

Pham 301724



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 301724 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301724 has 23 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Scavito\_62
- Track 2 : JaNo\_62, Mordred\_62
- Track 3 : DrYang\_60
- Track 4 : JellyBread\_46
- Track 5 : Isolde\_48, YoungHarleezy\_49, Mapleville\_45, Raphaella\_48
- Track 6 : Kabloowy\_49
- Track 7 : Tiff81\_45
- Track 8 : Seahorse\_52
- Track 9 : Auxilium\_45
- Track 10 : AbbyDaisy\_47
- Track 11 : Nyilah\_46
- Track 12 : JakeTheSnake\_53
- Track 13 : Persistence\_44
- Track 14 : BillyTP\_50
- Track 15 : MaterMagnus\_49, Aikyam\_47
- Track 16 : Lasker\_48
- Track 17 : DarwinJr\_51
- Track 18 : Cassini\_43

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

The start number called the most often in the published annotations is 15, it was called in 4 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Isolde\_48, Mapleville\_45, Raphaella\_48, YoungHarleezy\_49,

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:

- AbbyDaisy\_47, Aikyam\_47, Auxilium\_45, BillyTP\_50, Cassini\_43, DarwinJr\_51, DrYang\_60, JaNo\_62, JakeTheSnake\_53, JellyBread\_46, Kabloowy\_49, Lasker\_48, MaterMagnus\_49, Mordred\_62, Nyilah\_46, Persistence\_44, Scavito\_62,

Seahorse\_52, Tiff81\_45,

### Summary by start number:

Start 15:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Isolde\_48 (AY), Mapleville\_45 (AY), Raphaella\_48 (AY), YoungHarleezy\_49 (AY),

Start 18:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JellyBread\_46 (AY),

Start 19:

- Found in 6 of 23 ( 26.1% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam\_47 (AY), BillyTP\_50 (AY), Cassini\_43 (FN), Kabloowy\_49 (AY), Lasker\_48 (AY), MaterMagnus\_49 (AY),

Start 21:

- Found in 3 of 23 ( 13.0% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_47 (AY), Nyilah\_46 (AY), Seahorse\_52 (AY),

Start 22:

- Found in 5 of 23 ( 21.7% ) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Auxilium\_45 (AY), DarwinJr\_51 (AY), JakeTheSnake\_53 (AY), Persistence\_44 (AY), Tiff81\_45 (AY),

Start 28:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- Manual Annotations of this start: 4 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrYang\_60 (AR), JaNo\_62 (AR), Mordred\_62 (AR), Scavito\_62 (AR),

### Summary by clusters:

There are 3 clusters represented in this pham: AY, AR, FN,

Info for manual annotations of cluster AR:

- Start number 28 was manually annotated 4 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 15 was manually annotated 4 times for cluster AY.
- Start number 18 was manually annotated 1 time for cluster AY.
- Start number 19 was manually annotated 2 times for cluster AY.
- Start number 21 was manually annotated 2 times for cluster AY.
- Start number 22 was manually annotated 4 times for cluster AY.

### **Gene Information:**

Gene: AbbyDaisy\_47 Start: 30662, Stop: 31039, Start Num: 21

Candidate Starts for AbbyDaisy\_47:

(3, 30500), (4, 30521), (5, 30545), (8, 30569), (11, 30581), (13, 30626), (16, 30644), (Start: 21 @30662 has 2 MA's), (32, 30821), (36, 30872), (38, 30926), (41, 31010),

Gene: Aikyam\_47 Start: 28281, Stop: 28652, Start Num: 19

Candidate Starts for Aikyam\_47:

(Start: 19 @28281 has 2 MA's), (30, 28419), (31, 28428), (34, 28455), (35, 28485), (36, 28488), (37, 28518), (38, 28542),

Gene: Auxilium\_45 Start: 28077, Stop: 28445, Start Num: 22

Candidate Starts for Auxilium\_45:

(6, 27969), (11, 27999), (12, 28002), (14, 28044), (Start: 22 @28077 has 4 MA's), (31, 28221), (32, 28230), (36, 28281), (38, 28335),

Gene: BillyTP\_50 Start: 31459, Stop: 31839, Start Num: 19

Candidate Starts for BillyTP\_50:

(9, 31381), (Start: 19 @31459 has 2 MA's), (26, 31540), (30, 31606), (31, 31615), (34, 31642), (35, 31672), (36, 31675), (37, 31705), (38, 31729),

Gene: Cassini\_43 Start: 28827, Stop: 29204, Start Num: 19

Candidate Starts for Cassini\_43:

(Start: 19 @28827 has 2 MA's), (23, 28845), (31, 28980), (36, 29040), (38, 29094),

Gene: DarwinJr\_51 Start: 31477, Stop: 31845, Start Num: 22

Candidate Starts for DarwinJr\_51:

(1, 31267), (2, 31273), (6, 31369), (11, 31399), (12, 31402), (14, 31444), (Start: 22 @31477 has 4 MA's), (24, 31498), (36, 31681), (38, 31735),

