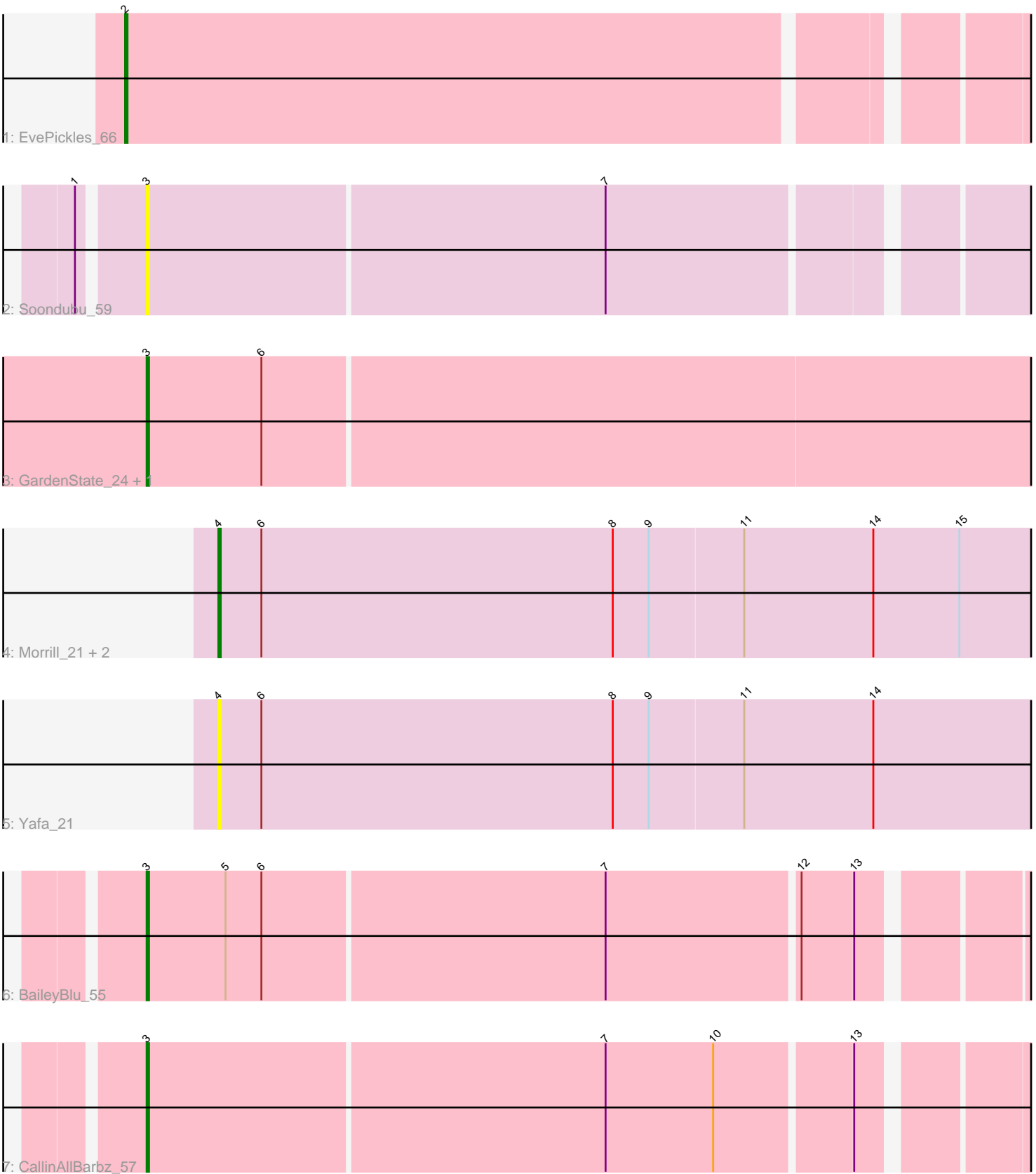


Pham 106834



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 106834 Report

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

Pham number 106834 has 10 members, 3 are drafts.

