



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 291446 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291446 has 27 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Coog\_45
- Track 2 : Tiger\_44, Bluefalcon\_44, MarysWell\_45, Midas2\_45, AgentM\_44, Aragog\_44, UnionJack\_47, Cuco\_45, PetterN\_50, ElTiger69\_48, Jovo\_45, PickleBack\_45, Ghouboy\_48, Lev2\_45, SydNat\_48, Conspiracy\_45, Zolita\_47, ForGetIt\_45
- Track 3 : Naca\_47
- Track 4 : Jabiru\_47, Scorpia\_50, Chadwick\_49
- Track 5 : Benedict\_49
- Track 6 : Airmid\_47
- Track 7 : Theia\_44, Dublin\_45

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

The start number called the most often in the published annotations is 2, it was called in 24 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM\_44, Aragog\_44, Benedict\_49, Bluefalcon\_44, Chadwick\_49, Conspiracy\_45, Cuco\_45, Dublin\_45, ElTiger69\_48, ForGetIt\_45, Ghouboy\_48, Jabiru\_47, Jovo\_45, Lev2\_45, MarysWell\_45, Midas2\_45, PetterN\_50, PickleBack\_45, Scorpia\_50, SydNat\_48, Theia\_44, Tiger\_44, UnionJack\_47, Zolita\_47,

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

- Airmid\_47, Coog\_45, Naca\_47,

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

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

Start 1:

- Found in 24 of 27 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 3 of 27

- Called 12.5% of time when present
- Phage (with cluster) where this start called: Airmid\_47 (A5), Coog\_45 (A5), Naca\_47 (A5),

#### Start 2:

- Found in 27 of 27 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 24 of 27
- Called 88.9% of time when present
- Phage (with cluster) where this start called: AgentM\_44 (A5), Aragog\_44 (A5), Benedict\_49 (A5), Bluefalcon\_44 (A5), Chadwick\_49 (A5), Conspiracy\_45 (A5), Cuco\_45 (A5), Dublin\_45 (A5), EITiger69\_48 (A5), ForGetIt\_45 (A5), Ghoulboy\_48 (A5), Jabiru\_47 (A5), Jovo\_45 (A5), Lev2\_45 (A5), MarysWell\_45 (A5), Midas2\_45 (A5), PetterN\_50 (A5), PickleBack\_45 (A5), Scorpia\_50 (A5), SydNat\_48 (A5), Theia\_44 (A5), Tiger\_44 (A5), UnionJack\_47 (A5), Zolita\_47 (A5),

#### Summary by clusters:

There is one cluster represented in this pham: A5

Info for manual annotations of cluster A5:

- Start number 1 was manually annotated 3 times for cluster A5.
- Start number 2 was manually annotated 24 times for cluster A5.

#### **Gene Information:**

Gene: AgentM\_44 Start: 34563, Stop: 34327, Start Num: 2

Candidate Starts for AgentM\_44:

(Start: 1 @34632 has 3 MA's), (Start: 2 @34563 has 24 MA's),

Gene: Airmid\_47 Start: 34794, Stop: 34489, Start Num: 1

Candidate Starts for Airmid\_47:

(Start: 1 @34794 has 3 MA's), (Start: 2 @34725 has 24 MA's), (4, 34560),

Gene: Aragog\_44 Start: 34583, Stop: 34347, Start Num: 2

Candidate Starts for Aragog\_44:

(Start: 1 @34652 has 3 MA's), (Start: 2 @34583 has 24 MA's),

Gene: Benedict\_49 Start: 34952, Stop: 34716, Start Num: 2

Candidate Starts for Benedict\_49:

(Start: 2 @34952 has 24 MA's),

Gene: Bluefalcon\_44 Start: 35138, Stop: 34902, Start Num: 2

Candidate Starts for Bluefalcon\_44:

(Start: 1 @35207 has 3 MA's), (Start: 2 @35138 has 24 MA's),

Gene: Chadwick\_49 Start: 34763, Stop: 34527, Start Num: 2

Candidate Starts for Chadwick\_49:

(Start: 1 @34832 has 3 MA's), (Start: 2 @34763 has 24 MA's), (3, 34640),

Gene: Conspiracy\_45 Start: 34805, Stop: 34569, Start Num: 2

Candidate Starts for Conspiracy\_45:

(Start: 1 @34874 has 3 MA's), (Start: 2 @34805 has 24 MA's),

Gene: Coog\_45 Start: 35035, Stop: 34730, Start Num: 1

Candidate Starts for Coog\_45:

