



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 87494 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87494 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : GreenHearts\_35, Albanese\_35, Oxyntfrius\_35, Greenhouse\_36
- Track 2 : Joann\_35
- Track 3 : Lakshmi\_35, Nubia\_35
- Track 4 : RcigaStruga\_34, Huntingdon\_34
- Track 5 : Misaeng\_34

### ***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 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Albanese\_35, GreenHearts\_35, Greenhouse\_36, Huntingdon\_34, Joann\_35, Lakshmi\_35, Nubia\_35, Oxyntfrius\_35, RcigaStruga\_34,

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

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

- Misaeng\_34,

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

Start 2:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese\_35 (AK), GreenHearts\_35 (AK), Greenhouse\_36 (AK), Huntingdon\_34 (AK), Joann\_35 (AK), Lakshmi\_35 (AK), Nubia\_35 (AK), Oxyntfrius\_35 (AK), RcigaStruga\_34 (AK),

Start 3:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Misaeng\_34 (AK),

### **Summary by clusters:**

There is one cluster represented in this pham: AK

Info for manual annotations of cluster AK:

- Start number 2 was manually annotated 9 times for cluster AK.
- Start number 3 was manually annotated 1 time for cluster AK.

### **Gene Information:**

Gene: Albanese\_35 Start: 26030, Stop: 26380, Start Num: 2

Candidate Starts for Albanese\_35:

(Start: 2 @26030 has 9 MA's), (4, 26084), (5, 26138), (6, 26168), (11, 26291), (12, 26330),

Gene: GreenHearts\_35 Start: 26122, Stop: 26472, Start Num: 2

Candidate Starts for GreenHearts\_35:

(Start: 2 @26122 has 9 MA's), (4, 26176), (5, 26230), (6, 26260), (11, 26383), (12, 26422),

Gene: Greenhouse\_36 Start: 26037, Stop: 26387, Start Num: 2

Candidate Starts for Greenhouse\_36:

(Start: 2 @26037 has 9 MA's), (4, 26091), (5, 26145), (6, 26175), (11, 26298), (12, 26337),

Gene: Huntingdon\_34 Start: 25773, Stop: 26123, Start Num: 2

Candidate Starts for Huntingdon\_34:

(Start: 2 @25773 has 9 MA's), (4, 25827), (5, 25881), (6, 25911), (10, 26019), (11, 26034), (12, 26073),

Gene: Joann\_35 Start: 26008, Stop: 26349, Start Num: 2

Candidate Starts for Joann\_35:

(Start: 2 @26008 has 9 MA's), (4, 26062), (5, 26116), (6, 26146), (7, 26149), (8, 26242), (9, 26251), (12, 26299),

Gene: Lakshmi\_35 Start: 26006, Stop: 26356, Start Num: 2

Candidate Starts for Lakshmi\_35:

(Start: 2 @26006 has 9 MA's), (4, 26060), (6, 26144), (11, 26267), (12, 26306),

Gene: Misaeng\_34 Start: 26006, Stop: 26356, Start Num: 3

Candidate Starts for Misaeng\_34:

(1, 25928), (Start: 3 @26006 has 1 MA's), (6, 26144), (10, 26252), (11, 26267), (12, 26306),

Gene: Nubia\_35 Start: 25955, Stop: 26305, Start Num: 2

Candidate Starts for Nubia\_35:

(Start: 2 @25955 has 9 MA's), (4, 26009), (6, 26093), (11, 26216), (12, 26255),

Gene: Oxynfrius\_35 Start: 25984, Stop: 26334, Start Num: 2

Candidate Starts for Oxynfrius\_35:

(Start: 2 @25984 has 9 MA's), (4, 26038), (5, 26092), (6, 26122), (11, 26245), (12, 26284),

Gene: RcigaStruga\_34 Start: 25773, Stop: 26123, Start Num: 2

Candidate Starts for RcigaStruga\_34:

(Start: 2 @25773 has 9 MA's), (4, 25827), (5, 25881), (6, 25911), (10, 26019), (11, 26034), (12, 26073),