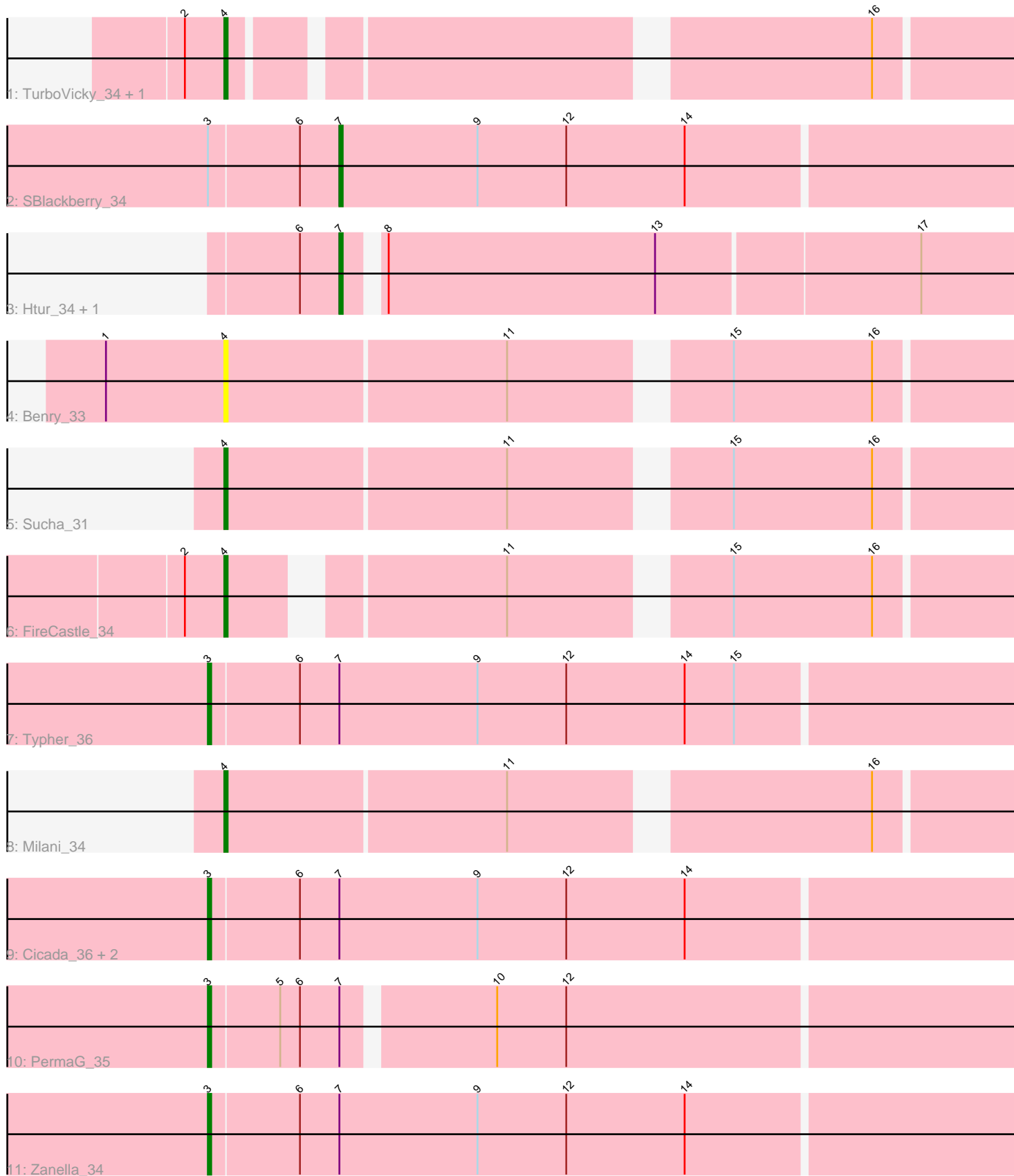


# Pham 135926



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 135926 Report

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

Pham number 135926 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : TurboVicky\_34, Jera\_35
- Track 2 : SBlackberry\_34
- Track 3 : Htur\_34, Rasovi\_34
- Track 4 : Benry\_33
- Track 5 : Sucha\_31
- Track 6 : FireCastle\_34
- Track 7 : Typher\_36
- Track 8 : Milani\_34
- Track 9 : Cicada\_36, Johann\_35, Goodman\_35
- Track 10 : PermaG\_35
- Track 11 : Zanella\_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 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cicada\_36, Goodman\_35, Johann\_35, PermaG\_35, Typher\_36, Zanella\_34,

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

- SBlackberry\_34,

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

- Benry\_33, FireCastle\_34, Htur\_34, Jera\_35, Milani\_34, Rasovi\_34, Sucha\_31, TurboVicky\_34,

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

Start 3:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 6 of 13
- Called 85.7% of time when present