(Start: 1 @35035 has 3 MA's), (Start: 2 @34966 has 24 MA's),

Gene: Cuco\_45 Start: 34838, Stop: 34602, Start Num: 2

Candidate Starts for Cuco\_45:

(Start: 1 @34907 has 3 MA's), (Start: 2 @34838 has 24 MA's),

Gene: Dublin\_45 Start: 34974, Stop: 34738, Start Num: 2

Candidate Starts for Dublin\_45:

(Start: 2 @34974 has 24 MA's),

Gene: EITiger69\_48 Start: 34934, Stop: 34698, Start Num: 2

Candidate Starts for EITiger69\_48:

(Start: 1 @35003 has 3 MA's), (Start: 2 @34934 has 24 MA's),

Gene: ForGetIt\_45 Start: 34830, Stop: 34594, Start Num: 2

Candidate Starts for ForGetIt\_45:

(Start: 1 @34899 has 3 MA's), (Start: 2 @34830 has 24 MA's),

Gene: Ghoulboy\_48 Start: 35709, Stop: 35473, Start Num: 2

Candidate Starts for Ghoulboy\_48:

(Start: 1 @35778 has 3 MA's), (Start: 2 @35709 has 24 MA's),

Gene: Jabiru\_47 Start: 34807, Stop: 34571, Start Num: 2

Candidate Starts for Jabiru\_47:

(Start: 1 @34876 has 3 MA's), (Start: 2 @34807 has 24 MA's), (3, 34684),

Gene: Jovo\_45 Start: 35086, Stop: 34850, Start Num: 2

Candidate Starts for Jovo\_45:

(Start: 1 @35155 has 3 MA's), (Start: 2 @35086 has 24 MA's),

Gene: Lev2\_45 Start: 34718, Stop: 34482, Start Num: 2

Candidate Starts for Lev2\_45:

(Start: 1 @34787 has 3 MA's), (Start: 2 @34718 has 24 MA's),

Gene: MarysWell\_45 Start: 35217, Stop: 34981, Start Num: 2

Candidate Starts for MarysWell\_45:

(Start: 1 @35286 has 3 MA's), (Start: 2 @35217 has 24 MA's),

Gene: Midas2\_45 Start: 34966, Stop: 34730, Start Num: 2

Candidate Starts for Midas2\_45:

(Start: 1 @35035 has 3 MA's), (Start: 2 @34966 has 24 MA's),

Gene: Naca\_47 Start: 35412, Stop: 35107, Start Num: 1

Candidate Starts for Naca\_47:

(Start: 1 @35412 has 3 MA's), (Start: 2 @35343 has 24 MA's), (3, 35220), (4, 35178),

Gene: PetterN\_50 Start: 34931, Stop: 34695, Start Num: 2

Candidate Starts for PetterN\_50:

(Start: 1 @35000 has 3 MA's), (Start: 2 @34931 has 24 MA's),

Gene: PickleBack\_45 Start: 34710, Stop: 34474, Start Num: 2  
Candidate Starts for PickleBack\_45:  
(Start: 1 @34779 has 3 MA's), (Start: 2 @34710 has 24 MA's),

Gene: Scorpia\_50 Start: 35017, Stop: 34781, Start Num: 2  
Candidate Starts for Scorpia\_50:  
(Start: 1 @35086 has 3 MA's), (Start: 2 @35017 has 24 MA's), (3, 34894),

Gene: SydNat\_48 Start: 35718, Stop: 35482, Start Num: 2  
Candidate Starts for SydNat\_48:  
(Start: 1 @35787 has 3 MA's), (Start: 2 @35718 has 24 MA's),

Gene: Theia\_44 Start: 35195, Stop: 34959, Start Num: 2  
Candidate Starts for Theia\_44:  
(Start: 2 @35195 has 24 MA's),

Gene: Tiger\_44 Start: 34384, Stop: 34148, Start Num: 2  
Candidate Starts for Tiger\_44:  
(Start: 1 @34453 has 3 MA's), (Start: 2 @34384 has 24 MA's),

Gene: UnionJack\_47 Start: 34507, Stop: 34271, Start Num: 2  
Candidate Starts for UnionJack\_47:  
(Start: 1 @34576 has 3 MA's), (Start: 2 @34507 has 24 MA's),

Gene: Zolita\_47 Start: 35722, Stop: 35486, Start Num: 2  
Candidate Starts for Zolita\_47:  
(Start: 1 @35791 has 3 MA's), (Start: 2 @35722 has 24 MA's),