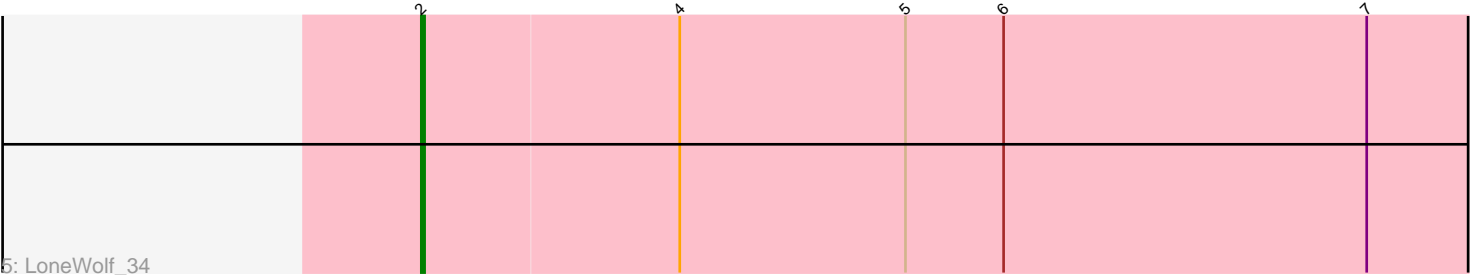
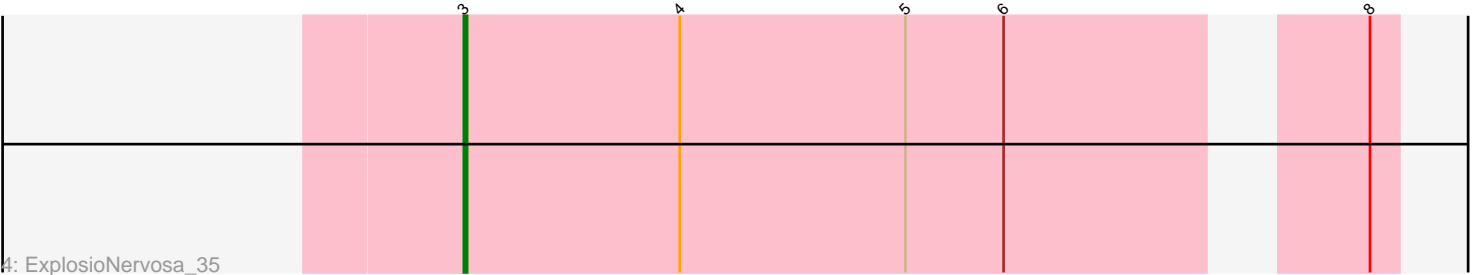
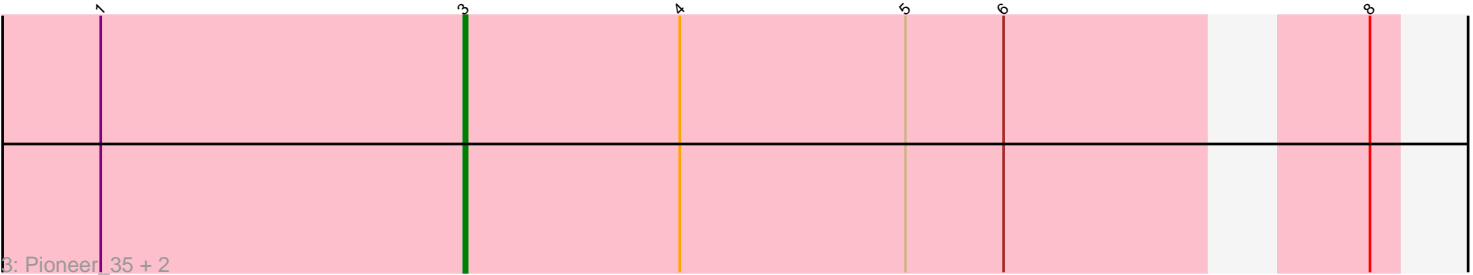
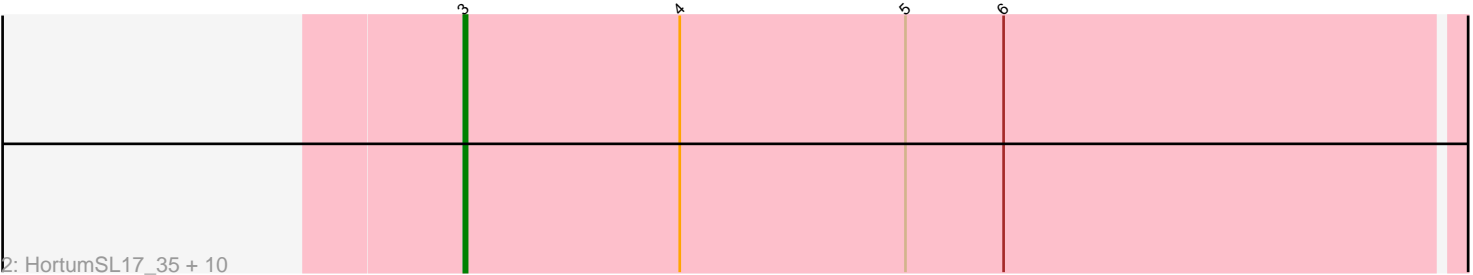
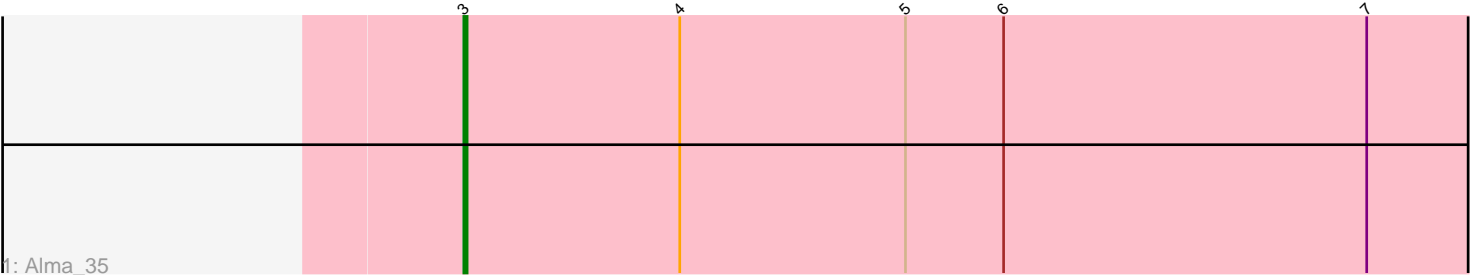