Gene: DrYang\_60 Start: 45907, Stop: 46182, Start Num: 28

Candidate Starts for DrYang\_60:

(Start: 28 @45907 has 4 MA's), (32, 45958), (33, 45970),

Gene: Isolde\_48 Start: 30136, Stop: 30528, Start Num: 15

Candidate Starts for Isolde\_48:

(Start: 15 @30136 has 4 MA's), (17, 30145), (23, 30169), (25, 30199), (26, 30229), (31, 30304), (36, 30364), (38, 30418),

Gene: JaNo\_62 Start: 44654, Stop: 44932, Start Num: 28

Candidate Starts for JaNo\_62:

(20, 44546), (Start: 28 @44654 has 4 MA's), (32, 44705), (33, 44717), (39, 44840), (40, 44897),

Gene: JakeTheSnake\_53 Start: 32024, Stop: 32395, Start Num: 22  
Candidate Starts for JakeTheSnake\_53:  
(16, 32006), (Start: 22 @32024 has 4 MA's), (24, 32045), (26, 32093), (36, 32228), (38, 32282), (41, 32366),

Gene: JellyBread\_46 Start: 29235, Stop: 29621, Start Num: 18  
Candidate Starts for JellyBread\_46:  
(Start: 18 @29235 has 1 MA's), (31, 29400), (36, 29460), (38, 29514),

Gene: Kabloowy\_49 Start: 31171, Stop: 31542, Start Num: 19  
Candidate Starts for Kabloowy\_49:  
(10, 31105), (Start: 19 @31171 has 2 MA's), (27, 31261), (31, 31318), (34, 31345), (36, 31378), (37, 31408), (38, 31432),

Gene: Lasker\_48 Start: 30705, Stop: 31076, Start Num: 19  
Candidate Starts for Lasker\_48:  
(Start: 19 @30705 has 2 MA's), (30, 30843), (34, 30879), (35, 30909), (36, 30912), (37, 30942), (38, 30966),

Gene: Mapleville\_45 Start: 29960, Stop: 30352, Start Num: 15  
Candidate Starts for Mapleville\_45:  
(Start: 15 @29960 has 4 MA's), (17, 29969), (23, 29993), (25, 30023), (26, 30053), (31, 30128), (36, 30188), (38, 30242),

Gene: MaterMagnus\_49 Start: 30453, Stop: 30824, Start Num: 19  
Candidate Starts for MaterMagnus\_49:  
(Start: 19 @30453 has 2 MA's), (30, 30591), (31, 30600), (34, 30627), (35, 30657), (36, 30660), (37, 30690), (38, 30714),

Gene: Mordred\_62 Start: 44648, Stop: 44926, Start Num: 28  
Candidate Starts for Mordred\_62:  
(20, 44540), (Start: 28 @44648 has 4 MA's), (32, 44699), (33, 44711), (39, 44834), (40, 44891),

Gene: Nyilah\_46 Start: 28420, Stop: 28794, Start Num: 21  
Candidate Starts for Nyilah\_46:  
(Start: 21 @28420 has 2 MA's), (29, 28558), (31, 28570), (32, 28579), (36, 28630), (38, 28684), (41, 28768),

Gene: Persistence\_44 Start: 29226, Stop: 29594, Start Num: 22  
Candidate Starts for Persistence\_44:  
(Start: 22 @29226 has 4 MA's), (24, 29247), (36, 29430), (38, 29484),

Gene: Raphaella\_48 Start: 30068, Stop: 30460, Start Num: 15  
Candidate Starts for Raphaella\_48:  
(Start: 15 @30068 has 4 MA's), (17, 30077), (23, 30101), (25, 30131), (26, 30161), (31, 30236), (36, 30296), (38, 30350),

Gene: Scavito\_62 Start: 44545, Stop: 44823, Start Num: 28  
Candidate Starts for Scavito\_62:  
(7, 44335), (20, 44437), (Start: 28 @44545 has 4 MA's), (32, 44596), (39, 44731), (40, 44788),

Gene: Seahorse\_52 Start: 32428, Stop: 32802, Start Num: 21  
Candidate Starts for Seahorse\_52:

(5, 32311), (8, 32335), (11, 32347), (16, 32410), (Start: 21 @32428 has 2 MA's), (31, 32578), (32, 32587), (36, 32638), (38, 32692),

Gene: Tiff81\_45 Start: 28602, Stop: 28973, Start Num: 22

Candidate Starts for Tiff81\_45:

(6, 28494), (11, 28524), (12, 28527), (14, 28569), (Start: 22 @28602 has 4 MA's), (34, 28773), (36, 28806), (37, 28839), (38, 28863),

Gene: YoungHarleezy\_49 Start: 30634, Stop: 31026, Start Num: 15

Candidate Starts for YoungHarleezy\_49:

(Start: 15 @30634 has 4 MA's), (17, 30643), (23, 30667), (25, 30697), (26, 30727), (31, 30802), (36, 30862), (38, 30916),