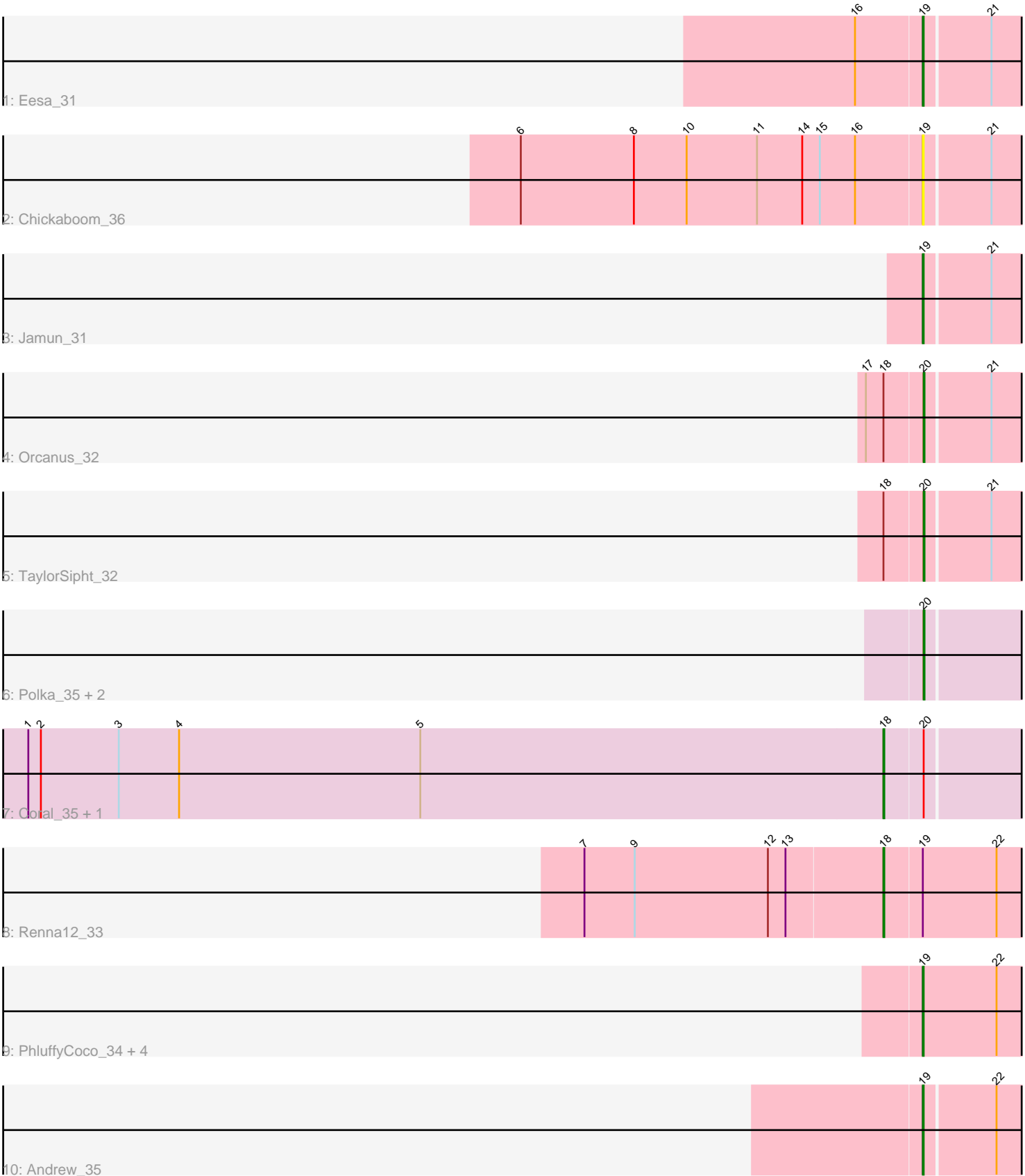


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87124 Report

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

Pham number 87124 has 17 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Eesa\_31
- Track 2 : Chickaboom\_36
- Track 3 : Jamun\_31
- Track 4 : Orcanus\_32
- Track 5 : TaylorSipht\_32
- Track 6 : Polka\_35, Daob\_37, HannahPhantana\_39
- Track 7 : Coral\_35, Cote\_37
- Track 8 : Renna12\_33
- Track 9 : PhluffyCoco\_34, Juno112\_34, Leona\_33, RedFox\_34, KHumphrey\_33
- Track 10 : Andrew\_35

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

The start number called the most often in the published annotations is 19, it was called in 5 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Andrew\_35, Chickaboom\_36, Eesa\_31, Jamun\_31, Juno112\_34, KHumphrey\_33, Leona\_33, PhluffyCoco\_34, RedFox\_34,

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

- Renna12\_33,

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

- Coral\_35, Cote\_37, Daob\_37, HannahPhantana\_39, Orcanus\_32, Polka\_35, TaylorSipht\_32,

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

Start 18:

- Found in 5 of 17 ( 29.4% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 60.0% of time when present

- Phage (with cluster) where this start called: Coral\_35 (AS2), Cote\_37 (AS2), Renna12\_33 (AS3),