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 106645 Report

This analysis was run 04/05/24 on database version 557.

Pham number 106645 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Alma\_35
- Track 2 : HortumSL17\_35, Myxus\_35, Catalina\_36, Conquerage\_35, Qobbit\_35, Phaeder\_35, Fayely\_35, Eidsmoe\_35, Aliter\_35, Tubs\_35, Priya\_35
- Track 3 : Pioneer\_35, Phonnegut\_35, Beemo\_35
- Track 4 : ExplosioNervosa\_35
- Track 5 : LoneWolf\_34

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

The start number called the most often in the published annotations is 3, it was called in 16 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aliter\_35, Alma\_35, Beemo\_35, Catalina\_36, Conquerage\_35, Eidsmoe\_35, ExplosioNervosa\_35, Fayely\_35, HortumSL17\_35, Myxus\_35, Phaeder\_35, Phonnegut\_35, Pioneer\_35, Priya\_35, Qobbit\_35, Tubs\_35,

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

- 

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

- LoneWolf\_34,

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

Start 2:

- Found in 1 of 17 ( 5.9% ) 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: LoneWolf\_34 (A9),

Start 3:

- Found in 16 of 17 ( 94.1% ) of genes in pham
- Manual Annotations of this start: 16 of 17

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aliter\_35 (A9), Alma\_35 (A9), Beemo\_35 (A9), Catalina\_36 (A9), Conquerage\_35 (A9), Eidsmoe\_35 (A9), ExplosioNervosa\_35 (A9), Fayely\_35 (A9), HortumSL17\_35 (A9), Myxus\_35 (A9), Phaeder\_35 (A9), Phonnegut\_35 (A9), Pioneer\_35 (A9), Priya\_35 (A9), Qobbit\_35 (A9), Tubs\_35 (A9),

### **Summary by clusters:**

There is one cluster represented in this pham: A9

Info for manual annotations of cluster A9:

- Start number 2 was manually annotated 1 time for cluster A9.
- Start number 3 was manually annotated 16 times for cluster A9.