- Phage (with cluster) where this start called: Cicada\_36 (EJ), Goodman\_35 (EJ), Johann\_35 (EJ), PermaG\_35 (EJ), Typher\_36 (EJ), Zanella\_34 (EJ),

Start 4:

- Found in 6 of 15 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 5 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benry\_33 (EJ), FireCastle\_34 (EJ), Jera\_35 (EJ), Milani\_34 (EJ), Sucha\_31 (EJ), TurboVicky\_34 (EJ),

Start 7:

- Found in 9 of 15 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Htur\_34 (EJ), Rasovi\_34 (EJ), SBlackberry\_34 (EJ),

### Summary by clusters:

There is one cluster represented in this pham: EJ

Info for manual annotations of cluster EJ:

- Start number 3 was manually annotated 6 times for cluster EJ.
- Start number 4 was manually annotated 5 times for cluster EJ.
- Start number 7 was manually annotated 2 times for cluster EJ.

### Gene Information:

Gene: Benry\_33 Start: 22963, Stop: 23190, Start Num: 4

Candidate Starts for Benry\_33:

(1, 22927), (Start: 4 @22963 has 5 MA's), (11, 23047), (15, 23104), (16, 23146),

Gene: Cicada\_36 Start: 24885, Stop: 25139, Start Num: 3

Candidate Starts for Cicada\_36:

(Start: 3 @24885 has 6 MA's), (6, 24912), (Start: 7 @24924 has 2 MA's), (9, 24966), (12, 24993), (14, 25029),

Gene: FireCastle\_34 Start: 24672, Stop: 24887, Start Num: 4

Candidate Starts for FireCastle\_34:

(2, 24660), (Start: 4 @24672 has 5 MA's), (11, 24744), (15, 24801), (16, 24843),

Gene: Goodman\_35 Start: 24798, Stop: 25052, Start Num: 3

Candidate Starts for Goodman\_35:

(Start: 3 @24798 has 6 MA's), (6, 24825), (Start: 7 @24837 has 2 MA's), (9, 24879), (12, 24906), (14, 24942),

Gene: Htur\_34 Start: 24932, Stop: 25132, Start Num: 7

Candidate Starts for Htur\_34:

(6, 24920), (Start: 7 @24932 has 2 MA's), (8, 24941), (13, 25022), (17, 25100),

Gene: Jera\_35 Start: 23971, Stop: 24192, Start Num: 4

Candidate Starts for Jera\_35:

(2, 23959), (Start: 4 @23971 has 5 MA's), (16, 24145),

Gene: Johann\_35 Start: 24798, Stop: 25052, Start Num: 3

Candidate Starts for Johann\_35:

(Start: 3 @24798 has 6 MA's), (6, 24825), (Start: 7 @24837 has 2 MA's), (9, 24879), (12, 24906), (14, 24942),

Gene: Milani\_34 Start: 23640, Stop: 23867, Start Num: 4

Candidate Starts for Milani\_34:

(Start: 4 @23640 has 5 MA's), (11, 23724), (16, 23823),

Gene: PermaG\_35 Start: 24831, Stop: 25070, Start Num: 3

Candidate Starts for PermaG\_35:

(Start: 3 @24831 has 6 MA's), (5, 24852), (6, 24858), (Start: 7 @24870 has 2 MA's), (10, 24912), (12, 24933),

Gene: Rasovi\_34 Start: 24932, Stop: 25132, Start Num: 7

Candidate Starts for Rasovi\_34:

(6, 24920), (Start: 7 @24932 has 2 MA's), (8, 24941), (13, 25022), (17, 25100),

Gene: SBlackberry\_34 Start: 24702, Stop: 24917, Start Num: 7

Candidate Starts for SBlackberry\_34:

(Start: 3 @24663 has 6 MA's), (6, 24690), (Start: 7 @24702 has 2 MA's), (9, 24744), (12, 24771), (14, 24807),

Gene: Sucha\_31 Start: 22132, Stop: 22359, Start Num: 4

Candidate Starts for Sucha\_31:

(Start: 4 @22132 has 5 MA's), (11, 22216), (15, 22273), (16, 22315),

Gene: TurboVicky\_34 Start: 24719, Stop: 24940, Start Num: 4

Candidate Starts for TurboVicky\_34:

(2, 24707), (Start: 4 @24719 has 5 MA's), (16, 24893),

Gene: Typher\_36 Start: 24809, Stop: 25063, Start Num: 3

Candidate Starts for Typher\_36:

(Start: 3 @24809 has 6 MA's), (6, 24836), (Start: 7 @24848 has 2 MA's), (9, 24890), (12, 24917), (14, 24953), (15, 24968),

Gene: Zanella\_34 Start: 24688, Stop: 24942, Start Num: 3

Candidate Starts for Zanella\_34:

(Start: 3 @24688 has 6 MA's), (6, 24715), (Start: 7 @24727 has 2 MA's), (9, 24769), (12, 24796), (14, 24832),