

Pham 294973



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 294973 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294973 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Raqqa\_6
- Track 2 : AbbyDaisy\_6
- Track 3 : ODay\_6, Ecliptus\_6
- Track 4 : Malisha\_6
- Track 5 : Asapag\_6, Whitney\_6, Getalong\_6, Lutum\_6, Kenna\_6, BotCity\_6, BENtherdunthat\_6, Leroy\_6, Frickyeah\_6, Periwinkle\_6, Horus\_6
- Track 6 : Phistory\_6
- Track 7 : Kamaru\_6, Budski\_6, Phabuloso\_6, LitninMcQueen\_6, CheeseTouch\_6
- Track 8 : Holliday\_6
- Track 9 : ShawBrad\_6
- Track 10 : Spooky\_6
- Track 11 : Squiddly\_7
- Track 12 : Merpity\_6, MrSmee\_5, Skitty\_5
- Track 13 : Pitbull\_5

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

The start number called the most often in the published annotations is 16, it was called in 16 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Asapag\_6, BENtherdunthat\_6, BotCity\_6, Budski\_6, CheeseTouch\_6, Frickyeah\_6, Getalong\_6, Horus\_6, Kamaru\_6, Kenna\_6, Leroy\_6, LitninMcQueen\_6, Lutum\_6, Periwinkle\_6, Phabuloso\_6, Phistory\_6, ShawBrad\_6, Whitney\_6,

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

- Holliday\_6, Spooky\_6, Squiddly\_7,

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

- AbbyDaisy\_6, Ecliptus\_6, Malisha\_6, Merpity\_6, MrSmee\_5, ODay\_6, Pitbull\_5, Raqqa\_6, Skitty\_5,

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

Start 10:

- Found in 2 of 30 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_6 (AY), Raqqa\_6 (AY),

Start 11:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Malisha\_6 (DN),

Start 12:

- Found in 9 of 30 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Holliday\_6 (DN1), Spooky\_6 (DN2), Squiddly\_7 (DN2),

Start 14:

- Found in 2 of 30 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ecliptus\_6 (DN), ODay\_6 (DN),

Start 15:

- Found in 1 of 30 ( 3.3% ) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull\_5 (FQ),

Start 16:

- Found in 21 of 30 ( 70.0% ) of genes in pham
- Manual Annotations of this start: 16 of 26
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Asapag\_6 (DN1), BENtherdunthat\_6 (DN1), BotCity\_6 (DN), Budski\_6 (DN), CheeseTouch\_6 (DN1), Frickyeah\_6 (DN1), Getalong\_6 (DN1), Horus\_6 (DN1), Kamaru\_6 (DN1), Kenna\_6 (DN1), Leroy\_6 (DN1), LitninMcQueen\_6 (DN1), Lutum\_6 (DN1), Periwinkle\_6 (DN1), Phabuloso\_6 (DN1), Phistory\_6 (DN1), ShawBrad\_6 (DN1), Whitney\_6 (DN1),

Start 19:

- Found in 3 of 30 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Merpity\_6 (FQ), MrSmee\_5 (FQ), Skitty\_5 (FQ),

**Summary by clusters:**

There are 5 clusters represented in this pham: AY, FQ, DN, DN1, DN2,

Info for manual annotations of cluster AY:

- Start number 10 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DN:

- Start number 11 was manually annotated 1 time for cluster DN.
- Start number 14 was manually annotated 2 times for cluster DN.
- Start number 16 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 12 was manually annotated 1 time for cluster DN1.
- Start number 16 was manually annotated 14 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 12 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster FQ:

- Start number 15 was manually annotated 1 time for cluster FQ.
- Start number 19 was manually annotated 2 times for cluster FQ.

### ***Gene Information:***

Gene: AbbyDaisy\_6 Start: 4441, Stop: 5022, Start Num: 10

Candidate Starts for AbbyDaisy\_6:

(9, 4336), (Start: 10 @4441 has 1 MA's), (13, 4489), (18, 4537), (24, 4651), (31, 4813),

Gene: Asapag\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Asapag\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: BENtherdunthat\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for BENtherdunthat\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: BotCity\_6 Start: 4325, Stop: 4876, Start Num: 16

Candidate Starts for BotCity\_6:

(Start: 16 @4325 has 16 MA's), (20, 4406), (25, 4478), (39, 4784),

Gene: Budski\_6 Start: 4327, Stop: 4875, Start Num: 16

Candidate Starts for Budski\_6:

(1, 3985), (2, 4027), (4, 4060), (6, 4096), (7, 4120), (8, 4141), (Start: 12 @4294 has 3 MA's), (Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: CheeseTouch\_6 Start: 4327, Stop: 4875, Start Num: 16

Candidate Starts for CheeseTouch\_6:

(1, 3985), (2, 4027), (4, 4060), (6, 4096), (7, 4120), (8, 4141), (Start: 12 @4294 has 3 MA's), (Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: Ecliptus\_6 Start: 4342, Stop: 4902, Start Num: 14

