



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 294971 Report

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

Pham number 294971 has 30 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Wander\_77, Kratark\_76, Iracema64\_77, Thanksgivukkah\_76, HamSlice\_73, Funston\_76, Florean\_77, Clarenza\_76, ChampagnePapi\_80, Maxo\_79, Cerulean\_79, BubbleTrouble\_76, Millski\_76, Mundrea\_76, LappelDuVide\_77, Bombshell\_77, Avle17\_77, Bruiser\_76, Maverick\_76, Roosevelt\_75, Eris\_76, JoongJeon\_76, Annyong\_76, Sultana\_77, TinaFeyge\_75, KFPoly\_76, Phacado\_77, Blackmoor\_76, Abdiel\_76, Palestino\_76

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

The start number called the most often in the published annotations is 1, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abdiel\_76, Annyong\_76, Avle17\_77, Blackmoor\_76, Bombshell\_77, Bruiser\_76, BubbleTrouble\_76, Cerulean\_79, ChampagnePapi\_80, Clarenza\_76, Eris\_76, Florean\_77, Funston\_76, HamSlice\_73, Iracema64\_77, JoongJeon\_76, KFPoly\_76, Kratark\_76, LappelDuVide\_77, Maverick\_76, Maxo\_79, Millski\_76, Mundrea\_76, Palestino\_76, Phacado\_77, Roosevelt\_75, Sultana\_77, Thanksgivukkah\_76, TinaFeyge\_75, Wander\_77,

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

- 

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

- 

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

Start 1:

- Found in 30 of 30 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 30 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abdiel\_76 (A4), Annyong\_76 (A4), Avle17\_77 (A4), Blackmoor\_76 (A4), Bombshell\_77 (A4), Bruiser\_76 (A4),

BubbleTrouble\_76 (A4), Cerulean\_79 (A4), ChampagnePapi\_80 (A4), Clarenza\_76 (A4), Eris\_76 (A4), Florean\_77 (A4), Funston\_76 (A4), HamSlice\_73 (A4), Iracema64\_77 (A4), JoongJeon\_76 (A4), KFPoly\_76 (A4), Kratark\_76 (A4), LappelDuVide\_77 (A4), Maverick\_76 (A4), Maxo\_79 (A4), Millski\_76 (A4), Mundrea\_76 (A4), Palestino\_76 (A4), Phacado\_77 (A4), Roosevelt\_75 (A4), Sultana\_77 (A4), Thanksgivukkah\_76 (A4), TinaFeyge\_75 (A4), Wander\_77 (A4),

### **Summary by clusters:**

There is one cluster represented in this pham: A4

Info for manual annotations of cluster A4:

•Start number 1 was manually annotated 30 times for cluster A4.

### **Gene Information:**

Gene: Abdiel\_76 Start: 46040, Stop: 45822, Start Num: 1

Candidate Starts for Abdiel\_76:

(Start: 1 @46040 has 30 MA's), (2, 45965), (3, 45884), (4, 45875),

Gene: Annyong\_76 Start: 46073, Stop: 45855, Start Num: 1

Candidate Starts for Annyong\_76:

(Start: 1 @46073 has 30 MA's), (2, 45998), (3, 45917), (4, 45908),

Gene: Avle17\_77 Start: 46022, Stop: 45804, Start Num: 1

Candidate Starts for Avle17\_77:

(Start: 1 @46022 has 30 MA's), (2, 45947), (3, 45866), (4, 45857),

Gene: Blackmoor\_76 Start: 46030, Stop: 45812, Start Num: 1

Candidate Starts for Blackmoor\_76:

(Start: 1 @46030 has 30 MA's), (2, 45955), (3, 45874), (4, 45865),

Gene: Bombshell\_77 Start: 46025, Stop: 45807, Start Num: 1

Candidate Starts for Bombshell\_77:

(Start: 1 @46025 has 30 MA's), (2, 45950), (3, 45869), (4, 45860),

Gene: Bruiser\_76 Start: 46028, Stop: 45810, Start Num: 1

Candidate Starts for Bruiser\_76:

(Start: 1 @46028 has 30 MA's), (2, 45953), (3, 45872), (4, 45863),

Gene: BubbleTrouble\_76 Start: 46055, Stop: 45837, Start Num: 1

Candidate Starts for BubbleTrouble\_76:

(Start: 1 @46055 has 30 MA's), (2, 45980), (3, 45899), (4, 45890),

Gene: Cerulean\_79 Start: 46466, Stop: 46248, Start Num: 1

Candidate Starts for Cerulean\_79:

(Start: 1 @46466 has 30 MA's), (2, 46391), (3, 46310), (4, 46301),

Gene: ChampagnePapi\_80 Start: 46468, Stop: 46250, Start Num: 1

Candidate Starts for ChampagnePapi\_80:

(Start: 1 @46468 has 30 MA's), (2, 46393), (3, 46312), (4, 46303),

Gene: Clarenza\_76 Start: 46025, Stop: 45807, Start Num: 1  
Candidate Starts for Clarenza\_76:  
(Start: 1 @46025 has 30 MA's), (2, 45950), (3, 45869), (4, 45860),