Phages represented in each track:

- Track 1 : EvePickles\_66
- Track 2 : Soondubu\_59
- Track 3 : GardenState\_24, IAmGroot\_24
- Track 4 : Morrill\_21, Atraxi\_21, ThirteenKH\_21
- Track 5 : Yafa\_21
- Track 6 : BaileyBlu\_55
- Track 7 : CallinAllBarbz\_57

### ***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 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BaileyBlu\_55, CallinAllBarbz\_57, GardenState\_24, IAmGroot\_24, Soondubu\_59,

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

- 

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

- Atraxi\_21, EvePickles\_66, Morrill\_21, ThirteenKH\_21, Yafa\_21,

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

Start 2:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EvePickles\_66 (AY),

Start 3:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 4 of 7
- Called 100.0% of time when present

- Phage (with cluster) where this start called: BaileyBlu\_55 (FP), CallinAllBarbz\_57 (FP), GardenState\_24 (EH), IAmGroot\_24 (EH), Soondubu\_59 (AZ),

Start 4:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atraxi\_21 (EK2), Morrill\_21 (EK2), ThirteenKH\_21 (EK2), Yafa\_21 (EK2),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AY, FP, AZ, EK2, EH,

Info for manual annotations of cluster AY:

- Start number 2 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster EH:

- Start number 3 was manually annotated 2 times for cluster EH.

Info for manual annotations of cluster EK2:

- Start number 4 was manually annotated 2 times for cluster EK2.

Info for manual annotations of cluster FP:

- Start number 3 was manually annotated 2 times for cluster FP.

### **Gene Information:**

Gene: Atraxi\_21 Start: 13858, Stop: 13481, Start Num: 4

Candidate Starts for Atraxi\_21:

(Start: 4 @13858 has 2 MA's), (6, 13840), (8, 13693), (9, 13678), (11, 13639), (14, 13585), (15, 13549),

Gene: BaileyBlu\_55 Start: 38198, Stop: 38548, Start Num: 3

Candidate Starts for BaileyBlu\_55:

(Start: 3 @38198 has 4 MA's), (5, 38231), (6, 38246), (7, 38387), (12, 38465), (13, 38486),

Gene: CallinAllBarbz\_57 Start: 39185, Stop: 39535, Start Num: 3

Candidate Starts for CallinAllBarbz\_57:

(Start: 3 @39185 has 4 MA's), (7, 39374), (10, 39419), (13, 39473),

Gene: EvePickles\_66 Start: 37066, Stop: 37425, Start Num: 2

Candidate Starts for EvePickles\_66:

(Start: 2 @37066 has 1 MA's),

Gene: GardenState\_24 Start: 19706, Stop: 20092, Start Num: 3

Candidate Starts for GardenState\_24:

(Start: 3 @19706 has 4 MA's), (6, 19754),

Gene: IAmGroot\_24 Start: 20367, Stop: 20753, Start Num: 3

Candidate Starts for IAmGroot\_24:  
(Start: 3 @20367 has 4 MA's), (6, 20415),

Gene: Morrill\_21 Start: 13841, Stop: 13464, Start Num: 4  
Candidate Starts for Morrill\_21:  
(Start: 4 @13841 has 2 MA's), (6, 13823), (8, 13676), (9, 13661), (11, 13622), (14, 13568), (15, 13532),

Gene: Soondubu\_59 Start: 43289, Stop: 43648, Start Num: 3  
Candidate Starts for Soondubu\_59:  
(1, 43265), (Start: 3 @43289 has 4 MA's), (7, 43478),

Gene: ThirteenKH\_21 Start: 13840, Stop: 13463, Start Num: 4  
Candidate Starts for ThirteenKH\_21:  
(Start: 4 @13840 has 2 MA's), (6, 13822), (8, 13675), (9, 13660), (11, 13621), (14, 13567), (15, 13531),

Gene: Yafa\_21 Start: 13860, Stop: 13483, Start Num: 4  
Candidate Starts for Yafa\_21:  
(Start: 4 @13860 has 2 MA's), (6, 13842), (8, 13695), (9, 13680), (11, 13641), (14, 13587),