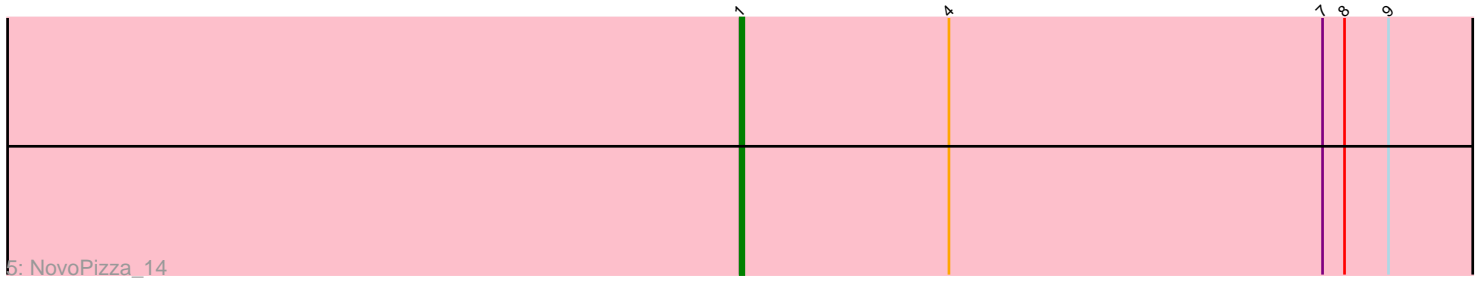
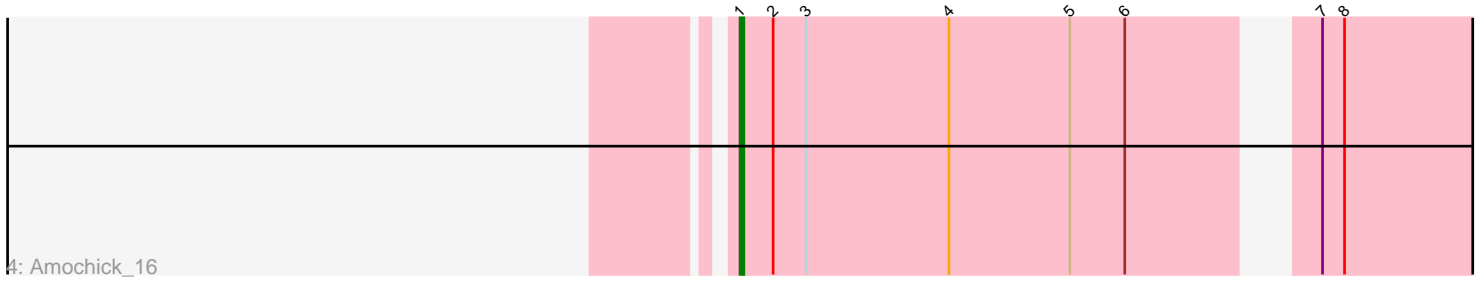
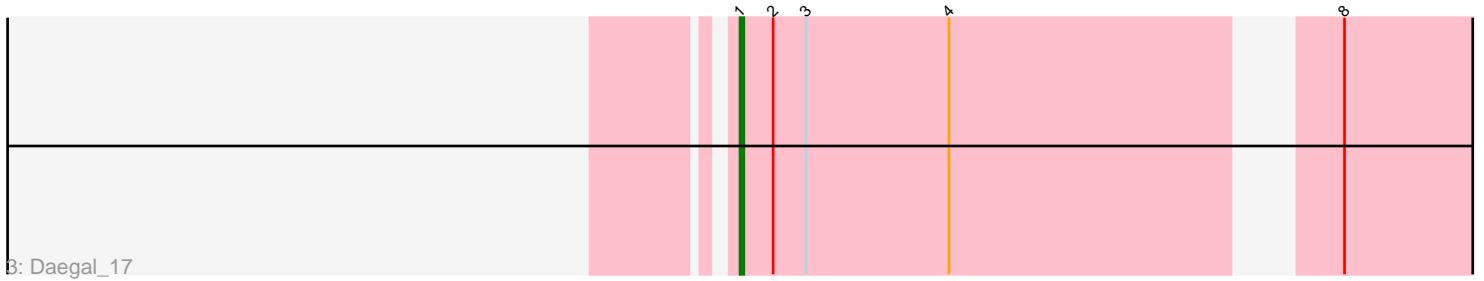
