (50, 32021),

Gene: Globfish\_48 Start: 30153, Stop: 30452, Start Num: 17  
Candidate Starts for Globfish\_48:  
(Start: 17 @30153 has 10 MA's), (19, 30162), (45, 30336), (50, 30402),

Gene: Khuang\_35 Start: 24689, Stop: 24417, Start Num: 17  
Candidate Starts for Khuang\_35:  
(Start: 17 @24689 has 10 MA's), (19, 24680), (39, 24551), (44, 24509), (49, 24446), (50, 24437), (51, 24434),

Gene: Lasker\_47 Start: 30286, Stop: 30708, Start Num: 3  
Candidate Starts for Lasker\_47:  
(Start: 3 @30286 has 3 MA's), (4, 30295), (5, 30337), (27, 30475), (28, 30481), (45, 30592), (50, 30658),

Gene: Lawnathon\_49 Start: 30170, Stop: 30592, Start Num: 3  
Candidate Starts for Lawnathon\_49:  
(1, 30101), (Start: 3 @30170 has 3 MA's), (4, 30179), (27, 30359), (28, 30365), (30, 30371), (45, 30476), (50, 30542),

Gene: MaterMagnus\_48 Start: 30040, Stop: 30456, Start Num: 3  
Candidate Starts for MaterMagnus\_48:  
(Start: 3 @30040 has 3 MA's), (4, 30049), (18, 30154), (45, 30340), (50, 30406),

Gene: Merpity\_71 Start: 37923, Stop: 38150, Start Num: 17  
Candidate Starts for Merpity\_71:  
(13, 37890), (Start: 17 @37923 has 10 MA's), (19, 37932), (39, 38061), (42, 38073),

Gene: MurphyJoseph\_44 Start: 28936, Stop: 29292, Start Num: 9  
Candidate Starts for MurphyJoseph\_44:  
(8, 28927), (9, 28936), (20, 29032), (21, 29035), (40, 29143),

Gene: Sarge\_44 Start: 27015, Stop: 27275, Start Num: 31  
Candidate Starts for Sarge\_44:  
(6, 26832), (22, 26961), (29, 27000), (Start: 31 @27015 has 1 MA's), (38, 27111), (47, 27177),

Gene: SonDevVon\_50 Start: 30319, Stop: 30741, Start Num: 3  
Candidate Starts for SonDevVon\_50:  
(1, 30250), (Start: 3 @30319 has 3 MA's), (27, 30508), (28, 30514), (30, 30520), (45, 30625), (50, 30691),

Gene: SpicyFrank\_51 Start: 30836, Stop: 31135, Start Num: 17  
Candidate Starts for SpicyFrank\_51:  
(Start: 17 @30836 has 10 MA's), (19, 30845), (45, 31019), (50, 31085),

Gene: ThayneTheZag\_49 Start: 30180, Stop: 30479, Start Num: 17  
Candidate Starts for ThayneTheZag\_49:  
(Start: 17 @30180 has 10 MA's), (19, 30189), (45, 30363), (50, 30429),

Gene: ThayneTheZag\_65 Start: 34279, Stop: 34572, Start Num: 17  
Candidate Starts for ThayneTheZag\_65:  
(Start: 17 @34279 has 10 MA's), (19, 34288), (23, 34321), (32, 34375),

Gene: TripleJ\_73 Start: 41236, Stop: 41535, Start Num: 17  
Candidate Starts for TripleJ\_73:  
(Start: 17 @41236 has 10 MA's), (19, 41245), (39, 41374), (45, 41419), (50, 41485), (52, 41518),

Gene: Vopal\_51 Start: 33363, Stop: 33689, Start Num: 10  
Candidate Starts for Vopal\_51:  
(10, 33363), (11, 33372), (24, 33474), (34, 33525), (36, 33558), (37, 33564), (43, 33609), (48, 33672),

Gene: Zucker\_38 Start: 28357, Stop: 28737, Start Num: 14  
Candidate Starts for Zucker\_38:  
(Start: 14 @28357 has 1 MA's), (16, 28366), (46, 28639), (52, 28720),