Candidate Starts for Ecliptus\_6:

(Start: 14 @4342 has 2 MA's), (23, 4483), (37, 4768), (39, 4807),

Gene: Frickyeah\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Frickyeah\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: Getalong\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Getalong\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: Holliday\_6 Start: 4294, Stop: 4875, Start Num: 12

Candidate Starts for Holliday\_6:

(1, 3985), (2, 4027), (4, 4060), (6, 4096), (7, 4120), (8, 4141), (Start: 12 @4294 has 3 MA's), (Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: Horus\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Horus\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: Kamaru\_6 Start: 4327, Stop: 4875, Start Num: 16

Candidate Starts for Kamaru\_6:

(1, 3985), (2, 4027), (4, 4060), (6, 4096), (7, 4120), (8, 4141), (Start: 12 @4294 has 3 MA's), (Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: Kenna\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Kenna\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: Leroy\_6 Start: 4328, Stop: 4879, Start Num: 16

Candidate Starts for Leroy\_6:

(Start: 16 @4328 has 16 MA's), (20, 4409), (25, 4481), (39, 4787),

Gene: LitninMcQueen\_6 Start: 4327, Stop: 4875, Start Num: 16

Candidate Starts for LitninMcQueen\_6:

(1, 3985), (2, 4027), (4, 4060), (6, 4096), (7, 4120), (8, 4141), (Start: 12 @4294 has 3 MA's), (Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: Lutum\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Lutum\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: Malisha\_6 Start: 5305, Stop: 5919, Start Num: 11

Candidate Starts for Malisha\_6:

(Start: 11 @5305 has 1 MA's), (17, 5359), (21, 5458), (23, 5482), (33, 5695), (36, 5773), (38, 5794), (39, 5824),

Gene: Merpity\_6 Start: 3961, Stop: 4389, Start Num: 19

Candidate Starts for Merpity\_6:

(Start: 19 @3961 has 2 MA's), (32, 4189),

Gene: MrSmee\_5 Start: 3961, Stop: 4389, Start Num: 19

Candidate Starts for MrSmee\_5:

(Start: 19 @3961 has 2 MA's), (32, 4189),

Gene: ODay\_6 Start: 4340, Stop: 4900, Start Num: 14

Candidate Starts for ODay\_6:

(Start: 14 @4340 has 2 MA's), (23, 4481), (37, 4766), (39, 4805),

Gene: Periwinkle\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Periwinkle\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),

Gene: Phabuloso\_6 Start: 4327, Stop: 4875, Start Num: 16

Candidate Starts for Phabuloso\_6:

(1, 3985), (2, 4027), (4, 4060), (6, 4096), (7, 4120), (8, 4141), (Start: 12 @4294 has 3 MA's), (Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: Phistory\_6 Start: 4325, Stop: 4867, Start Num: 16

Candidate Starts for Phistory\_6:

(1, 3986), (2, 4028), (3, 4034), (4, 4061), (5, 4067), (7, 4121), (8, 4142), (Start: 12 @4295 has 3 MA's), (Start: 16 @4325 has 16 MA's), (25, 4469), (28, 4541), (34, 4661), (39, 4775),

Gene: Pitbull\_5 Start: 3934, Stop: 4455, Start Num: 15

Candidate Starts for Pitbull\_5:

(Start: 15 @3934 has 1 MA's), (27, 4144), (29, 4165),

Gene: Raqqa\_6 Start: 4752, Stop: 5333, Start Num: 10

Candidate Starts for Raqqa\_6:

(Start: 10 @4752 has 1 MA's), (13, 4800), (18, 4848), (24, 4962), (31, 5124),

Gene: ShawBrad\_6 Start: 4327, Stop: 4875, Start Num: 16

Candidate Starts for ShawBrad\_6:

(Start: 16 @4327 has 16 MA's), (25, 4480), (35, 4723), (39, 4786),

Gene: Skitty\_5 Start: 3961, Stop: 4389, Start Num: 19

Candidate Starts for Skitty\_5:

(Start: 19 @3961 has 2 MA's), (32, 4189),

Gene: Spooky\_6 Start: 4301, Stop: 4870, Start Num: 12

Candidate Starts for Spooky\_6:

(Start: 12 @4301 has 3 MA's), (Start: 16 @4331 has 16 MA's), (25, 4472), (26, 4502), (30, 4589), (39, 4778),

Gene: Squiddly\_7 Start: 4994, Stop: 5563, Start Num: 12

Candidate Starts for Squiddly\_7:

(Start: 12 @4994 has 3 MA's), (Start: 16 @5024 has 16 MA's), (22, 5129), (25, 5165), (26, 5195), (36, 5420), (39, 5471),

Gene: Whitney\_6 Start: 4327, Stop: 4878, Start Num: 16

Candidate Starts for Whitney\_6:

(Start: 16 @4327 has 16 MA's), (20, 4408), (25, 4480), (39, 4786),