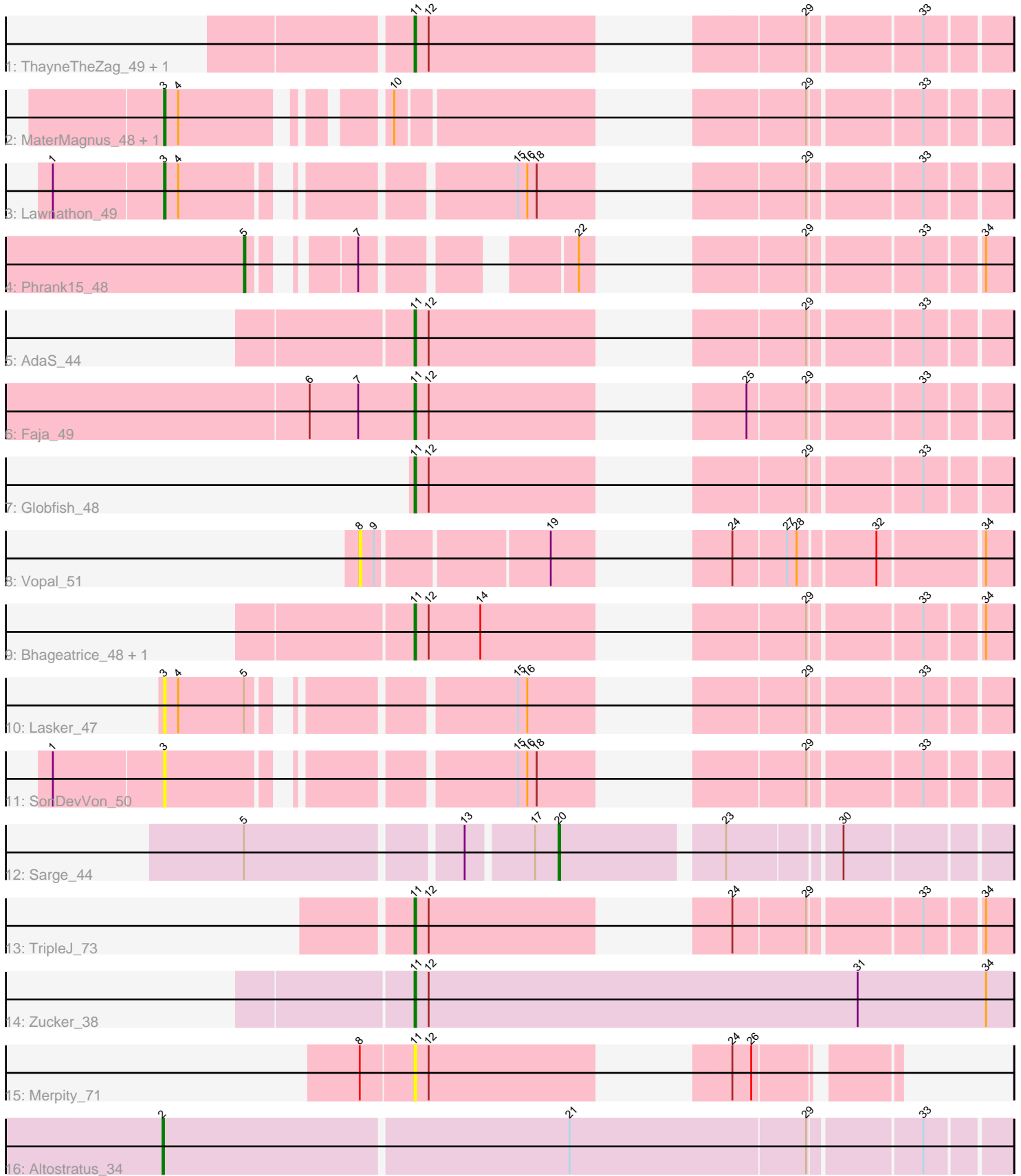


Pham 296985



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 296985 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296985 has 19 members, 6 are drafts.

Phages represented in each track:

- Track 1 : ThayneTheZag\_49, SpicyFrank\_51
- Track 2 : MaterMagnus\_48, Aikyam\_46
- Track 3 : Lawnathon\_49
- Track 4 : Phrank15\_48
- Track 5 : AdaS\_44
- Track 6 : Faja\_49
- Track 7 : Globfish\_48
- Track 8 : Vopal\_51
- Track 9 : Bhageatrice\_48, Crescenzo\_48
- Track 10 : Lasker\_47
- Track 11 : SonDevVon\_50
- Track 12 : Sarge\_44
- Track 13 : TripleJ\_73
- Track 14 : Zucker\_38
- Track 15 : Merpity\_71
- Track 16 : Altostratus\_34

### ***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 8 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS\_44, Bhageatrice\_48, Crescenzo\_48, Faja\_49, Globfish\_48, Merpity\_71, SpicyFrank\_51, ThayneTheZag\_49, TripleJ\_73, Zucker\_38,

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

- 

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

- Aikyam\_46, Altostratus\_34, Lasker\_47, Lawnathon\_49, MaterMagnus\_48, Phrank15\_48, Sarge\_44, SonDevVon\_50, Vopal\_51,

### **Summary by start number:**

Start 2:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altostratus\_34 (FS),

Start 3:

- Found in 5 of 19 ( 26.3% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- 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 5:

- Found in 3 of 19 ( 15.8% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Phrank15\_48 (AY),

Start 8:

- Found in 2 of 19 ( 10.5% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Vopal\_51 (AY),

Start 11:

- Found in 10 of 19 ( 52.6% ) of genes in pham
- Manual Annotations of this start: 8 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AdaS\_44 (AY), Bhageatrice\_48 (AY), Crescenzo\_48 (AY), Faja\_49 (AY), Globfish\_48 (AY), Merpity\_71 (FQ), SpicyFrank\_51 (AY), ThayneTheZag\_49 (AY), TripleJ\_73 (FJ), Zucker\_38 (FN),

Start 20:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 13
- 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: FQ, FS, FB, AY, FJ, FN,

Info for manual annotations of cluster AY:

- Start number 3 was manually annotated 2 times for cluster AY.
- Start number 5 was manually annotated 1 time for cluster AY.
- Start number 11 was manually annotated 6 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 20 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FJ:

- Start number 11 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FN:

- Start number 11 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: 11

Candidate Starts for AdaS\_44:

(Start: 11 @28504 has 8 MA's), (12, 28513), (29, 28687), (33, 28753),

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

Candidate Starts for Aikyam\_46:

(Start: 3 @27868 has 2 MA's), (4, 27877), (10, 27982), (29, 28168), (33, 28234),

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

Candidate Starts for Altostratus\_34:

(Start: 2 @24188 has 1 MA's), (21, 23936), (29, 23789), (33, 23723),

Gene: Bhageatrice\_48 Start: 31728, Stop: 32027, Start Num: 11

Candidate Starts for Bhageatrice\_48:

(Start: 11 @31728 has 8 MA's), (12, 31737), (14, 31770), (29, 31911), (33, 31977), (34, 32010),

Gene: Crescenzo\_48 Start: 30815, Stop: 31114, Start Num: 11

Candidate Starts for Crescenzo\_48:

(Start: 11 @30815 has 8 MA's), (12, 30824), (14, 30857), (29, 30998), (33, 31064), (34, 31097),

Gene: Faja\_49 Start: 31772, Stop: 32071, Start Num: 11

Candidate Starts for Faja\_49:

(6, 31706), (7, 31736), (Start: 11 @31772 has 8 MA's), (12, 31781), (25, 31919), (29, 31955), (33, 32021),

Gene: Globfish\_48 Start: 30153, Stop: 30452, Start Num: 11

Candidate Starts for Globfish\_48:

(Start: 11 @30153 has 8 MA's), (12, 30162), (29, 30336), (33, 30402),

Gene: Lasker\_47 Start: 30286, Stop: 30708, Start Num: 3

Candidate Starts for Lasker\_47:

(Start: 3 @30286 has 2 MA's), (4, 30295), (Start: 5 @30337 has 1 MA's), (15, 30475), (16, 30481), (29, 30592), (33, 30658),

Gene: Lawnathon\_49 Start: 30170, Stop: 30592, Start Num: 3

Candidate Starts for Lawnathon\_49:

(1, 30101), (Start: 3 @30170 has 2 MA's), (4, 30179), (15, 30359), (16, 30365), (18, 30371), (29, 30476), (33, 30542),

Gene: MaterMagnus\_48 Start: 30040, Stop: 30456, Start Num: 3

Candidate Starts for MaterMagnus\_48:

(Start: 3 @30040 has 2 MA's), (4, 30049), (10, 30154), (29, 30340), (33, 30406),

Gene: Merpity\_71 Start: 37923, Stop: 38150, Start Num: 11

Candidate Starts for Merpity\_71:

(8, 37890), (Start: 11 @37923 has 8 MA's), (12, 37932), (24, 38061), (26, 38073),

Gene: Phrank15\_48 Start: 30058, Stop: 30402, Start Num: 5

Candidate Starts for Phrank15\_48:

(Start: 5 @30058 has 1 MA's), (7, 30103), (22, 30208), (29, 30286), (33, 30352), (34, 30385),

Gene: Sarge\_44 Start: 27015, Stop: 27275, Start Num: 20

Candidate Starts for Sarge\_44:

(Start: 5 @26832 has 1 MA's), (13, 26961), (17, 27000), (Start: 20 @27015 has 1 MA's), (23, 27111), (30, 27177),

Gene: SonDevVon\_50 Start: 30319, Stop: 30741, Start Num: 3

Candidate Starts for SonDevVon\_50:

(1, 30250), (Start: 3 @30319 has 2 MA's), (15, 30508), (16, 30514), (18, 30520), (29, 30625), (33, 30691),

Gene: SpicyFrank\_51 Start: 30836, Stop: 31135, Start Num: 11

Candidate Starts for SpicyFrank\_51:

(Start: 11 @30836 has 8 MA's), (12, 30845), (29, 31019), (33, 31085),

Gene: ThayneTheZag\_49 Start: 30180, Stop: 30479, Start Num: 11

Candidate Starts for ThayneTheZag\_49:

(Start: 11 @30180 has 8 MA's), (12, 30189), (29, 30363), (33, 30429),

Gene: TripleJ\_73 Start: 41236, Stop: 41535, Start Num: 11

Candidate Starts for TripleJ\_73:

(Start: 11 @41236 has 8 MA's), (12, 41245), (24, 41374), (29, 41419), (33, 41485), (34, 41518),

Gene: Vopal\_51 Start: 33363, Stop: 33689, Start Num: 8

Candidate Starts for Vopal\_51:

(8, 33363), (9, 33372), (19, 33474), (24, 33525), (27, 33558), (28, 33564), (32, 33609), (34, 33672),

Gene: Zucker\_38 Start: 28357, Stop: 28737, Start Num: 11

Candidate Starts for Zucker\_38:

(Start: 11 @28357 has 8 MA's), (12, 28366), (31, 28639), (34, 28720),