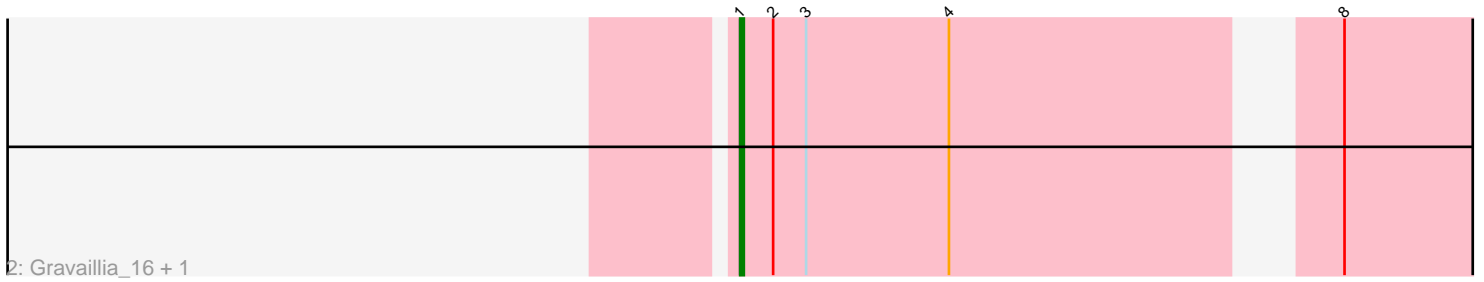
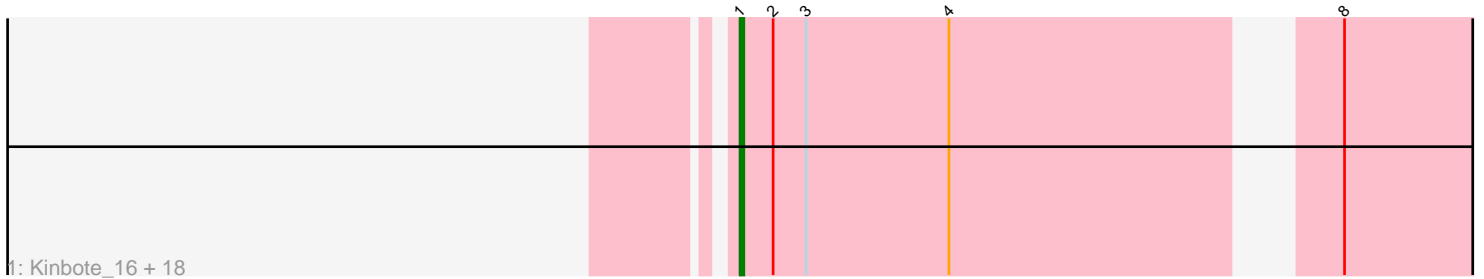