Start 19:

- Found in 10 of 17 ( 58.8% ) of genes in pham
- Manual Annotations of this start: 5 of 12
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Andrew\_35 (AS3), Chickaboom\_36 (AS1), Eesa\_31 (AS1), Jamun\_31 (AS1), Juno112\_34 (AS3), KHumphrey\_33 (AS3), Leona\_33 (AS3), PhluffyCoco\_34 (AS3), RedFox\_34 (AS3),

Start 20:

- Found in 7 of 17 ( 41.2% ) of genes in pham
- Manual Annotations of this start: 4 of 12
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Daob\_37 (AS2), HannahPhantana\_39 (AS2), Orcanus\_32 (AS1), Polka\_35 (AS2), TaylorSipht\_32 (AS1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:

- Start number 19 was manually annotated 2 times for cluster AS1.
- Start number 20 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 18 was manually annotated 2 times for cluster AS2.
- Start number 20 was manually annotated 2 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 18 was manually annotated 1 time for cluster AS3.
- Start number 19 was manually annotated 3 times for cluster AS3.

### **Gene Information:**

Gene: Andrew\_35 Start: 22183, Stop: 21995, Start Num: 19

Candidate Starts for Andrew\_35:

(Start: 19 @22183 has 5 MA's), (22, 22102),

Gene: Chickaboom\_36 Start: 22527, Stop: 22345, Start Num: 19

Candidate Starts for Chickaboom\_36:

(6, 23004), (8, 22869), (10, 22806), (11, 22722), (14, 22668), (15, 22647), (16, 22605), (Start: 19 @22527 has 5 MA's), (21, 22452),

Gene: Coral\_35 Start: 22609, Stop: 22382, Start Num: 18

Candidate Starts for Coral\_35:

(1, 23629), (2, 23614), (3, 23521), (4, 23449), (5, 23161), (Start: 18 @22609 has 3 MA's), (Start: 20 @22564 has 4 MA's),

Gene: Cote\_37 Start: 23086, Stop: 22859, Start Num: 18

Candidate Starts for Cote\_37:

(1, 24106), (2, 24091), (3, 23998), (4, 23926), (5, 23638), (Start: 18 @23086 has 3 MA's), (Start: 20 @23041 has 4 MA's),

Gene: Daob\_37 Start: 23050, Stop: 22868, Start Num: 20

Candidate Starts for Daob\_37:

(Start: 20 @23050 has 4 MA's),

Gene: Eesa\_31 Start: 23331, Stop: 23149, Start Num: 19

Candidate Starts for Eesa\_31:

(16, 23409), (Start: 19 @23331 has 5 MA's), (21, 23256),

Gene: HannahPhantana\_39 Start: 22712, Stop: 22530, Start Num: 20

Candidate Starts for HannahPhantana\_39:

(Start: 20 @22712 has 4 MA's),

Gene: Jamun\_31 Start: 22438, Stop: 22256, Start Num: 19

Candidate Starts for Jamun\_31:

(Start: 19 @22438 has 5 MA's), (21, 22363),

Gene: Juno112\_34 Start: 22213, Stop: 22034, Start Num: 19

Candidate Starts for Juno112\_34:

(Start: 19 @22213 has 5 MA's), (22, 22141),

Gene: KHumphrey\_33 Start: 22212, Stop: 22033, Start Num: 19

Candidate Starts for KHumphrey\_33:

(Start: 19 @22212 has 5 MA's), (22, 22140),

Gene: Leona\_33 Start: 22280, Stop: 22101, Start Num: 19

Candidate Starts for Leona\_33:

(Start: 19 @22280 has 5 MA's), (22, 22208),

Gene: Orcanus\_32 Start: 23008, Stop: 22826, Start Num: 20

Candidate Starts for Orcanus\_32:

(17, 23074), (Start: 18 @23053 has 3 MA's), (Start: 20 @23008 has 4 MA's), (21, 22933),

Gene: PhluffyCoco\_34 Start: 22210, Stop: 22016, Start Num: 19

Candidate Starts for PhluffyCoco\_34:

(Start: 19 @22210 has 5 MA's), (22, 22123),

Gene: Polka\_35 Start: 22566, Stop: 22384, Start Num: 20

Candidate Starts for Polka\_35:

(Start: 20 @22566 has 4 MA's),

Gene: RedFox\_34 Start: 22209, Stop: 22030, Start Num: 19

Candidate Starts for RedFox\_34:

(Start: 19 @22209 has 5 MA's), (22, 22137),

Gene: Renna12\_33 Start: 22293, Stop: 22057, Start Num: 18

Candidate Starts for Renna12\_33:

(7, 22647), (9, 22587), (12, 22428), (13, 22407), (Start: 18 @22293 has 3 MA's), (Start: 19 @22251 has 5 MA's), (22, 22164),

Gene: TaylorSipht\_32 Start: 22421, Stop: 22239, Start Num: 20  
Candidate Starts for TaylorSipht\_32:  
(Start: 18 @22466 has 3 MA's), (Start: 20 @22421 has 4 MA's), (21, 22346),