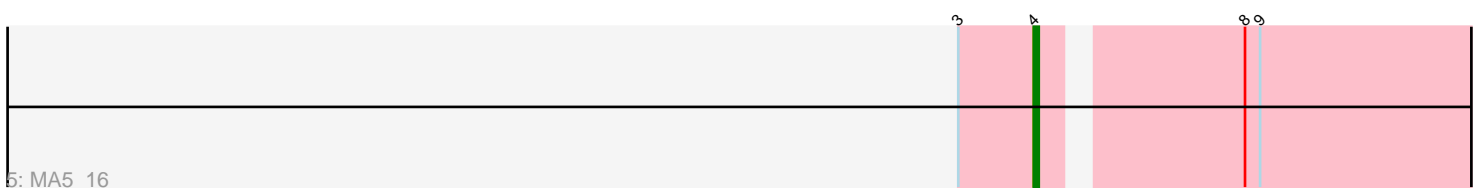
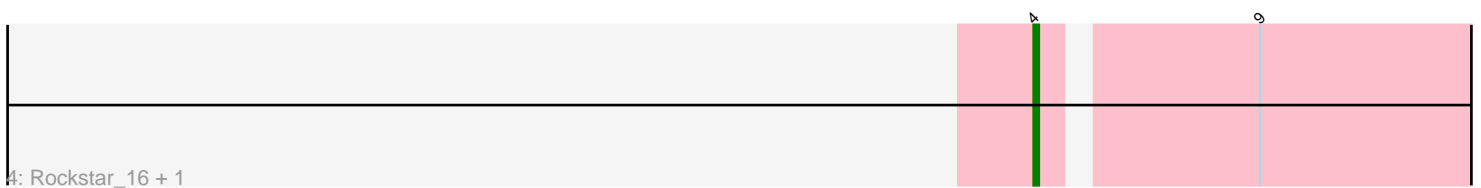
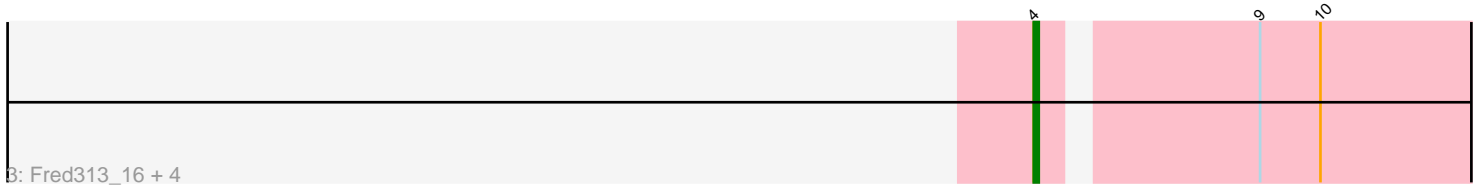
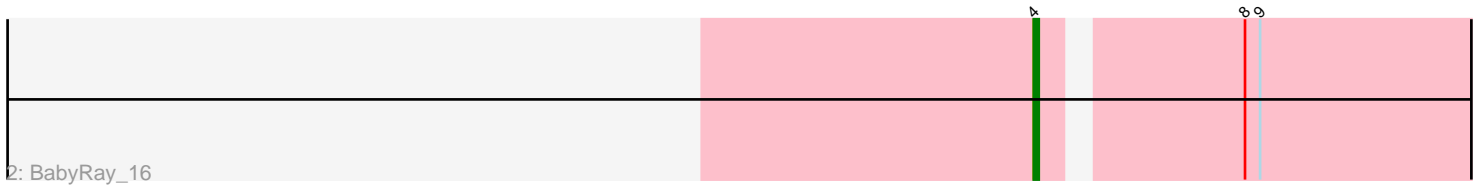
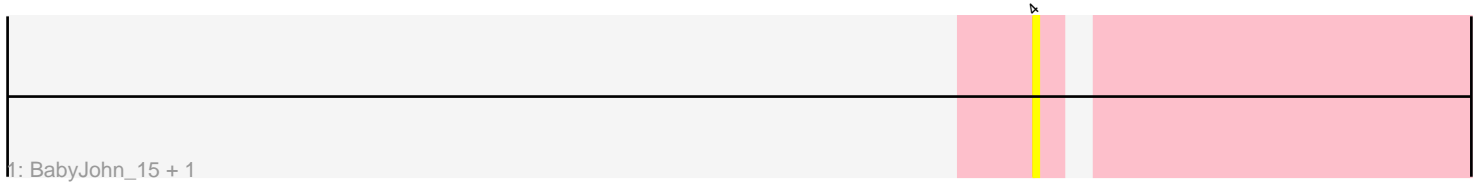


Pham 305387



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 305387 Report

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

Pham number 305387 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BabyJohn\_15, Chiqui\_15
- Track 2 : BabyRay\_16
- Track 3 : Fred313\_16, JF2\_16, JF4\_16, MK4\_16, B1\_14
- Track 4 : Rockstar\_16, Isca\_16
- Track 5 : MA5\_16
- Track 6 : PP\_26
- Track 7 : InLimbo\_8, Morkie\_7, PhorbesPhlower\_7
- Track 8 : Lucky10\_7