# Zoomed Pham 309174



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 309174 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309174 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Kinbote\_16, BloominB\_16, LilHazelnut\_16, Evanesce\_16, Hadrien\_16, DeepSoil15\_16, Webster2\_16, Ein37\_16, Amymech\_16, Giles\_16, OBUpride\_16, Dewey\_16, Wishmaker\_16, HH92\_16, Forge\_16, Luke\_16, Luna22\_16, Hail\_16, Ubuntu\_16
- Track 2 : Gravaillia\_16, Gancho\_15
- Track 3 : Daegal\_17
- Track 4 : Amochick\_16
- Track 5 : NovoPizza\_14

### ***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 23 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick\_16, Amymech\_16, BloominB\_16, Daegal\_17, DeepSoil15\_16, Dewey\_16, Ein37\_16, Evanesce\_16, Forge\_16, Gancho\_15, Giles\_16, Gravaillia\_16, HH92\_16, Hadrien\_16, Hail\_16, Kinbote\_16, LilHazelnut\_16, Luke\_16, Luna22\_16, NovoPizza\_14, OBUpride\_16, Ubuntu\_16, Webster2\_16, Wishmaker\_16,

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 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 23 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick\_16 (Q), Amymech\_16 (Q), BloominB\_16 (Q), Daegal\_17 (Q), DeepSoil15\_16 (Q), Dewey\_16 (Q), Ein37\_16 (Q),

Evanesce\_16 (Q), Forge\_16 (Q), Gancho\_15 (Q), Giles\_16 (Q), Gravaillia\_16 (Q), HH92\_16 (Q), Hadrien\_16 (Q), Hail\_16 (Q), Kinbote\_16 (Q), LilHazelNut\_16 (Q), Luke\_16 (Q), Luna22\_16 (Q), NovoPizza\_14 (Q), OBUpride\_16 (Q), Ubuntu\_16 (Q), Webster2\_16 (Q), Wishmaker\_16 (Q),

### **Summary by clusters:**

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

•Start number 1 was manually annotated 23 times for cluster Q.

### **Gene Information:**

Gene: Amochick\_16 Start: 10505, Stop: 10912, Start Num: 1

Candidate Starts for Amochick\_16:

(Start: 1 @10505 has 23 MA's), (2, 10514), (3, 10523), (4, 10562), (5, 10595), (6, 10610), (7, 10649), (8, 10655), (10, 10691), (11, 10700), (12, 10742), (13, 10745), (14, 10787), (15, 10811),

Gene: Amymech\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Amymech\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: BloominB\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for BloominB\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Daegal\_17 Start: 10802, Stop: 11203, Start Num: 1

Candidate Starts for Daegal\_17:

(Start: 1 @10802 has 23 MA's), (2, 10811), (3, 10820), (4, 10859), (8, 10949), (10, 10985), (11, 10994), (12, 11036), (13, 11039), (15, 11102),

Gene: DeepSoil15\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for DeepSoil15\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Dewey\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Dewey\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Ein37\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Ein37\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Evanesce\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Evanesce\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Forge\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Forge\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Gancho\_15 Start: 10214, Stop: 10615, Start Num: 1

Candidate Starts for Gancho\_15:

(Start: 1 @10214 has 23 MA's), (2, 10223), (3, 10232), (4, 10271), (8, 10361), (10, 10397), (11, 10406), (12, 10448), (13, 10451), (15, 10514),

Gene: Giles\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Giles\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Gravaillia\_16 Start: 10247, Stop: 10648, Start Num: 1

Candidate Starts for Gravaillia\_16:

(Start: 1 @10247 has 23 MA's), (2, 10256), (3, 10265), (4, 10304), (8, 10394), (10, 10430), (11, 10439), (12, 10481), (13, 10484), (15, 10547),

Gene: HH92\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for HH92\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Hadrien\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Hadrien\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Hail\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Hail\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Kinbote\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Kinbote\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: LilHazelnut\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for LilHazelnut\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Luke\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Luke\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Luna22\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Luna22\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: NovoPizza\_14 Start: 10615, Stop: 11157, Start Num: 1

Candidate Starts for NovoPizza\_14:

(Start: 1 @10615 has 23 MA's), (4, 10672), (7, 10774), (8, 10780), (9, 10792), (12, 10867), (13, 10870), (16, 10945), (17, 10981), (18, 11011), (19, 11101),

Gene: OBUpride\_16 Start: 10505, Stop: 10909, Start Num: 1

Candidate Starts for OBUpride\_16:

(Start: 1 @10505 has 23 MA's), (2, 10514), (3, 10523), (4, 10562), (8, 10652), (10, 10688), (11, 10697), (12, 10739), (13, 10742), (14, 10784), (15, 10808),

Gene: Ubuntu\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Ubuntu\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Webster2\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Webster2\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),

Gene: Wishmaker\_16 Start: 10511, Stop: 10915, Start Num: 1

Candidate Starts for Wishmaker\_16:

(Start: 1 @10511 has 23 MA's), (2, 10520), (3, 10529), (4, 10568), (8, 10658), (10, 10694), (11, 10703), (12, 10745), (13, 10748), (14, 10790), (15, 10814),