Gene: Eris\_76 Start: 46040, Stop: 45822, Start Num: 1  
Candidate Starts for Eris\_76:  
(Start: 1 @46040 has 30 MA's), (2, 45965), (3, 45884), (4, 45875),

Gene: Florean\_77 Start: 46027, Stop: 45809, Start Num: 1  
Candidate Starts for Florean\_77:  
(Start: 1 @46027 has 30 MA's), (2, 45952), (3, 45871), (4, 45862),

Gene: Funston\_76 Start: 46025, Stop: 45807, Start Num: 1  
Candidate Starts for Funston\_76:  
(Start: 1 @46025 has 30 MA's), (2, 45950), (3, 45869), (4, 45860),

Gene: HamSlice\_73 Start: 46027, Stop: 45809, Start Num: 1  
Candidate Starts for HamSlice\_73:  
(Start: 1 @46027 has 30 MA's), (2, 45952), (3, 45871), (4, 45862),

Gene: Iracema64\_77 Start: 46292, Stop: 46074, Start Num: 1  
Candidate Starts for Iracema64\_77:  
(Start: 1 @46292 has 30 MA's), (2, 46217), (3, 46136), (4, 46127),

Gene: JoongJeon\_76 Start: 46022, Stop: 45804, Start Num: 1  
Candidate Starts for JoongJeon\_76:  
(Start: 1 @46022 has 30 MA's), (2, 45947), (3, 45866), (4, 45857),

Gene: KFPoly\_76 Start: 46022, Stop: 45804, Start Num: 1  
Candidate Starts for KFPoly\_76:  
(Start: 1 @46022 has 30 MA's), (2, 45947), (3, 45866), (4, 45857),

Gene: Kratak\_76 Start: 46062, Stop: 45844, Start Num: 1  
Candidate Starts for Kratak\_76:  
(Start: 1 @46062 has 30 MA's), (2, 45987), (3, 45906), (4, 45897),

Gene: LappelDuVide\_77 Start: 46028, Stop: 45810, Start Num: 1  
Candidate Starts for LappelDuVide\_77:  
(Start: 1 @46028 has 30 MA's), (2, 45953), (3, 45872), (4, 45863),

Gene: Maverick\_76 Start: 46025, Stop: 45807, Start Num: 1  
Candidate Starts for Maverick\_76:  
(Start: 1 @46025 has 30 MA's), (2, 45950), (3, 45869), (4, 45860),

Gene: Maxo\_79 Start: 46031, Stop: 45813, Start Num: 1  
Candidate Starts for Maxo\_79:  
(Start: 1 @46031 has 30 MA's), (2, 45956), (3, 45875), (4, 45866),

Gene: Millski\_76 Start: 46029, Stop: 45811, Start Num: 1  
Candidate Starts for Millski\_76:  
(Start: 1 @46029 has 30 MA's), (2, 45954), (3, 45873), (4, 45864),

Gene: Mundrea\_76 Start: 46088, Stop: 45867, Start Num: 1  
Candidate Starts for Mundrea\_76:  
(Start: 1 @46088 has 30 MA's), (2, 46010), (3, 45929), (4, 45920),

Gene: Palestino\_76 Start: 46025, Stop: 45807, Start Num: 1  
Candidate Starts for Palestino\_76:  
(Start: 1 @46025 has 30 MA's), (2, 45950), (3, 45869), (4, 45860),

Gene: Phacado\_77 Start: 46024, Stop: 45806, Start Num: 1  
Candidate Starts for Phacado\_77:  
(Start: 1 @46024 has 30 MA's), (2, 45949), (3, 45868), (4, 45859),

Gene: Roosevelt\_75 Start: 46030, Stop: 45812, Start Num: 1  
Candidate Starts for Roosevelt\_75:  
(Start: 1 @46030 has 30 MA's), (2, 45955), (3, 45874), (4, 45865),

Gene: Sultana\_77 Start: 46025, Stop: 45807, Start Num: 1  
Candidate Starts for Sultana\_77:  
(Start: 1 @46025 has 30 MA's), (2, 45950), (3, 45869), (4, 45860),

Gene: Thanksgivukkah\_76 Start: 46026, Stop: 45808, Start Num: 1  
Candidate Starts for Thanksgivukkah\_76:  
(Start: 1 @46026 has 30 MA's), (2, 45951), (3, 45870), (4, 45861),

Gene: TinaFeyge\_75 Start: 46023, Stop: 45805, Start Num: 1  
Candidate Starts for TinaFeyge\_75:  
(Start: 1 @46023 has 30 MA's), (2, 45948), (3, 45867), (4, 45858),

Gene: Wander\_77 Start: 46022, Stop: 45804, Start Num: 1  
Candidate Starts for Wander\_77:  
(Start: 1 @46022 has 30 MA's), (2, 45947), (3, 45866), (4, 45857),