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

The start number called the most often in the published annotations is 4, it was called in 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- B1\_14, BabyJohn\_15, BabyRay\_16, Chiqui\_15, Fred313\_16, Isca\_16, JF2\_16, JF4\_16, MA5\_16, MK4\_16, PP\_26, Rockstar\_16,

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

- Lucky10\_7,

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

- InLimbo\_8, Morkie\_7, PhorbesPhlower\_7,

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

Start 4:

- Found in 13 of 16 ( 81.2% ) of genes in pham
- Manual Annotations of this start: 10 of 13
- Called 92.3% of time when present
- Phage (with cluster) where this start called: B1\_14 (A3), BabyJohn\_15 (A3), BabyRay\_16 (A3), Chiqui\_15 (A3), Fred313\_16 (A3), Isca\_16 (A3), JF2\_16 (A3), JF4\_16 (A3), MA5\_16 (A3), MK4\_16 (A3), PP\_26 (A7), Rockstar\_16 (A3),

Start 5:

- Found in 4 of 16 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: InLimbo\_8 (DH), Lucky10\_7 (DH), Morkie\_7 (DH), PhorbesPhlower\_7 (DH),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A3, DH, A7,

Info for manual annotations of cluster A3:

- Start number 4 was manually annotated 9 times for cluster A3.

Info for manual annotations of cluster A7:

- Start number 4 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster DH:

- Start number 5 was manually annotated 3 times for cluster DH.

### **Gene Information:**

Gene: B1\_14 Start: 11811, Stop: 11987, Start Num: 4

Candidate Starts for B1\_14:

(Start: 4 @11811 has 10 MA's), (9, 11850), (10, 11862),

Gene: BabyJohn\_15 Start: 12395, Stop: 12571, Start Num: 4

Candidate Starts for BabyJohn\_15:

(Start: 4 @12395 has 10 MA's),

Gene: BabyRay\_16 Start: 12381, Stop: 12560, Start Num: 4

Candidate Starts for BabyRay\_16:

(Start: 4 @12381 has 10 MA's), (8, 12417), (9, 12420),

Gene: Chiqui\_15 Start: 12395, Stop: 12571, Start Num: 4

Candidate Starts for Chiqui\_15:

(Start: 4 @12395 has 10 MA's),

Gene: Fred313\_16 Start: 11876, Stop: 12052, Start Num: 4

Candidate Starts for Fred313\_16:

(Start: 4 @11876 has 10 MA's), (9, 11915), (10, 11927),

Gene: InLimbo\_8 Start: 5358, Stop: 5504, Start Num: 5

Candidate Starts for InLimbo\_8:

(Start: 5 @5358 has 3 MA's), (6, 5379),

Gene: Isca\_16 Start: 12055, Stop: 12222, Start Num: 4

Candidate Starts for Isca\_16:

(Start: 4 @12055 has 10 MA's), (9, 12094),

Gene: JF2\_16 Start: 11811, Stop: 11987, Start Num: 4

Candidate Starts for JF2\_16:  
(Start: 4 @11811 has 10 MA's), (9, 11850), (10, 11862),

Gene: JF4\_16 Start: 11811, Stop: 11987, Start Num: 4  
Candidate Starts for JF4\_16:  
(Start: 4 @11811 has 10 MA's), (9, 11850), (10, 11862),

Gene: Lucky10\_7 Start: 5390, Stop: 5542, Start Num: 5  
Candidate Starts for Lucky10\_7:  
(Start: 4 @5387 has 10 MA's), (Start: 5 @5390 has 3 MA's), (7, 5417),

Gene: MA5\_16 Start: 11752, Stop: 11931, Start Num: 4  
Candidate Starts for MA5\_16:  
(3, 11737), (Start: 4 @11752 has 10 MA's), (8, 11788), (9, 11791),

Gene: MK4\_16 Start: 12045, Stop: 12221, Start Num: 4  
Candidate Starts for MK4\_16:  
(Start: 4 @12045 has 10 MA's), (9, 12084), (10, 12096),

Gene: Morkie\_7 Start: 5358, Stop: 5504, Start Num: 5  
Candidate Starts for Morkie\_7:  
(Start: 5 @5358 has 3 MA's), (6, 5379),

Gene: PP\_26 Start: 18359, Stop: 18544, Start Num: 4  
Candidate Starts for PP\_26:  
(1, 18167), (2, 18194), (Start: 4 @18359 has 10 MA's), (9, 18398),

Gene: PhorbesPhlower\_7 Start: 5358, Stop: 5504, Start Num: 5  
Candidate Starts for PhorbesPhlower\_7:  
(Start: 5 @5358 has 3 MA's), (6, 5379),

Gene: Rockstar\_16 Start: 12051, Stop: 12227, Start Num: 4  
Candidate Starts for Rockstar\_16:  
(Start: 4 @12051 has 10 MA's), (9, 12090),