### **Gene Information:**

Gene: Aliter\_35 Start: 26452, Stop: 26874, Start Num: 3

Candidate Starts for Aliter\_35:

(Start: 3 @26452 has 16 MA's), (4, 26518), (5, 26587), (6, 26617),

Gene: Alma\_35 Start: 26568, Stop: 26876, Start Num: 3

Candidate Starts for Alma\_35:

(Start: 3 @26568 has 16 MA's), (4, 26634), (5, 26703), (6, 26733), (7, 26844),

Gene: Beemo\_35 Start: 26559, Stop: 26822, Start Num: 3

Candidate Starts for Beemo\_35:

(1, 26448), (Start: 3 @26559 has 16 MA's), (4, 26625), (5, 26694), (6, 26724), (8, 26814),

Gene: Catalina\_36 Start: 26525, Stop: 26947, Start Num: 3

Candidate Starts for Catalina\_36:

(Start: 3 @26525 has 16 MA's), (4, 26591), (5, 26660), (6, 26690),

Gene: Conquerage\_35 Start: 26554, Stop: 26976, Start Num: 3

Candidate Starts for Conquerage\_35:

(Start: 3 @26554 has 16 MA's), (4, 26620), (5, 26689), (6, 26719),

Gene: Eidsmoe\_35 Start: 26588, Stop: 27010, Start Num: 3

Candidate Starts for Eidsmoe\_35:

(Start: 3 @26588 has 16 MA's), (4, 26654), (5, 26723), (6, 26753),

Gene: ExplosioNervosa\_35 Start: 26593, Stop: 26856, Start Num: 3

Candidate Starts for ExplosioNervosa\_35:

(Start: 3 @26593 has 16 MA's), (4, 26659), (5, 26728), (6, 26758), (8, 26848),

Gene: Fayely\_35 Start: 26557, Stop: 26979, Start Num: 3

Candidate Starts for Fayely\_35:

(Start: 3 @26557 has 16 MA's), (4, 26623), (5, 26692), (6, 26722),

Gene: HortumSL17\_35 Start: 26524, Stop: 26946, Start Num: 3

Candidate Starts for HortumSL17\_35:

(Start: 3 @26524 has 16 MA's), (4, 26590), (5, 26659), (6, 26689),

Gene: LoneWolf\_34 Start: 26103, Stop: 26423, Start Num: 2

Candidate Starts for LoneWolf\_34:

(Start: 2 @26103 has 1 MA's), (4, 26181), (5, 26250), (6, 26280), (7, 26391),

Gene: Myxus\_35 Start: 26524, Stop: 26946, Start Num: 3

Candidate Starts for Myxus\_35:

(Start: 3 @26524 has 16 MA's), (4, 26590), (5, 26659), (6, 26689),

Gene: Phaeder\_35 Start: 26524, Stop: 26946, Start Num: 3

Candidate Starts for Phaeder\_35:

(Start: 3 @26524 has 16 MA's), (4, 26590), (5, 26659), (6, 26689),

Gene: Phonnegut\_35 Start: 26558, Stop: 26821, Start Num: 3

Candidate Starts for Phonnegut\_35:

(1, 26447), (Start: 3 @26558 has 16 MA's), (4, 26624), (5, 26693), (6, 26723), (8, 26813),

Gene: Pioneer\_35 Start: 26558, Stop: 26821, Start Num: 3

Candidate Starts for Pioneer\_35:

(1, 26447), (Start: 3 @26558 has 16 MA's), (4, 26624), (5, 26693), (6, 26723), (8, 26813),

Gene: Priya\_35 Start: 26591, Stop: 27013, Start Num: 3

Candidate Starts for Priya\_35:

(Start: 3 @26591 has 16 MA's), (4, 26657), (5, 26726), (6, 26756),

Gene: Qobbit\_35 Start: 26553, Stop: 26975, Start Num: 3

Candidate Starts for Qobbit\_35:

(Start: 3 @26553 has 16 MA's), (4, 26619), (5, 26688), (6, 26718),

Gene: Tubs\_35 Start: 26524, Stop: 26946, Start Num: 3

Candidate Starts for Tubs\_35:

(Start: 3 @26524 has 16 MA's), (4, 26590), (5, 26659), (6, 26689),